

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070524\  
 Data File : BM046415.D  
 Acq On : 06 Jul 2024 12:44  
 Operator : MA/JU  
 Sample : P2982-07  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4CF2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/08/2024  
 Supervised By :mohammad ahmed 07/08/2024

Quant Time: Jul 08 00:48:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM070524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 05 16:01:25 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.535  | 152  | 11293    | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.299 | 136  | 33312    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.178 | 164  | 19737    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.934 | 188  | 37491    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.137 | 240  | 13213    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.300 | 264  | 15141    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.130  | 96   | 26168    | 2.243  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.899 | 152  | 11874    | 0.241  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.970 | 212  | 15519    | 0.335  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.348 | 128  | 25350    | 0.287  | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 11.976 | 142  | 12666    | 0.212  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.196 | 142  | 9678     | 0.157  | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.896 | 152  | 68294    | 0.682  | ng/ul  | 100      |
| 11) Acenaphthene            | 14.243 | 153  | 28070    | 0.430  | ng/ul  | 99       |
| 12) Fluorene                | 15.238 | 166  | 35256    | 0.457  | ng/ul  | 98       |
| 14) Pentachlorophenol       | 16.584 | 266  | 469      | 0.043  | ng/ul  | 96       |
| 15) Phenanthrene            | 16.972 | 178  | 687761   | 6.126  | ng/ul  | 99       |
| 16) Anthracene              | 17.065 | 178  | 142055   | 1.304  | ng/ul  | 100      |
| 19) Fluoranthene            | 19.002 | 202  | 1188004  | 17.788 | ng/ul  | 97       |
| 20) Pyrene                  | 19.365 | 202  | 779541   | 11.344 | ng/ul# | 94       |
| 21) Benzo(a)anthracene      | 21.122 | 228  | 404945   | 6.859  | ng/ul  | 94       |
| 22) Chrysene                | 21.175 | 228  | 439244   | 7.483  | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.659 | 252  | 599789m  | 9.318  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.700 | 252  | 206493m  | 3.178  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.206 | 252  | 207796   | 4.084  | ng/ul  | 98       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.447 | 276  | 221602   | 3.224  | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 25.457 | 278  | 70758    | 1.331  | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 26.094 | 276  | 33875    | 0.618  | ng/ul# | 90       |

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

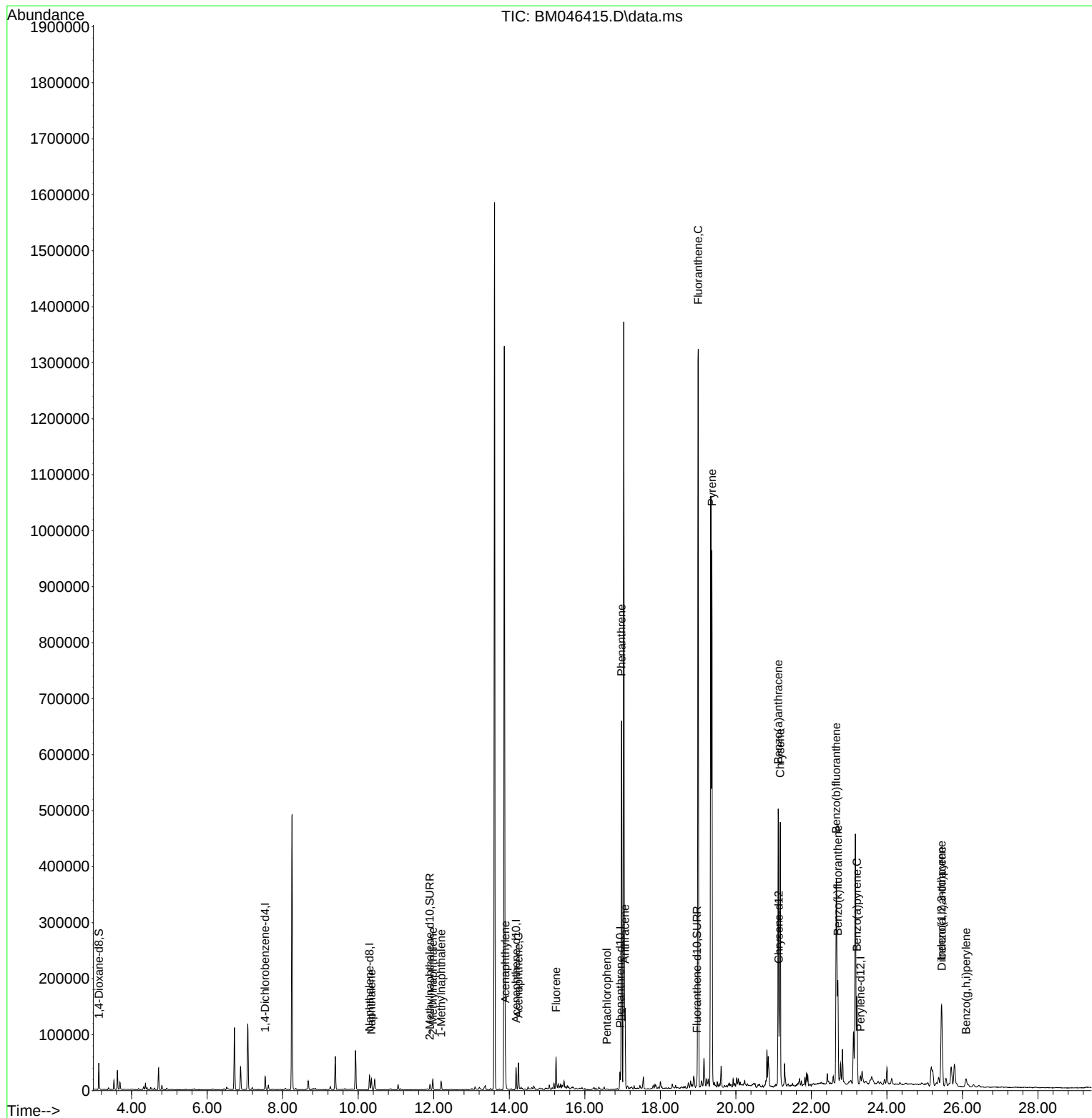
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070524\  
Data File : BM046415.D  
Acq On : 06 Jul 2024 12:44  
Operator : MA/JU  
Sample : P2982-07  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

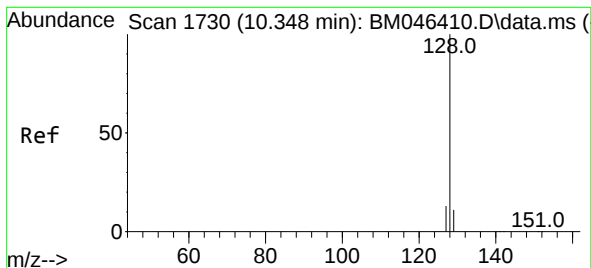
Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2

