

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061224\  
 Data File : BN031971.D  
 Acq On : 13 Jun 2024 11:01  
 Operator : MA/JU  
 Sample : P2659-02DL 5X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHC25DL

Quant Time: Jun 13 23:30:01 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 11 22:28:10 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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

Supervised By :mohammad  
 ahmed  
 06/14/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.657  | 152  | 350338   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.439 | 136  | 1333733  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.304 | 164  | 727310   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.051 | 188  | 1292794  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.292 | 240  | 1137370  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.227 | 264  | 1427885  | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.181  | 96   | 9945     | 1.174  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.593  | 84   | 56734    | 2.380  | ng/u1  | 0.01     |
| 7) Phenol-d5                  | 6.834  | 99   | 176856   | 5.889  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.998  | 67   | 110165   | 6.271  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.193  | 132  | 151239   | 6.600  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.369  | 113  | 125467   | 5.125  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.816  | 128  | 69008    | 6.767  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.534  | 143  | 68636    | 6.516  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.069 | 165  | 117281   | 5.964  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.592 | 131  | 68180    | 2.335  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.716 | 166  | 343230   | 6.774  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.992 | 160  | 401813   | 6.897  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.533 | 143  | 35476    | 3.497  | ng/u1  | 0.01     |
| 60) Fluorene-d10              | 15.298 | 176  | 286642   | 6.686  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.433 | 200  | 16213    | 2.495  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.151 | 188  | 407882   | 7.369  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.457 | 212  | 397892   | 6.537  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.021 | 264  | 340469   | 4.994  | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 50) Acenaphthylene            | 14.022 | 152  | 309584   | 4.702  | ng/u1  | 98       |
| 61) Fluorene                  | 15.357 | 166  | 81241    | 1.704  | ng/u1  | 96       |
| 72) Phenanthrene              | 17.098 | 178  | 1694219  | 25.726 | ng/u1  | 100      |
| 74) Anthracene                | 17.186 | 178  | 389934   | 5.843  | ng/u1  | 97       |
| 77) Carbazole                 | 17.463 | 167  | 134175   | 2.358  | ng/u1  | 100      |
| 80) Fluoranthene              | 19.121 | 202  | 3275569  | 45.033 | ng/u1  | 97       |
| 82) Pyrene                    | 19.480 | 202  | 2541322  | 34.053 | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.274 | 228  | 1565849  | 20.568 | ng/u1  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.198 | 149  | 134817   | 2.624  | ng/u1  | 99       |
| 87) Chrysene                  | 21.339 | 228  | 1656214  | 23.291 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.303 | 252  | 2250018  | 26.363 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.356 | 252  | 829744m  | 9.907  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.086 | 252  | 1009423  | 12.628 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.521 | 276  | 908766   | 9.866  | ng/u1  | 97       |
| 95) Dibenzo(a,h)anthracene    | 27.556 | 278  | 287936   | 3.829  | ng/u1# | 91       |
| 96) Benzo(g,h,i)perylene      | 28.550 | 276  | 130411m  | 1.781  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061224\  
Data File : BN031971.D  
Acq On : 13 Jun 2024 11:01  
Operator : MA/JU  
Sample : P2659-02DL 5X  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

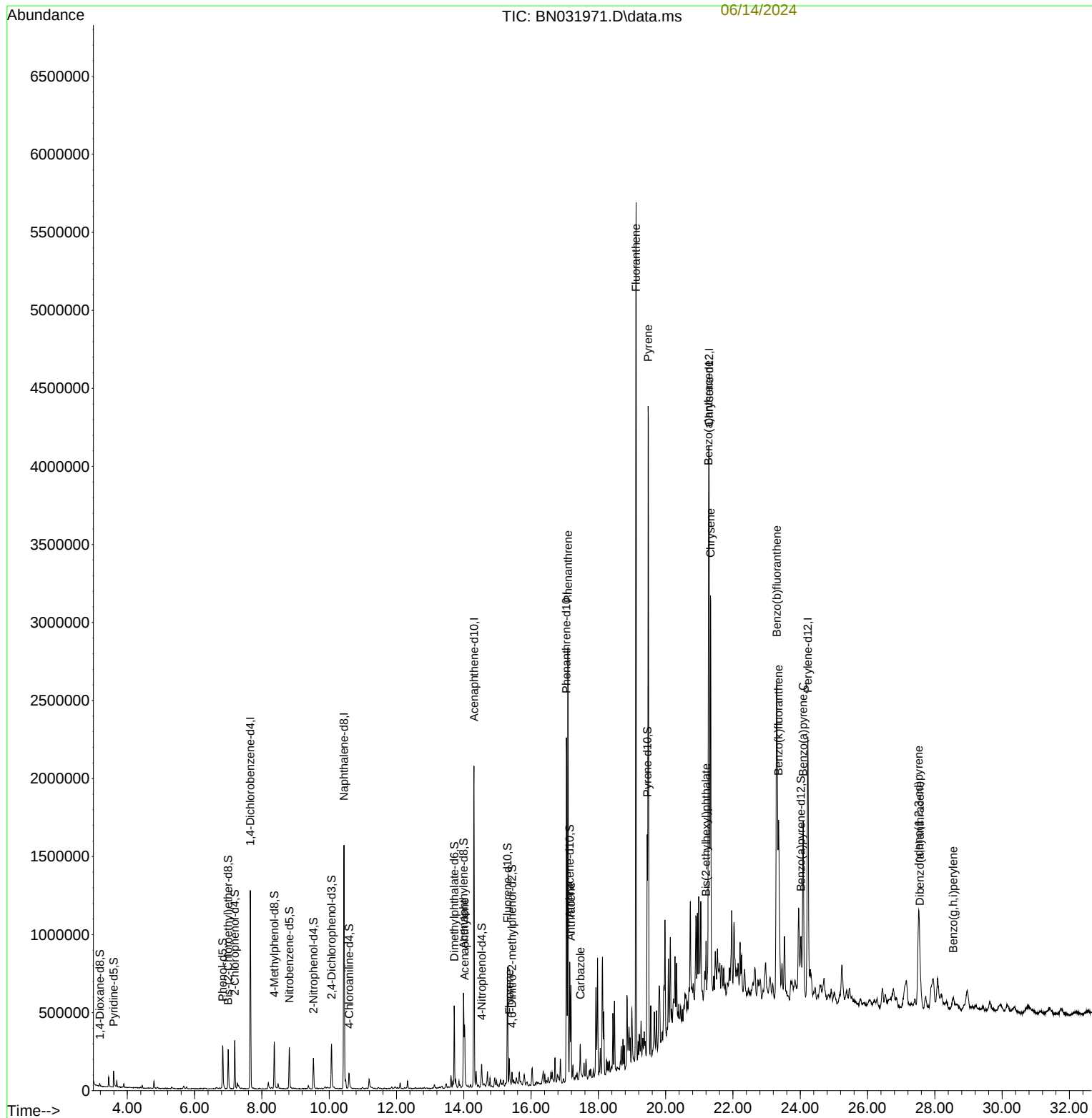
Instrument :  
BNA\_N  
ClientSampleId :  
BHC25DL

