

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061324\  
 Data File : BM046008.D  
 Acq On : 12 Jun 2024 22:36  
 Operator : MA/JU  
 Sample : P2659-11  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BHC32

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/13/2024  
 Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 13 04:35:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 11 16:01:34 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.434  | 152  | 135129   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.198 | 136  | 579857   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.080 | 164  | 358014   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.821 | 188  | 748518   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.039 | 240  | 570996   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.739 | 264  | 553630   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.040  | 96   | 15074    | 4.325  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.463  | 84   | 55860    | 6.225  | ng/u1  | 0.01     |
| 7) Phenol-d5                  | 6.687  | 99   | 369098   | 32.153 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.799  | 67   | 267094   | 32.402 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 6.998  | 132  | 299854   | 34.969 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.204  | 113  | 257271   | 29.664 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.598  | 128  | 156083   | 34.427 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.310  | 143  | 165750   | 36.123 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.863  | 165  | 292505   | 33.995 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.387 | 131  | 201752   | 16.942 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.527 | 166  | 871524   | 35.163 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.769 | 160  | 1015836  | 35.295 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.380 | 143  | 120641   | 22.554 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.080 | 176  | 745317   | 35.249 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.222 | 200  | 81256    | 21.258 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 16.921 | 188  | 1146298  | 35.227 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.221 | 212  | 1151572  | 32.430 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.556 | 264  | 648824   | 25.075 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 16) Acetophenone              | 8.287  | 105  | 17467    | 1.208  | ng/u1  | 91       |
| 30) Naphthalene               | 10.251 | 128  | 38285    | 1.238  | ng/u1  | 98       |
| 37) 1-Methylnaphthalene       | 12.098 | 142  | 23866    | 1.166  | ng/u1  | 95       |
| 50) Acenaphthylene            | 13.798 | 152  | 209898   | 6.301  | ng/u1  | 99       |
| 52) Acenaphthene              | 14.145 | 153  | 28565    | 1.285  | ng/u1  | 95       |
| 61) Fluorene                  | 15.133 | 166  | 65066    | 2.694  | ng/u1  | 99       |
| 72) Phenanthrene              | 16.868 | 178  | 1613933  | 40.921 | ng/u1  | 99       |
| 74) Anthracene                | 16.957 | 178  | 262882   | 6.673  | ng/u1  | 98       |
| 77) Carbazole                 | 17.245 | 167  | 108380   | 3.224  | ng/u1  | 99       |
| 80) Fluoranthene              | 18.892 | 202  | 3086176  | 71.691 | ng/u1  | 100      |
| 82) Pyrene                    | 19.257 | 202  | 2385764  | 53.941 | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.021 | 228  | 1185432  | 30.067 | ng/u1  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 20.968 | 149  | 33721    | 1.259  | ng/u1  | 95       |
| 87) Chrysene                  | 21.074 | 228  | 1204947  | 33.037 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 22.897 | 252  | 1327825  | 39.027 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 22.945 | 252  | 455596m  | 13.710 | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.609 | 252  | 567469   | 18.981 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.715 | 276  | 480465   | 14.716 | ng/u1  | 97       |
| 95) Dibenzo(a,h)anthracene    | 26.750 | 278  | 161329   | 6.247  | ng/u1  | 96       |
| 96) Benzo(g,h,i)perylene      | 27.638 | 276  | 69078m   | 2.402  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

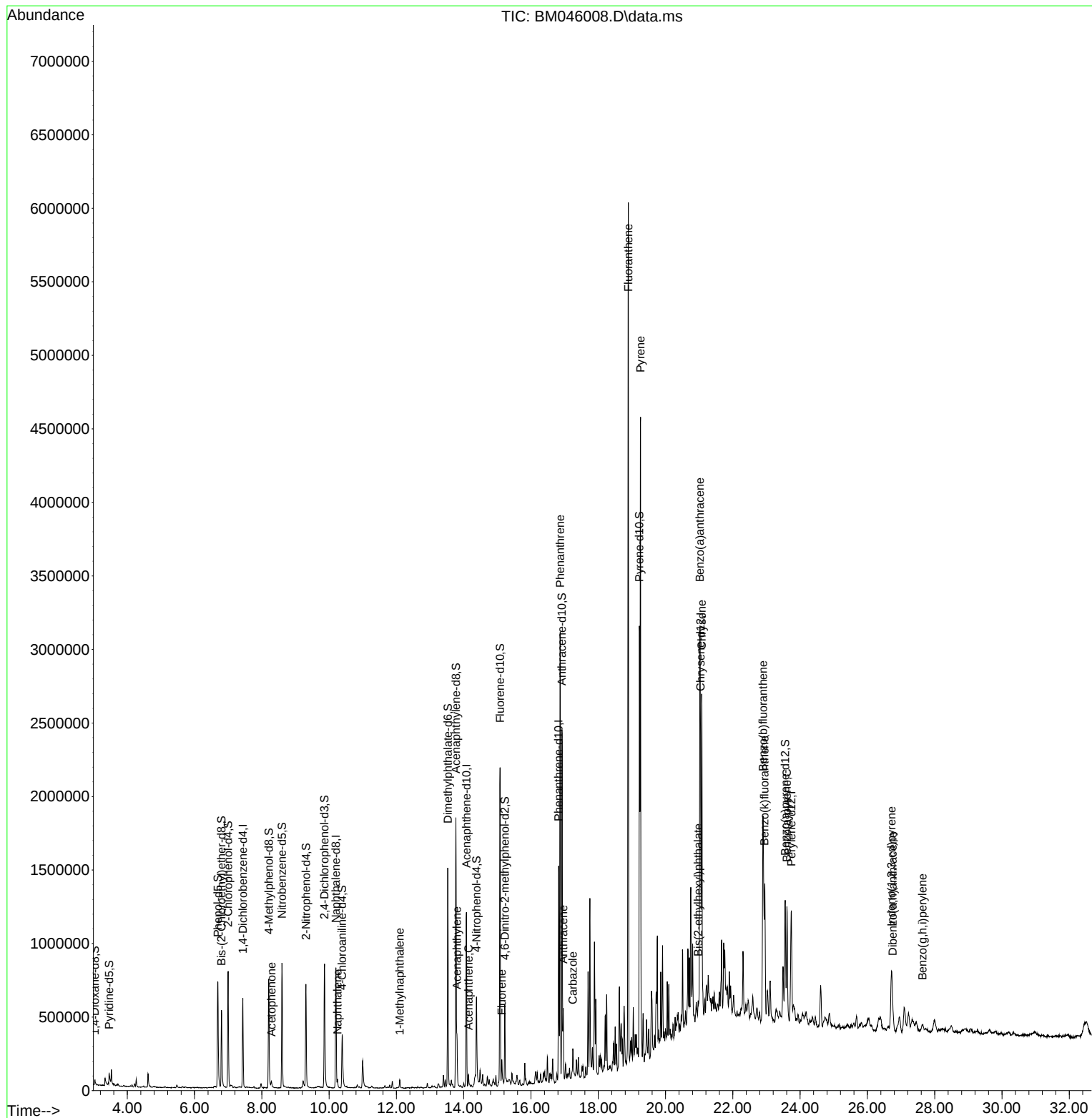
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061324\  
Data File : BM046008.D  
Acq On : 12 Jun 2024 22:36  
Operator : MA/JU  
Sample : P2659-11  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

