

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
 Data File : BM046677.D  
 Acq On : 17 Jul 2024 19:29  
 Operator : MA/JU  
 Sample : P3177-16  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4BY2

Manual Integrations  
 APPROVED

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

Quant Time: Jul 17 23:02:03 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  | 2410     | 0.400  | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.255 | 136  | 6369     | 0.400  | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.137 | 164  | 4481     | 0.400  | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.892 | 188  | 10038    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.102 | 240  | 6978     | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.244 | 264  | 10095    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.113  | 96   | 3365     | 1.699  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.855 | 152  | 1486     | 0.145  | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 18.932 | 212  | 3968     | 0.187  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.304 | 128  | 10203    | 0.630  | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 11.926 | 142  | 4746     | 0.417  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.152 | 142  | 3310     | 0.285  | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.854 | 152  | 42886    | 2.102  | ng/ul  | 97       |
| 11) Acenaphthene            | 14.201 | 153  | 11465    | 0.839  | ng/ul  | 97       |
| 12) Fluorene                | 15.196 | 166  | 15951    | 0.943  | ng/ul  | 97       |
| 14) Pentachlorophenol       | 16.550 | 266  | 602      | 0.118  | ng/ul  | 94       |
| 15) Phenanthrene            | 16.934 | 178  | 404094   | 14.107 | ng/ul  | 98       |
| 16) Anthracene              | 17.023 | 178  | 84267    | 3.015  | ng/ul  | 98       |
| 19) Fluoranthene            | 18.965 | 202  | 1160153  | 40.477 | ng/ul  | 99       |
| 20) Pyrene                  | 19.327 | 202  | 626465   | 20.188 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.084 | 228  | 447870   | 14.508 | ng/ul  | 98       |
| 22) Chrysene                | 21.137 | 228  | 582438   | 19.499 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.613 | 252  | 894784m  | 22.191 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.651 | 252  | 317884m  | 8.030  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.153 | 252  | 196599   | 5.924  | ng/ul# | 91       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.370 | 276  | 259328   | 5.135  | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.383 | 278  | 102718   | 2.569  | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 26.017 | 276  | 36851    | 0.915  | ng/ul# | 88       |
| -----                       |        |      |          |        |        |          |

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

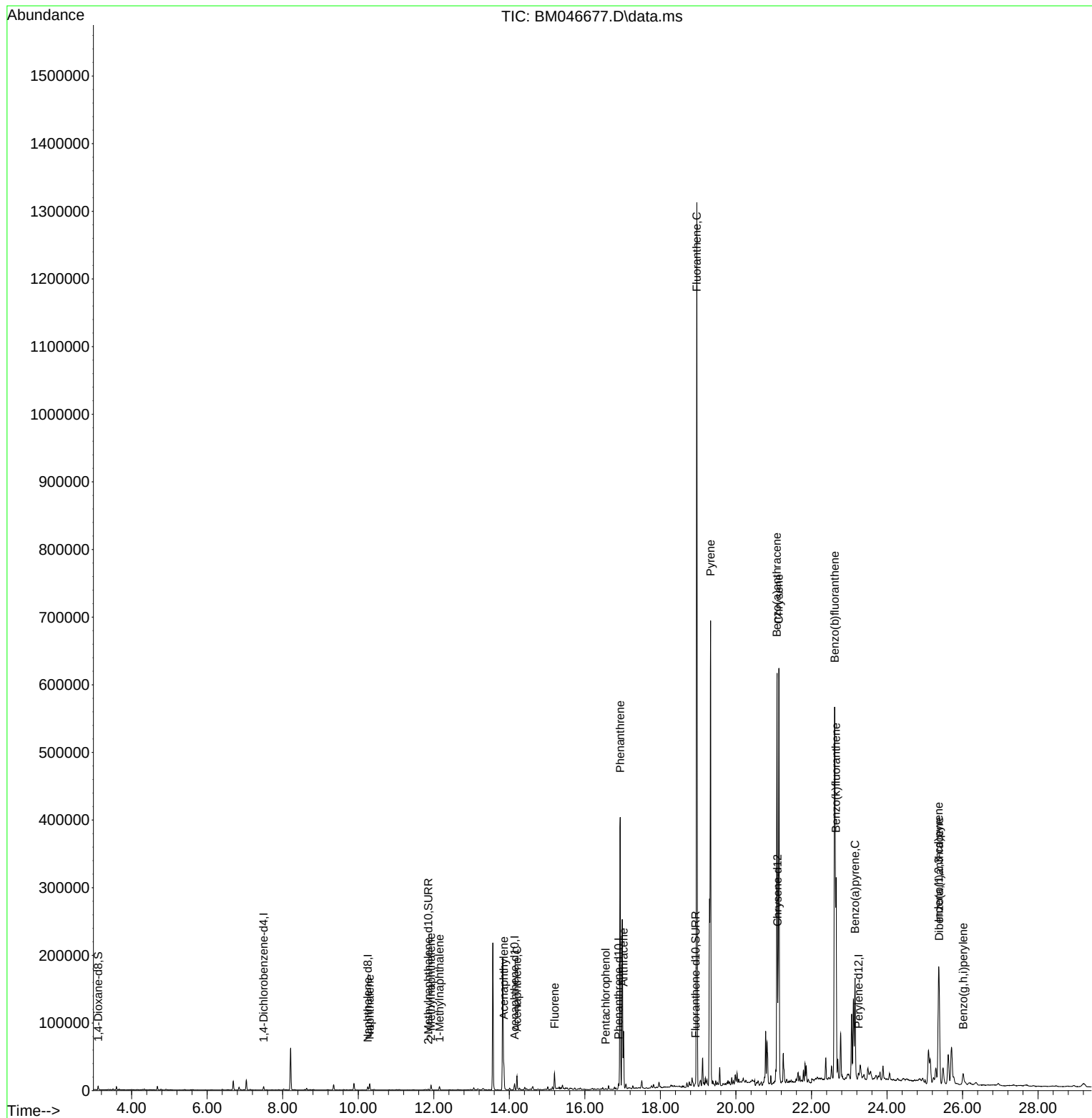
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046677.D  
Acq On : 17 Jul 2024 19:29  
Operator : MA/JU  
Sample : P3177-16  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

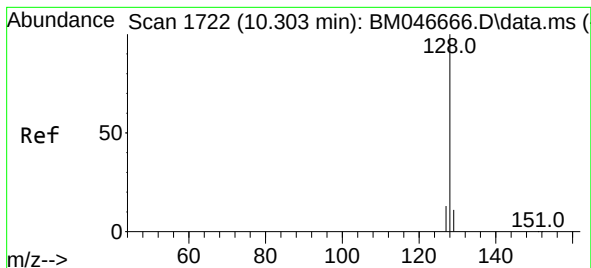
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2