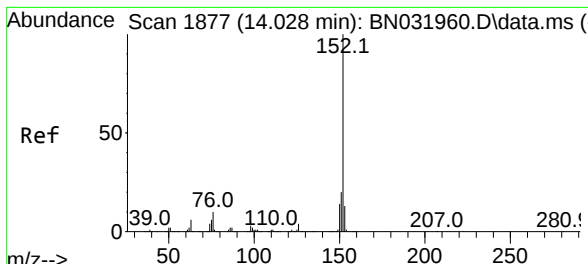
Quant Time: Jun 13 23:30:01 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 11 22:28:10 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

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Supervised By :mohammad ahmed 06/14/2024

Supervised By :mohammad  
ahmed  
06/14/2024





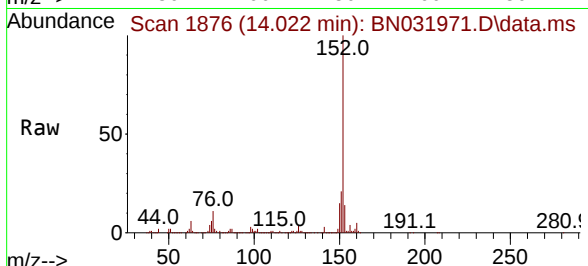
#50  
 Acenaphthylene  
 Concen: 4.702 ng/ul  
 RT: 14.022 min Scan# 1877  
 Delta R.T. -0.006 min  
 Lab File: BN031971.D  
 Acq: 13 Jun 2024 11:01

Instrument :

BNA\_N

ClientSampleId :

BHC25DL



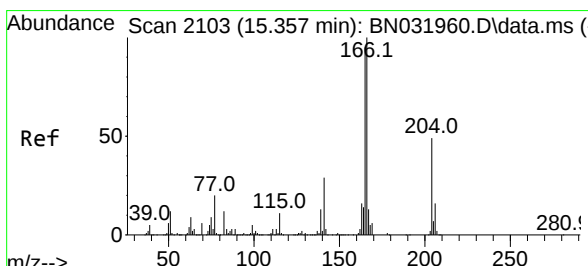
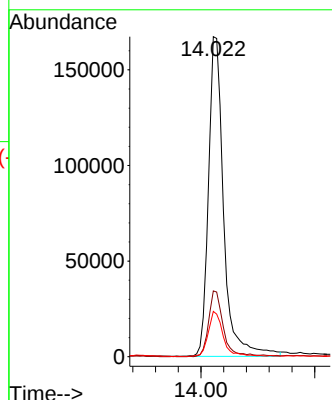
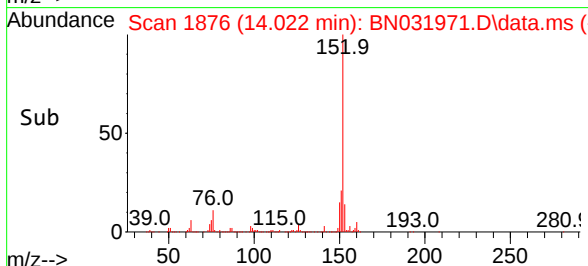
Tgt Ion:152 Resp: 309584  
 Ion Ratio Lower Upper  
 152 100  
 151 20.5 15.9 23.9  
 153 14.2 10.4 15.6

Manual Integrations

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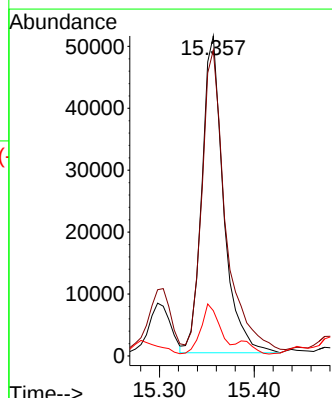
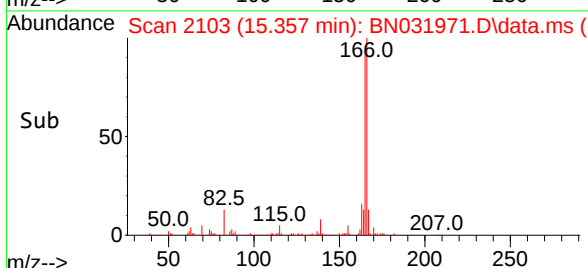
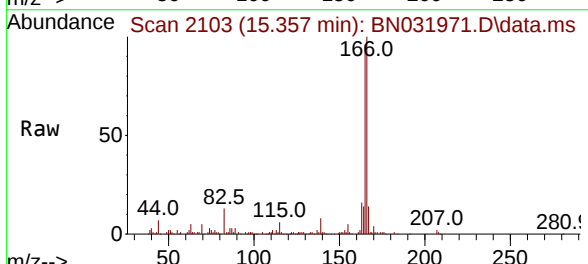
Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/14/2024