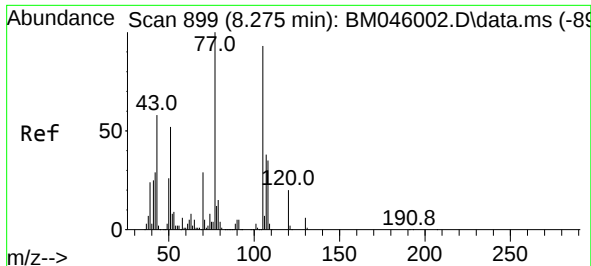
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 13 04:35:28 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 11 16:01:34 2024  
Response via : Initial Calibration





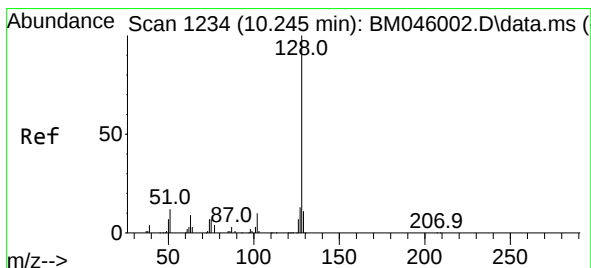
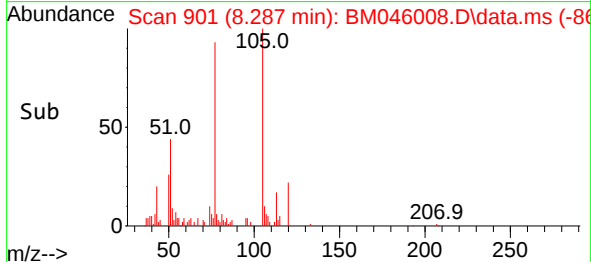
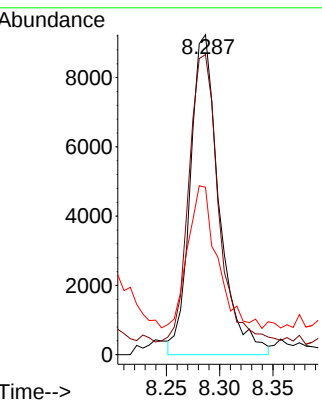
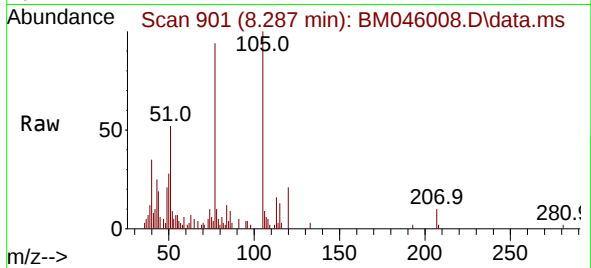
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Acetophenone  
Concen: 1.208 ng/ul  
RT: 8.287 min Scan# 901  
Delta R.T. 0.012 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

Instrument :  
BNA\_M  
ClientSampleId :  
BHC32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 77      | 93.8  | 84.7  | 127.1 |
| 51      | 52.3  | 39.4  | 59.0  |

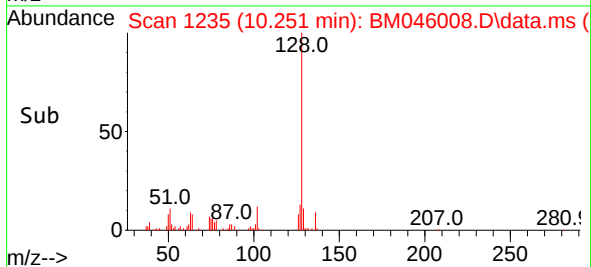
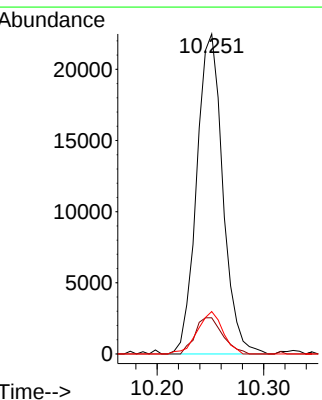
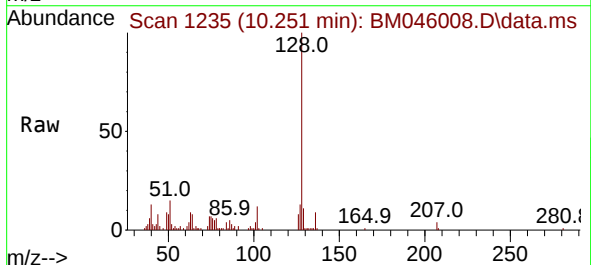
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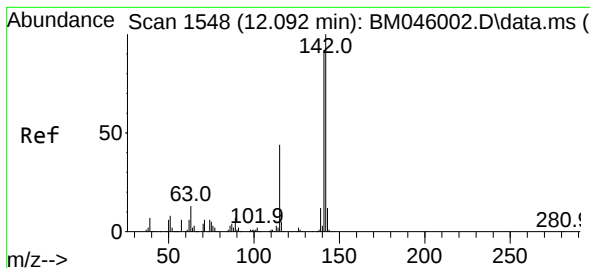
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#30  
Naphthalene  
Concen: 1.238 ng/ul  
RT: 10.251 min Scan# 1235  
Delta R.T. 0.000 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.3  | 8.3   | 12.5  |
| 127     | 13.2  | 10.3  | 15.5  |





#37

1-Methylnaphthalene

Concen: 1.166 ng/ul

RT: 12.098 min Scan# 11

Delta R.T. 0.000 min

Lab File: BM046008.D

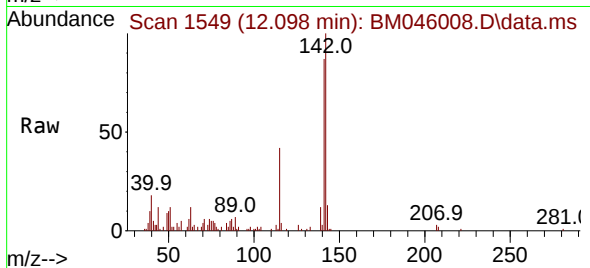
Acq: 12 Jun 2024 22:36

Instrument :

BNA\_M

ClientSampleId :