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Supervised By :mohammad ahmed 07/18/2024

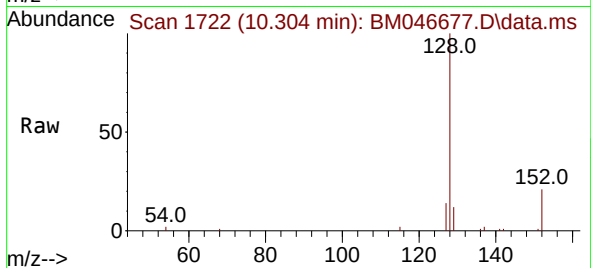
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.630 ng/ul  
RT: 10.304 min Scan# 1722  
Delta R.T. -0.011 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

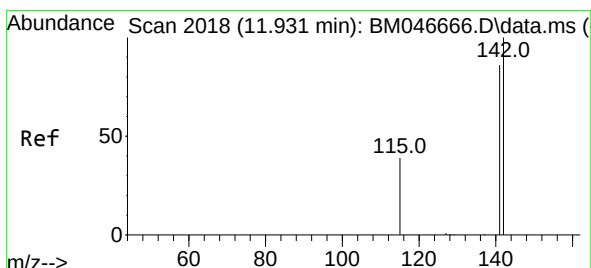
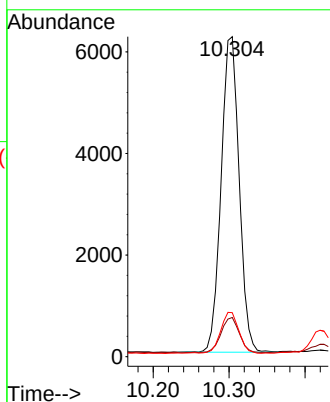
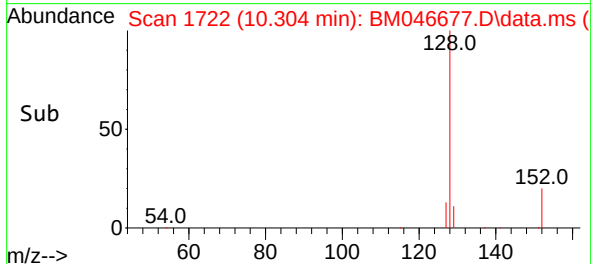
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



Tgt Ion:128 Resp: 1020  
Ion Ratio Lower Upper  
128 100  
129 12.3 10.3 15.5  
127 13.8 12.2 18.4

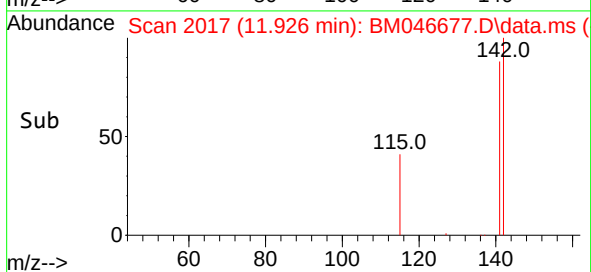
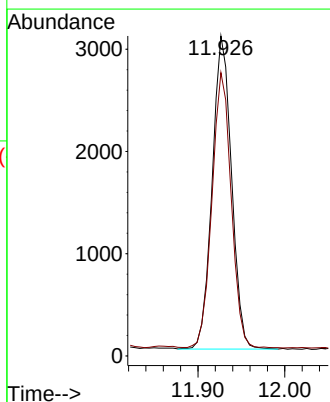
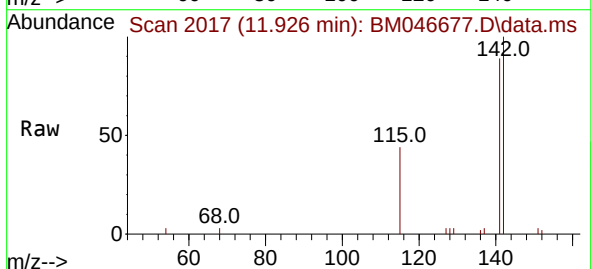
Manual Integrations  
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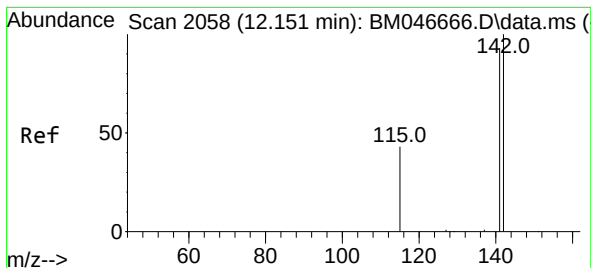
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#7  
2-Methylnaphthalene  
Concen: 0.417 ng/ul  
RT: 11.926 min Scan# 2017  
Delta R.T. -0.017 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

Tgt Ion:142 Resp: 4746  
Ion Ratio Lower Upper  
142 100  
141 87.3 70.3 105.5





#8

1-Methylnaphthalene

Concen: 0.285 ng/ul

RT: 12.152 min Scan# 2058

Delta R.T. -0.011 min

Lab File: BM046677.D

Acq: 17 Jul 2024 19:29

Instrument :

BNA\_M

ClientSampleId :

