

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060324\  
 Data File : BG061422.D  
 Acq On : 3 Jun 2024 14:02  
 Operator : MA/JU  
 Sample : P2588-14DL 5X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6D9DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/05/2024

Quant Time: Jun 03 23:29:25 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.872  | 152  | 27152    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.663 | 136  | 105821   | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.506 | 164  | 85377    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.255 | 188  | 221390   | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 21.509 | 240  | 238318   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.600 | 264  | 277439   | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.331  | 96   | 355      | 0.732  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.748  | 84   | 3282     | 1.901  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.061  | 99   | 8907     | 3.995  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.202  | 67   | 6168     | 4.401  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.414  | 132  | 7673     | 4.650  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.595  | 113  | 3934     | 2.069  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.036  | 128  | 3810     | 4.676  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.752  | 143  | 4323     | 4.534  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.305 | 165  | 8743     | 4.703  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.810 | 131  | 3732     | 1.535  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.912 | 166  | 34382    | 5.192  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.200 | 160  | 37931    | 5.510  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.764 | 143  | 2350m    | 2.871  | ng/u1  | 0.03     |
| 60) Fluorene-d10              | 15.505 | 176  | 31830    | 5.568  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d       | 0.000  | ng/u1  |          |
| 73) Anthracene-d10            | 17.355 | 188  | 54269m   | 5.560  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.653 | 212  | 73897    | 6.039  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.388 | 264  | 77660    | 5.822  | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 61) Fluorene                  | 15.557 | 166  | 6816     | 1.100  | ng/u1# | 98       |
| 72) Phenanthrene              | 17.302 | 178  | 174401   | 16.230 | ng/u1  | 99       |
| 74) Anthracene                | 17.391 | 178  | 18243    | 1.642  | ng/u1  | 97       |
| 77) Carbazole                 | 17.661 | 167  | 12430    | 1.375  | ng/u1  | 93       |
| 80) Fluoranthene              | 19.318 | 202  | 329327   | 22.435 | ng/u1  | 99       |
| 82) Pyrene                    | 19.682 | 202  | 283963   | 18.636 | ng/u1  | 100      |
| 85) Benzo(a)anthracene        | 21.492 | 228  | 143738   | 8.741  | ng/u1  | 97       |
| 86) Bis(2-ethylhexyl)phtha... | 21.403 | 149  | 20454    | 2.640  | ng/u1# | 97       |
| 87) Chrysene                  | 21.556 | 228  | 159917   | 10.562 | ng/u1  | 95       |
| 90) Benzo(b)fluoranthene      | 23.624 | 252  | 212485   | 12.863 | ng/u1  | 97       |
| 91) Benzo(k)fluoranthene      | 23.683 | 252  | 59082m   | 3.523  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.447 | 252  | 119096   | 7.593  | ng/u1# | 92       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.090 | 276  | 89412    | 4.714  | ng/u1  | 98       |
| 95) Dibenzo(a,h)anthracene    | 28.119 | 278  | 25018m   | 1.600  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 29.183 | 276  | 72008    | 4.772  | ng/u1  | 95       |
| -----                         |        |      |          |        |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060324\  
 Data File : BG061422.D  
 Acq On : 3 Jun 2024 14:02  
 Operator : MA/JU  
 Sample : P2588-14DL 5X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