Manual Integrations  
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Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024

Quant Time: Jul 08 00:48:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM070524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 05 16:01:25 2024  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.287 ng/ul

RT: 10.348 min Scan# 1730

Delta R.T. -0.004 min

Lab File: BM046415.D

Acq: 06 Jul 2024 12:44

Instrument :

BNA\_M

ClientSampleId :

A4CF2

Tgt Ion:128 Resp: 25350

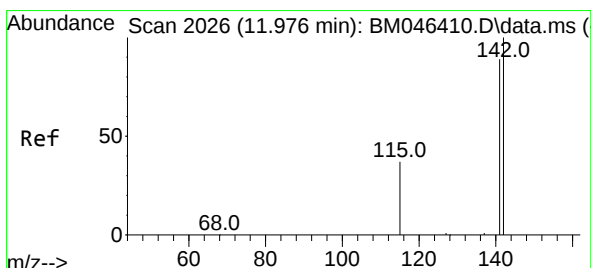
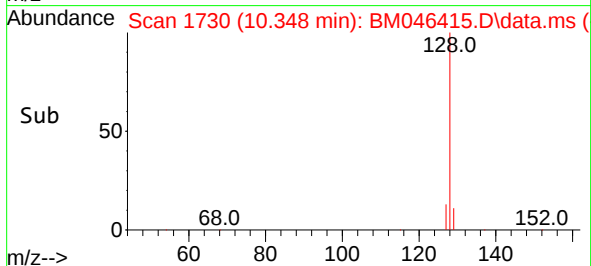
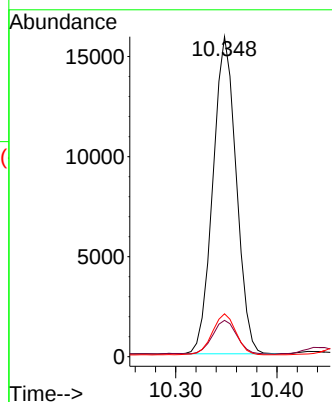
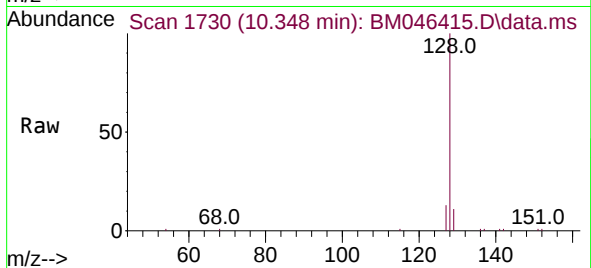
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.4  | 9.4   | 14.0  |
| 127 | 13.4  | 10.8  | 16.2  |

Manual Integrations

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Reviewed By :Yogesh Patel 07/08/2024

Supervised By :mohammad ahmed 07/08/2024



#7

2-Methylnaphthalene

Concen: 0.212 ng/ul

RT: 11.976 min Scan# 2026

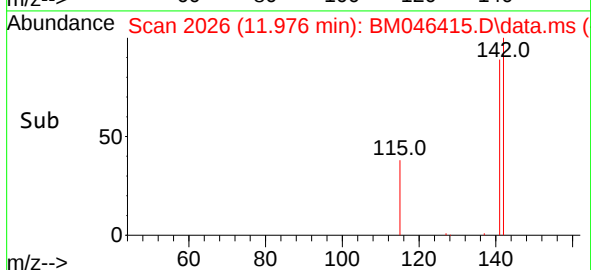
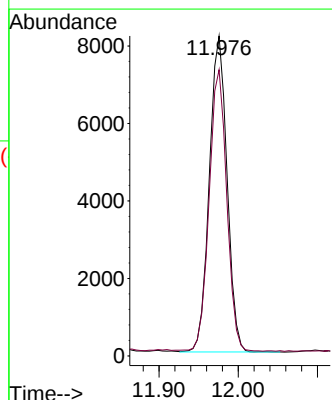
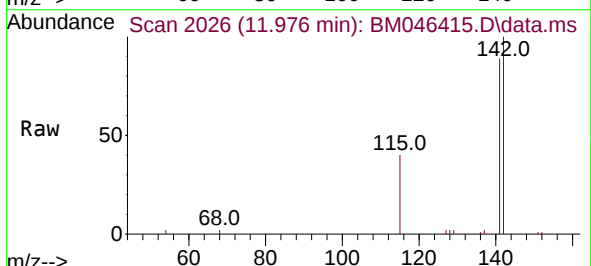
Delta R.T. -0.004 min

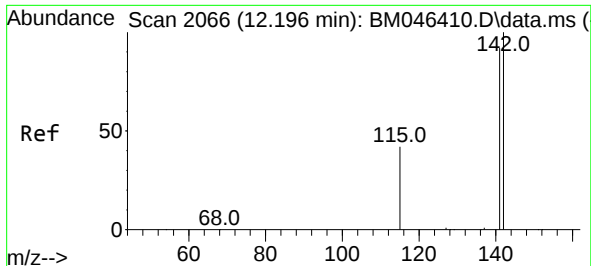
Lab File: BM046415.D

Acq: 06 Jul 2024 12:44

Tgt Ion:142 Resp: 12666

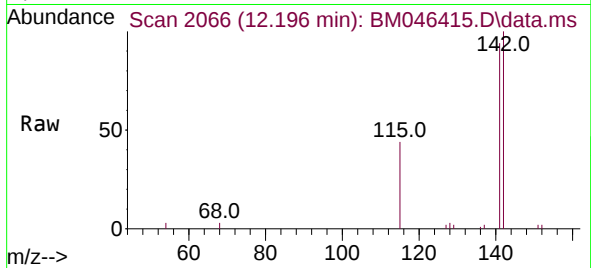
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 88.3  | 69.8  | 104.6 |





#8  
1-Methylnaphthalene  
Concen: 0.157 ng/ul  
RT: 12.196 min Scan# 2066  
Delta R.T. -0.004 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

