

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061324\  
 Data File : BM046027.D  
 Acq On : 13 Jun 2024 17:16  
 Operator : MA/JU  
 Sample : P2648-13  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BHC44

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 14 01:28:53 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  | 129571   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.198 | 136  | 519339   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.080 | 164  | 313279   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.827 | 188  | 625366   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.044 | 240  | 589790   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.750 | 264  | 675999   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.040  | 96   | 13324m   | 3.987  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.487  | 84   | 32770    | 3.808  | ng/u1  | 0.04     |
| 7) Phenol-d5                  | 6.692  | 99   | 286725   | 26.048 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.798  | 67   | 209634   | 26.522 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 6.998  | 132  | 233392   | 28.386 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.204  | 113  | 214947   | 25.847 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.598  | 128  | 114558   | 28.213 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.310  | 143  | 123839   | 30.134 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.863  | 165  | 217886   | 28.273 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.392 | 131  | 139388   | 13.069 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.527 | 166  | 616770   | 28.438 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.768 | 160  | 725228   | 28.796 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.392 | 143  | 83623    | 17.866 | ng/u1  | 0.01     |
| 60) Fluorene-d10              | 15.080 | 176  | 520553   | 28.134 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.233 | 200  | 50949    | 15.954 | ng/u1  | 0.01     |
| 73) Anthracene-d10            | 16.927 | 188  | 784020   | 28.839 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.227 | 212  | 824549   | 22.481 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.568 | 264  | 644912   | 20.412 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 16) Acetophenone              | 8.286  | 105  | 14010    | 1.011  | ng/u1# | 87       |
| 30) Naphthalene               | 10.251 | 128  | 36506    | 1.318  | ng/u1  | 100      |
| 50) Acenaphthylene            | 13.804 | 152  | 148901   | 5.108  | ng/u1  | 98       |
| 52) Acenaphthene              | 14.145 | 153  | 37823    | 1.945  | ng/u1  | 98       |
| 56) Dibenzofuran              | 14.486 | 168  | 27853    | 1.062  | ng/u1  | 99       |
| 61) Fluorene                  | 15.139 | 166  | 44734    | 2.117  | ng/u1# | 96       |
| 72) Phenanthrene              | 16.868 | 178  | 1106114  | 33.568 | ng/u1  | 100      |
| 74) Anthracene                | 16.962 | 178  | 258688   | 7.860  | ng/u1  | 99       |
| 77) Carbazole                 | 17.251 | 167  | 97697    | 3.479  | ng/u1  | 98       |
| 78) Di-n-butylphthalate       | 17.815 | 149  | 101936   | 2.760  | ng/u1  | 97       |
| 80) Fluoranthene              | 18.892 | 202  | 2699655  | 60.714 | ng/u1  | 99       |
| 82) Pyrene                    | 19.256 | 202  | 2028759  | 44.408 | ng/u1  | 100      |
| 83) Butylbenzylphthalate      | 20.186 | 149  | 97063    | 5.213  | ng/u1  | 95       |
| 85) Benzo(a)anthracene        | 21.027 | 228  | 1236354  | 30.360 | ng/u1  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 20.974 | 149  | 413911   | 14.963 | ng/u1  | 100      |
| 87) Chrysene                  | 21.086 | 228  | 1291681  | 34.287 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 22.909 | 252  | 1777531  | 42.787 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 22.956 | 252  | 597496   | 14.725 | ng/u1  | 95       |
| 93) Benzo(a)pyrene            | 23.627 | 252  | 716747   | 19.634 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.744 | 276  | 675802   | 16.952 | ng/u1  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.768 | 278  | 223464   | 7.087  | ng/u1# | 90       |
| 96) Benzo(g,h,i)perylene      | 27.662 | 276  | 107130m  | 3.051  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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Acq On : 13 Jun 2024 17:16  
Operator : MA/JU  
Sample : P2648-13  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BHC44

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 14 01:28:53 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) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

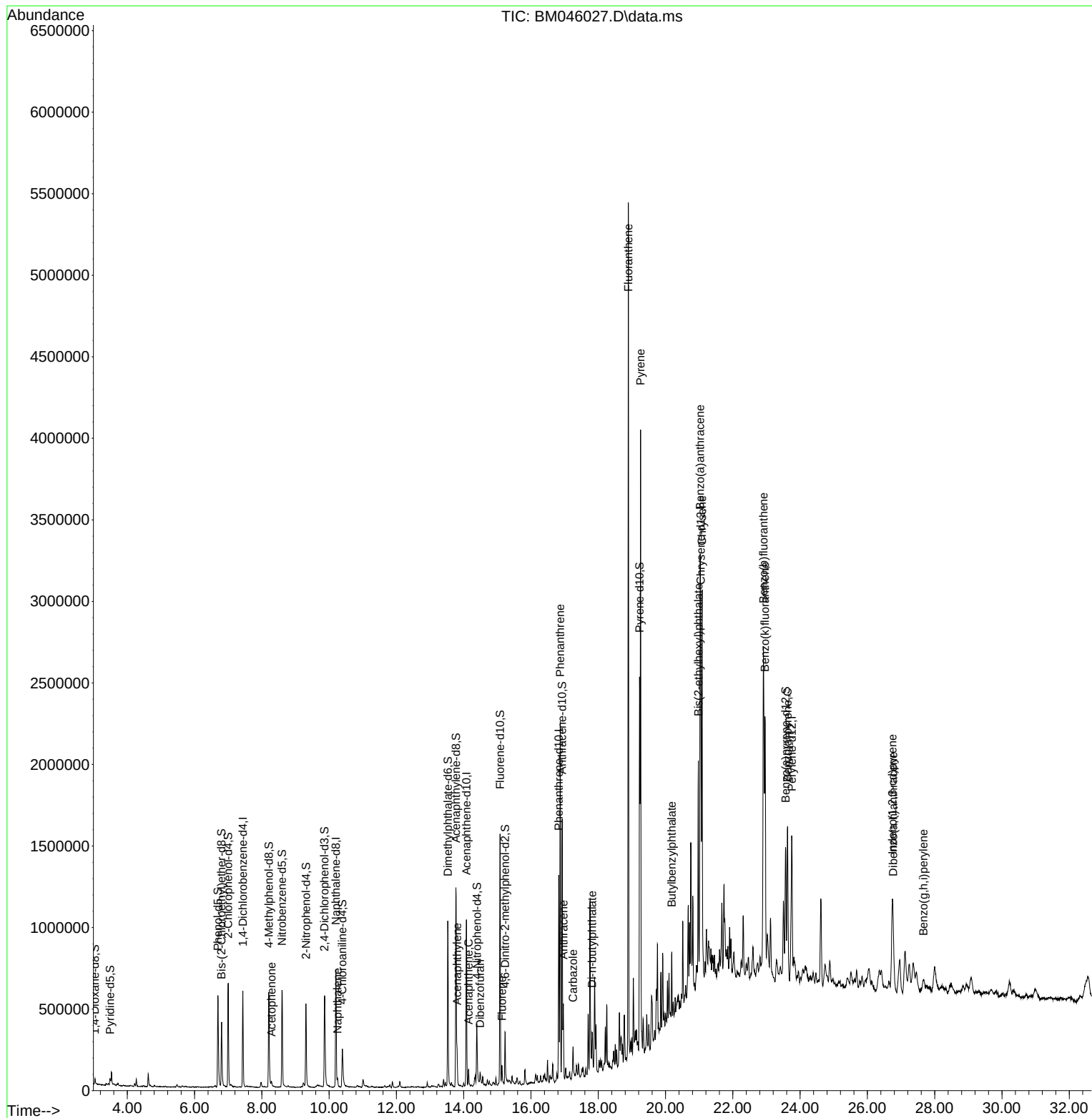
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061324\  
 Data File : BM046027.D  
 Acq On : 13 Jun 2024 17:16  
 Operator : MA/JU  
 Sample : P2648-13  
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 ALS Vial : 11 Sample Multiplier: 1