BH6D9DL

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/05/2024

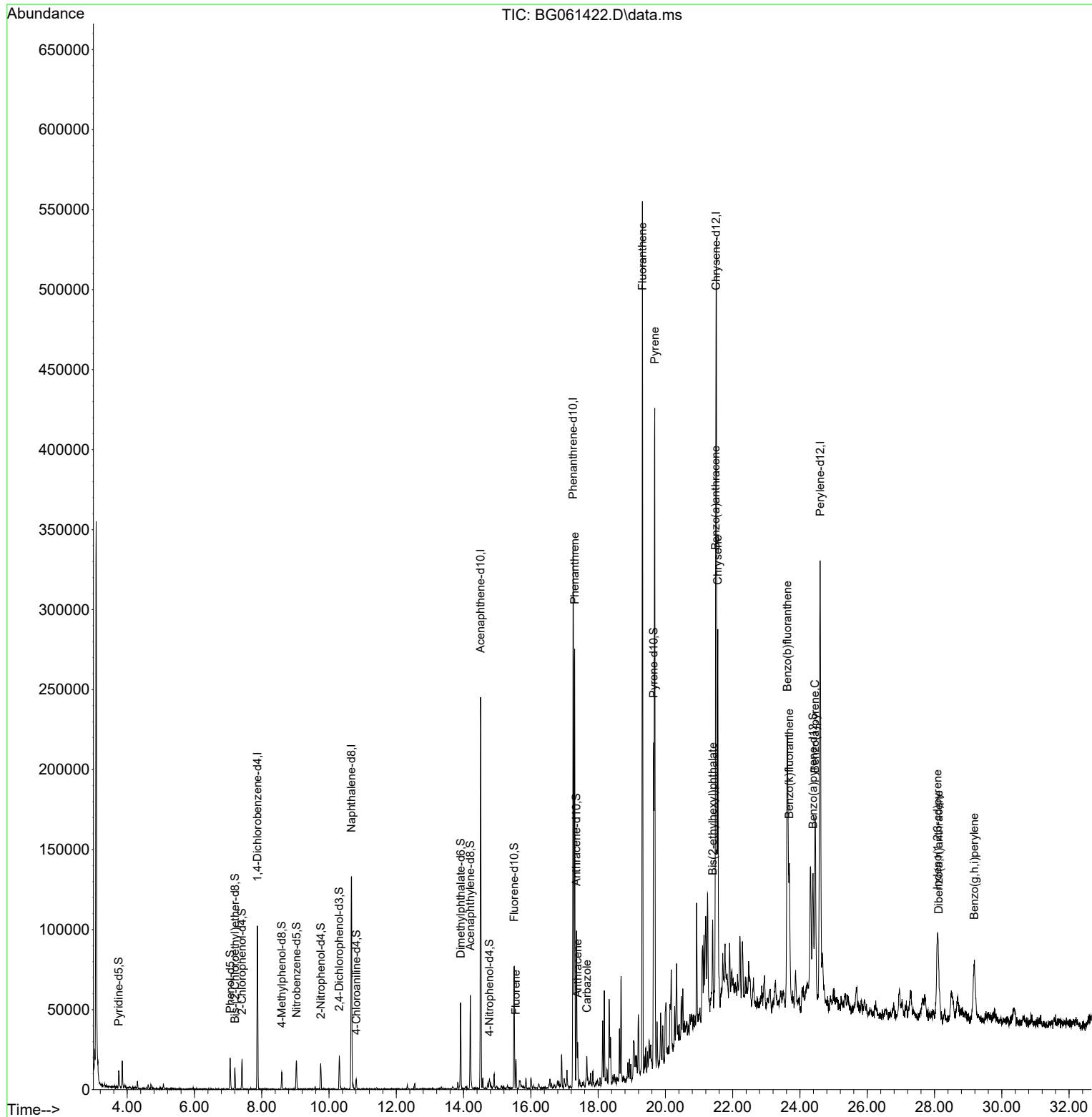
Quant Time: Jun 03 23:29:25 2024

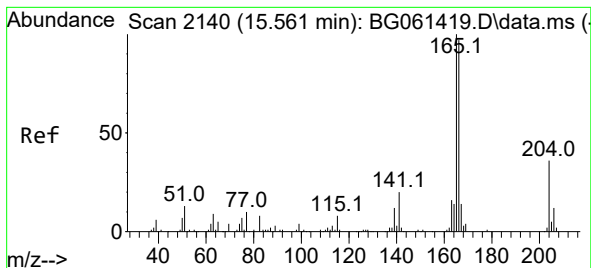
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Thu May 30 22:54:48 2024

Response via : Initial Calibration





#61

Fluorene

Concen: 1.100 ng/ul

RT: 15.557 min Scan# 2140

Delta R.T. -0.003 min

Lab File: BG061422.D

Acq: 3 Jun 2024 14:02

Instrument :

BNA\_G

ClientSampleId :