A4BY2

Tgt Ion:142 Resp: 3310

Ion Ratio Lower Upper

142 100

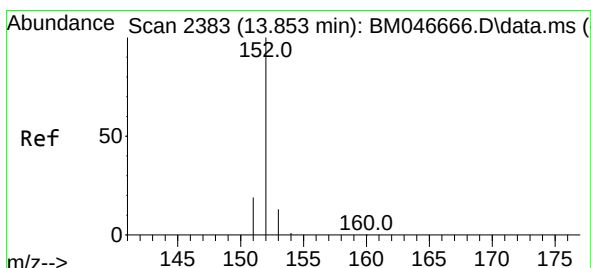
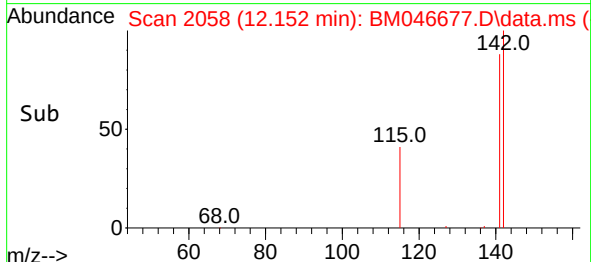
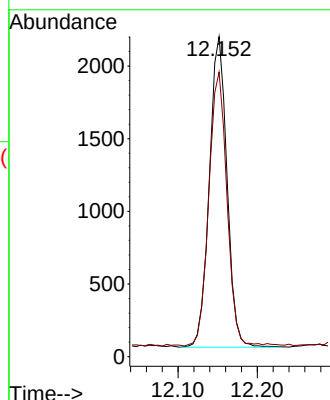
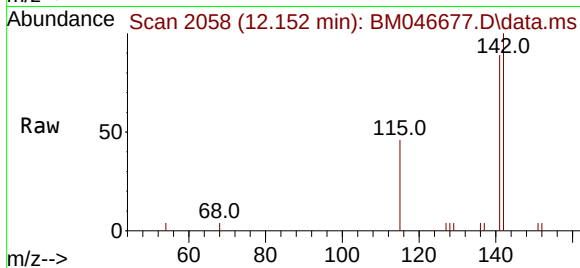
141 90.6 73.9 110.9

Manual Integrations

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Reviewed By :Yogesh Patel 07/18/2024

Supervised By :mohammad ahmed 07/18/2024



#10

Acenaphthylene

Concen: 2.102 ng/ul

RT: 13.854 min Scan# 2383

Delta R.T. -0.010 min

Lab File: BM046677.D

Acq: 17 Jul 2024 19:29

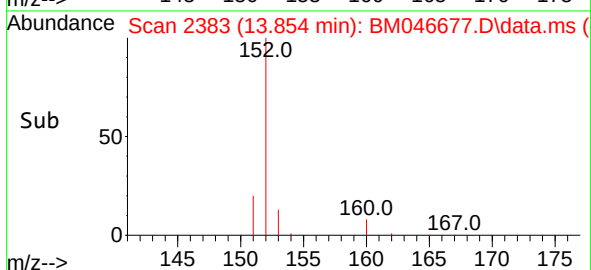
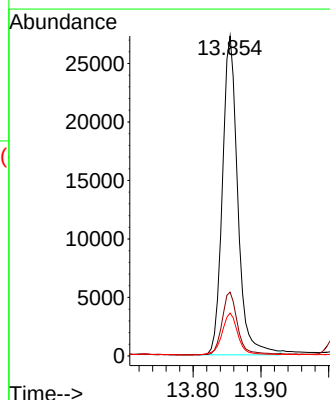
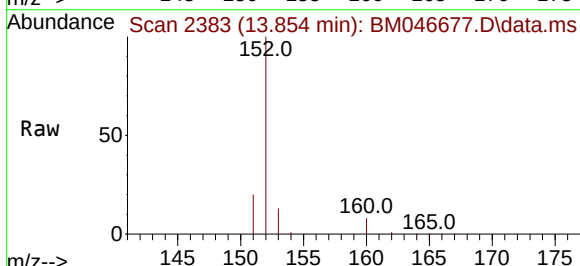
Tgt Ion:152 Resp: 42886

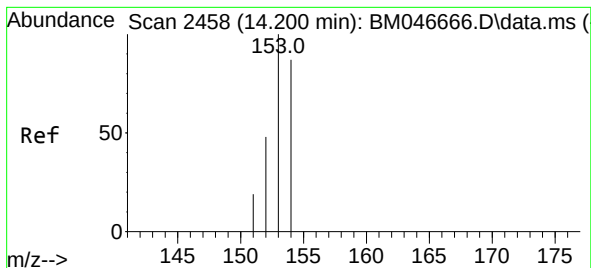
Ion Ratio Lower Upper

152 100

151 20.0 16.4 24.6

153 13.4 12.4 18.6





#11

Acenaphthene

Concen: 0.839 ng/uI

RT: 14.201 min Scan# 2458

Delta R.T. -0.010 min

Lab File: BM046677.D

Acq: 17 Jul 2024 19:29

Instrument :

BNA\_M

ClientSampleId :

A4BY2

Tgt Ion:153 Resp: 11468

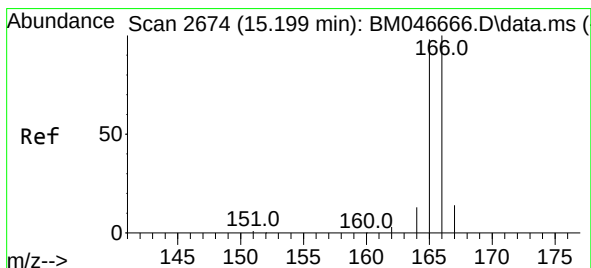
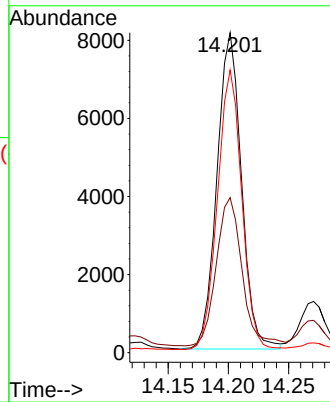
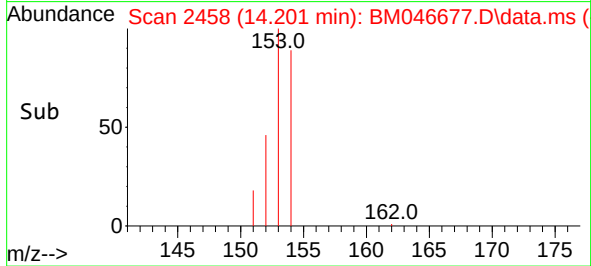
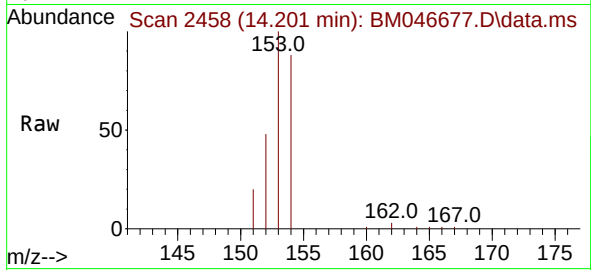
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 48.4  | 43.0  | 64.6  |
| 154 | 88.3  | 69.9  | 104.9 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/18/2024