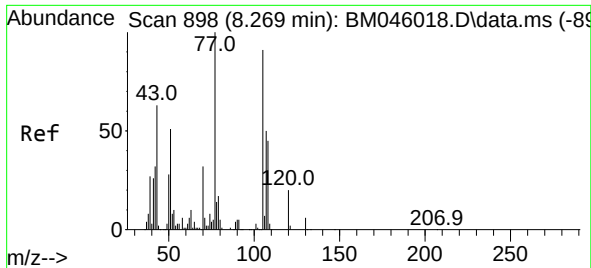
Instrument :  
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Quant Time: Jun 14 01:28:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
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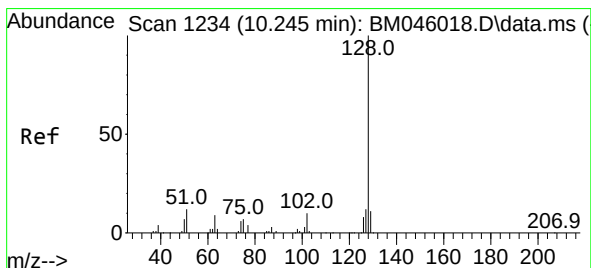
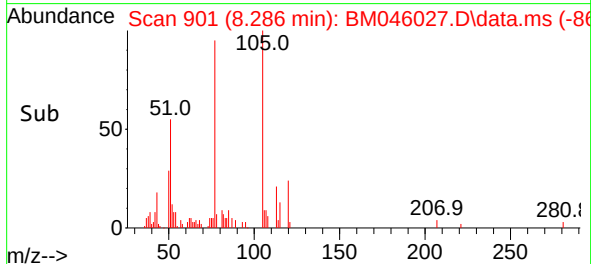
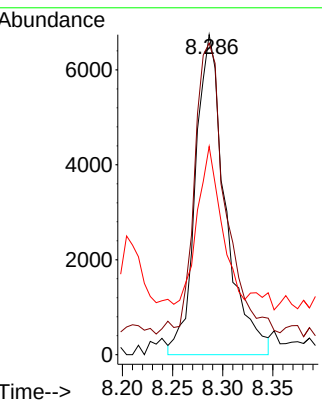
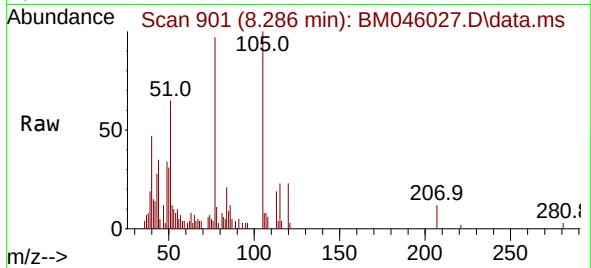
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Acetophenone  
Concen: 1.011 ng/ul  
RT: 8.286 min Scan# 901  
Delta R.T. 0.012 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

Instrument :  
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BHC44

Tgt Ion:105 Resp: 14010  
Ion Ratio Lower Upper  
105 100  
77 97.3 84.7 127.1  
51 65.1 39.4 59.0

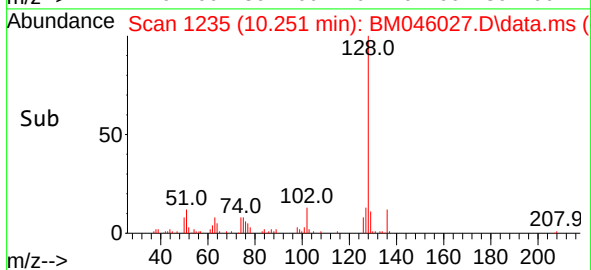
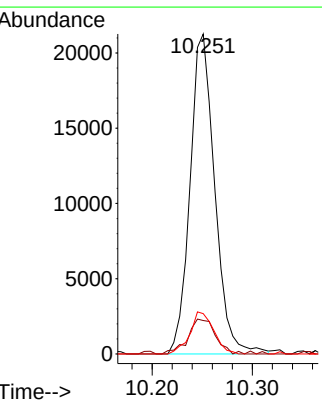
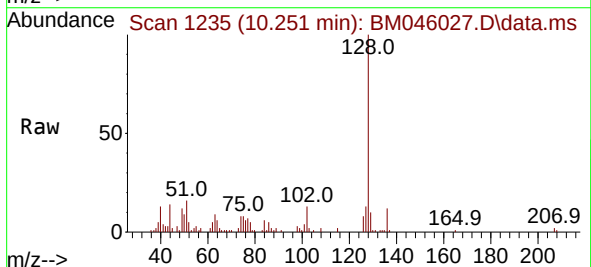
Manual Integrations  
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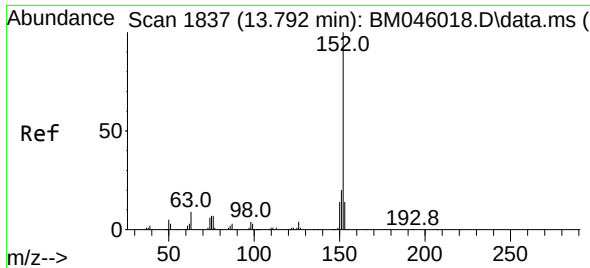
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#30  
Naphthalene  
Concen: 1.318 ng/ul  
RT: 10.251 min Scan# 1235  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

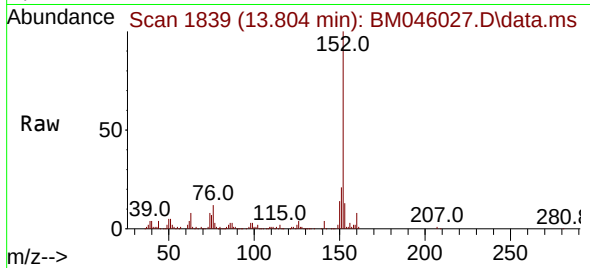
Tgt Ion:128 Resp: 36506  
Ion Ratio Lower Upper  
128 100  
129 10.4 8.3 12.5  
127 12.6 10.3 15.5





#50  
Acenaphthylene  
Concen: 5.108 ng/ul  
RT: 13.804 min Scan# 1839  
Delta R.T. 0.006 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

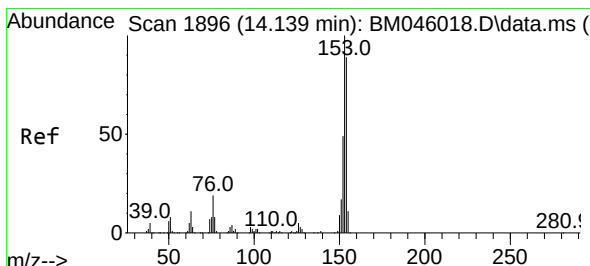
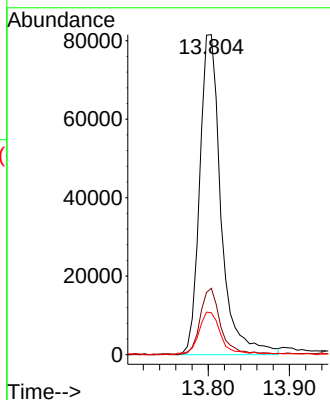
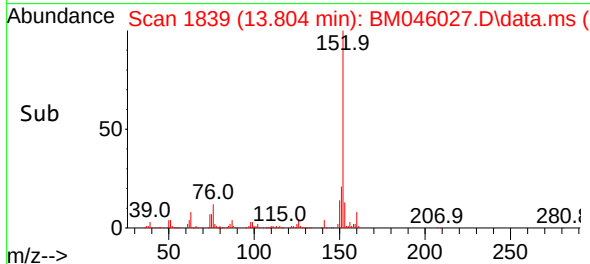
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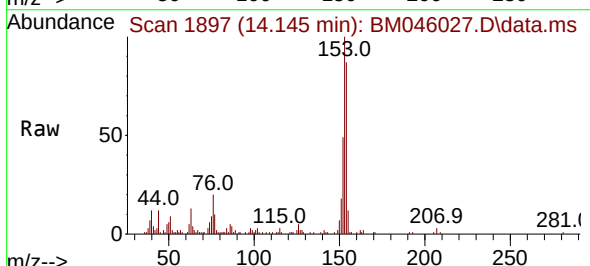
Tgt Ion:152 Resp: 14890  
Ion Ratio Lower Upper  
152 100  
151 20.7 15.6 23.4  
153 13.1 10.4 15.6