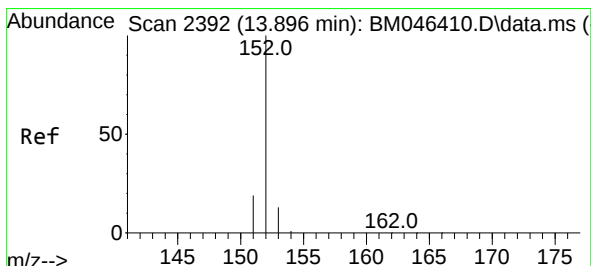
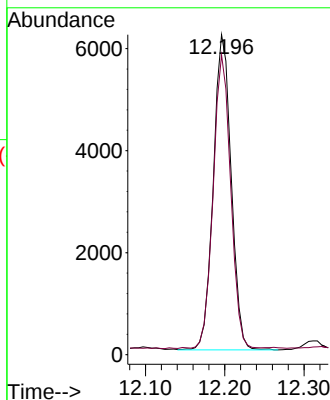
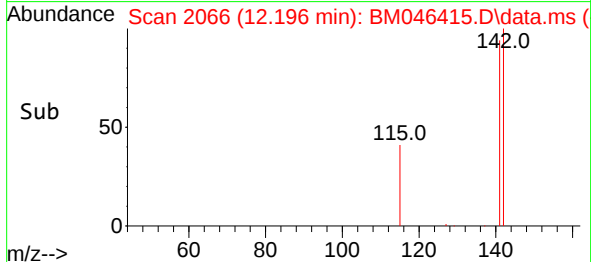
Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2



Tgt Ion:142 Resp: 9678  
Ion Ratio Lower Upper  
142 100  
141 91.2 72.4 108.6

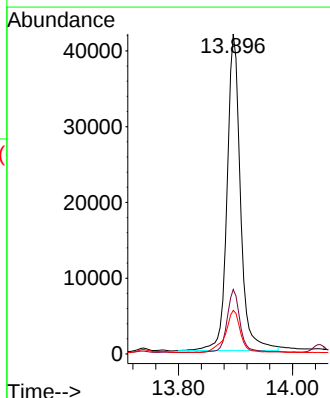
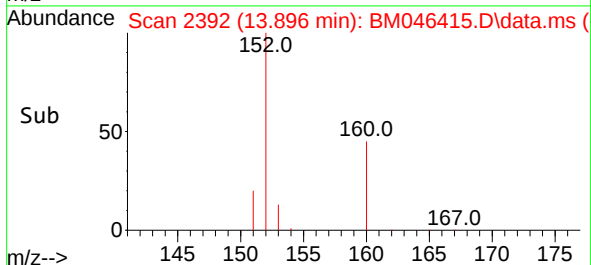
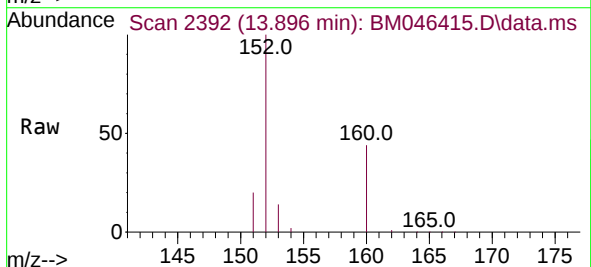
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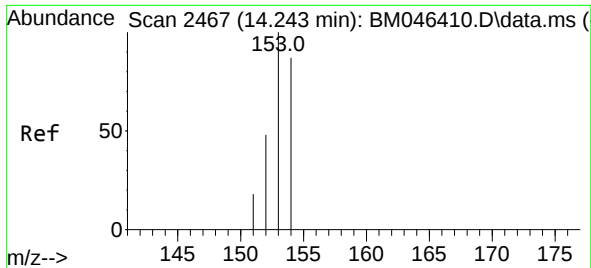
Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



#10  
Acenaphthylene  
Concen: 0.682 ng/ul  
RT: 13.896 min Scan# 2392  
Delta R.T. -0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

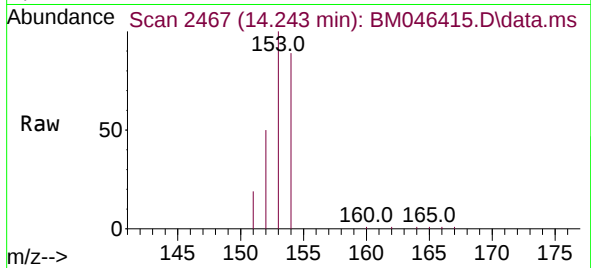
Tgt Ion:152 Resp: 68294  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.9 23.9  
153 13.6 11.0 16.6





#11  
Acenaphthene  
Concen: 0.430 ng/ul  
RT: 14.243 min Scan# 2467  
Delta R.T. -0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

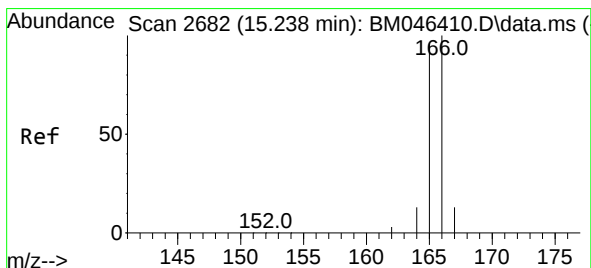
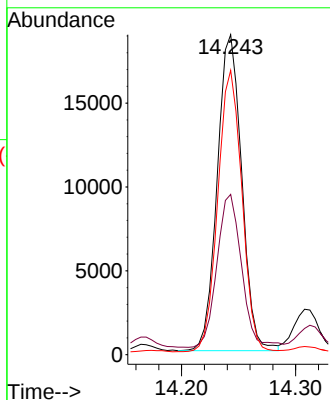
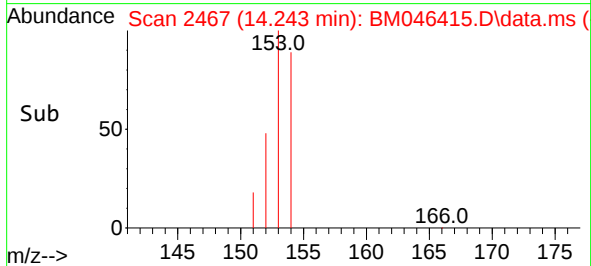
Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2



Tgt Ion:153 Resp: 28070  
Ion Ratio Lower Upper  
153 100  
152 50.1 40.4 60.6  
154 88.8 72.1 108.1