Supervised By :mohammad ahmed 07/18/2024



#12

Fluorene

Concen: 0.943 ng/uI

RT: 15.196 min Scan# 2673

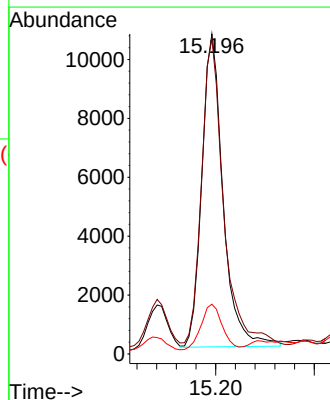
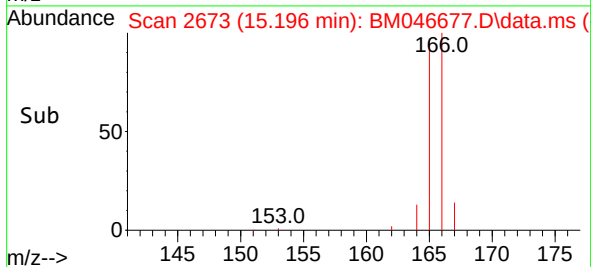
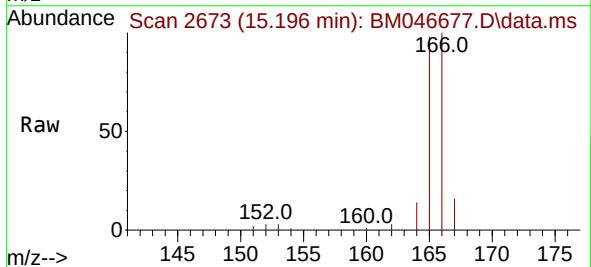
Delta R.T. -0.010 min

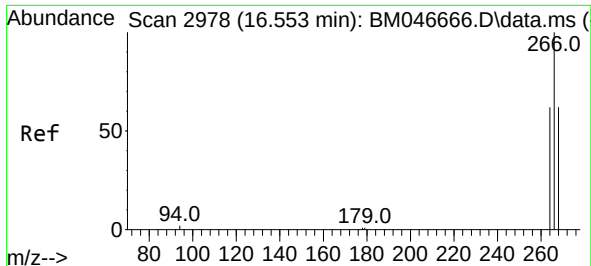
Lab File: BM046677.D

Acq: 17 Jul 2024 19:29

Tgt Ion:166 Resp: 15951

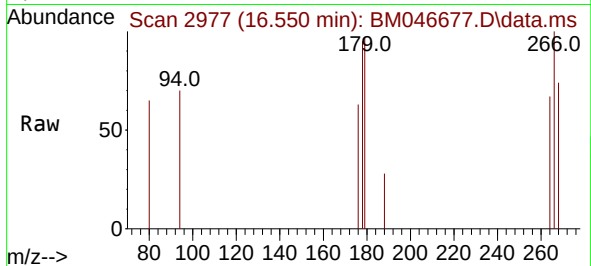
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 98.5  | 76.1  | 114.1 |
| 167 | 15.5  | 12.5  | 18.7  |





#14  
Pentachlorophenol  
Concen: 0.118 ng/ul  
RT: 16.550 min Scan# 2977  
Delta R.T. -0.005 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

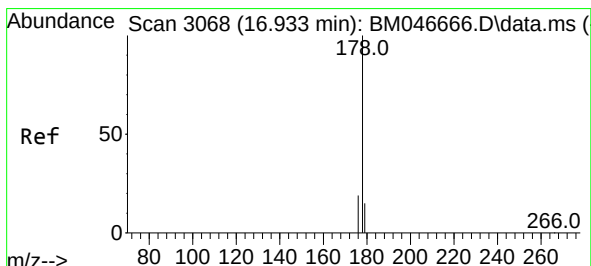
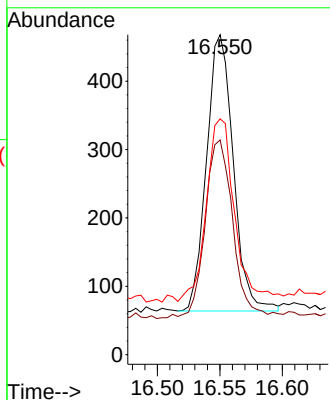
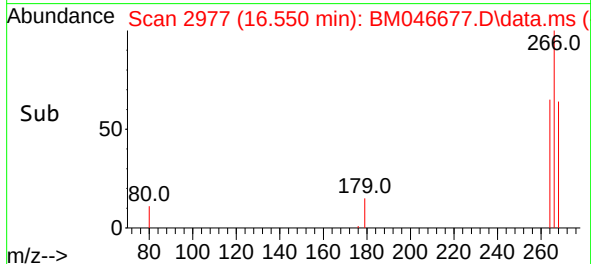
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



Tgt Ion:266 Resp: 602  
Ion Ratio Lower Upper  
266 100  
264 67.9 50.1 75.1  
268 69.6 52.5 78.7

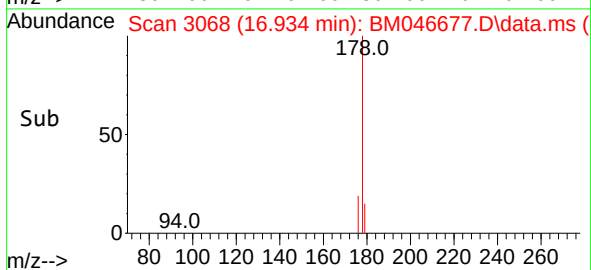
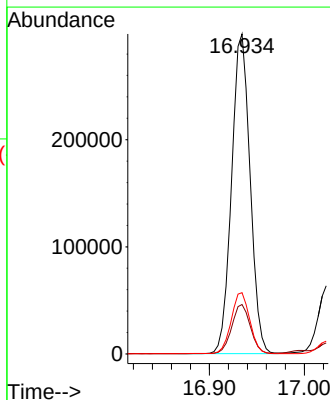
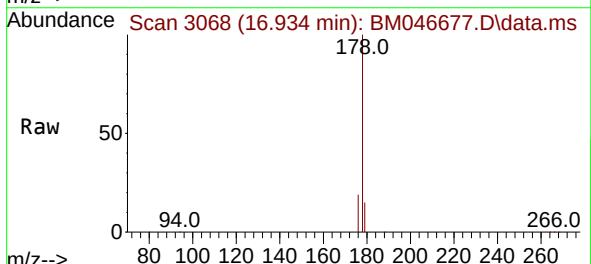
Manual Integrations  
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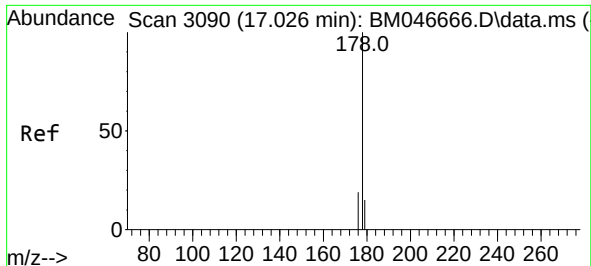
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#15  
Phenanthrene  
Concen: 14.107 ng/ul  
RT: 16.934 min Scan# 3068  
Delta R.T. -0.009 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