Manual Integrations  
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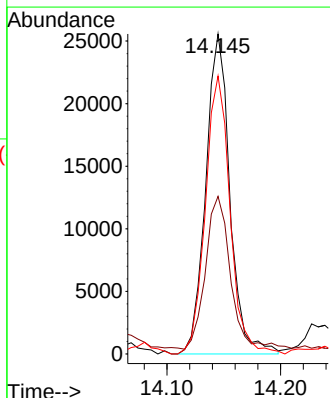
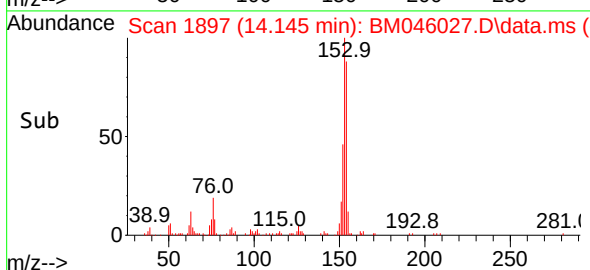
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

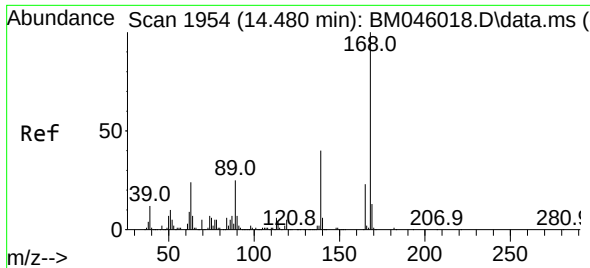


#52  
Acenaphthene  
Concen: 1.945 ng/ul  
RT: 14.145 min Scan# 1897  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16



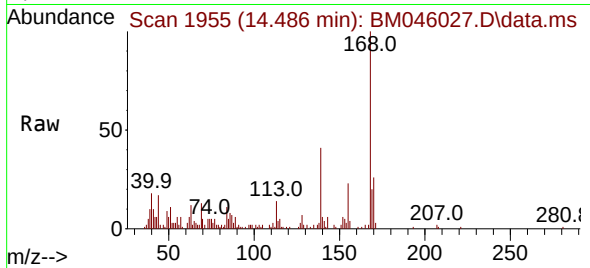
Tgt Ion:153 Resp: 37823  
Ion Ratio Lower Upper  
153 100  
152 49.2 38.6 58.0  
154 86.8 70.7 106.1





#56  
Dibenzenofuran  
Concen: 1.062 ng/ul  
RT: 14.486 min Scan# 1954  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

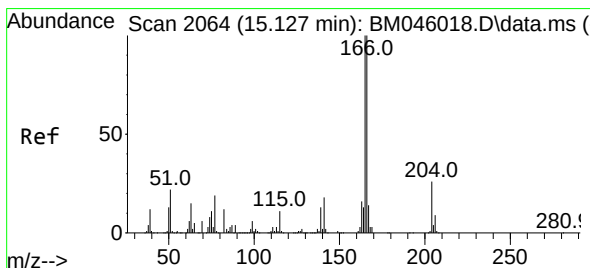
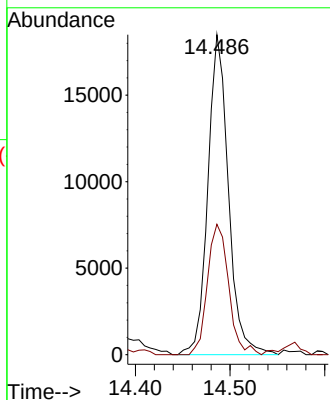
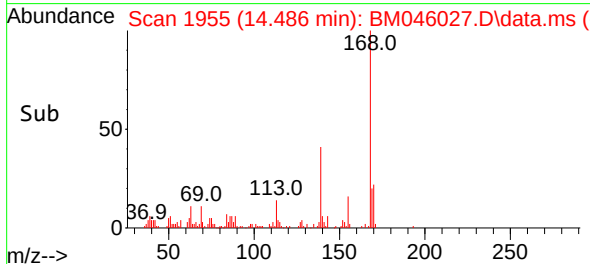
Instrument :  
BNA\_M  
ClientSampleId :  
BHC44



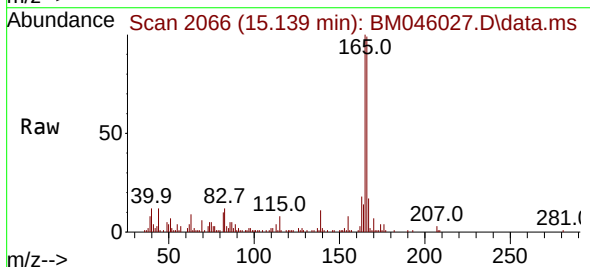
Tgt Ion:168 Resp: 2785  
Ion Ratio Lower Upper  
168 100  
139 40.8 32.2 48.2

Manual Integrations  
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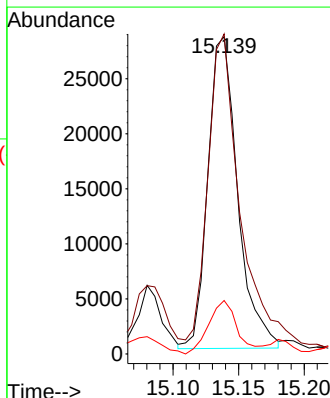
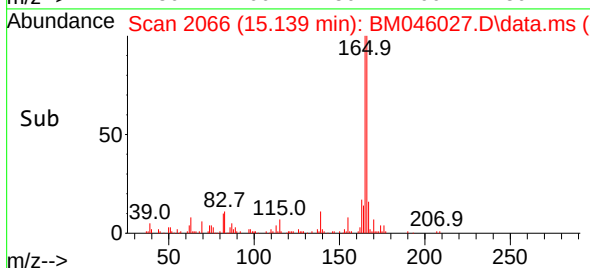
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

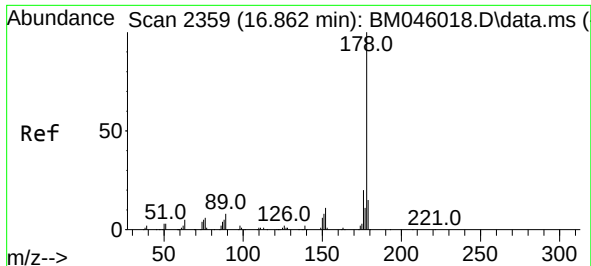


#61  
Fluorene  
Concen: 2.117 ng/ul  
RT: 15.139 min Scan# 2066  
Delta R.T. 0.006 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16



