

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071924\  
 Data File : BM046730.D  
 Acq On : 19 Jul 2024 17:26  
 Operator : MA/JU  
 Sample : P3201-17  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4CJ3

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/20/2024  
 Supervised By :mohammad ahmed 07/20/2024

Quant Time: Jul 19 18:57:55 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 : Fri Jul 19 11:38:04 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.489  | 152  | 3402     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.248 | 136  | 9352     | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.131 | 164  | 5856     | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.887 | 188  | 11918    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.097 | 240  | 7792     | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.233 | 264  | 9780     | 0.400  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.109  | 96   | 6495     | 2.324  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.848 | 152  | 2649     | 0.176  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.926 | 212  | 5286     | 0.223  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.292 | 128  | 7768     | 0.327  | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.920 | 142  | 3173     | 0.190  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.145 | 142  | 2657     | 0.156  | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.848 | 152  | 20253    | 0.760  | ng/ul  | 98       |
| 11) Acenaphthene            | 14.195 | 153  | 12877    | 0.721  | ng/ul  | 96       |
| 12) Fluorene                | 15.190 | 166  | 16065    | 0.727  | ng/ul  | 96       |
| 14) Pentachlorophenol       | 16.545 | 266  | 289      | 0.048  | ng/ul  | 95       |
| 15) Phenanthrene            | 16.929 | 178  | 336286   | 9.888  | ng/ul  | 98       |
| 16) Anthracene              | 17.017 | 178  | 63013    | 1.899  | ng/ul  | 98       |
| 19) Fluoranthene            | 18.959 | 202  | 751301   | 23.474 | ng/ul  | 99       |
| 20) Pyrene                  | 19.321 | 202  | 490087   | 14.143 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.082 | 228  | 299250   | 8.681  | ng/ul  | 99       |
| 22) Chrysene                | 21.132 | 228  | 327243   | 9.811  | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.601 | 252  | 473627m  | 12.125 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.642 | 252  | 183614m  | 4.788  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.142 | 252  | 169506m  | 5.272  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.347 | 276  | 183311   | 3.747  | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.357 | 278  | 59013    | 1.524  | ng/ul  | 99       |
| 29) Benzo(g,h,i)perylene    | 25.991 | 276  | 26430    | 0.677  | ng/ul# | 93       |

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

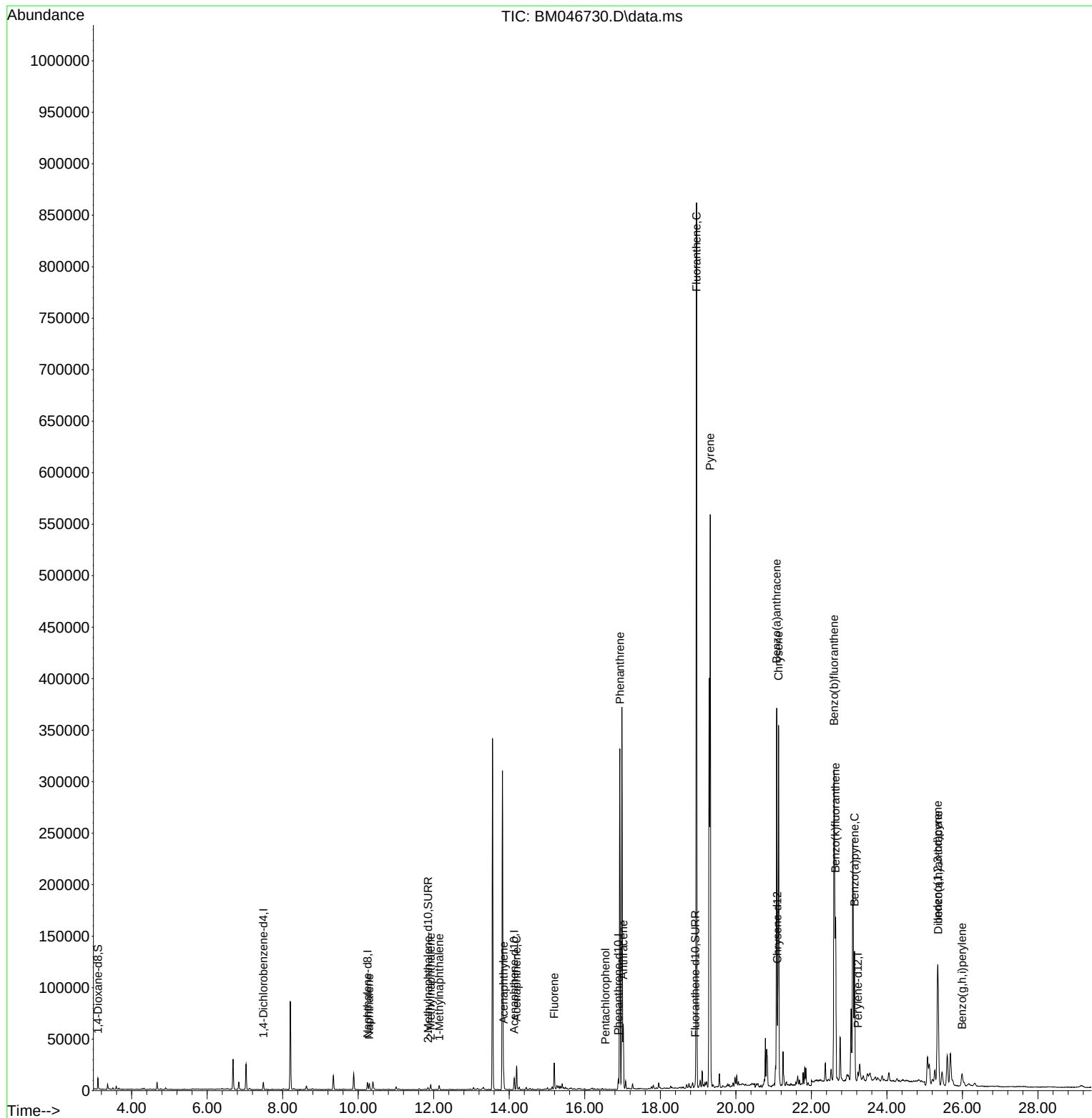
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071924\  
Data File : BM046730.D  
Acq On : 19 Jul 2024 17:26  
Operator : MA/JU  
Sample : P3201-17  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

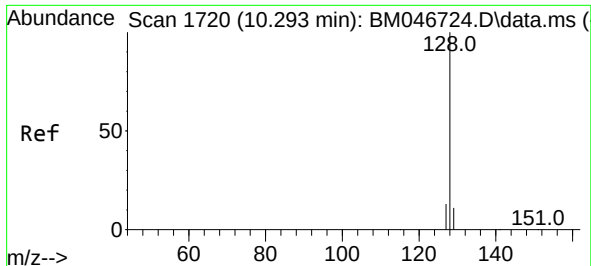
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3