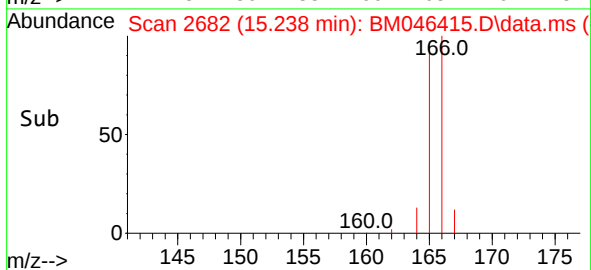
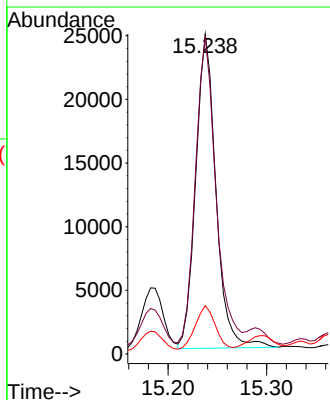
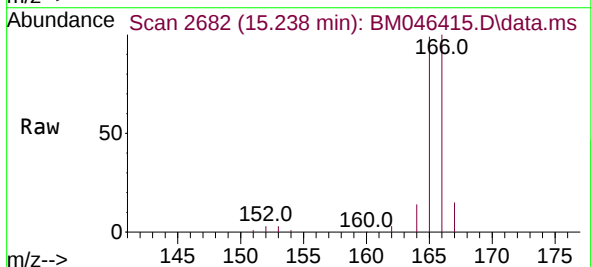
Manual Integrations  
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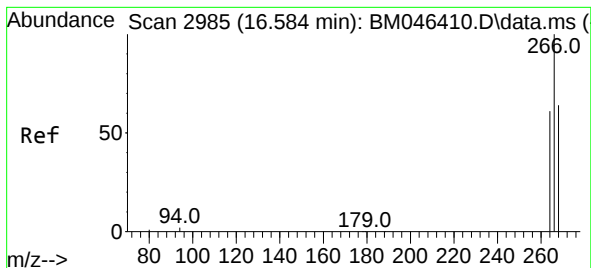
Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



#12  
Fluorene  
Concen: 0.457 ng/ul  
RT: 15.238 min Scan# 2682  
Delta R.T. -0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

Tgt Ion:166 Resp: 35256  
Ion Ratio Lower Upper  
166 100  
165 99.0 78.0 117.0  
167 15.1 11.4 17.0





#14

Pentachlorophenol

Concen: 0.043 ng/ul

RT: 16.584 min Scan# 2985

Delta R.T. -0.003 min

Lab File: BM046415.D

Acq: 06 Jul 2024 12:44

Instrument :

BNA\_M

ClientSampleId :

A4CF2

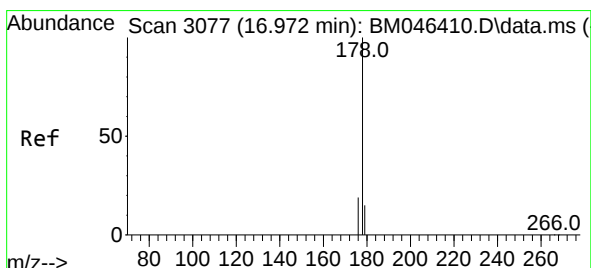
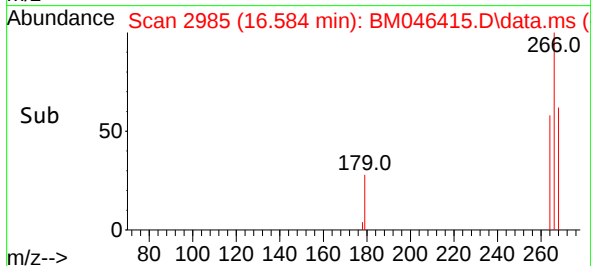
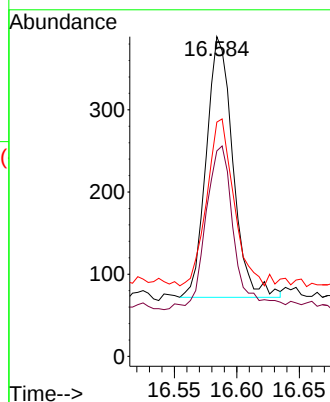
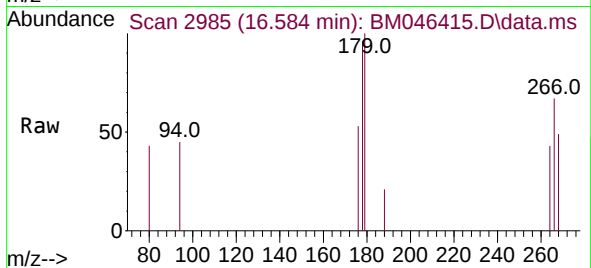
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 469  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 69.5  | 51.0  | 76.6 |
| 268       | 64.4  | 50.8  | 76.2 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/08/2024

Supervised By :mohammad ahmed 07/08/2024



#15

Phenanthrene

Concen: 6.126 ng/ul

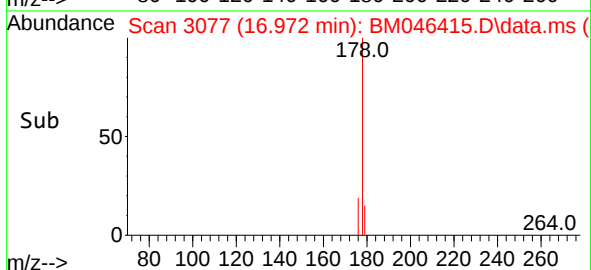
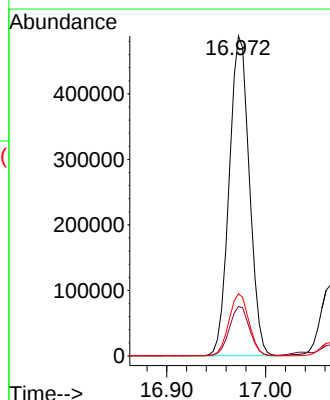
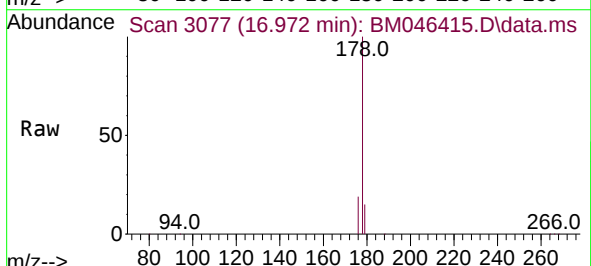
RT: 16.972 min Scan# 3077