BHC32



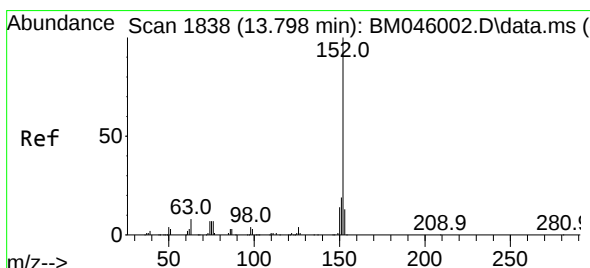
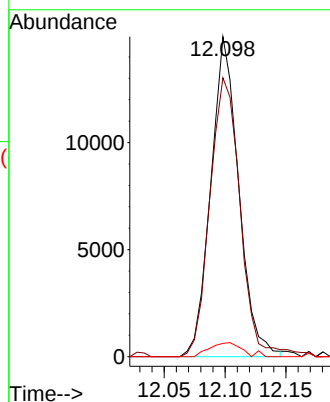
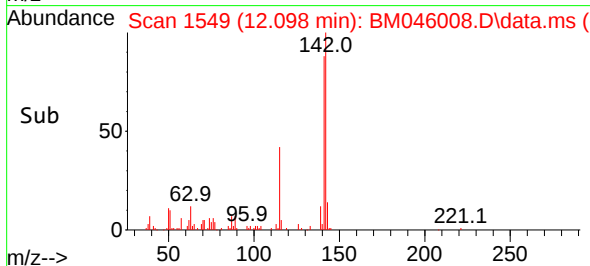
Tgt Ion:142 Resp: 23860

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 87.1  | 73.5  | 110.3 |
| 116 | 4.2   | 3.3   | 4.9   |

Manual Integrations

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Supervised By :mohammad ahmed 06/15/2024



#50

Acenaphthylene

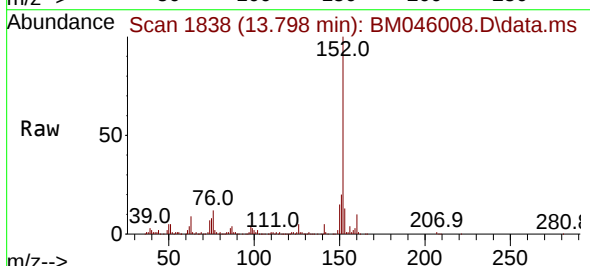
Concen: 6.301 ng/ul

RT: 13.798 min Scan# 1838

Delta R.T. 0.000 min

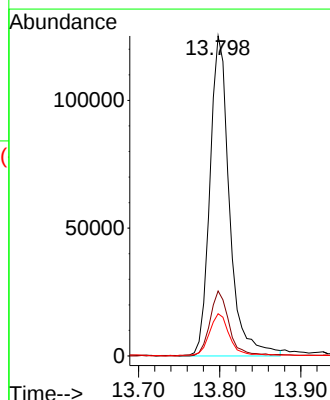
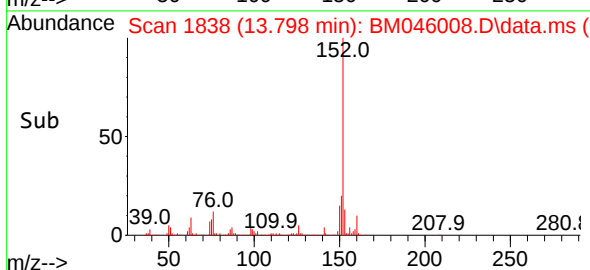
Lab File: BM046008.D

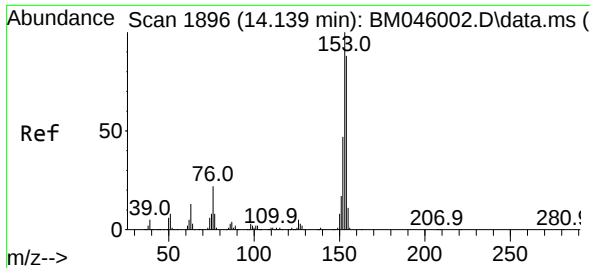
Acq: 12 Jun 2024 22:36



Tgt Ion:152 Resp: 209898

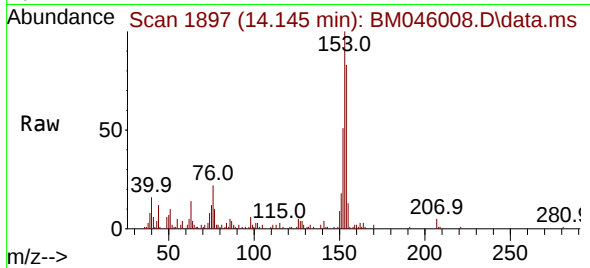
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 20.3  | 15.6  | 23.4  |
| 153 | 13.2  | 10.4  | 15.6  |





#52  
Acenaphthene  
Concen: 1.285 ng/ul  
RT: 14.145 min Scan# 1897  
Delta R.T. 0.000 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

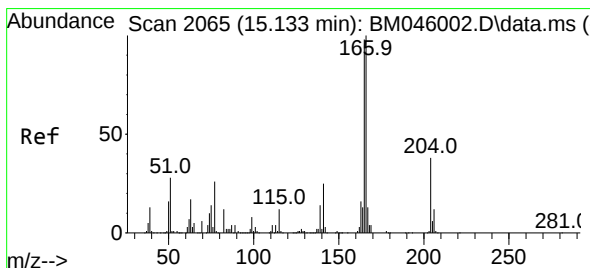
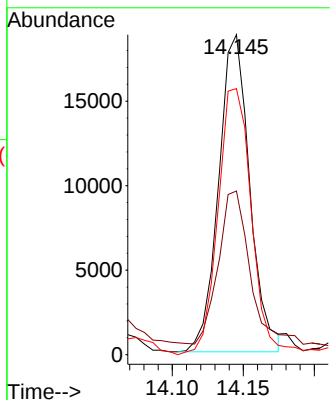
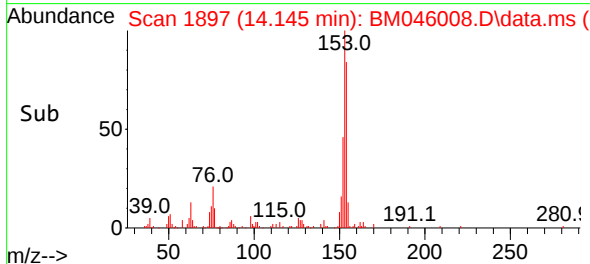
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32



Tgt Ion:153 Resp: 2856  
Ion Ratio Lower Upper  
153 100  
152 51.1 38.6 58.0  
154 83.1 70.7 106.1