Quant Time: Jul 19 18:57:55 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 : Fri Jul 19 11:38:04 2024  
Response via : Initial Calibration

Manual Integrations  
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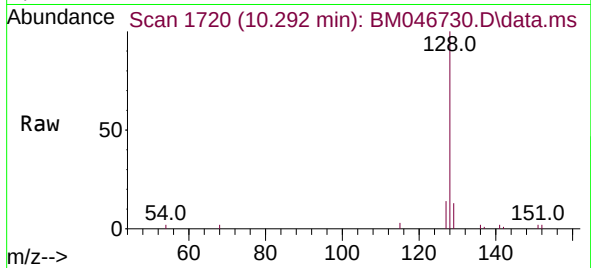
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024





#5  
Naphthalene  
Concen: 0.327 ng/ul  
RT: 10.292 min Scan# 1720  
Delta R.T. -0.006 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

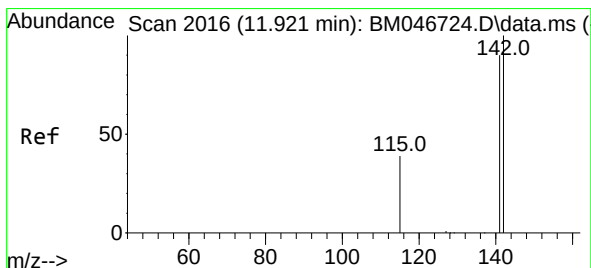
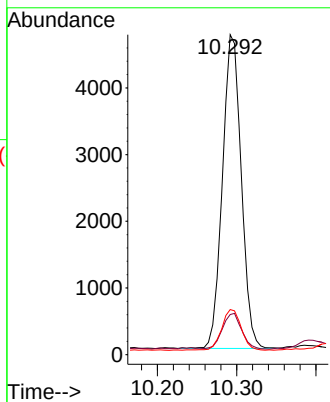
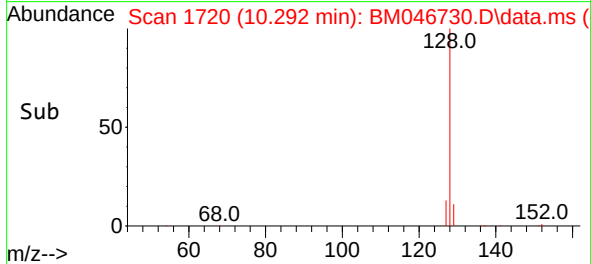
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



Tgt Ion:128 Resp: 7768  
Ion Ratio Lower Upper  
128 100  
129 12.6 10.3 15.5  
127 14.1 12.2 18.4

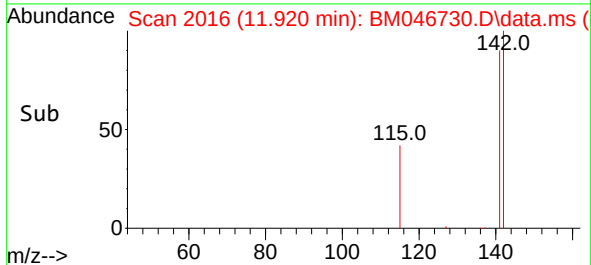
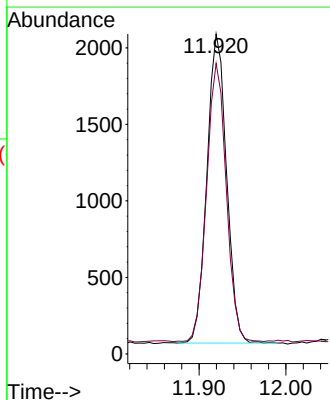
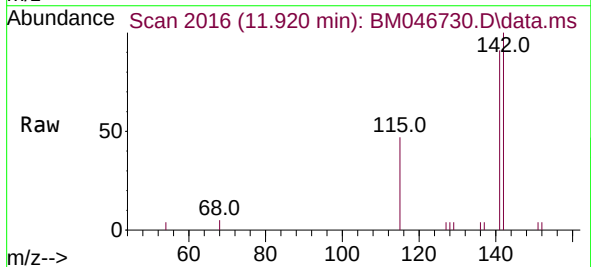
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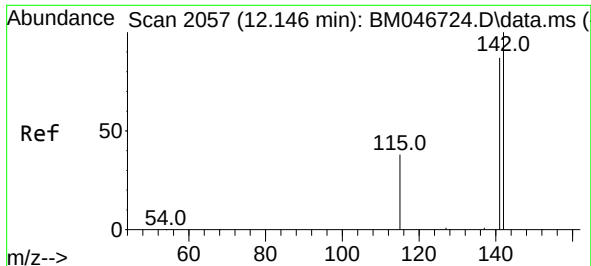
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024



#7  
2-Methylnaphthalene  
Concen: 0.190 ng/ul  
RT: 11.920 min Scan# 2016  
Delta R.T. -0.000 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

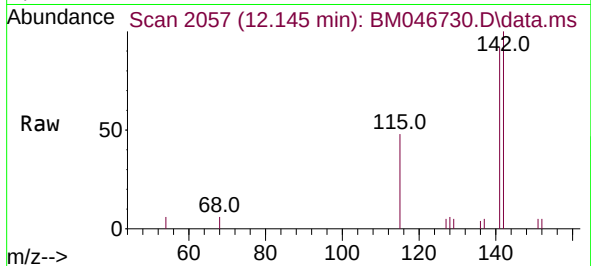
Tgt Ion:142 Resp: 3173  
Ion Ratio Lower Upper  
142 100  
141 90.1 70.3 105.5





#8  
1-Methylnaphthalene  
Concen: 0.156 ng/ul  
RT: 12.145 min Scan# 2057  
Delta R.T. -0.000 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