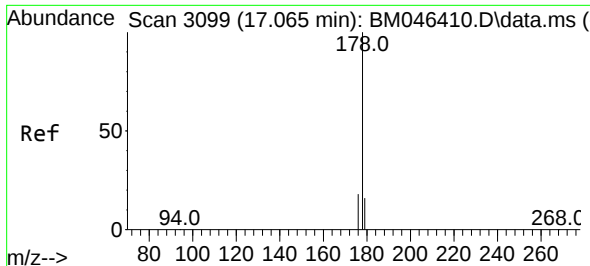
Delta R.T. -0.003 min

Lab File: BM046415.D

Acq: 06 Jul 2024 12:44

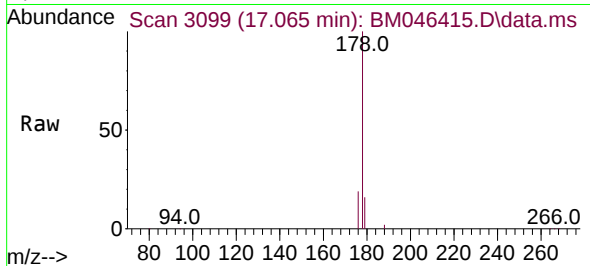
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 687761 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 12.7  | 19.1   |
| 176       | 19.5  | 16.0  | 24.0   |





#16  
 Anthracene  
 Concen: 1.304 ng/u1  
 RT: 17.065 min Scan# 3099  
 Delta R.T. -0.003 min  
 Lab File: BM046415.D  
 Acq: 06 Jul 2024 12:44

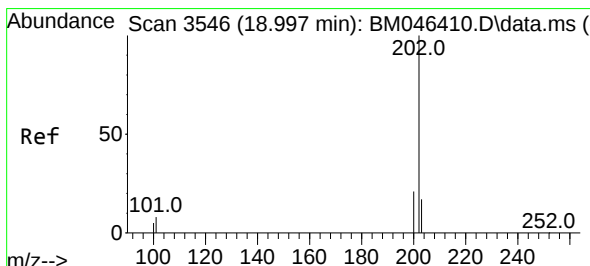
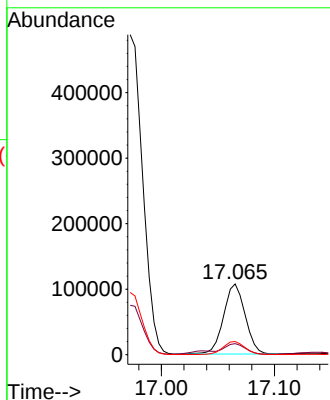
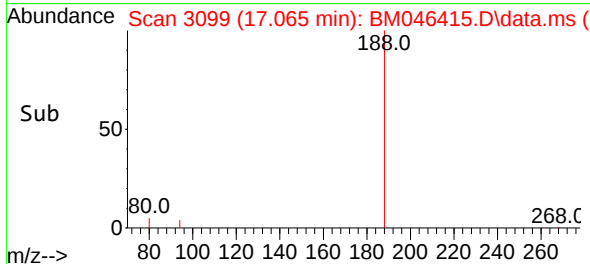
Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4CF2



Tgt Ion:178 Resp: 142051  
 Ion Ratio Lower Upper  
 178 100  
 179 15.6 12.6 18.8  
 176 18.6 14.9 22.3

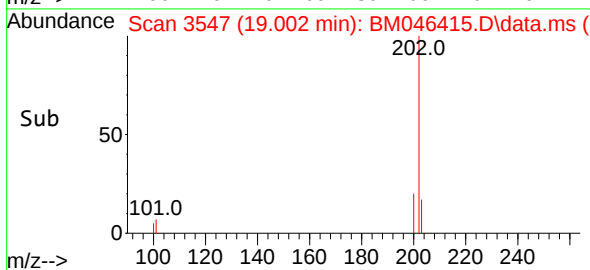
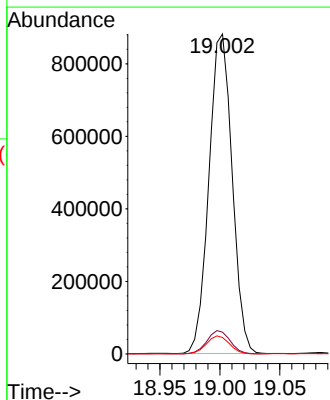
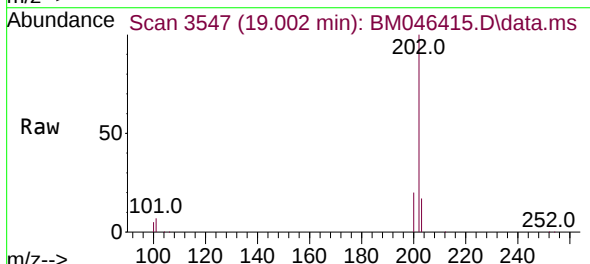
Manual Integrations  
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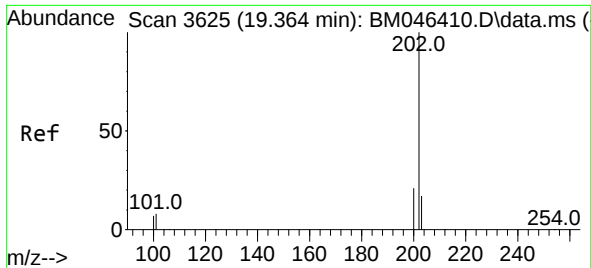
Reviewed By :Yogesh Patel 07/08/2024  
 Supervised By :mohammad ahmed 07/08/2024



#19  
 Fluoranthene  
 Concen: 17.788 ng/u1  
 RT: 19.002 min Scan# 3547  
 Delta R.T. -0.003 min  
 Lab File: BM046415.D  
 Acq: 06 Jul 2024 12:44

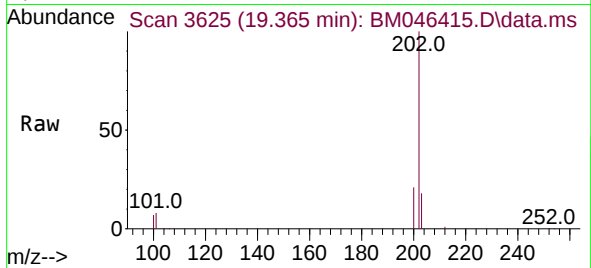
Tgt Ion:202 Resp: 1188004  
 Ion Ratio Lower Upper  
 202 100  
 101 6.8 6.3 9.5  
 100 5.1 5.0 7.6





#20  
Pyrene  
Concen: 11.344 ng/ul  
RT: 19.365 min Scan# 30  
Delta R.T. 0.001 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