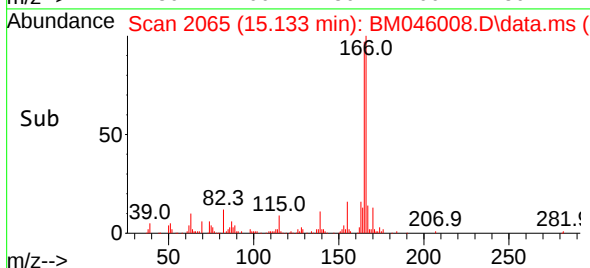
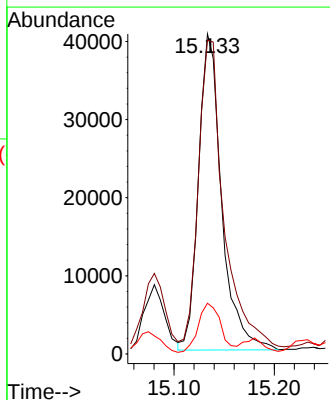
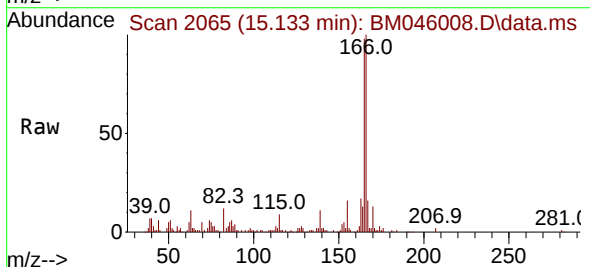
Manual Integrations  
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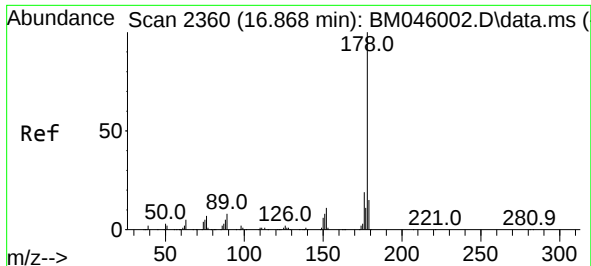
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#61  
Fluorene  
Concen: 2.694 ng/ul  
RT: 15.133 min Scan# 2065  
Delta R.T. 0.000 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

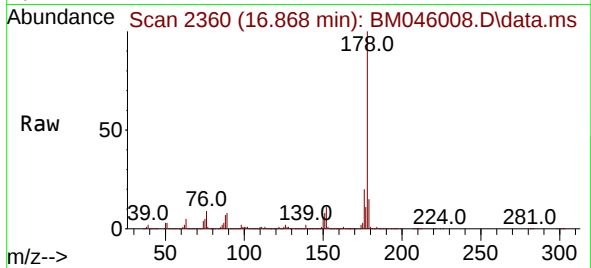
Tgt Ion:166 Resp: 65066  
Ion Ratio Lower Upper  
166 100  
165 98.1 78.1 117.1  
167 15.9 10.6 16.0





#72  
Phenanthrene  
Concen: 40.921 ng/ul  
RT: 16.868 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

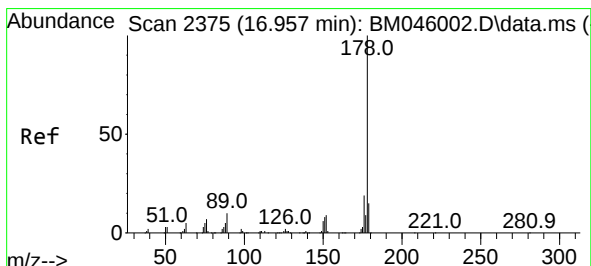
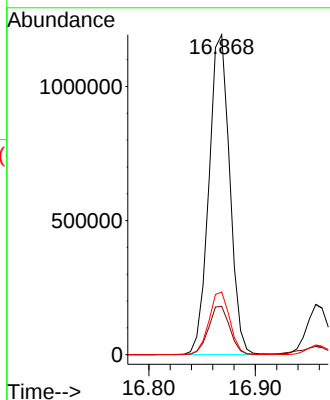
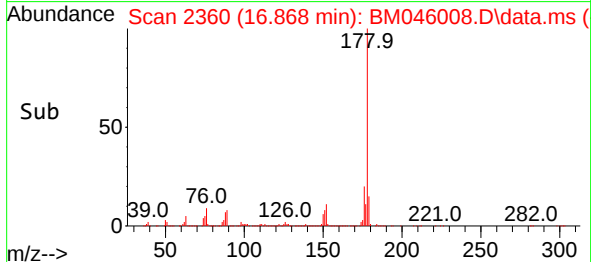
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32



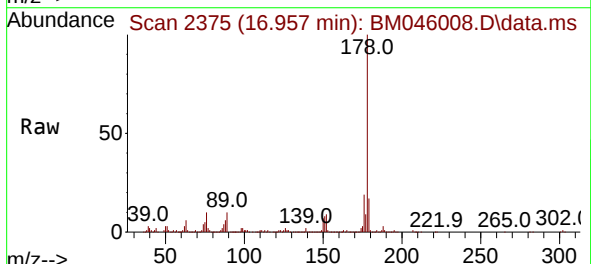
Tgt Ion:178 Resp: 161393  
Ion Ratio Lower Upper  
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176 19.6 15.3 22.9

Manual Integrations  
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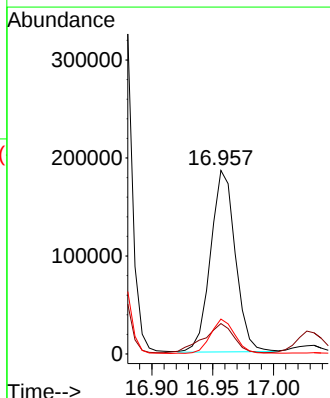
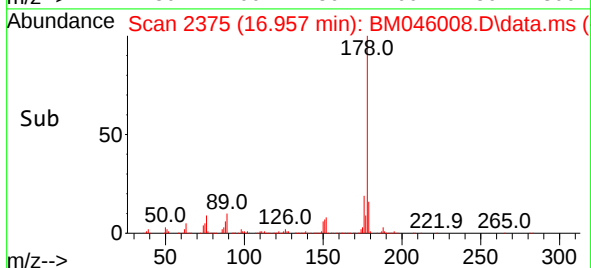
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

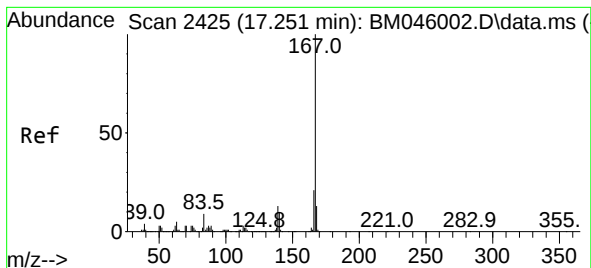


#74  
Anthracene  
Concen: 6.673 ng/ul  
RT: 16.957 min Scan# 2375  
Delta R.T. -0.006 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36



Tgt Ion:178 Resp: 262882  
Ion Ratio Lower Upper  
178 100  
179 16.6 12.0 18.0  
176 19.0 15.0 22.6





#77

Carbazole

Concen: 3.224 ng/ul

RT: 17.245 min Scan# 2425

Delta R.T. -0.012 min

Lab File: BM046008.D

Acq: 12 Jun 2024 22:36

Instrument :

BNA\_M

ClientSampleId :