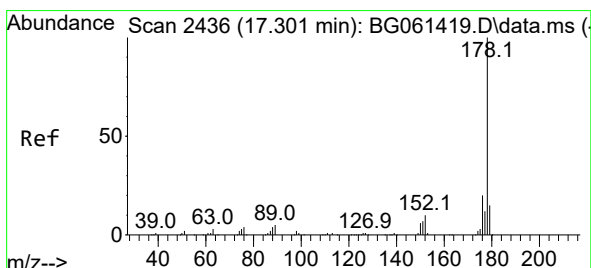
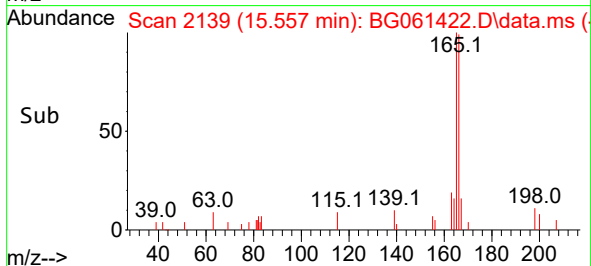
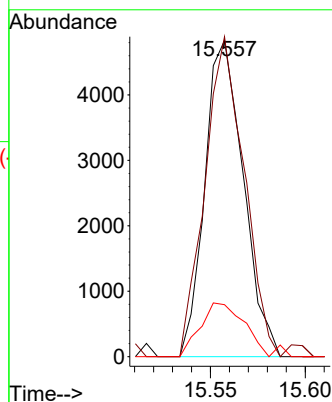
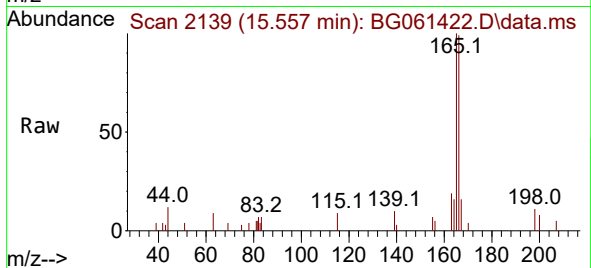
BH6D9DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 6810  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.2 | 81.8  | 122.8 |
| 167       | 16.4  | 10.6  | 16.0  |

Manual Integrations

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Supervised By :mohammad ahmed 06/05/2024



#72

Phenanthrene

Concen: 16.230 ng/ul

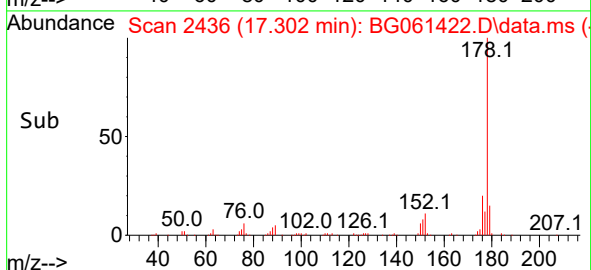
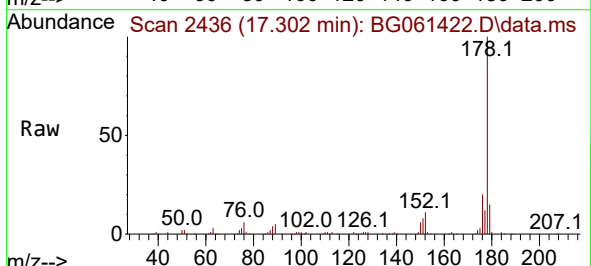
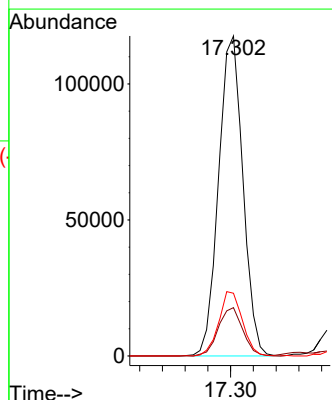
RT: 17.302 min Scan# 2436

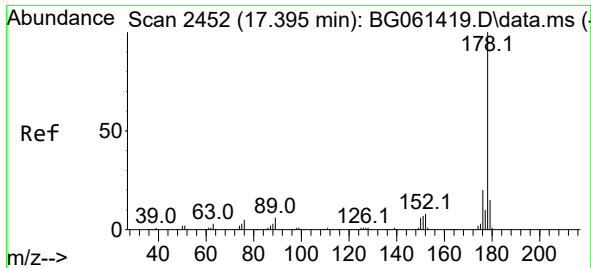
Delta R.T. 0.003 min

Lab File: BG061422.D

Acq: 3 Jun 2024 14:02

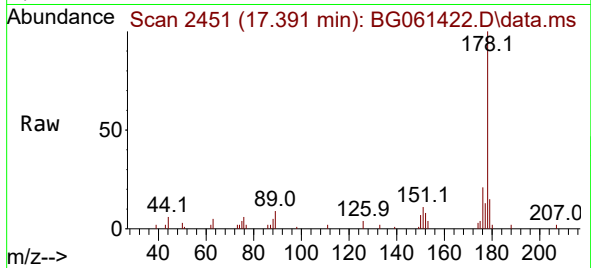
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 174401 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.1  | 12.7  | 19.1   |
| 176       | 19.6  | 15.5  | 23.3   |