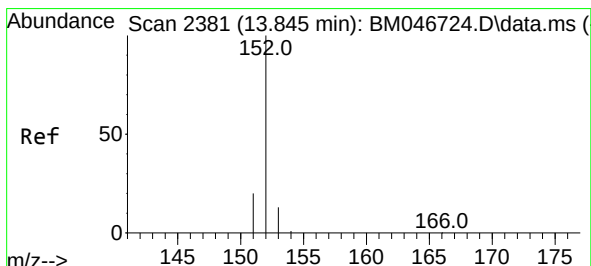
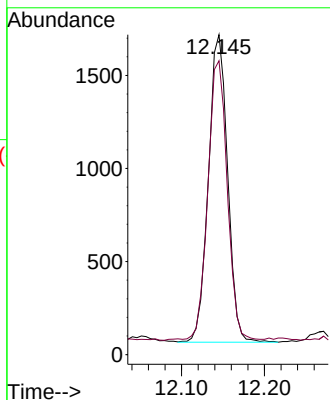
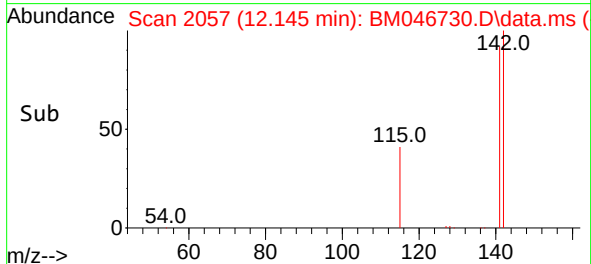
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



Tgt Ion:142 Resp: 265  
Ion Ratio Lower Upper  
142 100  
141 92.3 73.9 110.9

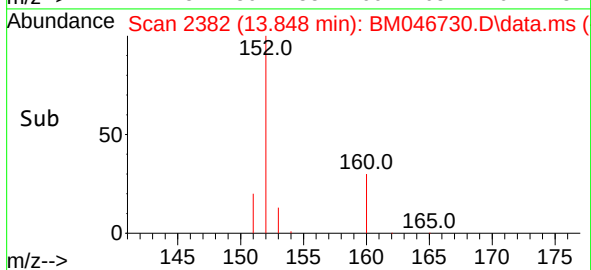
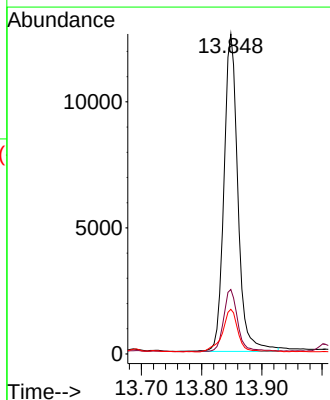
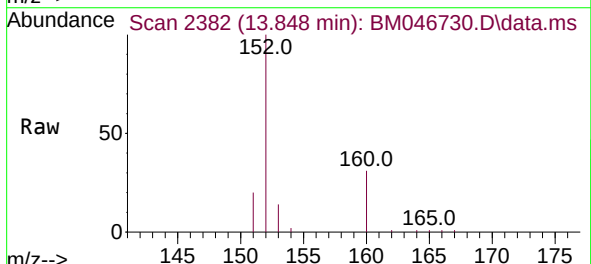
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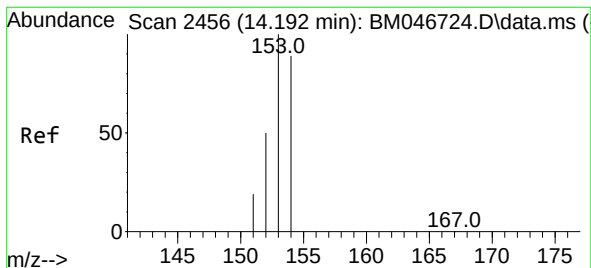
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024



#10  
Acenaphthylene  
Concen: 0.760 ng/ul  
RT: 13.848 min Scan# 2382  
Delta R.T. -0.000 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

Tgt Ion:152 Resp: 20253  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.4 24.6  
153 13.9 12.4 18.6





#11

Acenaphthene

Concen: 0.721 ng/ul

RT: 14.195 min Scan# 2456

Delta R.T. -0.000 min

Lab File: BM046730.D

Acq: 19 Jul 2024 17:26

Instrument :

BNA\_M

ClientSampleId :

A4CJ3

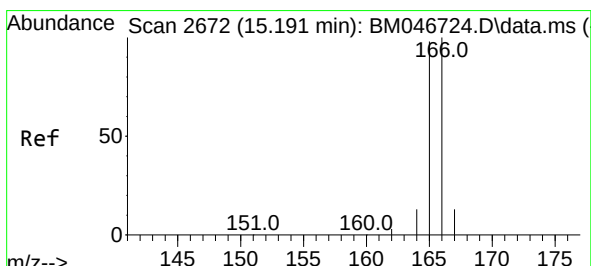
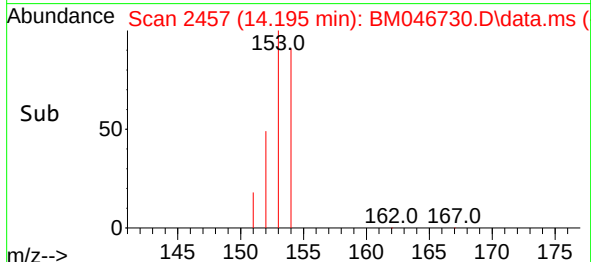
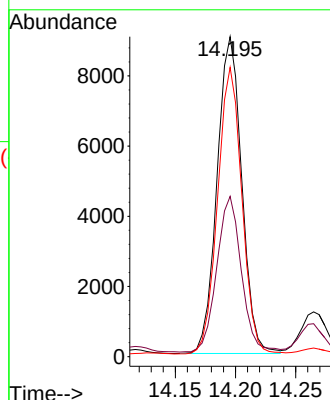
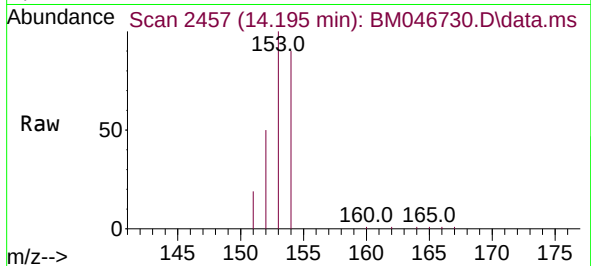
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1287  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.1  | 43.0  | 64.6  |
| 154       | 90.4  | 69.9  | 104.9 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/20/2024