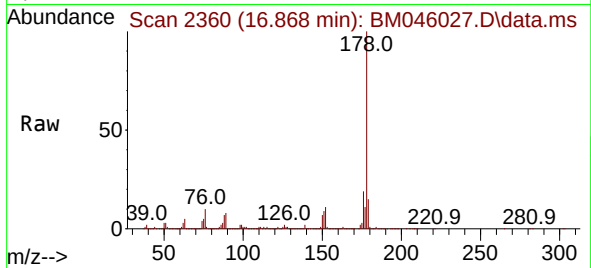
Tgt Ion:166 Resp: 44734  
Ion Ratio Lower Upper  
166 100  
165 100.9 78.1 117.1  
167 16.8 10.6 16.0#





#72  
Phenanthrene  
Concen: 33.568 ng/ul  
RT: 16.868 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

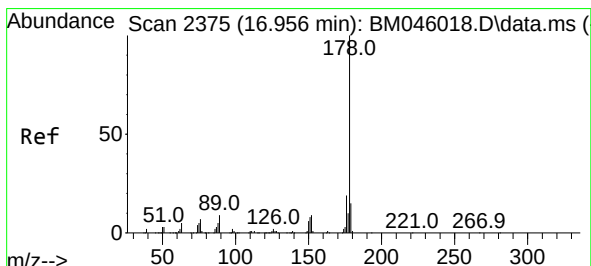
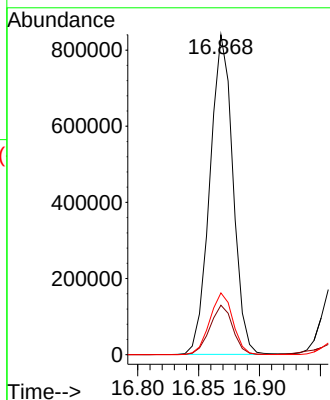
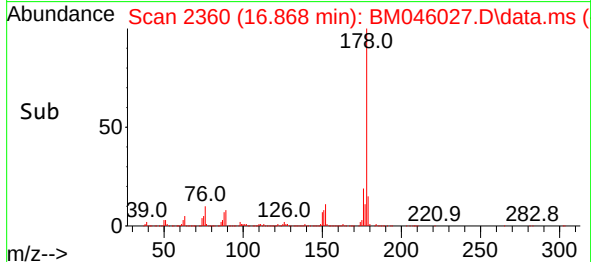
Instrument :  
BNA\_M  
ClientSampleId :  
BHC44



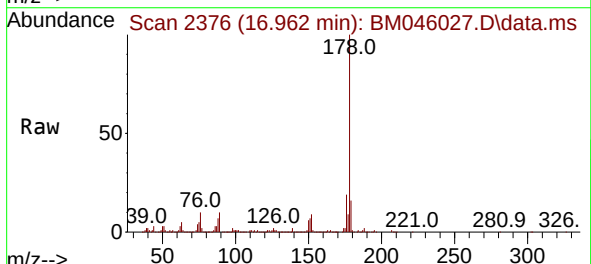
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Ion Ratio Lower Upper  
178 100  
179 15.5 12.4 18.6  
176 19.3 15.3 22.9

Manual Integrations  
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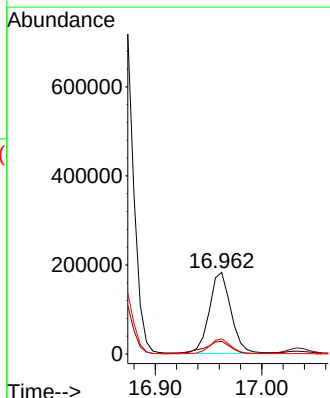
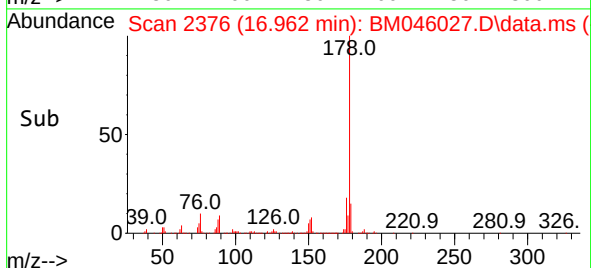
Reviewed By :Jagrut Upadhyay 06/14/2024  
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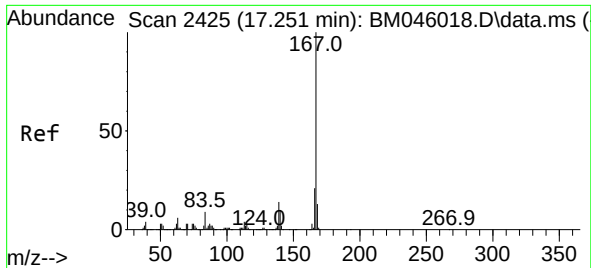


#74  
Anthracene  
Concen: 7.860 ng/ul  
RT: 16.962 min Scan# 2376  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16



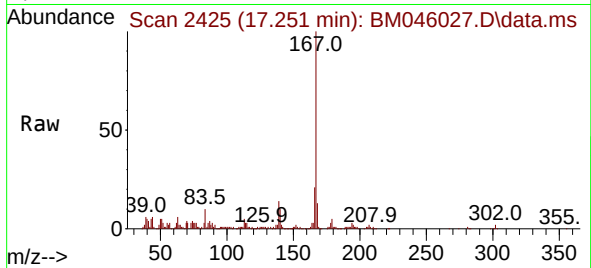
Tgt Ion:178 Resp: 258688  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.0 18.0  
176 18.5 15.0 22.6





#77  
 Carbazole  
 Concen: 3.479 ng/ul  
 RT: 17.251 min Scan# 2425  
 Delta R.T. -0.006 min  
 Lab File: BM046027.D  
 Acq: 13 Jun 2024 17:16

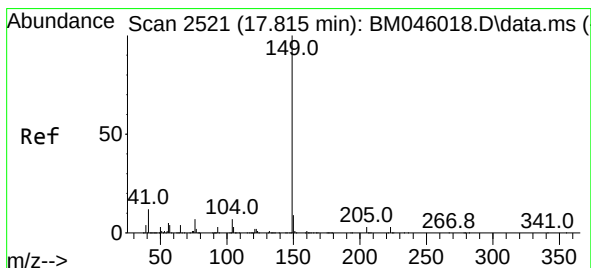
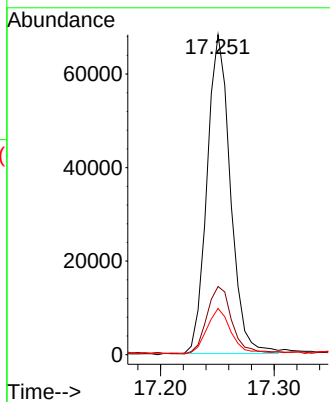
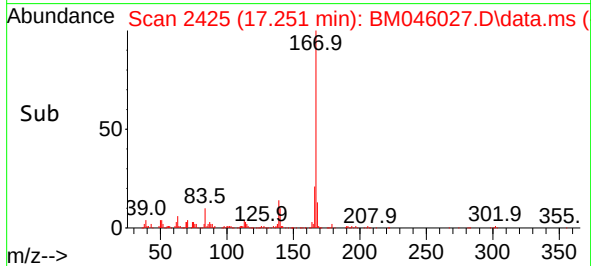
Instrument :  
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 ClientSampleId :  
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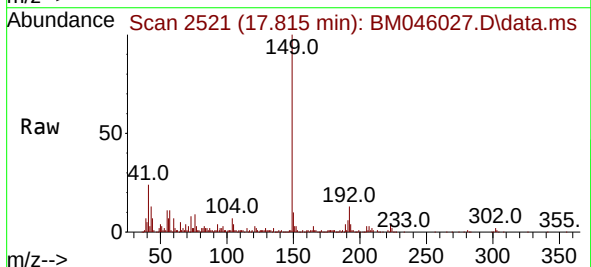
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 Ion Ratio Lower Upper  
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 166 21.3 16.6 24.8  
 139 14.5 10.6 16.0