#74  
Anthracene  
Concen: 1.642 ng/ul  
RT: 17.391 min Scan# 2451  
Delta R.T. -0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02

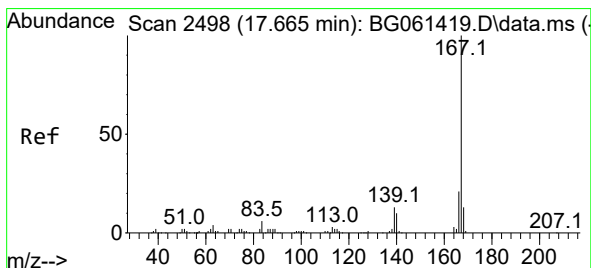
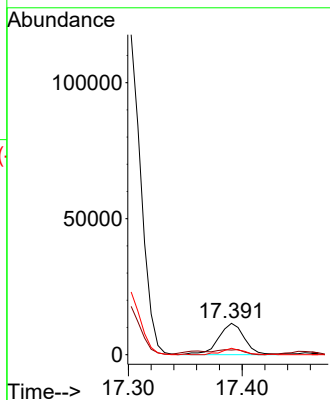
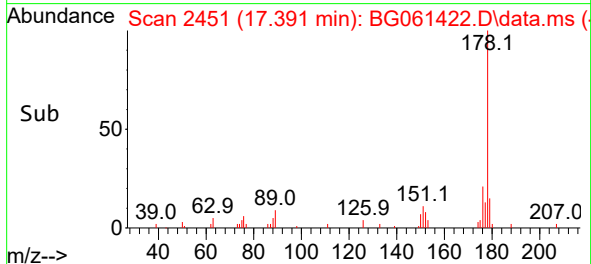
Instrument :  
BNA\_G  
ClientSampleId :  
BH6D9DL



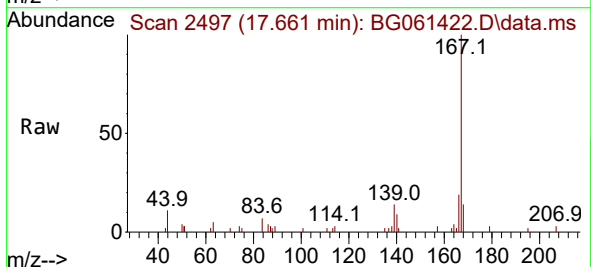
Tgt Ion:178 Resp: 1824  
Ion Ratio Lower Upper  
178 100  
179 15.0 11.8 17.6  
176 20.6 14.9 22.3

Manual Integrations  
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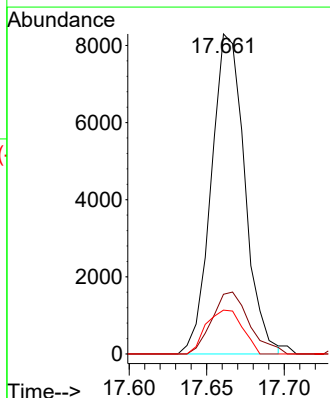
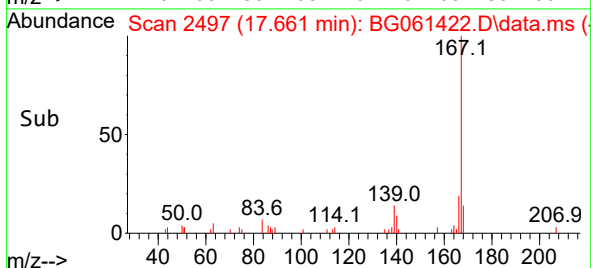
Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/05/2024

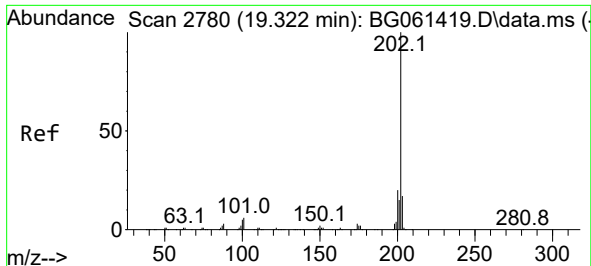


#77  
Carbazole  
Concen: 1.375 ng/ul  
RT: 17.661 min Scan# 2497  
Delta R.T. -0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02