Supervised By :mohammad ahmed 07/20/2024



#12

Fluorene

Concen: 0.727 ng/ul

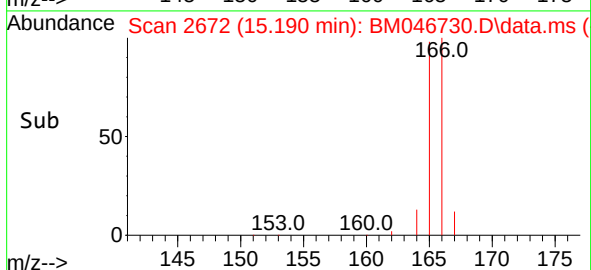
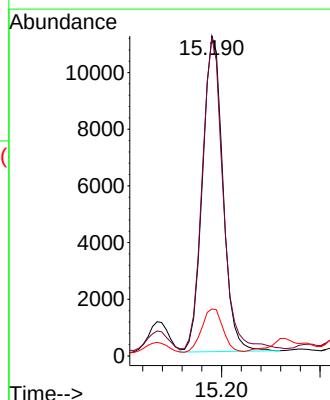
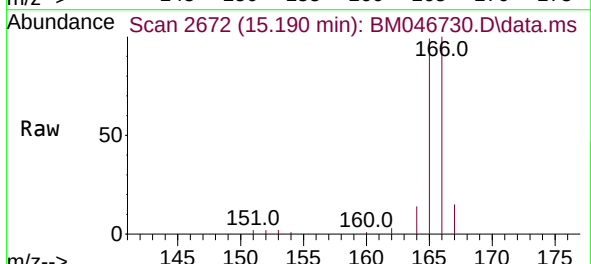
RT: 15.190 min Scan# 2672

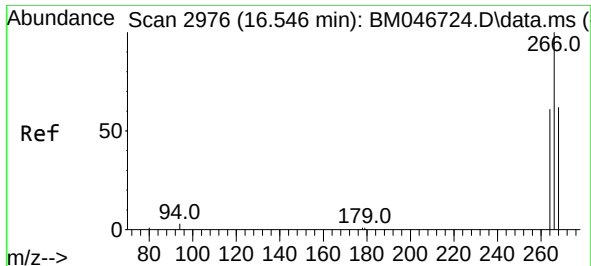
Delta R.T. -0.000 min

Lab File: BM046730.D

Acq: 19 Jul 2024 17:26

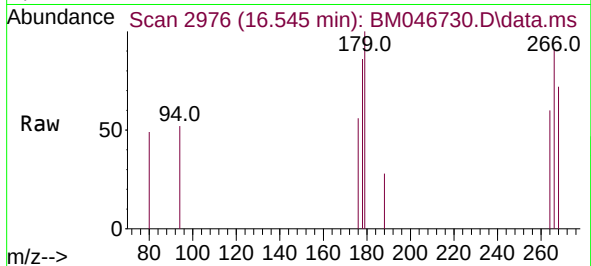
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 16065 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.3  | 76.1  | 114.1 |
| 167       | 14.7  | 12.5  | 18.7  |





#14  
 Pentachlorophenol  
 Concen: 0.048 ng/ul  
 RT: 16.545 min Scan# 2976  
 Delta R.T. -0.000 min  
 Lab File: BM046730.D  
 Acq: 19 Jul 2024 17:26

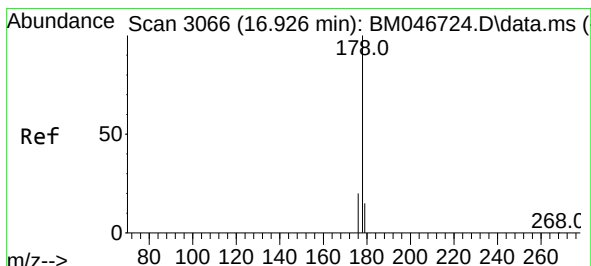
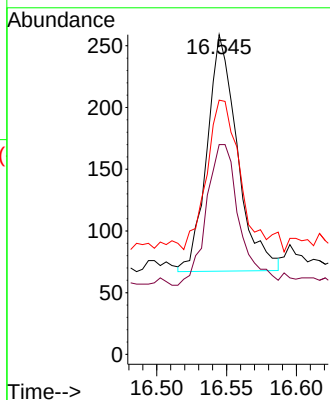
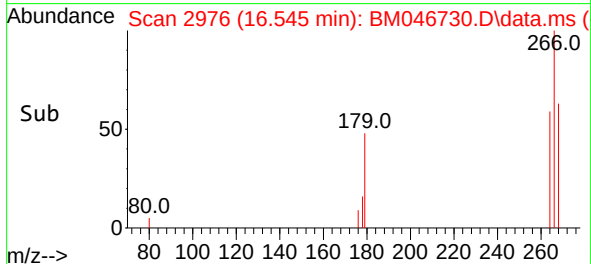
Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4CJ3



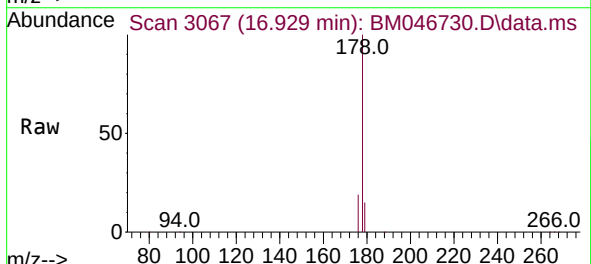
Tgt Ion:266 Resp: 289  
 Ion Ratio Lower Upper  
 266 100  
 264 64.7 50.1 75.1  
 268 71.6 52.5 78.7

Manual Integrations  
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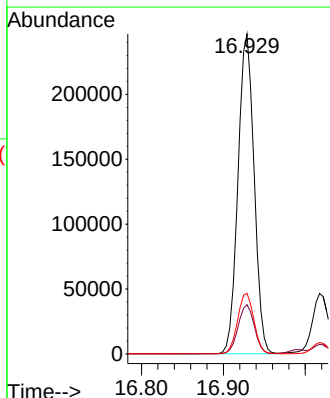
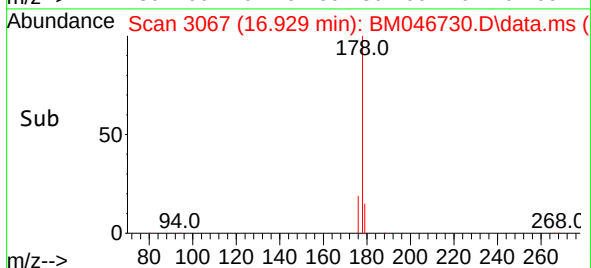
Reviewed By :Yogesh Patel 07/20/2024  
 Supervised By :mohammad ahmed 07/20/2024

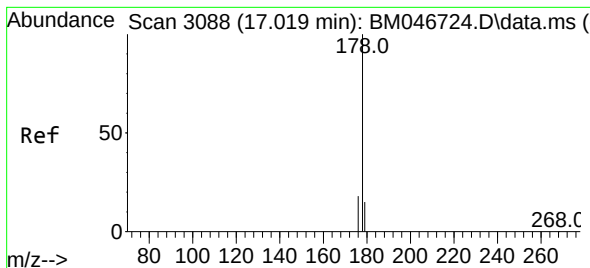


#15  
 Phenanthrene  
 Concen: 9.888 ng/ul  
 RT: 16.929 min Scan# 3067  
 Delta R.T. 0.004 min  
 Lab File: BM046730.D  
 Acq: 19 Jul 2024 17:26