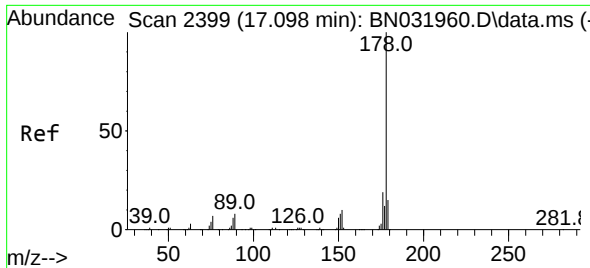
Supervised By :mohammad  
 ahmed  
 06/14/2024



#61  
 Fluorene  
 Concen: 1.704 ng/ul  
 RT: 15.357 min Scan# 2103  
 Delta R.T. -0.000 min  
 Lab File: BN031971.D  
 Acq: 13 Jun 2024 11:01

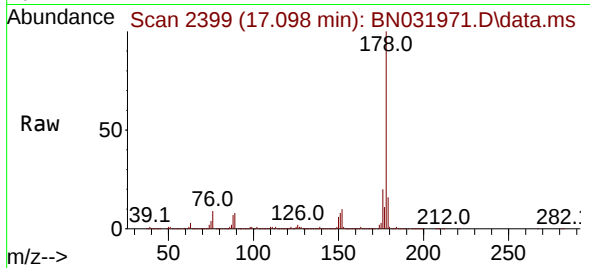
Tgt Ion:166 Resp: 81241  
 Ion Ratio Lower Upper  
 166 100  
 165 95.6 80.3 120.5  
 167 14.1 11.3 16.9





#72  
Phenanthrene  
Concen: 25.726 ng/ul  
RT: 17.098 min Scan# 2399  
Delta R.T. -0.000 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BHC25DL

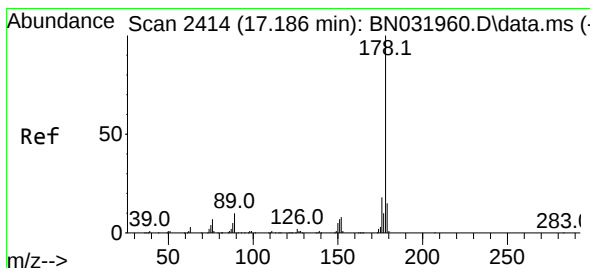
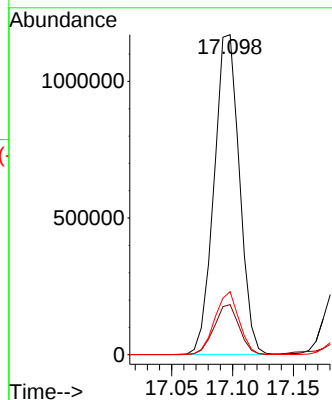


Tgt Ion:178 Resp: 1694219  
Ion Ratio Lower Upper  
178 100  
179 15.7 12.6 19.0  
176 19.7 15.8 23.6

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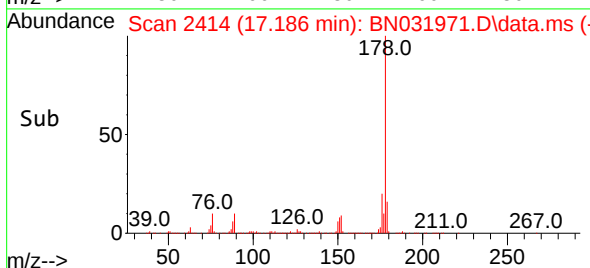
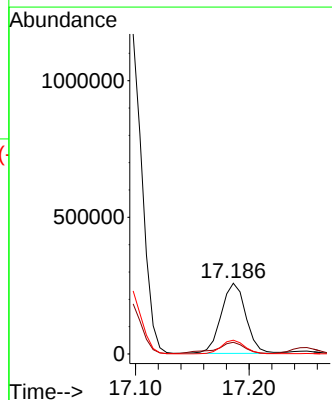
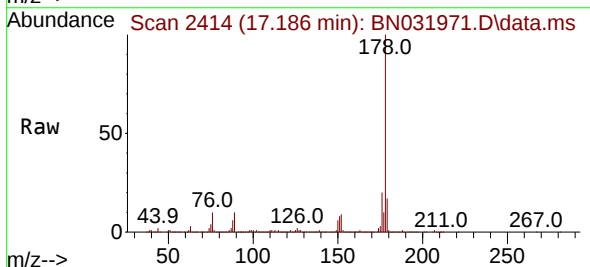
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/14/2024

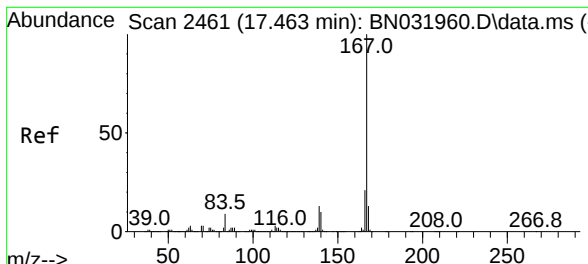
Supervised By :mohammad  
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06/14/2024