Manual Integrations  
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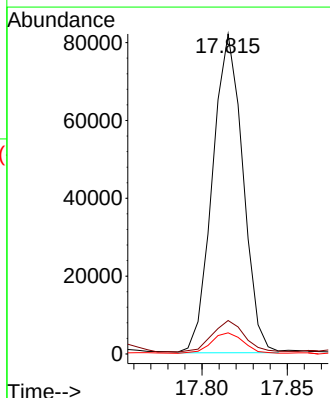
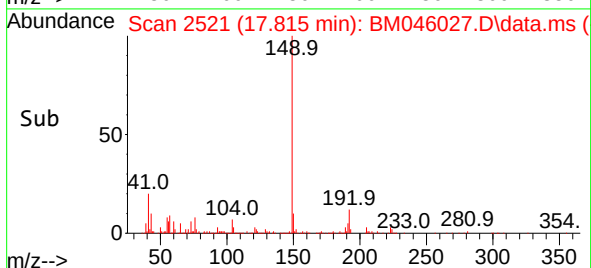
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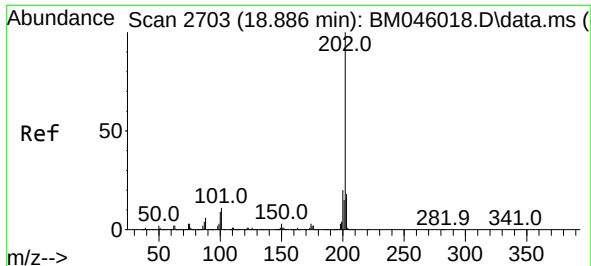
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 Di-n-butylphthalate  
 Concen: 2.760 ng/ul  
 RT: 17.815 min Scan# 2521  
 Delta R.T. -0.006 min  
 Lab File: BM046027.D  
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Tgt Ion:149 Resp: 101936  
 Ion Ratio Lower Upper  
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 150 10.4 7.1 10.7  
 104 6.6 4.9 7.3







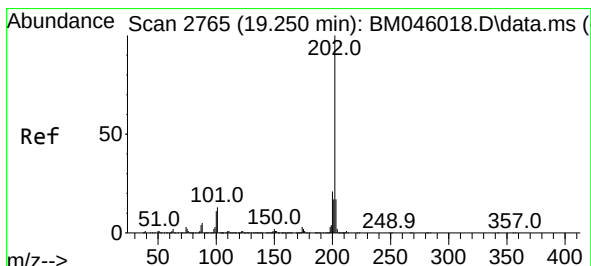
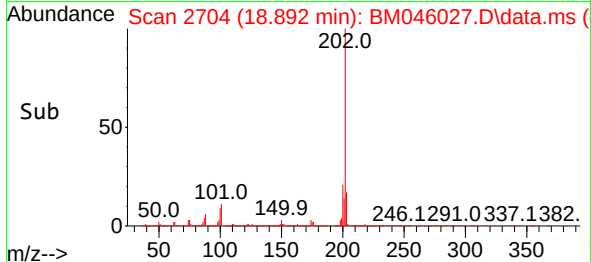
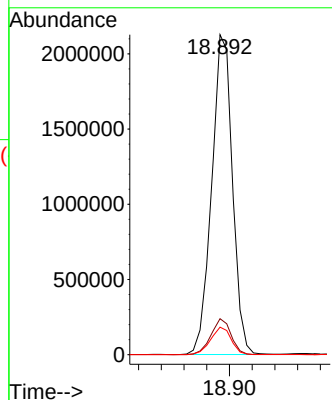
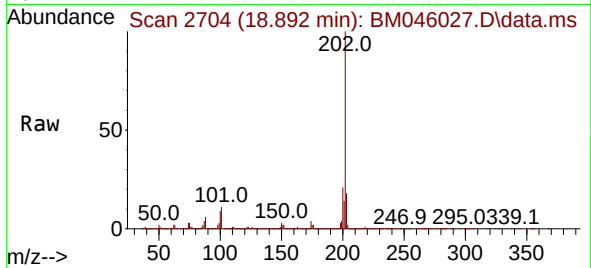
#80  
Fluoranthene  
Concen: 60.714 ng/ul  
RT: 18.892 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

Instrument :  
BNA\_M  
ClientSampleId :  
BHC44

Tgt Ion:202 Resp: 269965  
Ion Ratio Lower Upper  
202 100  
101 11.3 8.9 13.3  
100 8.6 6.6 10.0

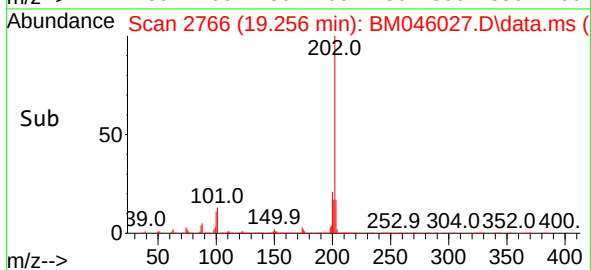
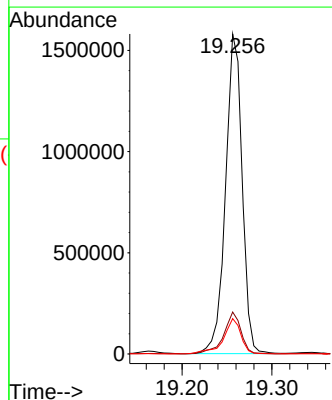
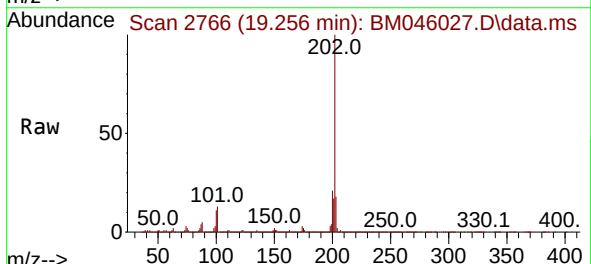
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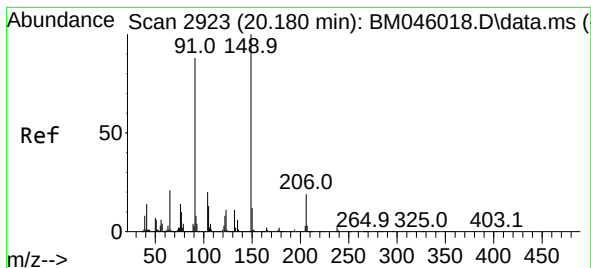
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#82  
Pyrene  
Concen: 44.408 ng/ul  
RT: 19.256 min Scan# 2766  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

Tgt Ion:202 Resp: 2028759  
Ion Ratio Lower Upper  
202 100  
101 13.1 10.5 15.7  
100 11.1 8.6 12.8





#83

Butylbenzylphthalate

Concen: 5.213 ng/ul

RT: 20.186 min Scan# 2923

Delta R.T. -0.000 min

Lab File: BM046027.D

Acq: 13 Jun 2024 17:16

Instrument :

BNA\_M

ClientSampleId :