Tgt Ion:178 Resp: 336286  
 Ion Ratio Lower Upper  
 178 100  
 179 15.4 13.1 19.7  
 176 18.9 16.0 24.0





#16

Anthracene

Concen: 1.899 ng/ul

RT: 17.017 min Scan# 3088

Delta R.T. -0.000 min

Lab File: BM046730.D

Acq: 19 Jul 2024 17:26

Instrument :

BNA\_M

ClientSampleId :

A4CJ3

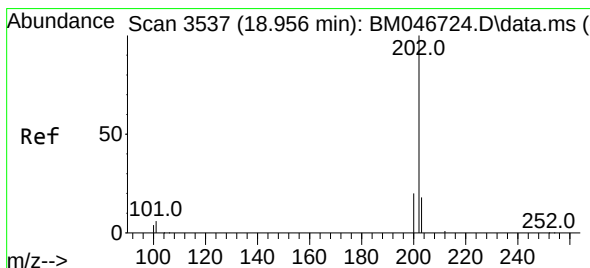
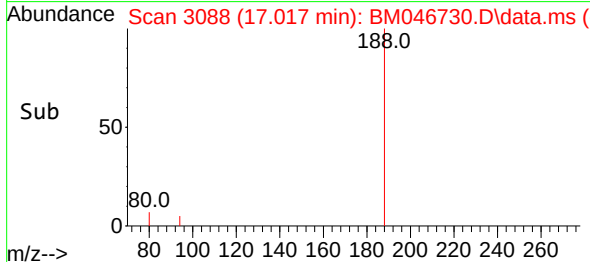
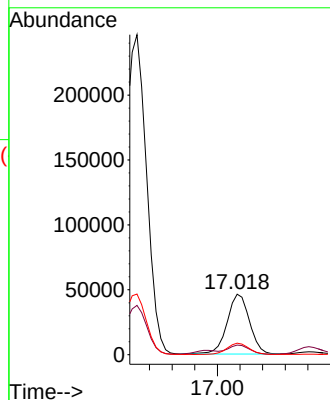
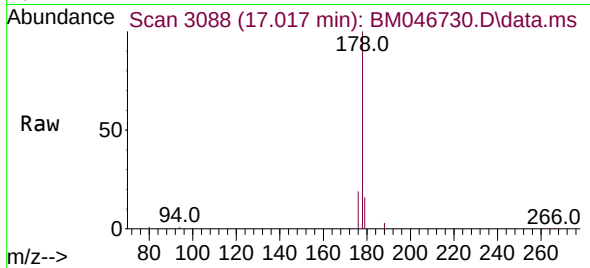
|             |             |
|-------------|-------------|
| Tgt Ion:178 | Resp: 63011 |
| Ion Ratio   | Lower Upper |
| 178 100     |             |
| 179 15.9    | 13.5 20.3   |
| 176 19.1    | 15.7 23.5   |

Manual Integrations

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Reviewed By :Yogesh Patel 07/20/2024

Supervised By :mohammad ahmed 07/20/2024



#19

Fluoranthene

Concen: 23.474 ng/ul

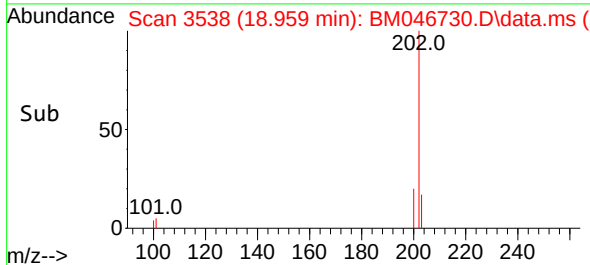
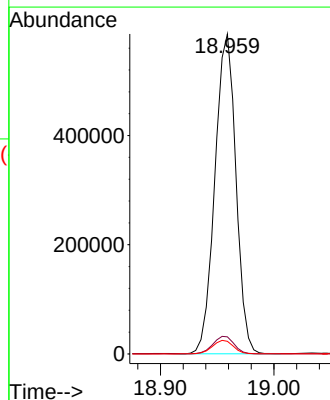
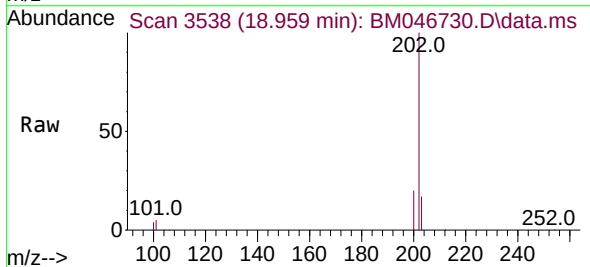
RT: 18.959 min Scan# 3538

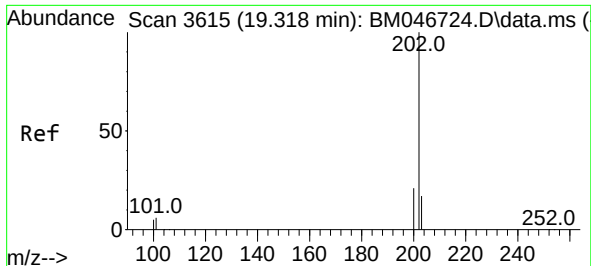
Delta R.T. 0.005 min

Lab File: BM046730.D

Acq: 19 Jul 2024 17:26

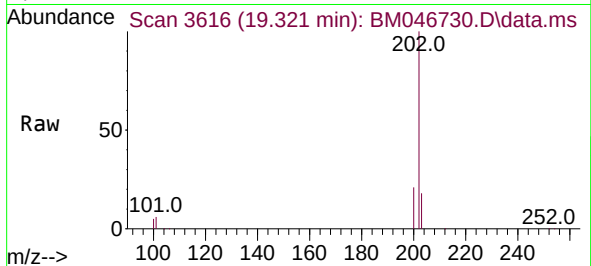
|             |              |
|-------------|--------------|
| Tgt Ion:202 | Resp: 751301 |
| Ion Ratio   | Lower Upper  |
| 202 100     |              |
| 101 5.4     | 4.6 6.8      |
| 100 4.0     | 3.0 4.6      |





#20  
Pyrene  
Concen: 14.143 ng/u1  
RT: 19.321 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