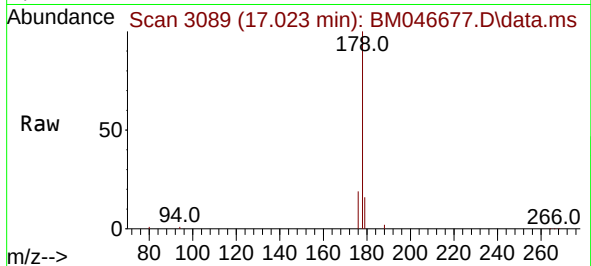
Tgt Ion:178 Resp: 404094  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.1 19.7  
176 19.2 16.0 24.0





#16  
Anthracene  
Concen: 3.015 ng/ul  
RT: 17.023 min Scan# 3090  
Delta R.T. -0.009 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

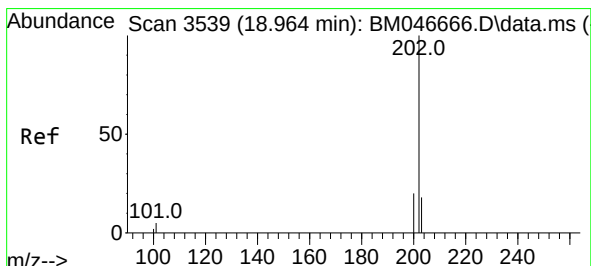
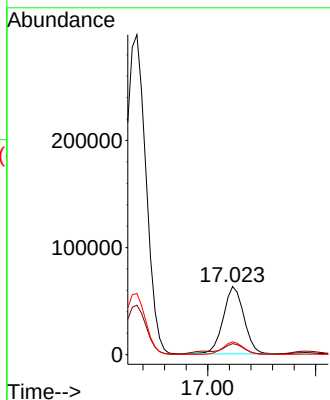
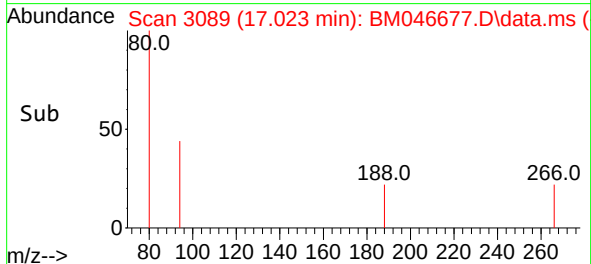
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



Tgt Ion:178 Resp: 8426  
Ion Ratio Lower Upper  
178 100  
179 16.1 13.5 20.3  
176 18.8 15.7 23.5

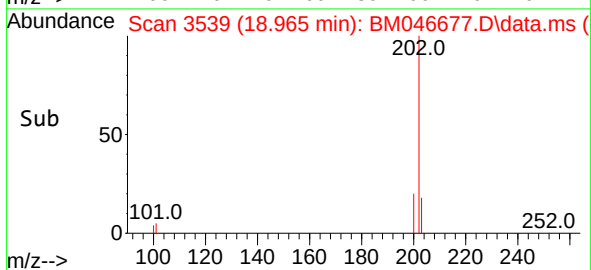
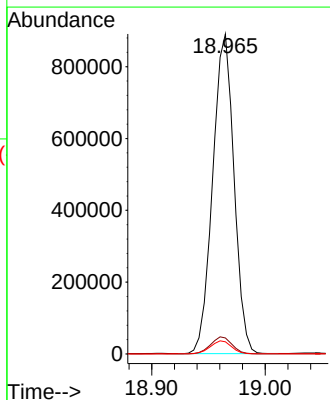
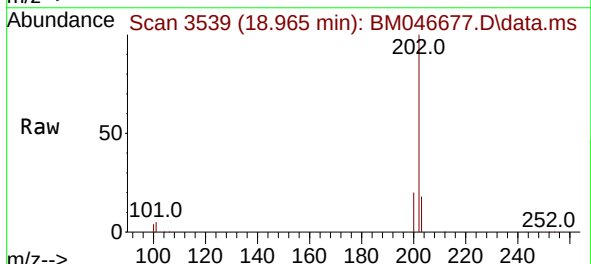
Manual Integrations  
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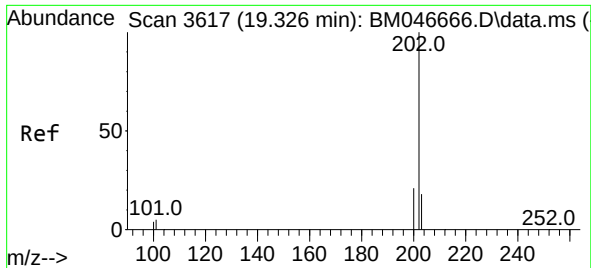
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#19  
Fluoranthene  
Concen: 40.477 ng/ul  
RT: 18.965 min Scan# 3539  
Delta R.T. -0.005 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

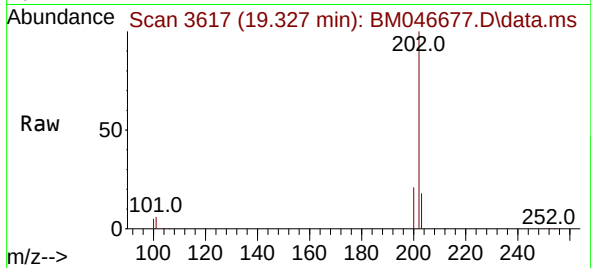
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Ion Ratio Lower Upper  
202 100  
101 5.0 4.6 6.8  
100 3.8 3.0 4.6





#20  
Pyrene  
Concen: 20.188 ng/ul  
RT: 19.327 min Scan# 30  
Delta R.T. -0.005 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