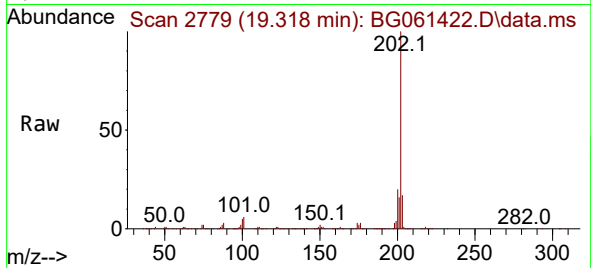
Tgt Ion:167 Resp: 12430  
Ion Ratio Lower Upper  
167 100  
166 18.7 18.6 28.0  
139 13.7 10.6 15.8





#80  
Fluoranthene  
Concen: 22.435 ng/ul  
RT: 19.318 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02

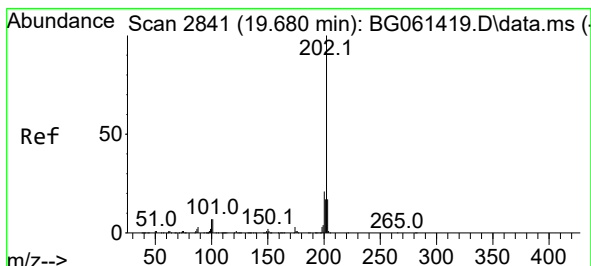
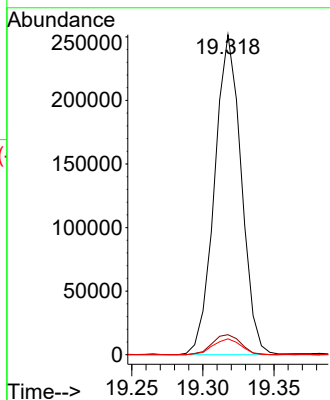
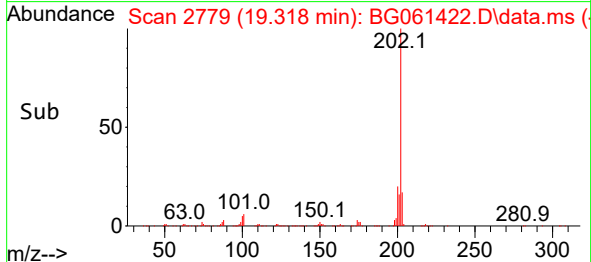
Instrument :  
BNA\_G  
ClientSampleId :  
BH6D9DL



Tgt Ion:202 Resp: 32932  
Ion Ratio Lower Upper  
202 100  
101 6.3 4.8 7.2  
100 4.9 4.1 6.1

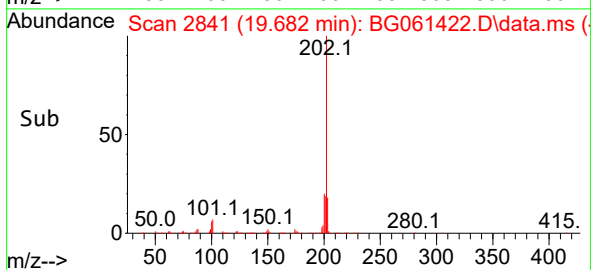
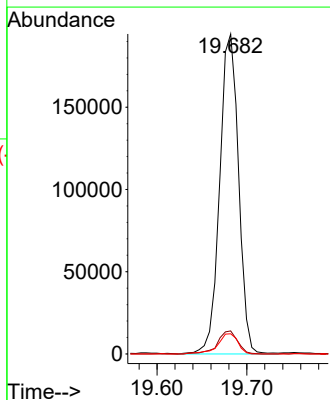
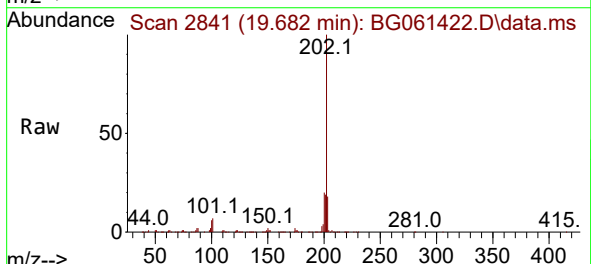
Manual Integrations  
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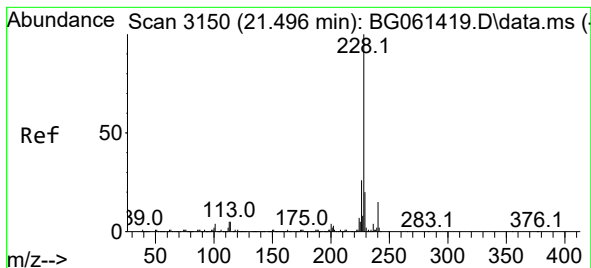
Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/05/2024