BHC32

Tgt Ion:167 Resp: 108380

Ion Ratio Lower Upper

167 100

166 21.2 16.6 24.8

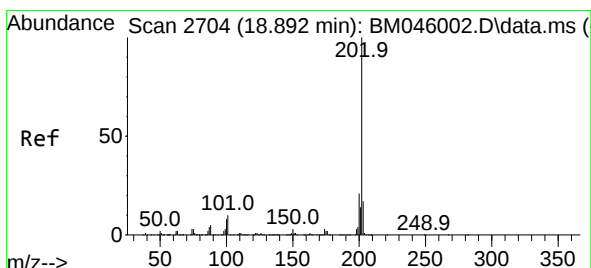
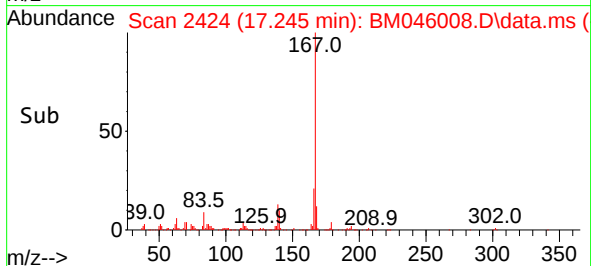
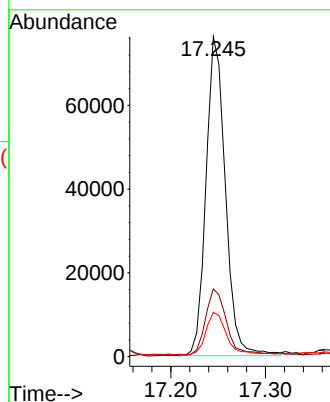
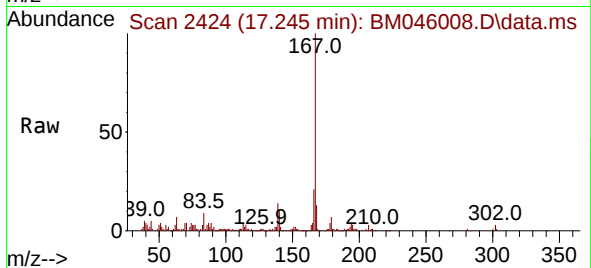
139 13.9 10.6 16.0

Manual Integrations

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Supervised By :mohammad ahmed 06/15/2024



#80

Fluoranthene

Concen: 71.691 ng/ul

RT: 18.892 min Scan# 2704

Delta R.T. 0.000 min

Lab File: BM046008.D

Acq: 12 Jun 2024 22:36

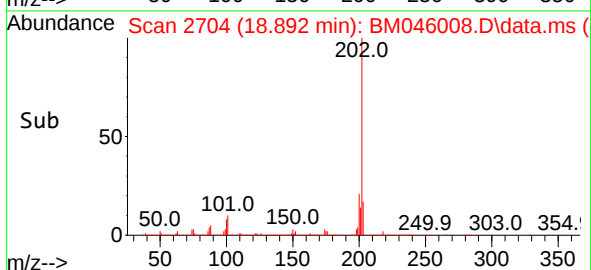
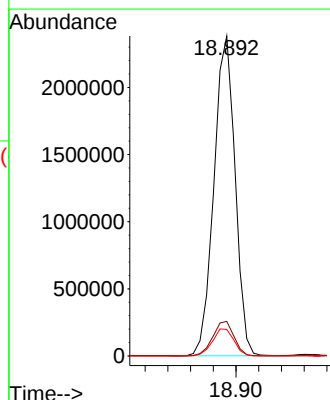
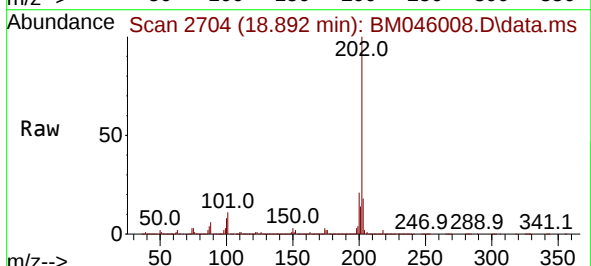
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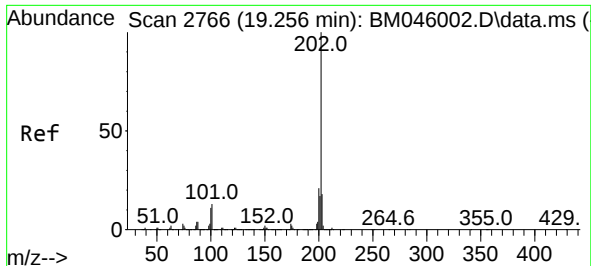
Ion Ratio Lower Upper

202 100

101 10.8 8.9 13.3

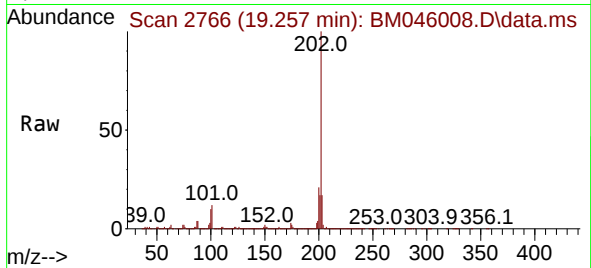
100 8.3 6.6 10.0





#82  
Pyrene  
Concen: 53.941 ng/ul  
RT: 19.257 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

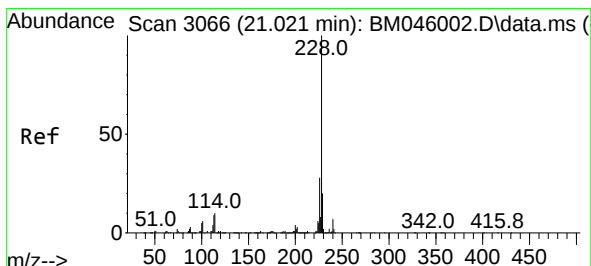
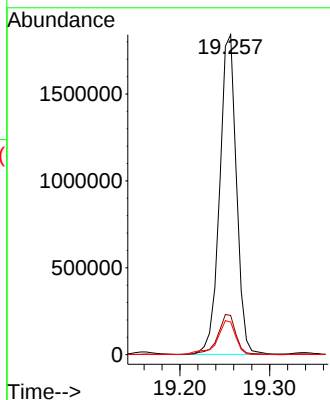
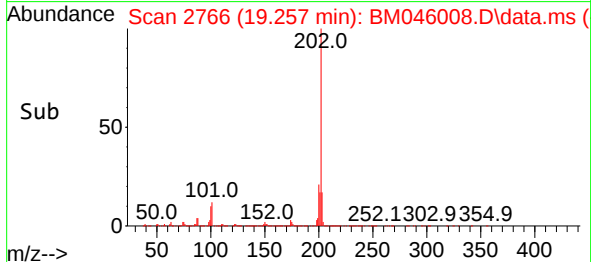
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32