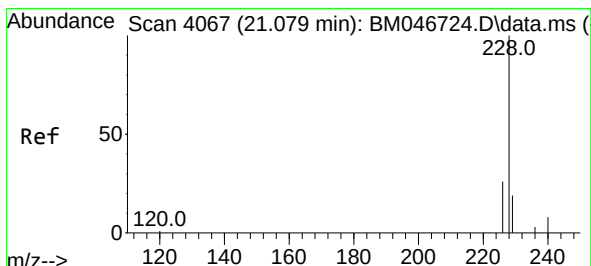
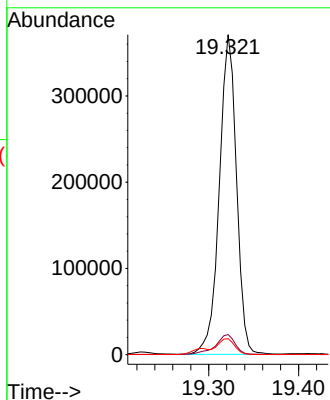
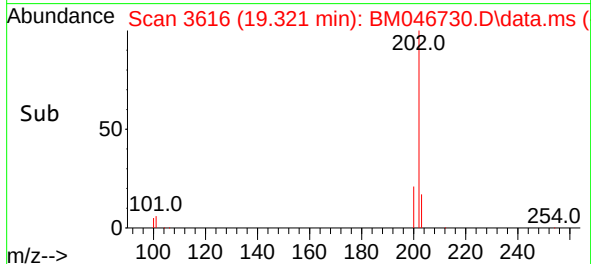
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



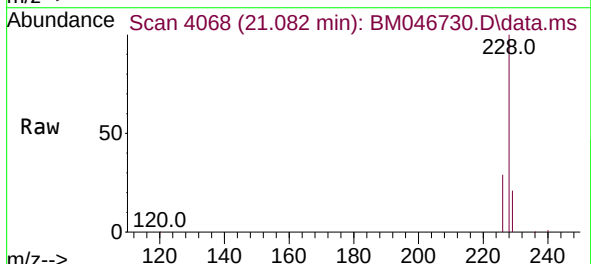
Tgt Ion:202 Resp: 49008  
Ion Ratio Lower Upper  
202 100  
101 6.3 5.1 7.7  
100 5.0 3.8 5.6

Manual Integrations  
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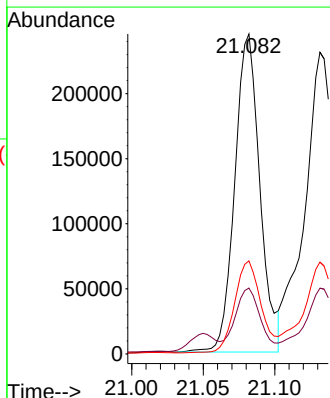
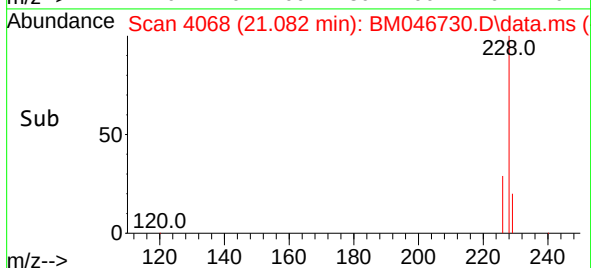
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024



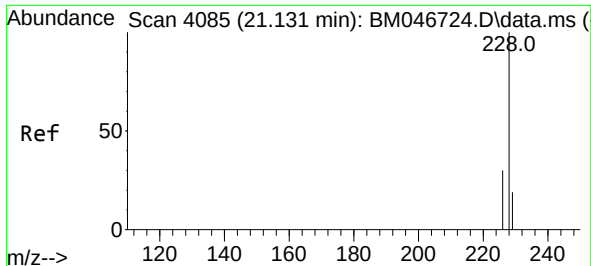
#21  
Benzo(a)anthracene  
Concen: 8.681 ng/u1  
RT: 21.082 min Scan# 4068  
Delta R.T. 0.003 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26



Tgt Ion:228 Resp: 299250  
Ion Ratio Lower Upper  
228 100  
229 20.6 16.5 24.7  
226 29.1 22.5 33.7

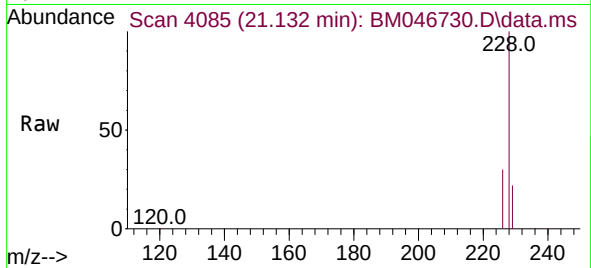






#22  
Chrysene  
Concen: 9.811 ng/ul  
RT: 21.132 min Scan# 4085  
Delta R.T. -0.000 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

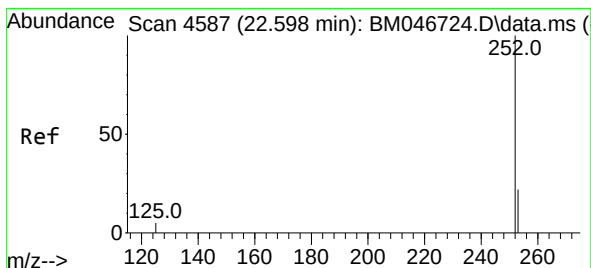
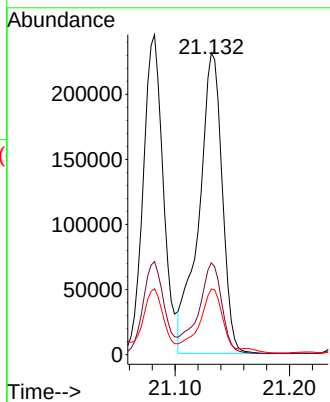
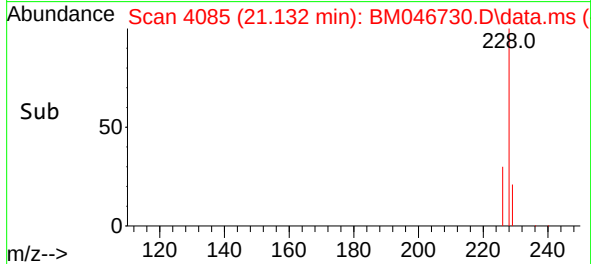
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



Tgt Ion:228 Resp: 32724  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.3 36.5  
229 21.8 16.4 24.6