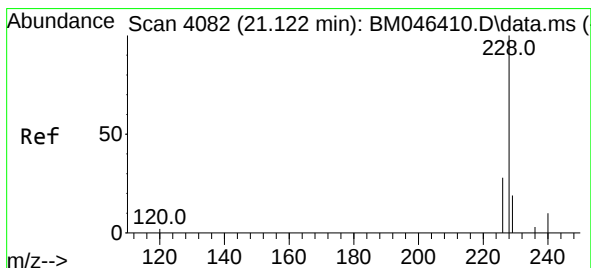
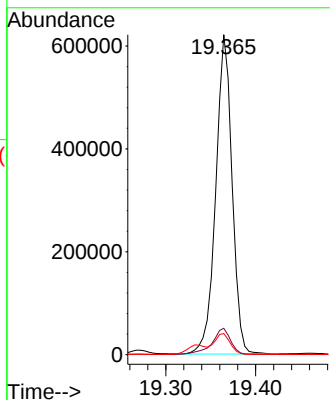
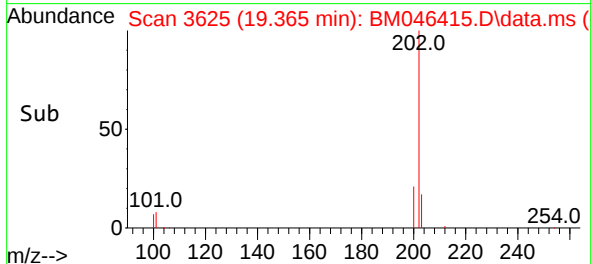
Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2



Tgt Ion:202 Resp: 77954  
Ion Ratio Lower Upper  
202 100  
101 8.2 8.2 12.4  
100 6.6 6.9 10.3

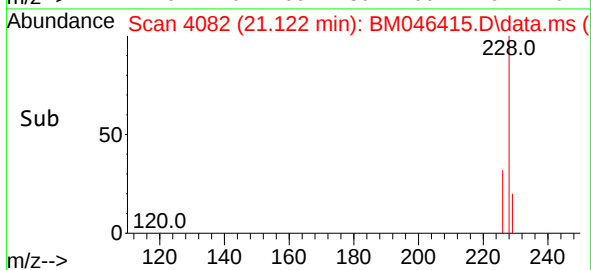
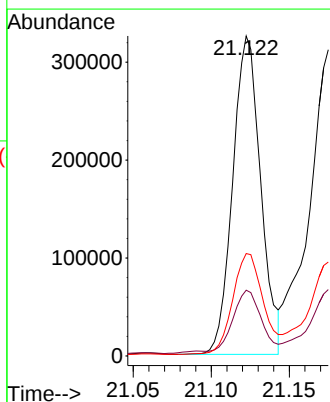
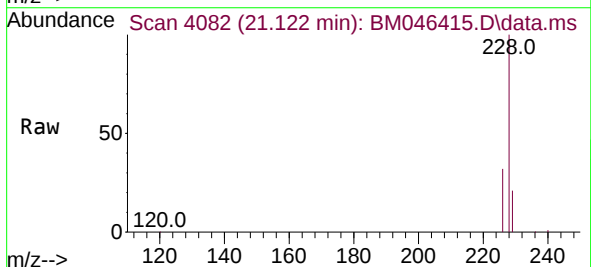
Manual Integrations  
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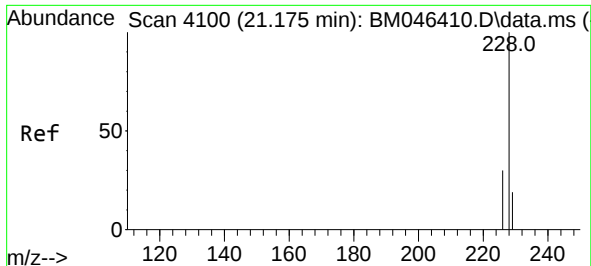
Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



#21  
Benzo(a)anthracene  
Concen: 6.859 ng/ul  
RT: 21.122 min Scan# 4082  
Delta R.T. -0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

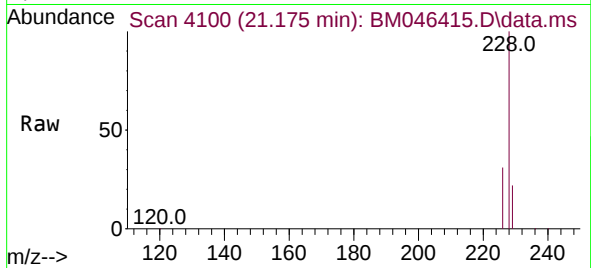
Tgt Ion:228 Resp: 404945  
Ion Ratio Lower Upper  
228 100  
229 20.5 15.8 23.6  
226 32.0 22.0 33.0





#22  
Chrysene  
Concen: 7.483 ng/ul  
RT: 21.175 min Scan# 4100  
Delta R.T. -0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

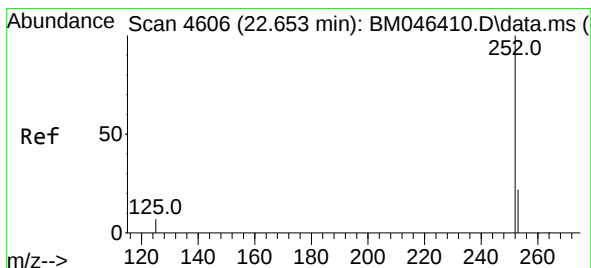
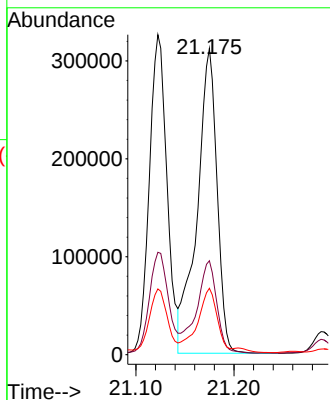
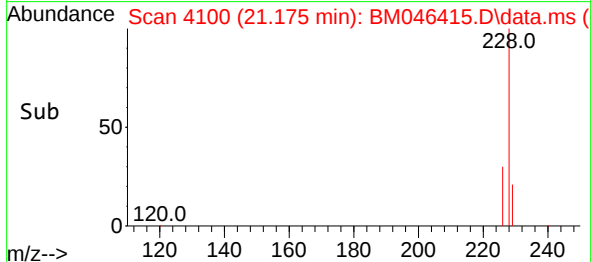
Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2



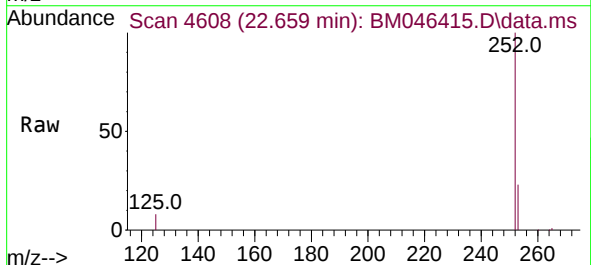
Tgt Ion:228 Resp: 439244  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.1 36.1  
229 21.7 15.8 23.6