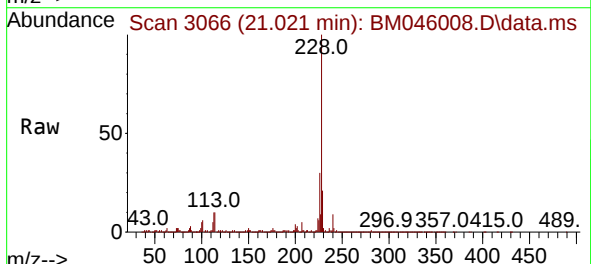
Tgt Ion:202 Resp: 2385764  
Ion Ratio Lower Upper  
202 100  
101 12.2 10.5 15.7  
100 10.2 8.6 12.8

Manual Integrations  
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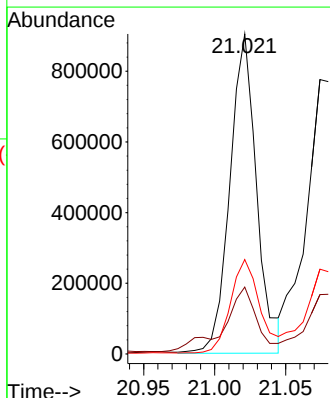
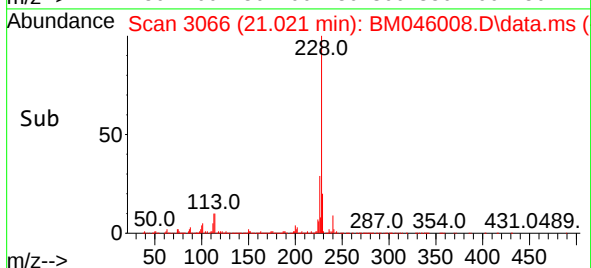
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

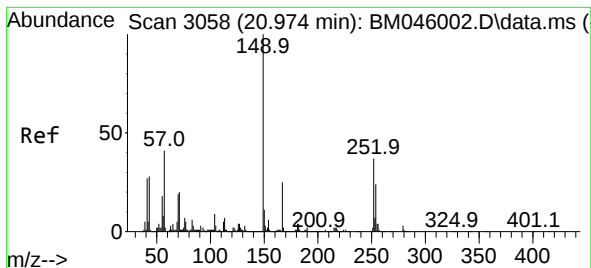


#85  
Benzo(a)anthracene  
Concen: 30.067 ng/ul  
RT: 21.021 min Scan# 3066  
Delta R.T. -0.006 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36



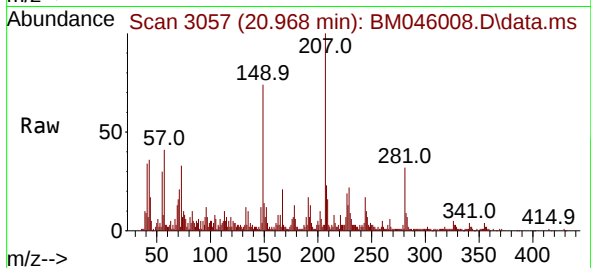
Tgt Ion:228 Resp: 1185432  
Ion Ratio Lower Upper  
228 100  
229 20.9 15.8 23.8  
226 29.5 21.4 32.0





#86  
Bis(2-ethylhexyl)phthalate  
Concen: 1.259 ng/ul  
RT: 20.968 min Scan# 3057  
Delta R.T. -0.012 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

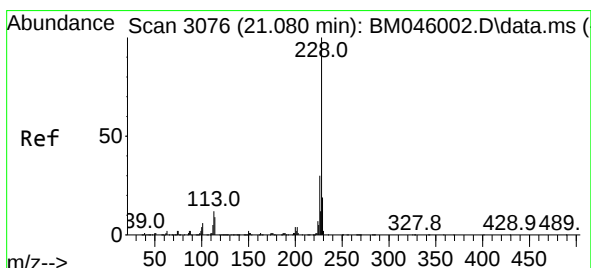
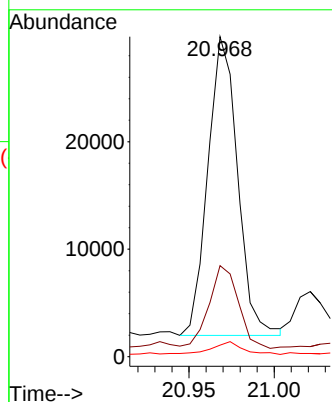
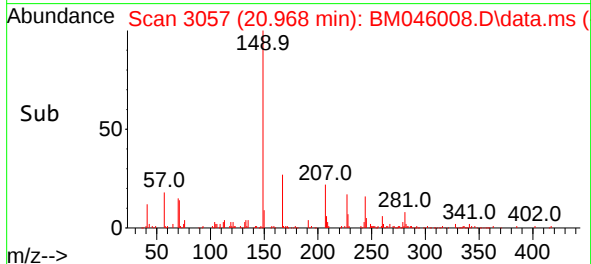
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32



Tgt Ion:149 Resp: 3372  
Ion Ratio Lower Upper  
149 100  
167 28.5 20.4 30.6  
279 3.6 3.1 4.7

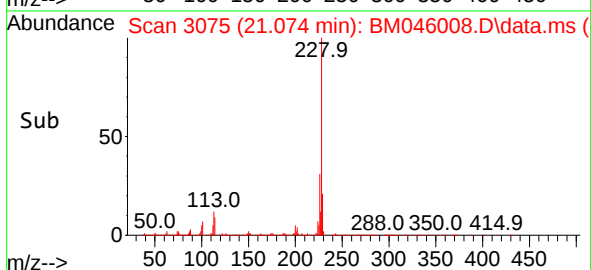
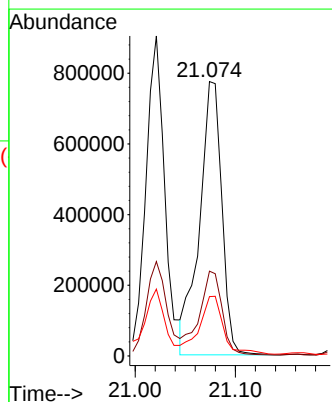
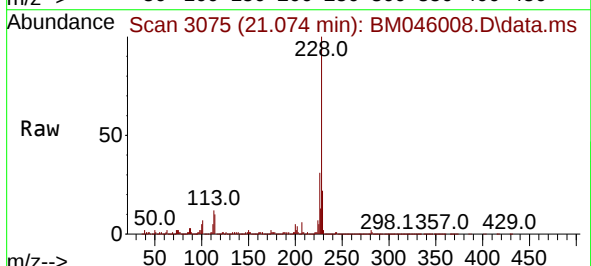
Manual Integrations  
APPROVED