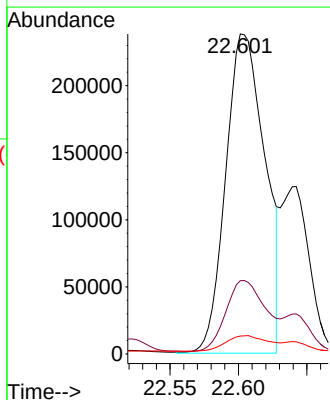
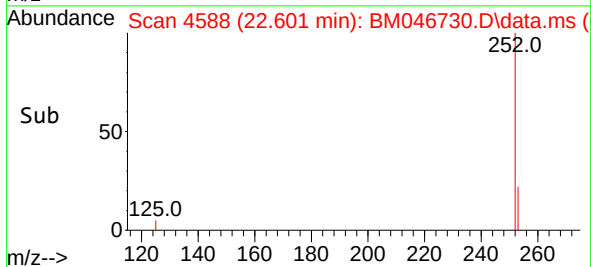
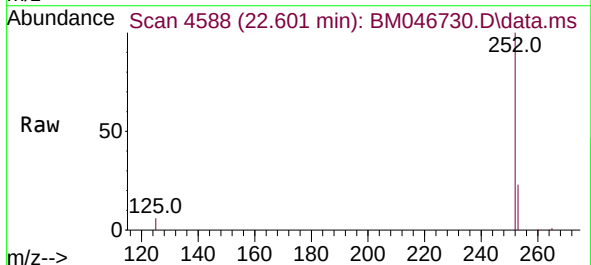
Manual Integrations  
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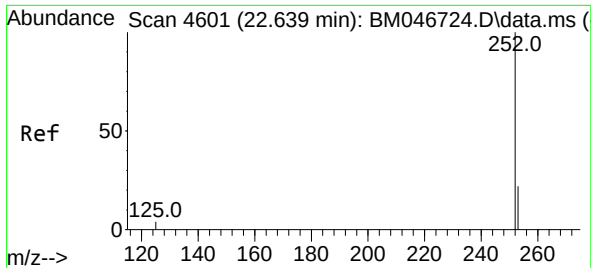
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024



#24  
Benzo(b)fluoranthene  
Concen: 12.125 ng/ul m  
RT: 22.601 min Scan# 4588  
Delta R.T. 0.003 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

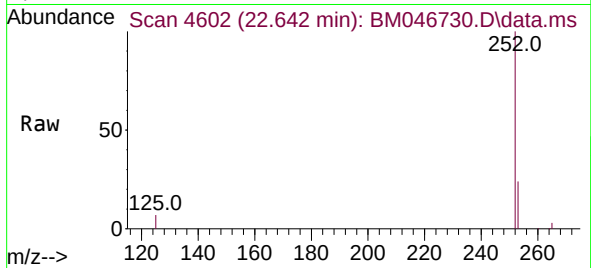
Tgt Ion:252 Resp: 473627  
Ion Ratio Lower Upper  
252 100  
253 22.9 0.0 56.2  
125 5.6 0.0 17.8





#25  
Benzo(k)fluoranthene  
Concen: 4.788 ng/ul m  
RT: 22.642 min Scan# 4601  
Delta R.T. 0.003 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

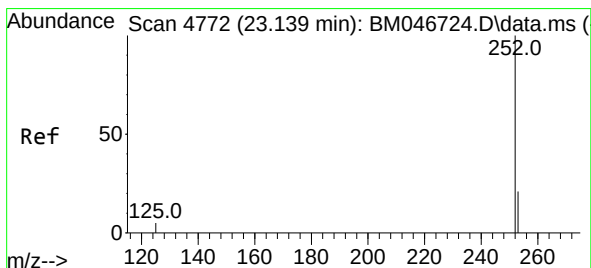
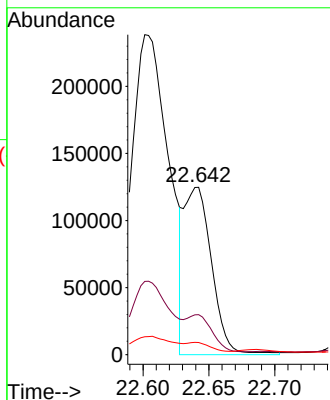
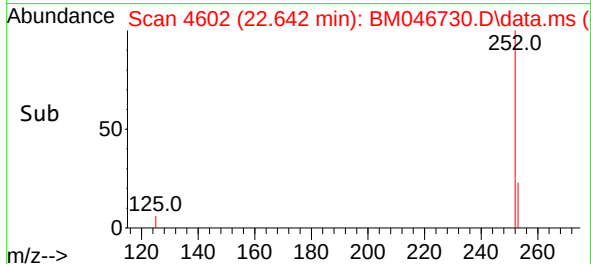
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



Tgt Ion:252 Resp: 183614  
Ion Ratio Lower Upper  
252 100  
253 23.9 22.4 33.6  
125 7.2 7.0 10.4

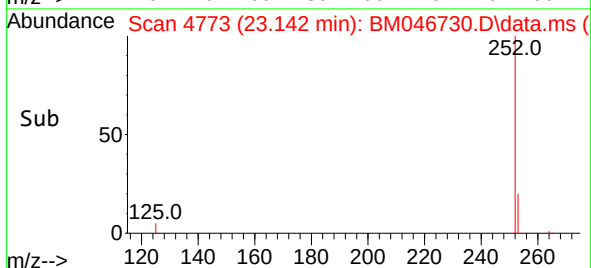
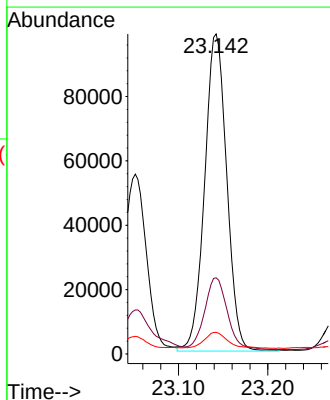
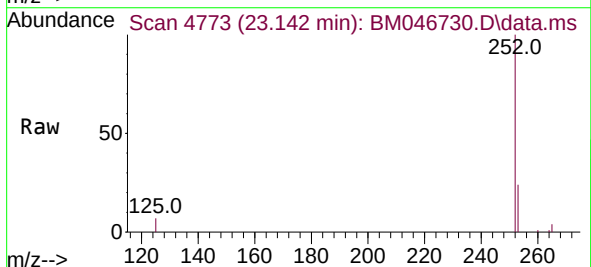
Manual Integrations  
APPROVED