#74  
Anthracene  
Concen: 5.843 ng/ul  
RT: 17.186 min Scan# 2414  
Delta R.T. -0.000 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Tgt Ion:178 Resp: 389934  
Ion Ratio Lower Upper  
178 100  
179 16.5 11.8 17.6  
176 19.6 14.8 22.2



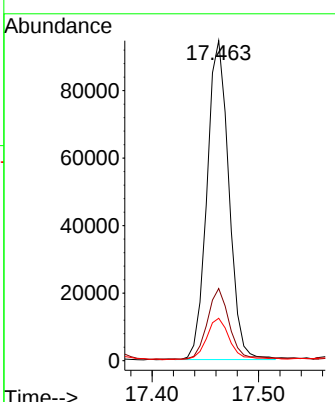
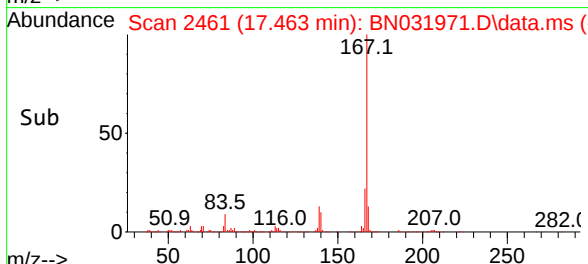
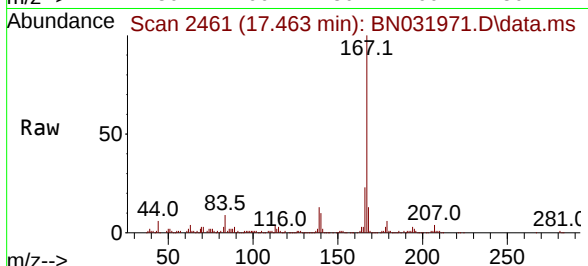


#77  
 Carbazole  
 Concen: 2.358 ng/ul  
 RT: 17.463 min Scan# 2461  
 Delta R.T. -0.000 min  
 Lab File: BN031971.D  
 Acq: 13 Jun 2024 11:01

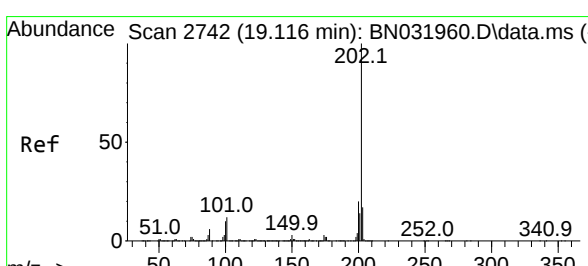
Instrument : BNA\_N  
 ClientSampleId : BHC25DL

|             |             |
|-------------|-------------|
| Tgt Ion:167 | Resp: 13417 |
| Ion Ratio   | Lower Upper |
| 167 100     |             |
| 166 22.6    | 17.9 26.9   |
| 139 13.3    | 10.5 15.7   |

Manual Integrations  
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 Supervised By :mohammad ahmed 06/14/2024

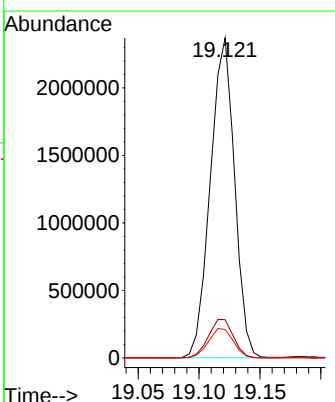
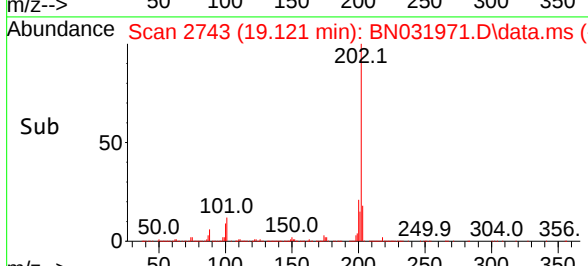
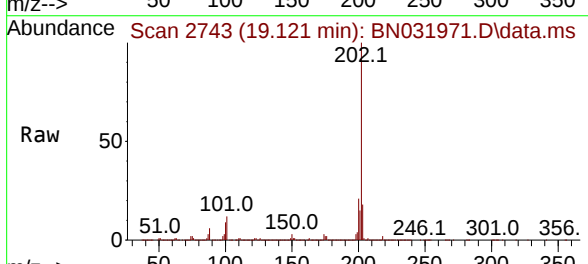


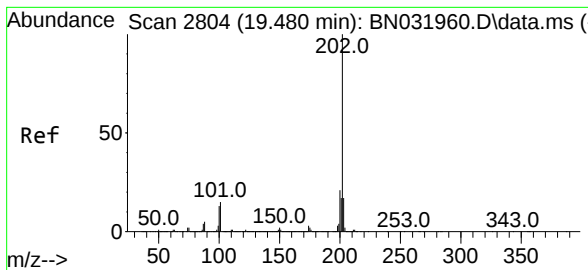
Supervised By :mohammad ahmed  
 06/14/2024



#80  
 Fluoranthene  
 Concen: 45.033 ng/ul  
 RT: 19.121 min Scan# 2743  
 Delta R.T. 0.006 min  
 Lab File: BN031971.D  
 Acq: 13 Jun 2024 11:01

|             |               |
|-------------|---------------|
| Tgt Ion:202 | Resp: 3275569 |
| Ion Ratio   | Lower Upper   |
| 202 100     |               |
| 101 11.9    | 10.3 15.5     |
| 100 8.9     | 8.0 12.0      |