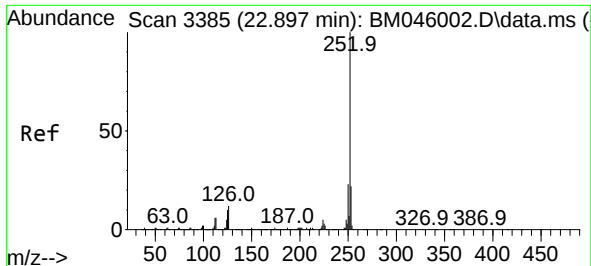
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#87  
Chrysene  
Concen: 33.037 ng/ul  
RT: 21.074 min Scan# 3075  
Delta R.T. -0.012 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

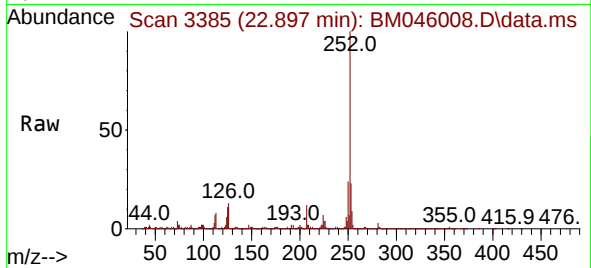
Tgt Ion:228 Resp: 1204947  
Ion Ratio Lower Upper  
228 100  
226 30.9 24.2 36.2  
229 21.6 15.2 22.8





#90  
Benzo(b)fluoranthene  
Concen: 39.027 ng/ul  
RT: 22.897 min Scan# 3385  
Delta R.T. -0.006 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

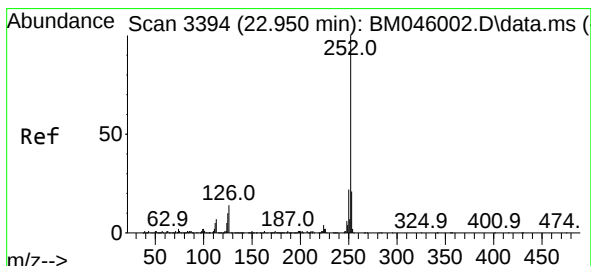
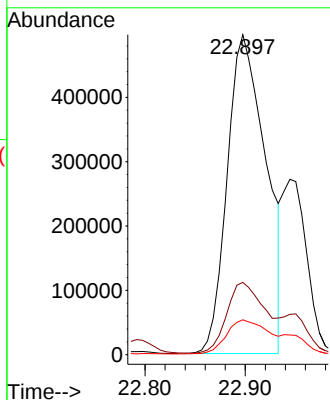
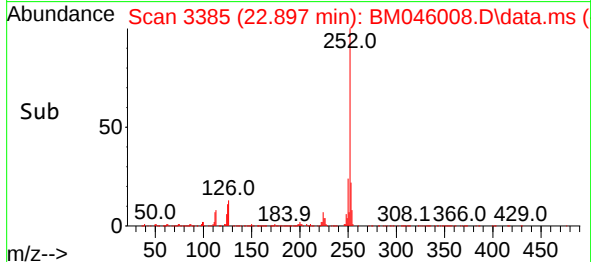
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32



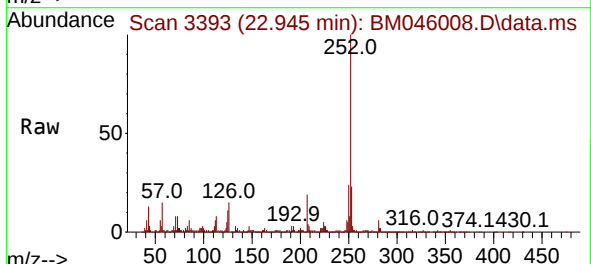
Tgt Ion:252 Resp: 1327825  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.8 26.6  
125 10.9 8.4 12.6

Manual Integrations  
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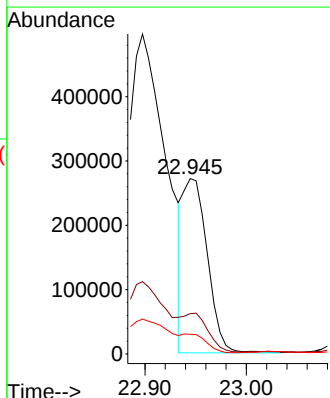
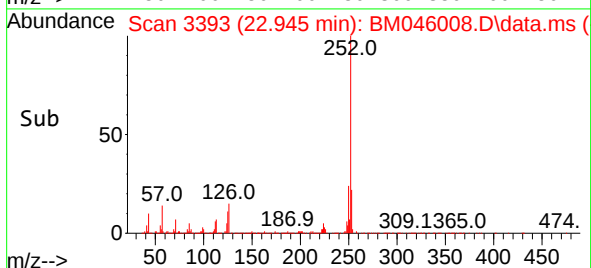
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

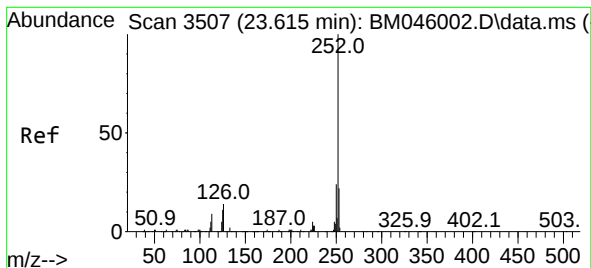


#91  
Benzo(k)fluoranthene  
Concen: 13.710 ng/ul m  
RT: 22.945 min Scan# 3393  
Delta R.T. -0.012 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36



Tgt Ion:252 Resp: 455596  
Ion Ratio Lower Upper  
252 100  
253 22.9 16.8 25.2  
125 11.2 8.2 12.4





#93

Benzo(a)pyrene

Concen: 18.981 ng/ul

RT: 23.609 min Scan# 3506

Delta R.T. -0.012 min

Lab File: BM046008.D

Acq: 12 Jun 2024 22:36

Instrument :

BNA\_M

ClientSampleId :

BHC32

Tgt Ion:252 Resp: 567469

Ion Ratio Lower Upper

252 100

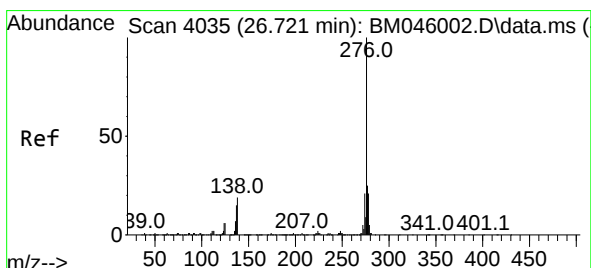
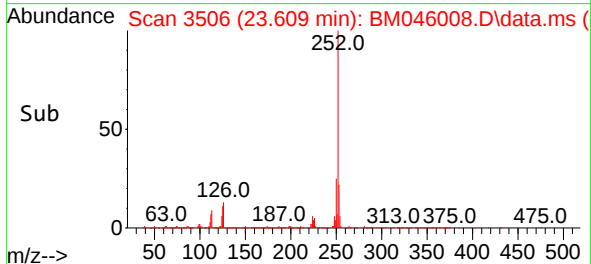
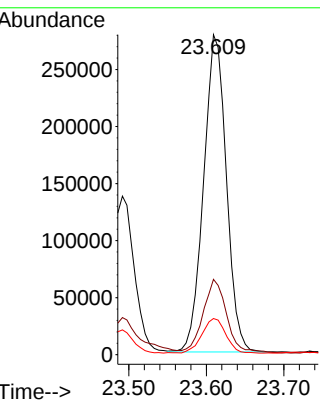
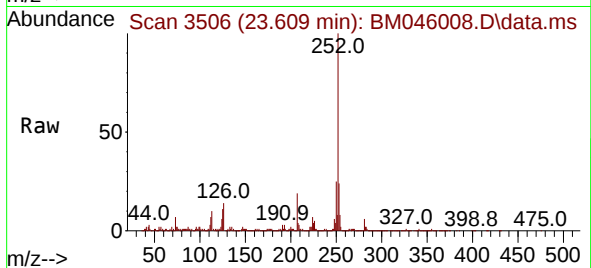
253 23.5 17.5 26.3