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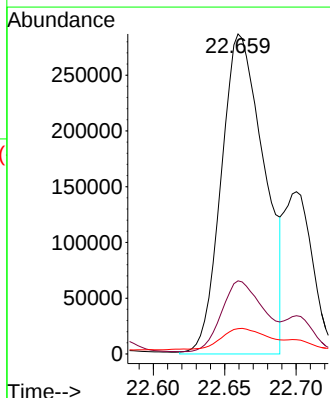
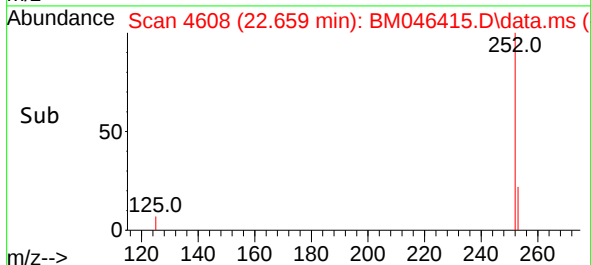
Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024

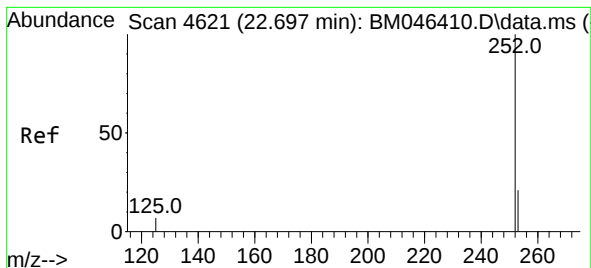


#24  
Benzo(b)fluoranthene  
Concen: 9.318 ng/ul m  
RT: 22.659 min Scan# 4608  
Delta R.T. -0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44



Tgt Ion:252 Resp: 599789  
Ion Ratio Lower Upper  
252 100  
253 22.8 0.0 47.0  
125 7.9 0.0 18.4





#25

Benzo(k)fluoranthene

Concen: 3.178 ng/ul m

RT: 22.700 min Scan# 4

Delta R.T. -0.006 min

Lab File: BM046415.D

Acq: 06 Jul 2024 12:44

Instrument :

BNA\_M

ClientSampleId :

A4CF2

Tgt Ion:252 Resp: 20649

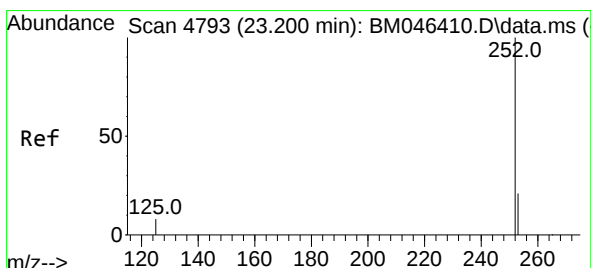
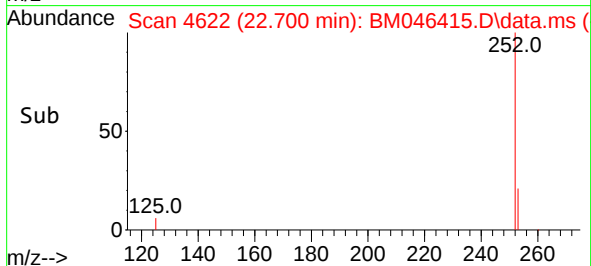
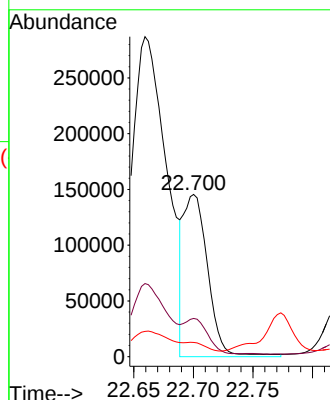
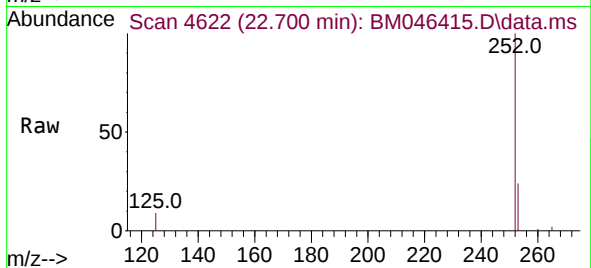
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.6  | 18.4  | 27.6  |
| 125 | 8.8   | 7.5   | 11.3  |

Manual Integrations

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Reviewed By :Yogesh Patel 07/08/2024

Supervised By :mohammad ahmed 07/08/2024



#26

Benzo(a)pyrene

Concen: 4.084 ng/ul

RT: 23.206 min Scan# 4795

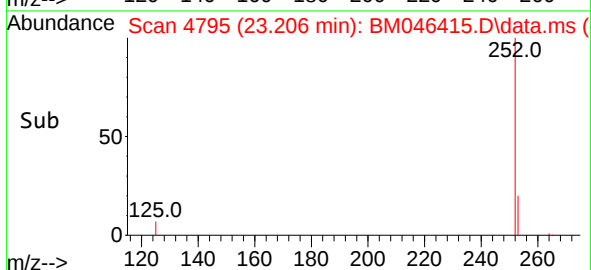
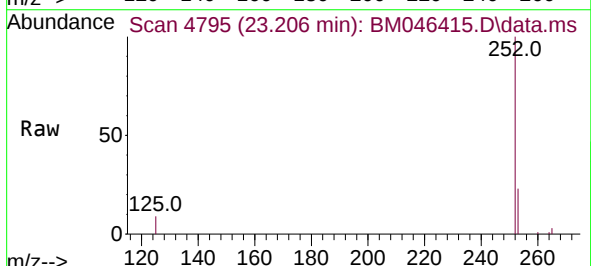
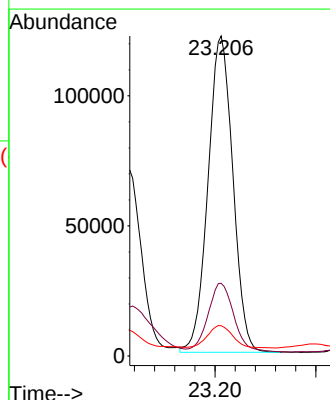
Delta R.T. -0.003 min