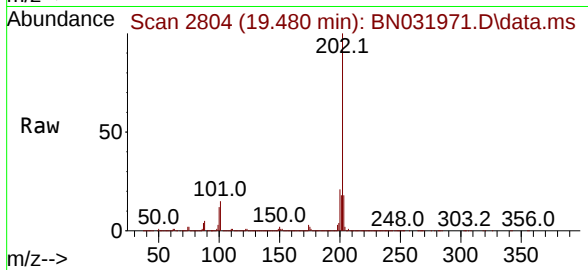
#82  
 Pyrene  
 Concen: 34.053 ng/ul  
 RT: 19.480 min Scan# 2100  
 Delta R.T. -0.006 min  
 Lab File: BN031971.D  
 Acq: 13 Jun 2024 11:01

Instrument :

BNA\_N

ClientSampleId :

BHC25DL



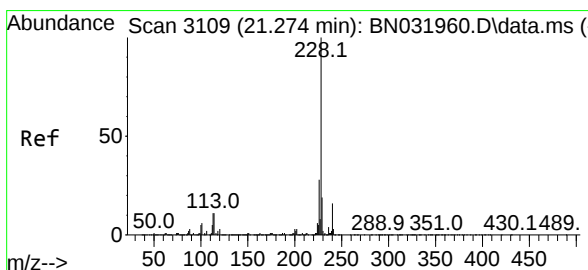
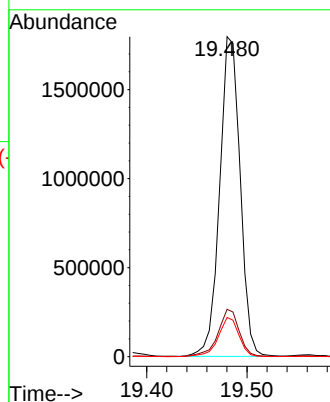
Tgt Ion:202 Resp: 254132  
 Ion Ratio Lower Upper  
 202 100  
 101 14.8 12.6 18.8  
 100 12.2 10.2 15.2

Manual Integrations

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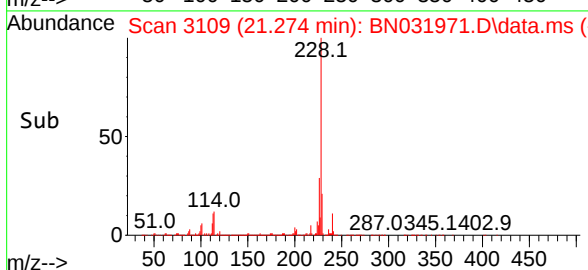
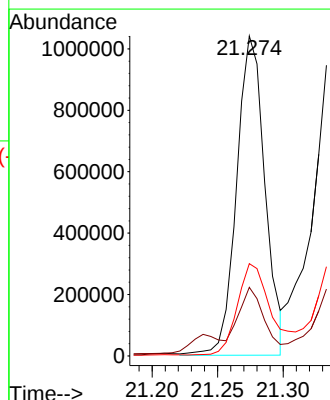
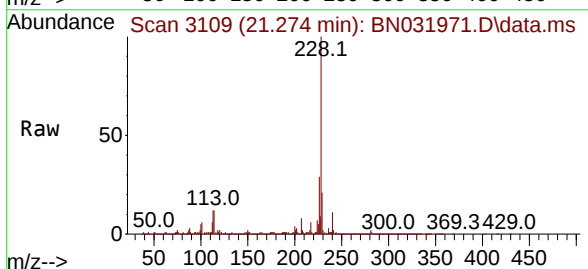
Reviewed By :Jagrut Upadhyay 06/14/2024  
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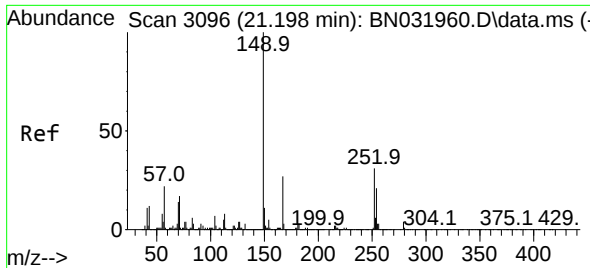
Supervised By :mohammad  
 ahmed  
 06/14/2024



#85  
 Benzo(a)anthracene  
 Concen: 20.568 ng/ul  
 RT: 21.274 min Scan# 3109  
 Delta R.T. -0.000 min  
 Lab File: BN031971.D  
 Acq: 13 Jun 2024 11:01

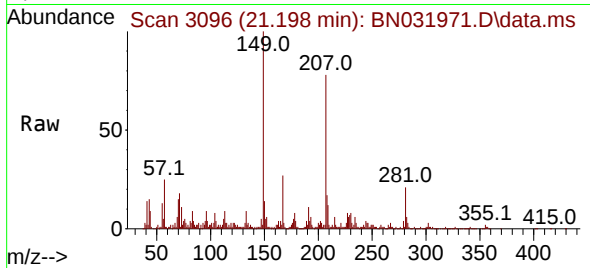
Tgt Ion:228 Resp: 1565849  
 Ion Ratio Lower Upper  
 228 100  
 229 21.5 16.7 25.1  
 226 28.8 22.8 34.2





#86  
Bis(2-ethylhexyl)phthalate  
Concen: 2.624 ng/ul  
RT: 21.198 min Scan# 3096  
Delta R.T. -0.006 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BHC25DL