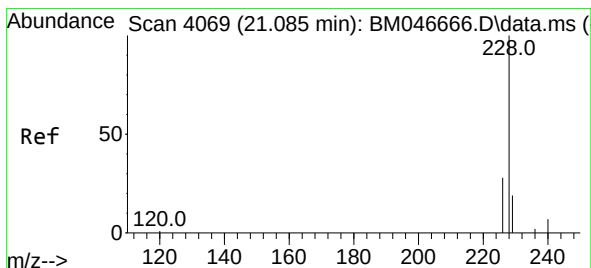
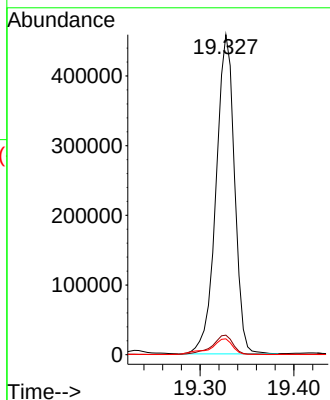
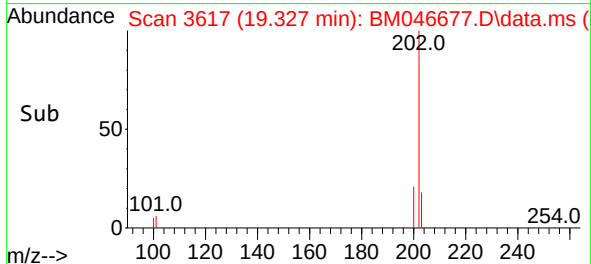
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



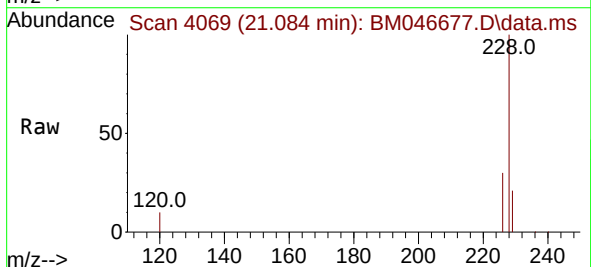
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Ion Ratio Lower Upper  
202 100  
101 6.1 5.1 7.7  
100 5.0 3.8 5.6

Manual Integrations  
APPROVED

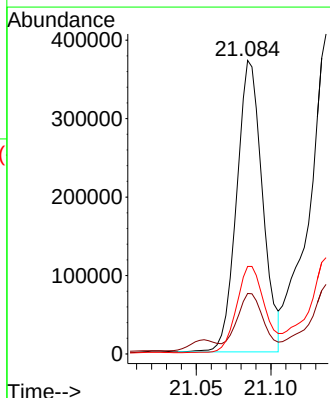
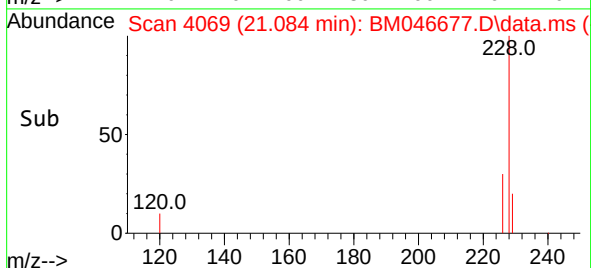
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



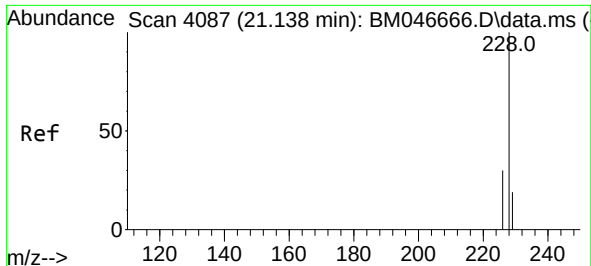
#21  
Benzo(a)anthracene  
Concen: 14.508 ng/ul  
RT: 21.084 min Scan# 4069  
Delta R.T. -0.003 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29



Tgt Ion:228 Resp: 447870  
Ion Ratio Lower Upper  
228 100  
229 20.6 16.5 24.7  
226 29.8 22.5 33.7

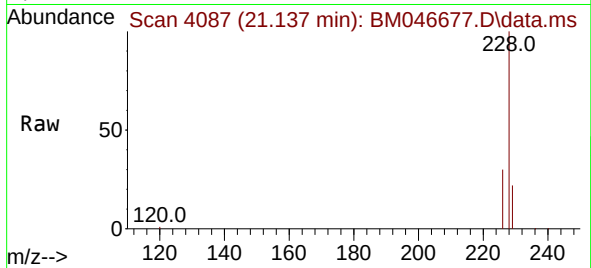






#22  
Chrysene  
Concen: 19.499 ng/ul  
RT: 21.137 min Scan# 4087  
Delta R.T. -0.003 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

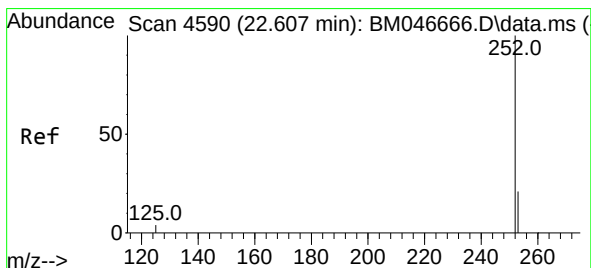
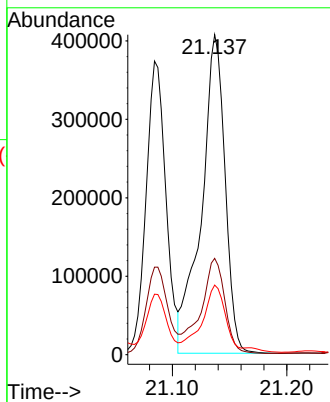
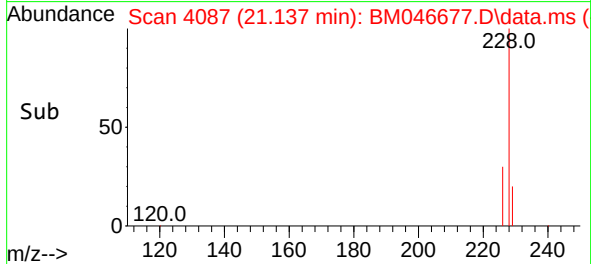
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



Tgt Ion:228 Resp: 582438  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.3 36.5  
229 21.8 16.4 24.6