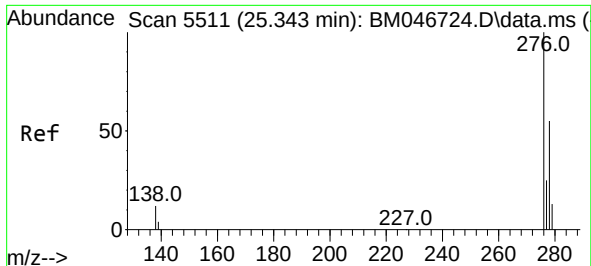
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024



#26  
Benzo(a)pyrene  
Concen: 5.272 ng/ul m  
RT: 23.142 min Scan# 4773  
Delta R.T. 0.003 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

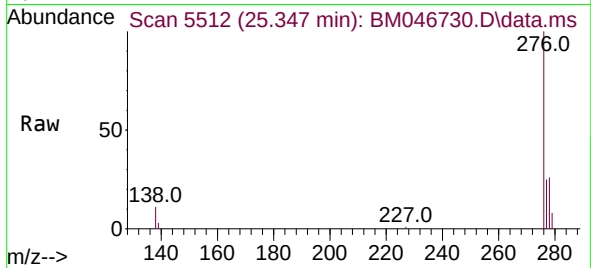
Tgt Ion:252 Resp: 169506  
Ion Ratio Lower Upper  
252 100  
253 23.8 24.0 36.0#  
125 6.8 8.2 12.2#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.747 ng/ul  
RT: 25.347 min Scan# 5511  
Delta R.T. -0.000 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

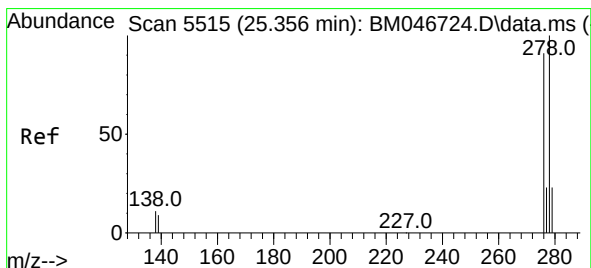
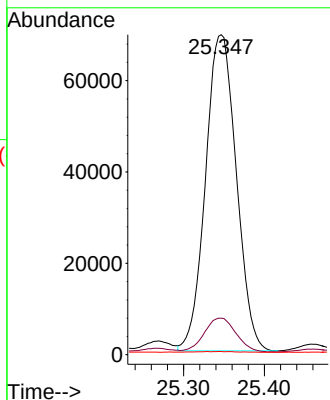
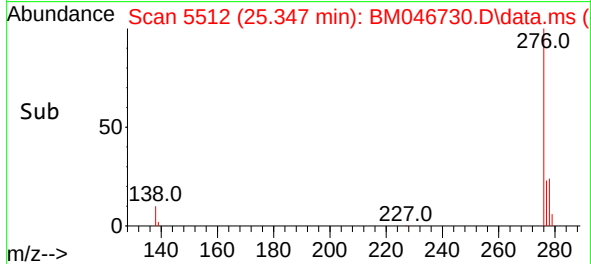
Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



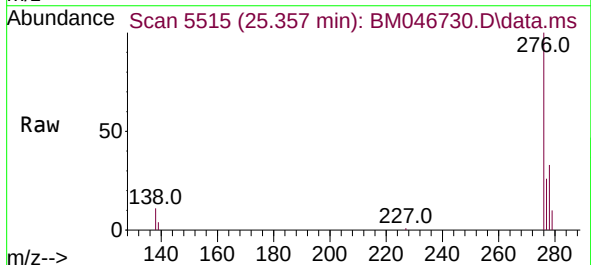
Tgt Ion:276 Resp: 18331  
Ion Ratio Lower Upper  
276 100  
138 11.0 0.0 0.0  
227 0.1 0.2 0.2

Manual Integrations  
APPROVED

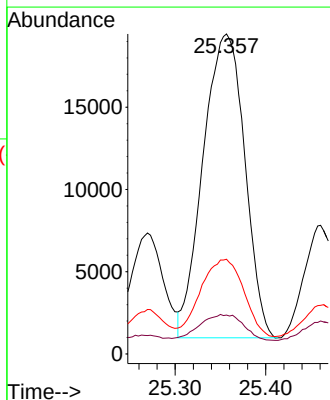
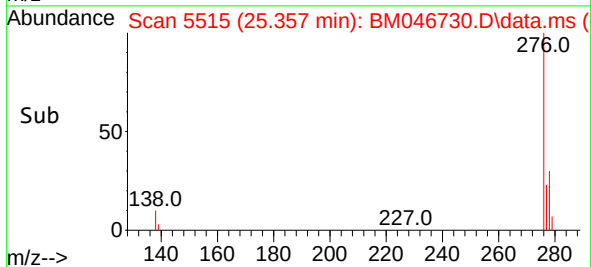
Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024

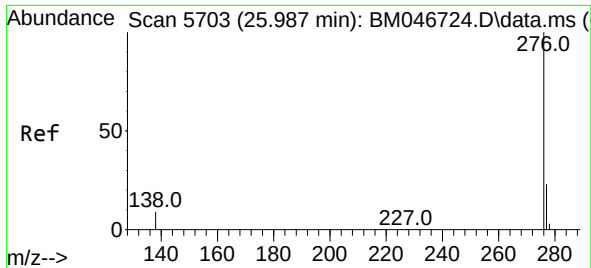


#28  
Dibenzo(a,h)anthracene  
Concen: 1.524 ng/ul  
RT: 25.357 min Scan# 5515  
Delta R.T. -0.003 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26



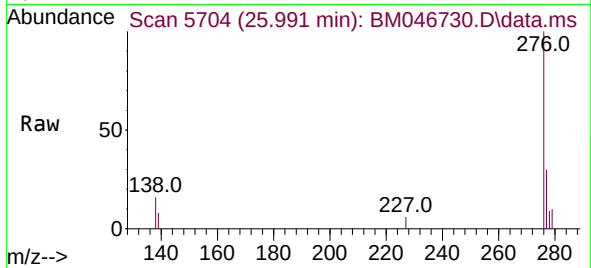
Tgt Ion:278 Resp: 59013  
Ion Ratio Lower Upper  
278 100  
139 12.2 9.1 13.7  
279 29.6 23.2 34.8





#29  
Benzo(g,h,i)perylene  
Concen: 0.677 ng/ul  
RT: 25.991 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BM046730.D  
Acq: 19 Jul 2024 17:26

Instrument :  
BNA\_M  
ClientSampleId :  
A4CJ3



Tgt Ion: 276 Resp: 26430  
Ion Ratio Lower Upper  
276 100  
138 16.1 10.2 15.4  
277 29.6 20.9 31.3

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/20/2024  
Supervised By :mohammad ahmed 07/20/2024