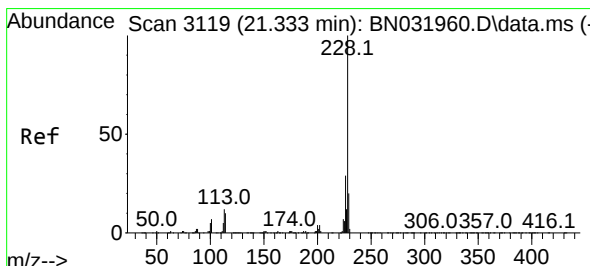
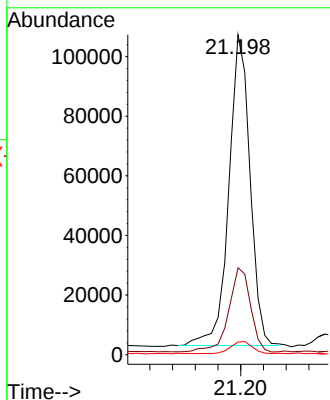
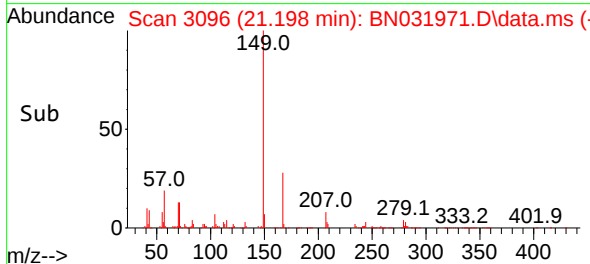


Tgt Ion:149 Resp: 13481  
Ion Ratio Lower Upper  
149 100  
167 27.2 21.4 32.0  
279 4.0 3.3 4.9

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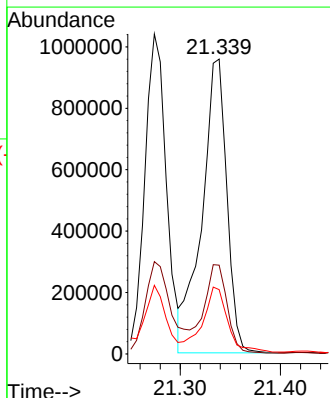
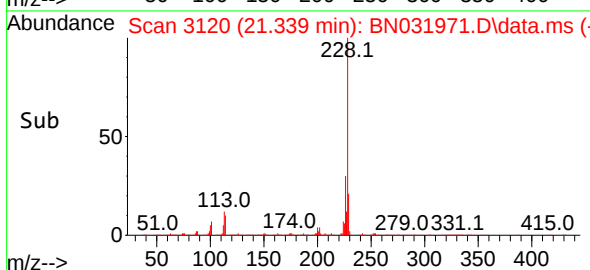
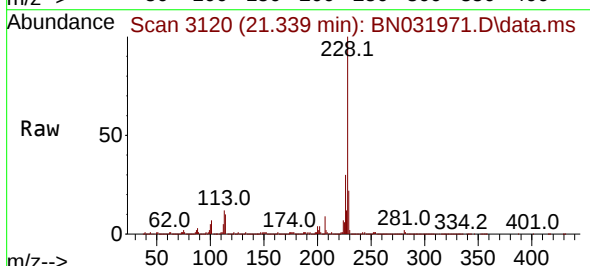
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/14/2024

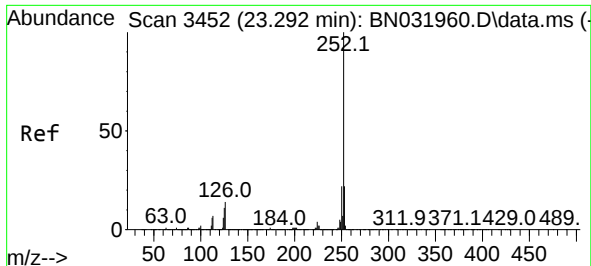
Supervised By :mohammad  
ahmed  
06/14/2024



#87  
Chrysene  
Concen: 23.291 ng/ul  
RT: 21.339 min Scan# 3120  
Delta R.T. 0.006 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

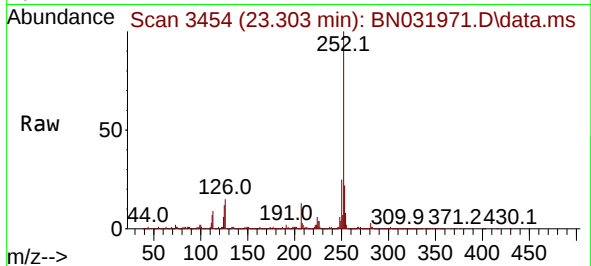
Tgt Ion:228 Resp: 1656214  
Ion Ratio Lower Upper  
228 100  
226 30.1 23.7 35.5  
229 21.8 15.1 22.7





#90  
Benzo(b)fluoranthene  
Concen: 26.363 ng/ul  
RT: 23.303 min Scan# 3452  
Delta R.T. 0.012 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BHC25DL