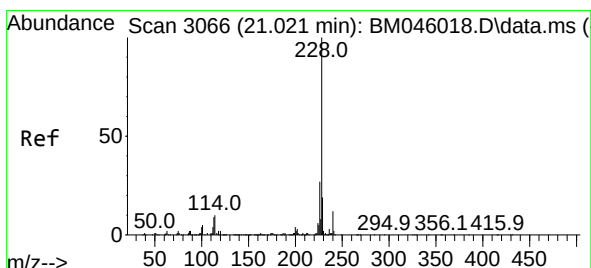
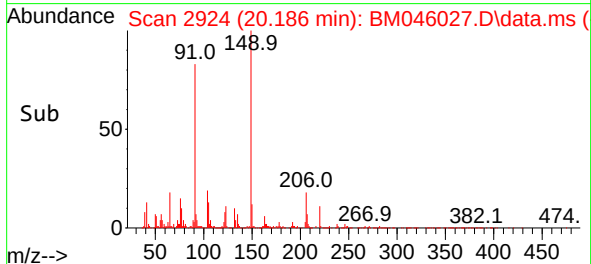
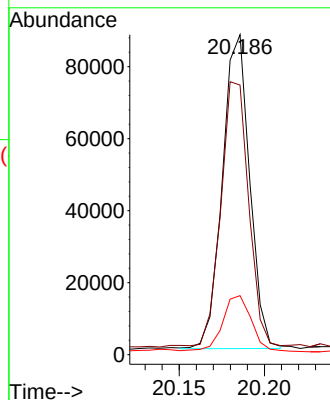
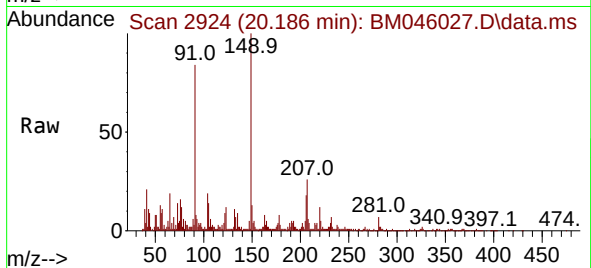
BHC44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 97063 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 91        | 84.3  | 63.7  | 95.5  |
| 206       | 18.5  | 15.9  | 23.9  |

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Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#85

Benzo(a)anthracene

Concen: 30.360 ng/ul

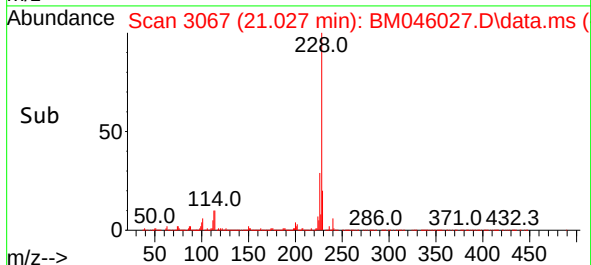
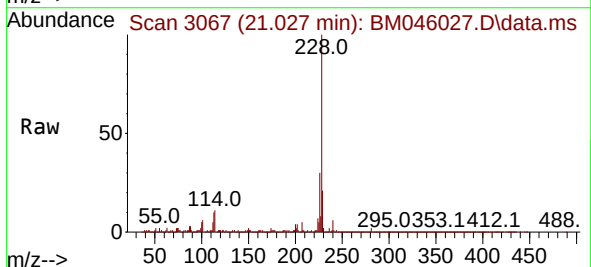
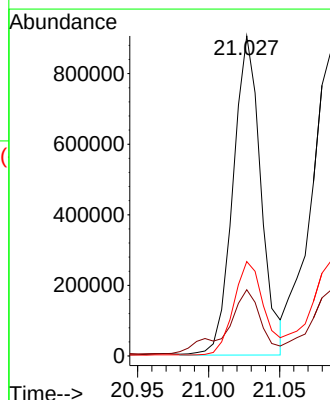
RT: 21.027 min Scan# 3067

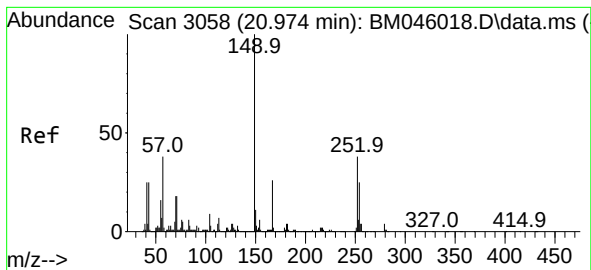
Delta R.T. -0.000 min

Lab File: BM046027.D

Acq: 13 Jun 2024 17:16

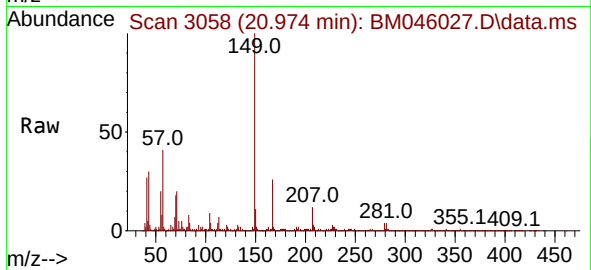
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 228   | Resp: | 1236354 |
| Ion Ratio | Lower | Upper |         |
| 228       | 100   |       |         |
| 229       | 20.7  | 15.8  | 23.8    |
| 226       | 29.5  | 21.4  | 32.0    |





#86  
 Bis(2-ethylhexyl)phthalate  
 Concen: 14.963 ng/ul  
 RT: 20.974 min Scan# 3058  
 Delta R.T. -0.006 min  
 Lab File: BM046027.D  
 Acq: 13 Jun 2024 17:16

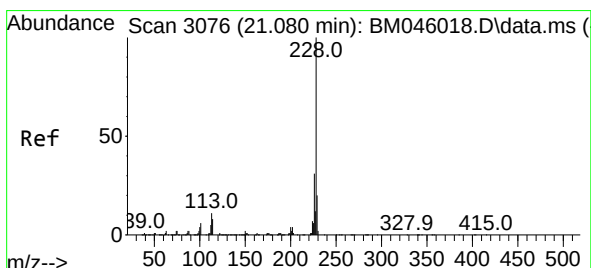
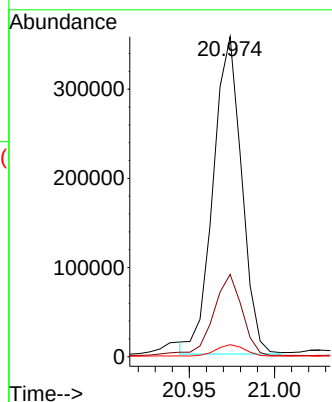
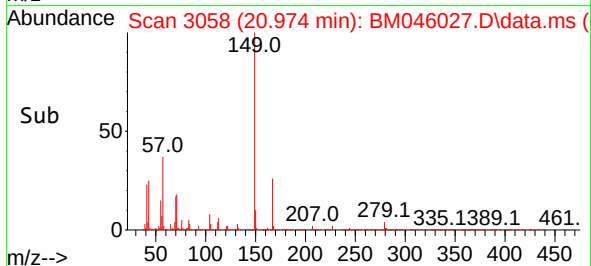
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BHC44



Tgt Ion:149 Resp: 41391  
 Ion Ratio Lower Upper  
 149 100  
 167 25.7 20.4 30.6  
 279 3.8 3.1 4.7