125 11.3 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 14.716 ng/ul

RT: 26.715 min Scan# 4034

Delta R.T. -0.012 min

Lab File: BM046008.D

Acq: 12 Jun 2024 22:36

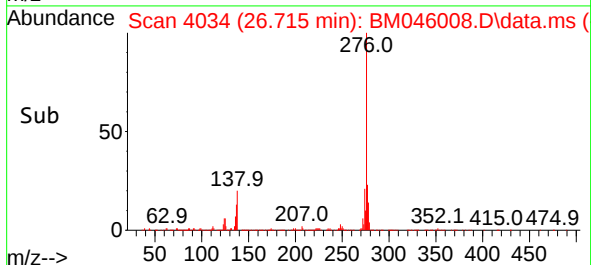
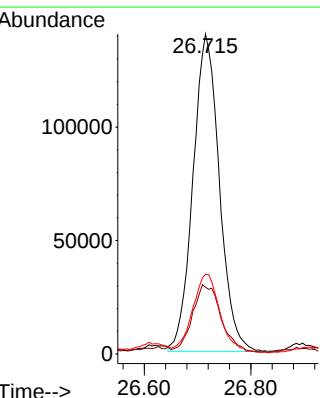
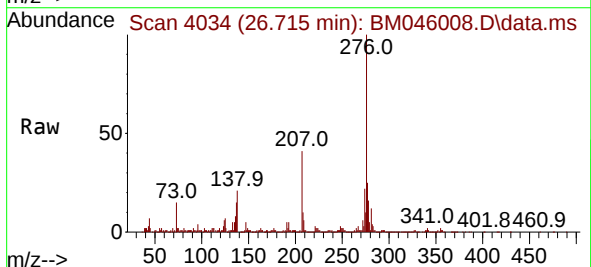
Tgt Ion:276 Resp: 480465

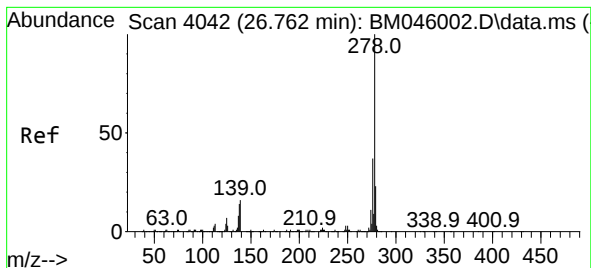
Ion Ratio Lower Upper

276 100

138 20.9 17.9 26.9

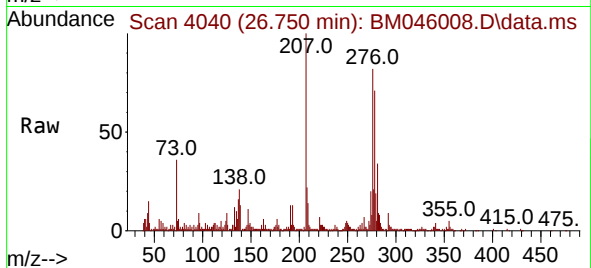
277 24.8 19.0 28.6





#95  
Dibenzo(a,h)anthracene  
Concen: 6.247 ng/ul  
RT: 26.750 min Scan# 4042  
Delta R.T. -0.023 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36

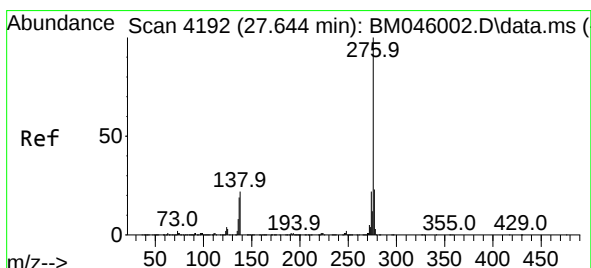
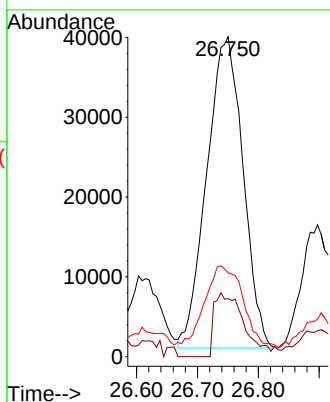
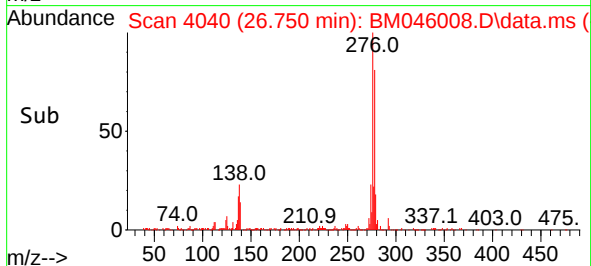
Instrument :  
BNA\_M  
ClientSampleId :  
BHC32



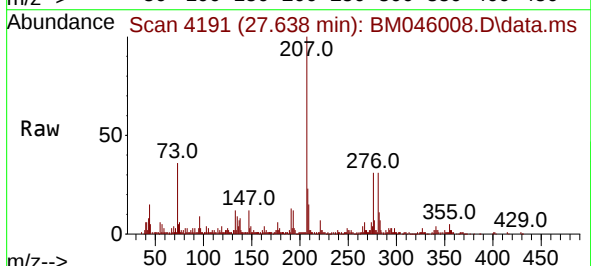
Tgt Ion:278 Resp: 161329  
Ion Ratio Lower Upper  
278 100  
139 18.1 13.2 19.8  
279 26.2 19.1 28.7

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#96  
Benzo(g,h,i)perylene  
Concen: 2.402 ng/ul m  
RT: 27.638 min Scan# 4191  
Delta R.T. -0.018 min  
Lab File: BM046008.D  
Acq: 12 Jun 2024 22:36



Tgt Ion:276 Resp: 69078  
Ion Ratio Lower Upper  
276 100  
138 26.1 18.6 27.8  
277 23.1 18.7 28.1