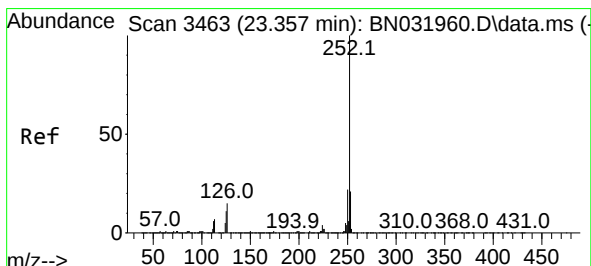
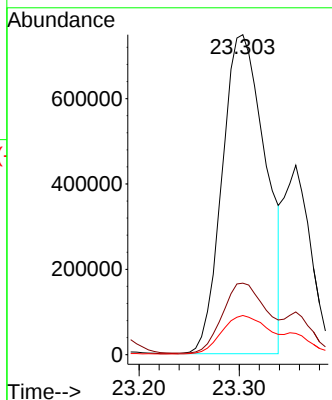
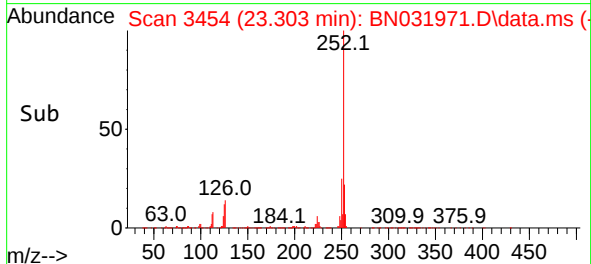


Tgt Ion:252 Resp: 2250018  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.0 25.6  
125 12.3 9.2 13.8

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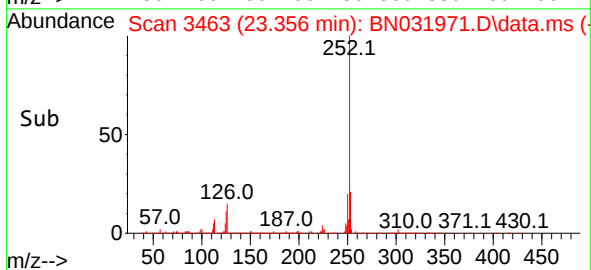
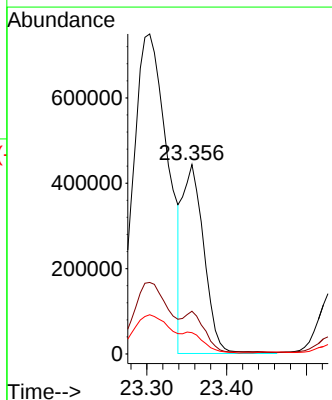
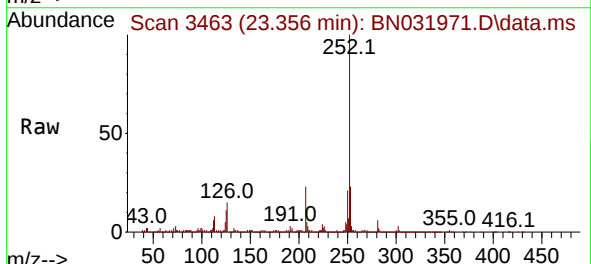
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/14/2024

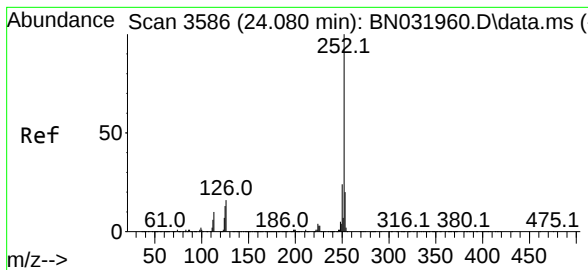
Supervised By :mohammad  
ahmed  
06/14/2024



#91  
Benzo(k)fluoranthene  
Concen: 9.907 ng/ul m  
RT: 23.356 min Scan# 3463  
Delta R.T. 0.006 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

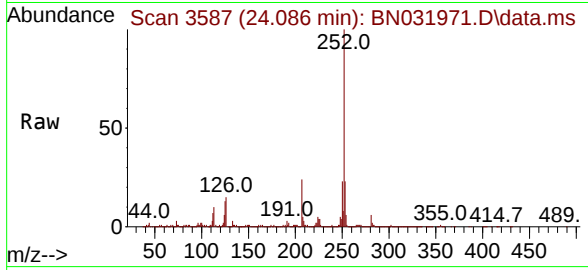
Tgt Ion:252 Resp: 829744  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.6 26.4  
125 11.3 9.4 14.2





#93  
Benzo(a)pyrene  
Concen: 12.628 ng/ul  
RT: 24.086 min Scan# 3586  
Delta R.T. 0.006 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BHC25DL

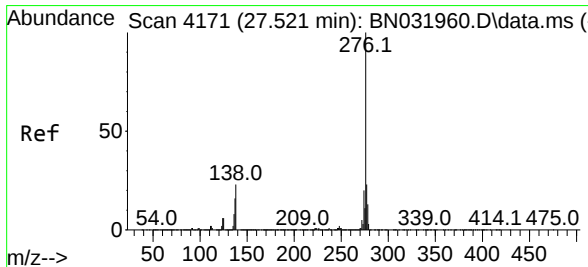
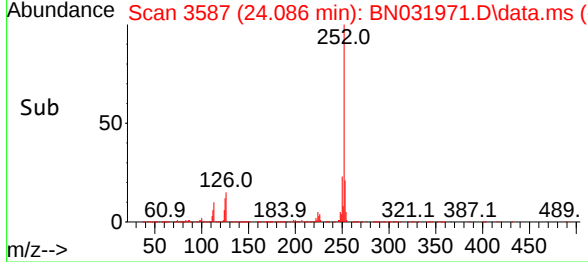
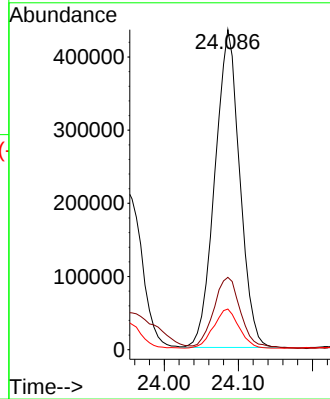