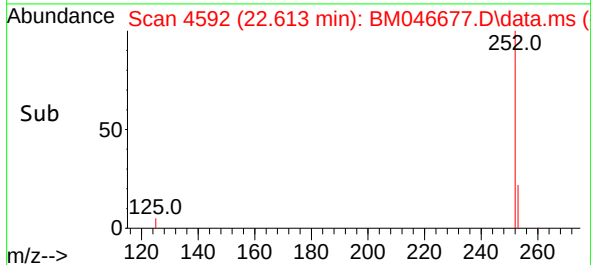
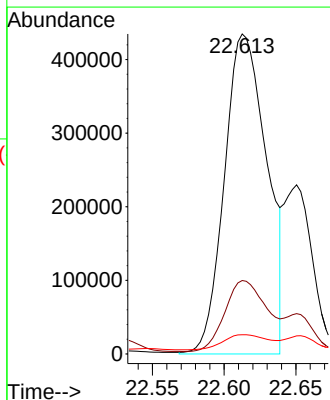
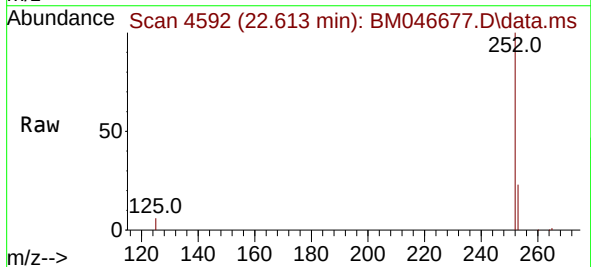
Manual Integrations  
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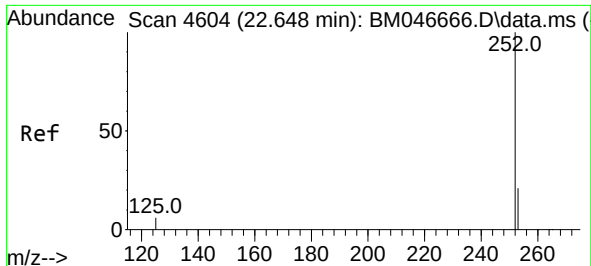
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#24  
Benzo(b)fluoranthene  
Concen: 22.191 ng/ul m  
RT: 22.613 min Scan# 4592  
Delta R.T. 0.003 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

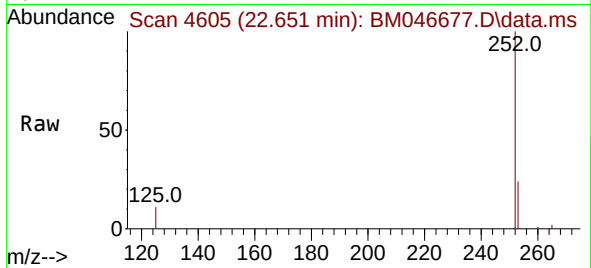
Tgt Ion:252 Resp: 894784  
Ion Ratio Lower Upper  
252 100  
253 23.0 0.0 56.2  
125 6.0 0.0 17.8





#25  
Benzo(k)fluoranthene  
Concen: 8.030 ng/ul m  
RT: 22.651 min Scan# 4605  
Delta R.T. -0.000 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

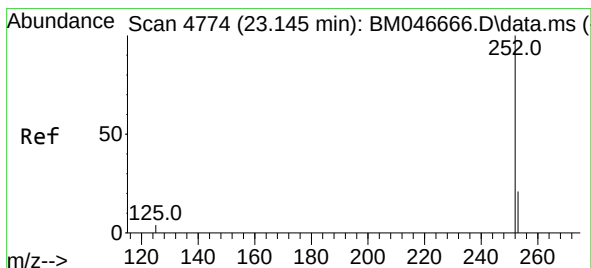
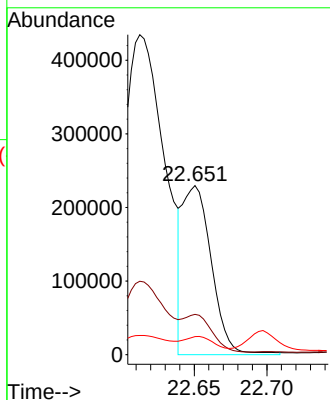
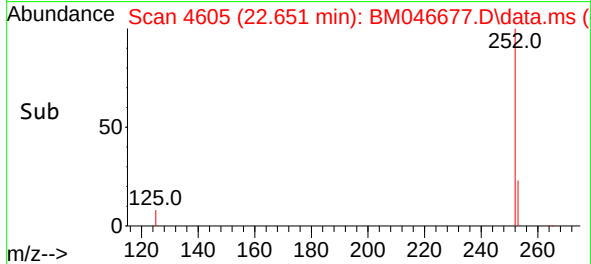
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



Tgt Ion:252 Resp: 317884  
Ion Ratio Lower Upper  
252 100  
253 23.8 22.4 33.6  
125 10.7 7.0 10.4

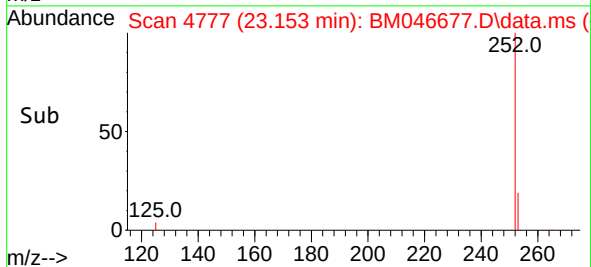
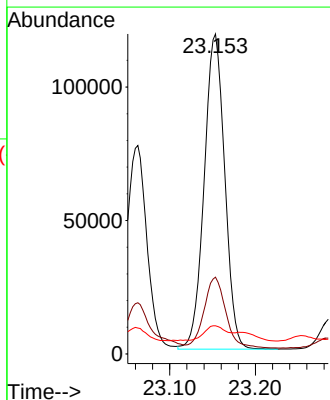
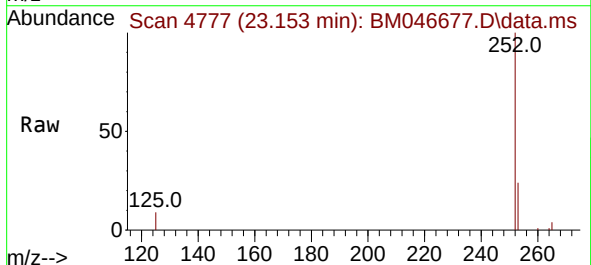
Manual Integrations  
APPROVED

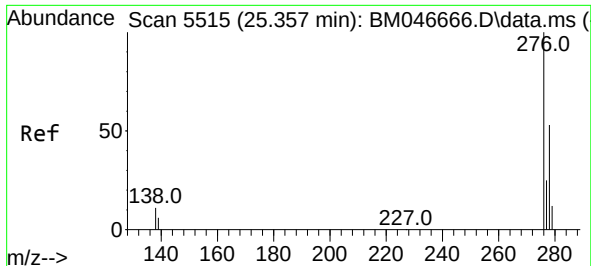
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