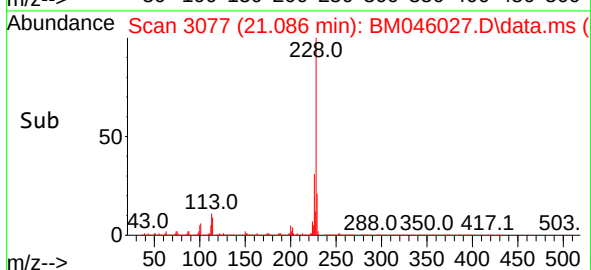
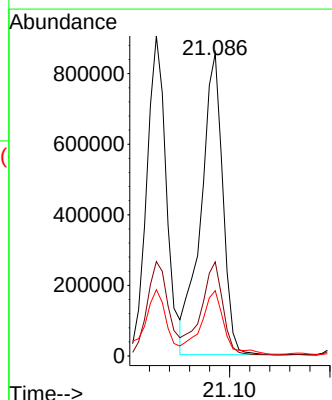
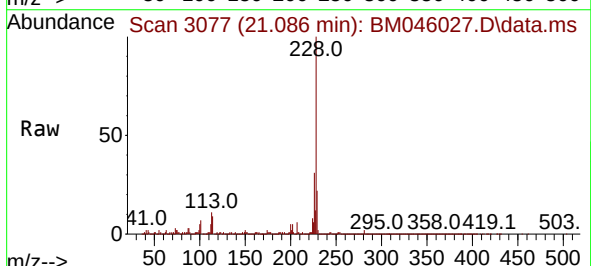
Manual Integrations  
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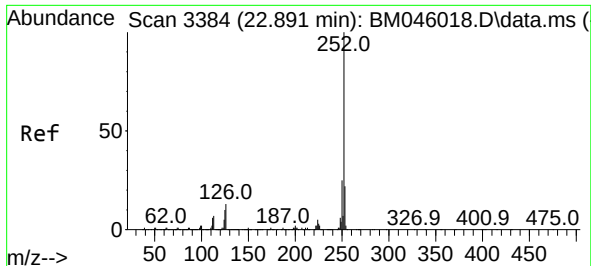
Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/15/2024



#87  
 Chrysene  
 Concen: 34.287 ng/ul  
 RT: 21.086 min Scan# 3077  
 Delta R.T. -0.000 min  
 Lab File: BM046027.D  
 Acq: 13 Jun 2024 17:16

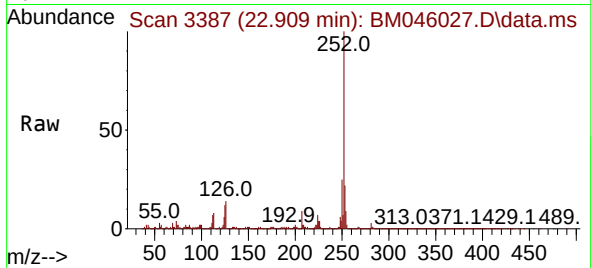
Tgt Ion:228 Resp: 1291681  
 Ion Ratio Lower Upper  
 228 100  
 226 31.1 24.2 36.2  
 229 21.6 15.2 22.8





#90  
Benzo(b)fluoranthene  
Concen: 42.787 ng/ul  
RT: 22.909 min Scan# 3387  
Delta R.T. 0.006 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

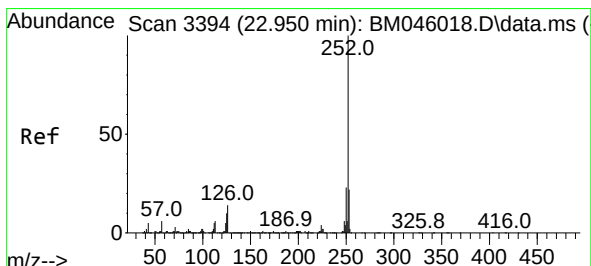
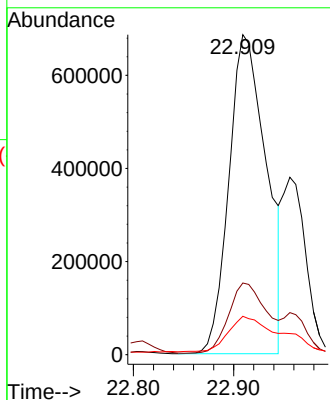
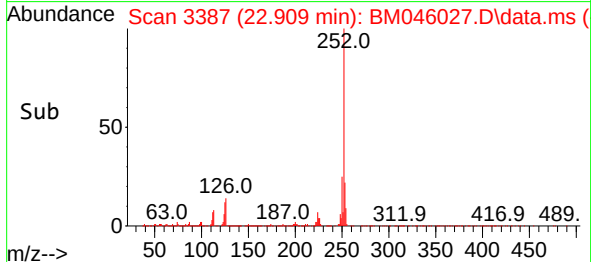
Instrument :  
BNA\_M  
ClientSampleId :  
BHC44



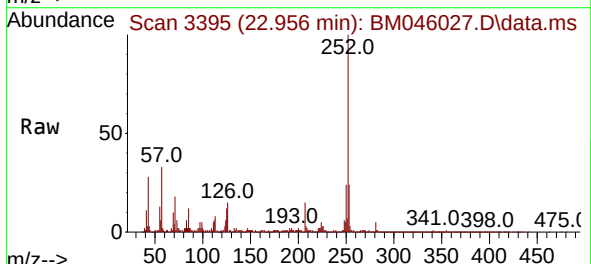
Tgt Ion:252 Resp: 177753  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.8 26.6  
125 12.0 8.4 12.6

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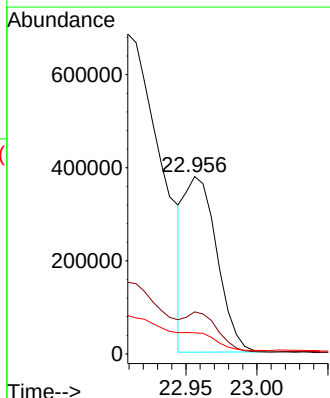
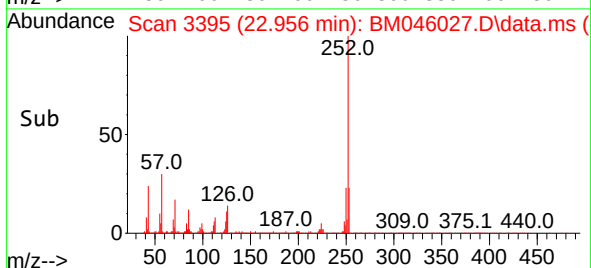
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

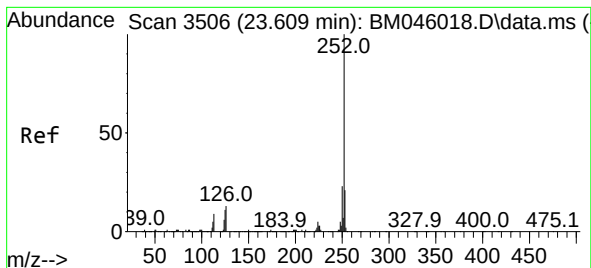


#91  
Benzo(k)fluoranthene  
Concen: 14.725 ng/ul  
RT: 22.956 min Scan# 3395  
Delta R.T. -0.000 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16



Tgt Ion:252 Resp: 597496  
Ion Ratio Lower Upper  
252 100  
253 23.7 16.8 25.2  
125 11.9 8.2 12.4





#93

Benzo(a)pyrene

Concen: 19.634 ng/ul

RT: 23.627 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM046027.D

Acq: 13 Jun 2024 17:16

Instrument :

BNA\_M

ClientSampleId :