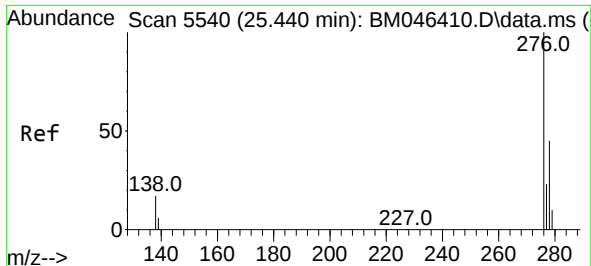
Lab File: BM046415.D

Acq: 06 Jul 2024 12:44

Tgt Ion:252 Resp: 207796

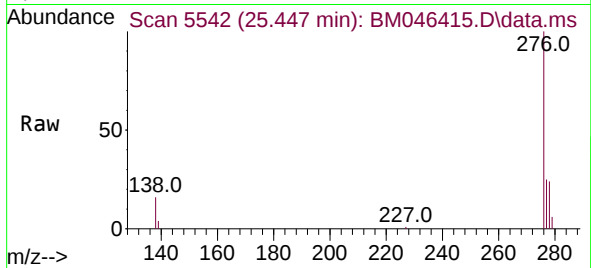
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.7  | 18.9  | 28.3  |
| 125 | 9.4   | 8.1   | 12.1  |





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.224 ng/ul  
RT: 25.447 min Scan# 5542  
Delta R.T. -0.000 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

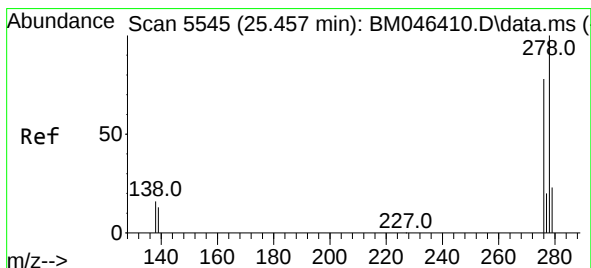
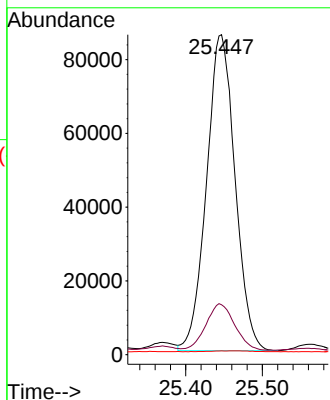
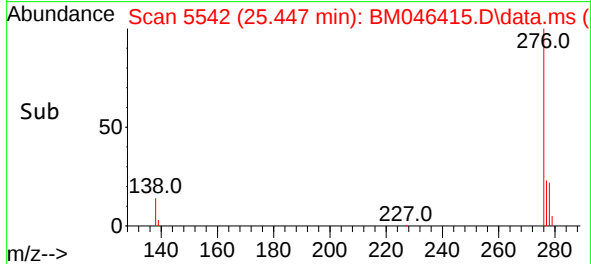
Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2



Tgt Ion:276 Resp: 221602  
Ion Ratio Lower Upper  
276 100  
138 14.9 15.7 23.5  
227 0.0 0.1 0.1

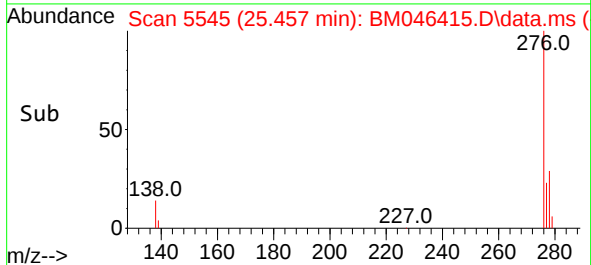
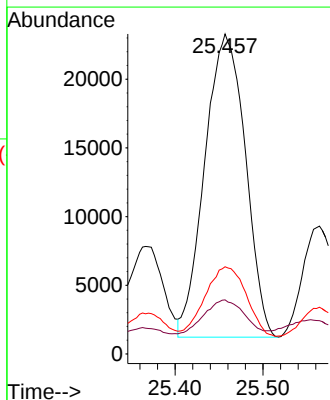
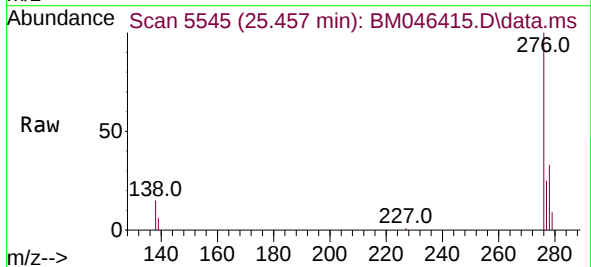
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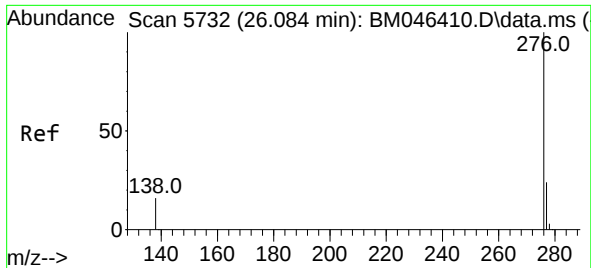
Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



#28  
Dibenzo(a,h)anthracene  
Concen: 1.331 ng/ul  
RT: 25.457 min Scan# 5545  
Delta R.T. -0.017 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

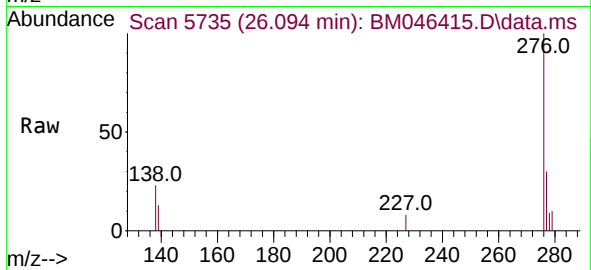
Tgt Ion:278 Resp: 70758  
Ion Ratio Lower Upper  
278 100  
139 16.9 12.6 18.8  
279 27.3 20.7 31.1





#29  
Benzo(g,h,i)perylene  
Concen: 0.618 ng/ul  
RT: 26.094 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: BM046415.D  
Acq: 06 Jul 2024 12:44

Instrument :  
BNA\_M  
ClientSampleId :  
A4CF2



Tgt Ion:276 Resp: 3387  
Ion Ratio Lower Upper  
276 100  
138 23.4 15.4 23.0  
277 30.0 19.7 29.5

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024