#26  
Benzo(a)pyrene  
Concen: 5.924 ng/ul  
RT: 23.153 min Scan# 4777  
Delta R.T. 0.003 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

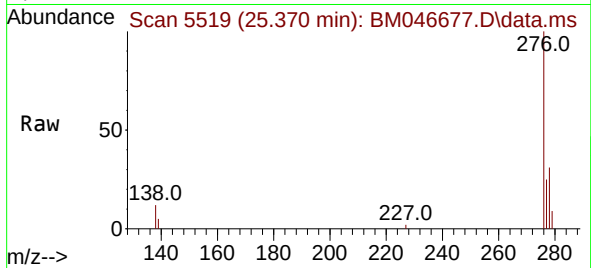
Tgt Ion:252 Resp: 196599  
Ion Ratio Lower Upper  
252 100  
253 24.0 24.0 36.0#  
125 8.8 8.2 12.2





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 5.135 ng/ul  
RT: 25.370 min Scan# 5515  
Delta R.T. 0.010 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

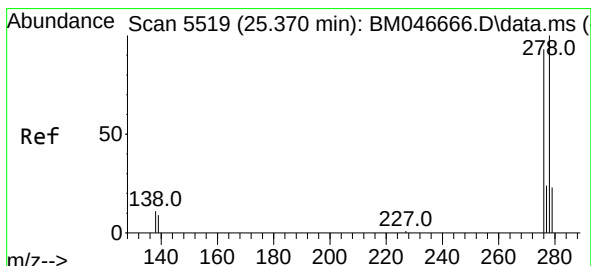
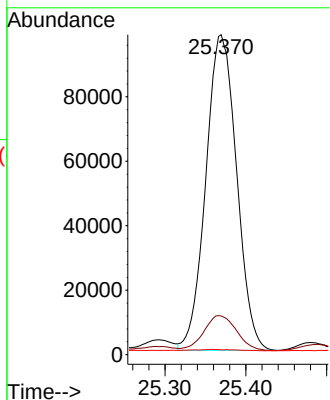
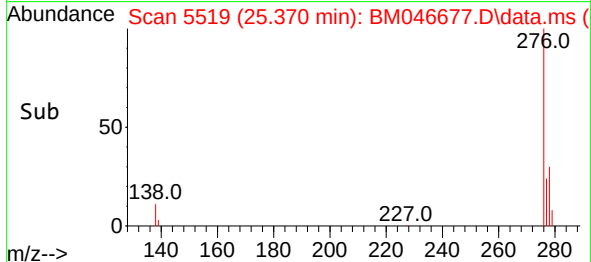
Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



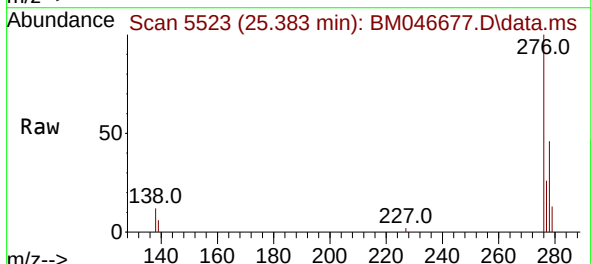
Tgt Ion:276 Resp: 259328  
Ion Ratio Lower Upper  
276 100  
138 11.8 0.0 0.0  
227 0.6 0.2 0.2

Manual Integrations  
APPROVED

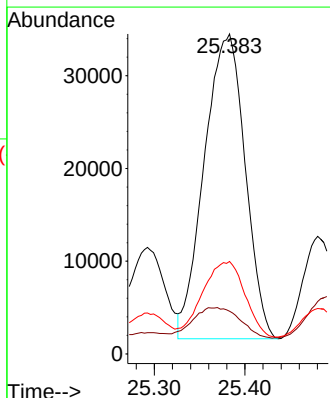
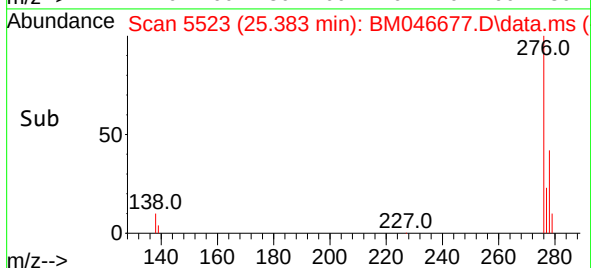
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024

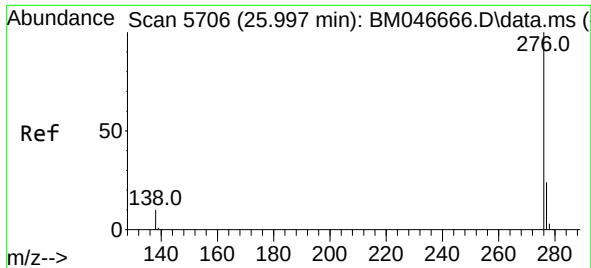


#28  
Dibenzo(a,h)anthracene  
Concen: 2.569 ng/ul  
RT: 25.383 min Scan# 5523  
Delta R.T. -0.000 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29



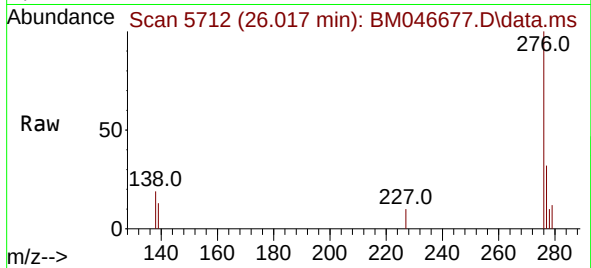
Tgt Ion:278 Resp: 102718  
Ion Ratio Lower Upper  
278 100  
139 13.3 9.1 13.7  
279 28.9 23.2 34.8





#29  
Benzo(g,h,i)perylene  
Concen: 0.915 ng/ul  
RT: 26.017 min Scan# 51  
Delta R.T. 0.013 min  
Lab File: BM046677.D  
Acq: 17 Jul 2024 19:29

Instrument :  
BNA\_M  
ClientSampleId :  
A4BY2



Tgt Ion:276 Resp: 3685  
Ion Ratio Lower Upper  
276 100  
138 18.9 10.2 15.4  
277 31.6 20.9 31.3

Manual Integrations  
APPROVED

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