BHC44

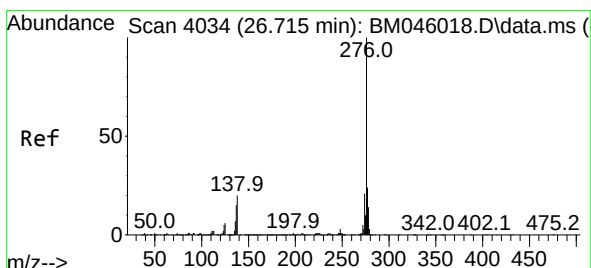
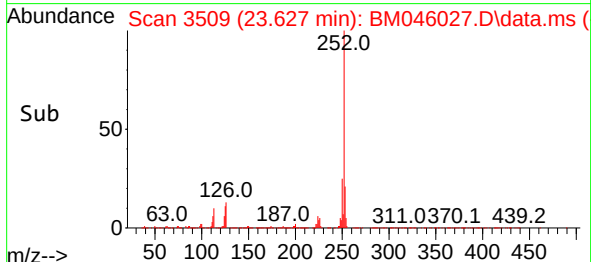
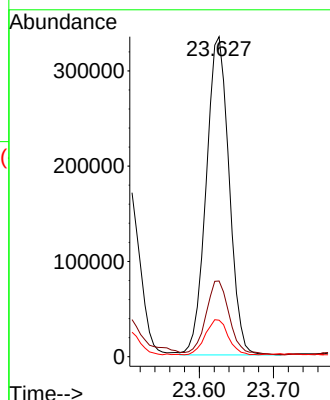
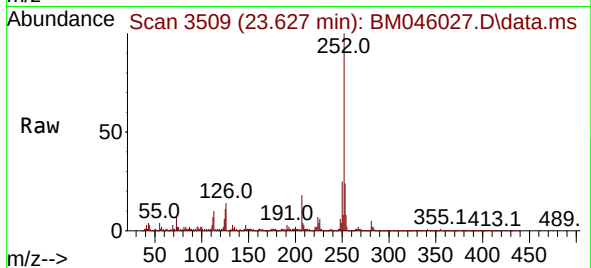
Tgt Ion:252 Resp: 71674

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.6  | 17.5  | 26.3  |
| 125 | 11.4  | 9.3   | 13.9  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 16.952 ng/ul

RT: 26.744 min Scan# 4039

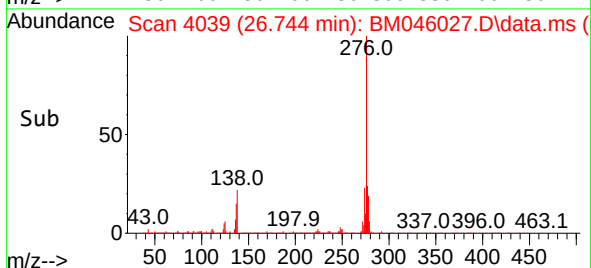
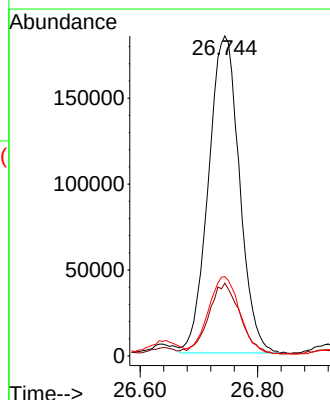
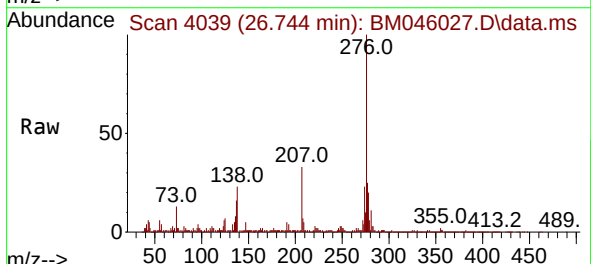
Delta R.T. 0.018 min

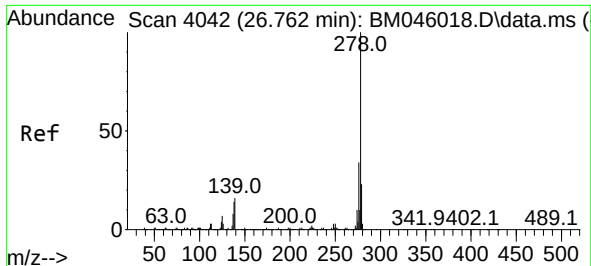
Lab File: BM046027.D

Acq: 13 Jun 2024 17:16

Tgt Ion:276 Resp: 675802

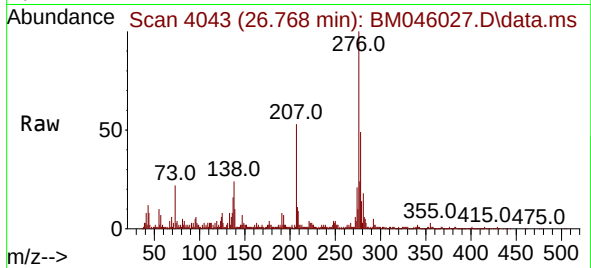
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 22.7  | 17.9  | 26.9  |
| 277 | 24.8  | 19.0  | 28.6  |





#95  
Dibenzo(a,h)anthracene  
Concen: 7.087 ng/ul  
RT: 26.768 min Scan# 4042  
Delta R.T. -0.006 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16

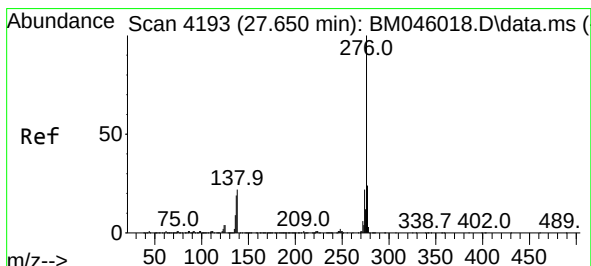
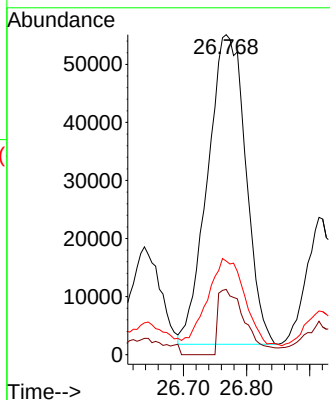
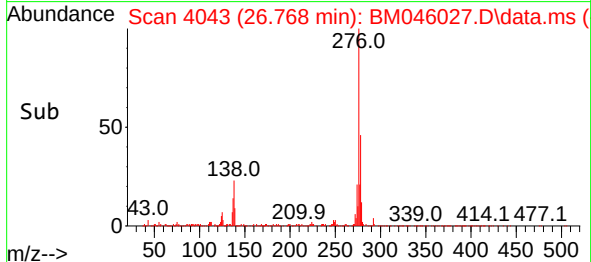
Instrument :  
BNA\_M  
ClientSampleId :  
BHC44



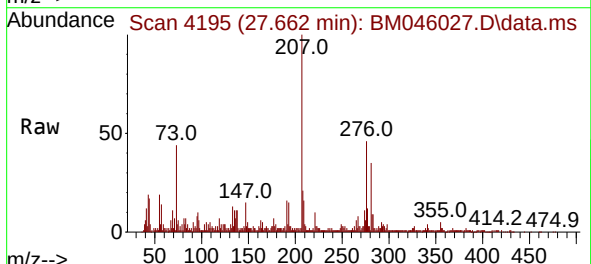
Tgt Ion:278 Resp: 223464  
Ion Ratio Lower Upper  
278 100  
139 20.4 13.2 19.8  
279 29.3 19.1 28.7

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#96  
Benzo(g,h,i)perylene  
Concen: 3.051 ng/ul m  
RT: 27.662 min Scan# 4195  
Delta R.T. 0.006 min  
Lab File: BM046027.D  
Acq: 13 Jun 2024 17:16



Tgt Ion:276 Resp: 107130  
Ion Ratio Lower Upper  
276 100  
138 23.3 18.6 27.8  
277 25.8 18.7 28.1