Tgt Ion:252 Resp: 100942  
Ion Ratio Lower Upper  
252 100  
253 22.6 16.6 24.8  
125 12.7 9.8 14.8

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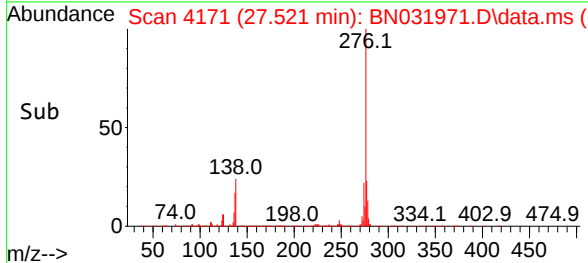
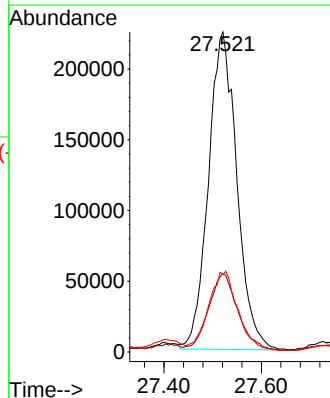
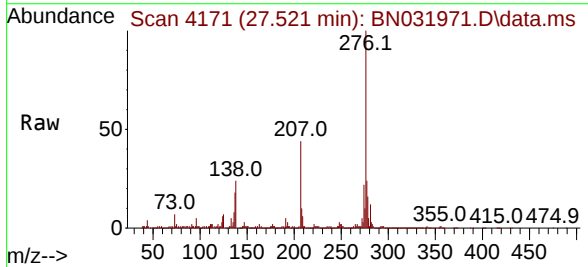
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/14/2024

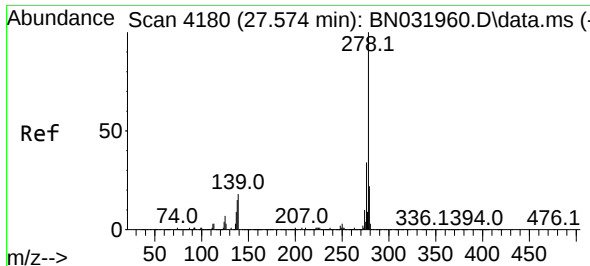
Supervised By :mohammad  
ahmed  
06/14/2024



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 9.866 ng/ul  
RT: 27.521 min Scan# 4171  
Delta R.T. 0.006 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

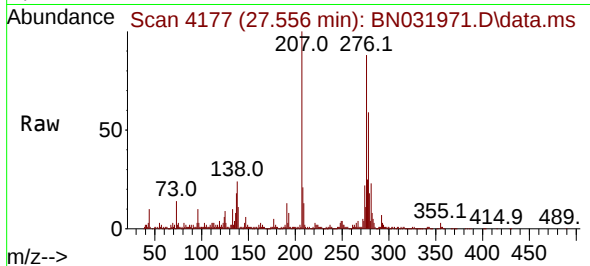
Tgt Ion:276 Resp: 908766  
Ion Ratio Lower Upper  
276 100  
138 24.4 18.1 27.1  
277 24.2 18.2 27.2





#95  
Dibenzo(a,h)anthracene  
Concen: 3.829 ng/ul  
RT: 27.556 min Scan# 4180  
Delta R.T. -0.024 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BHC25DL

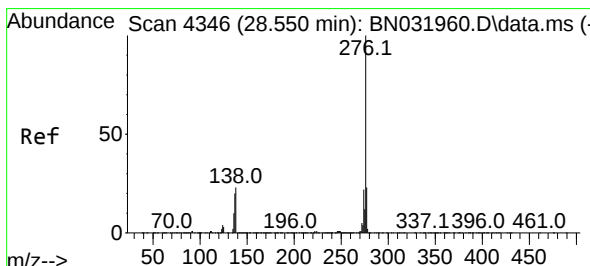
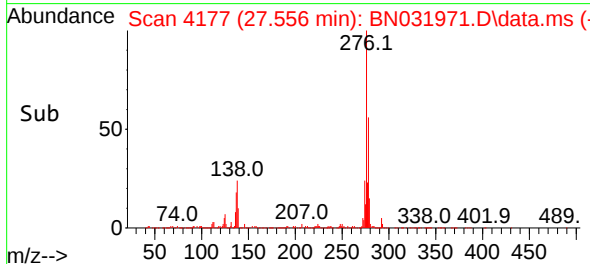
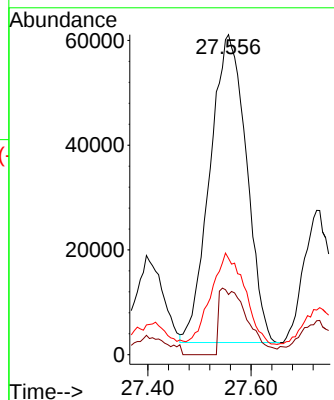


Tgt Ion:278 Resp: 287930  
Ion Ratio Lower Upper  
278 100  
139 18.8 15.0 22.6  
279 30.1 17.4 26.0

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

Supervised By :mohammad  
ahmed  
06/14/2024



#96  
Benzo(g,h,i)perylene  
Concen: 1.781 ng/ul m  
RT: 28.550 min Scan# 4346  
Delta R.T. 0.006 min  
Lab File: BN031971.D  
Acq: 13 Jun 2024 11:01

Tgt Ion:276 Resp: 130411  
Ion Ratio Lower Upper  
276 100  
138 28.8 20.9 31.3  
277 27.7 18.0 27.0