#82  
Pyrene  
Concen: 18.636 ng/ul  
RT: 19.682 min Scan# 2841  
Delta R.T. 0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02

Tgt Ion:202 Resp: 283963  
Ion Ratio Lower Upper  
202 100  
101 7.2 5.7 8.5  
100 6.3 5.1 7.7





#85

Benzo(a)anthracene

Concen: 8.741 ng/ul

RT: 21.492 min Scan# 3150

Delta R.T. -0.003 min

Lab File: BG061422.D

Acq: 3 Jun 2024 14:02

Instrument :

BNA\_G

ClientSampleId :

BH6D9DL

Tgt Ion:228 Resp: 143738

Ion Ratio Lower Upper

228 100

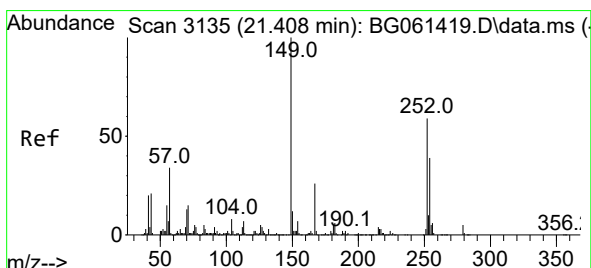
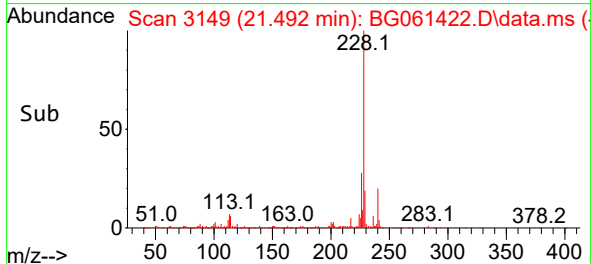
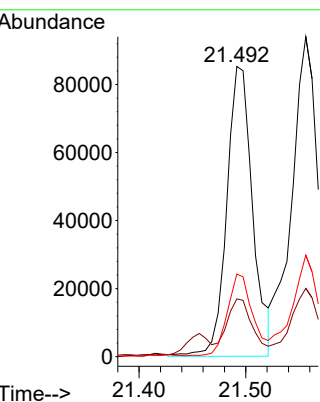
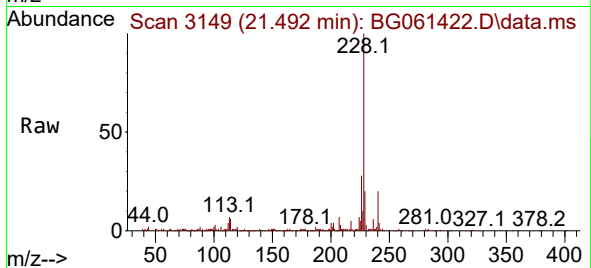
229 19.9 15.2 22.8

226 28.4 21.4 32.2

Manual Integrations

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Supervised By :mohammad ahmed 06/05/2024



#86

Bis(2-ethylhexyl)phthalate

Concen: 2.640 ng/ul

RT: 21.403 min Scan# 3134

Delta R.T. -0.003 min

Lab File: BG061422.D

Acq: 3 Jun 2024 14:02

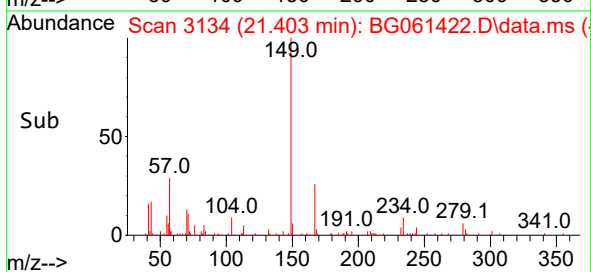
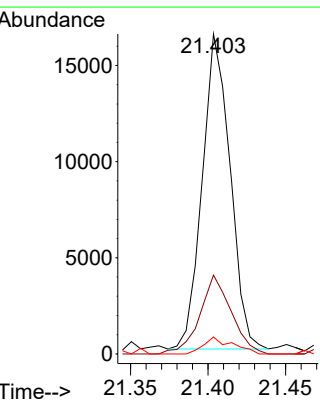
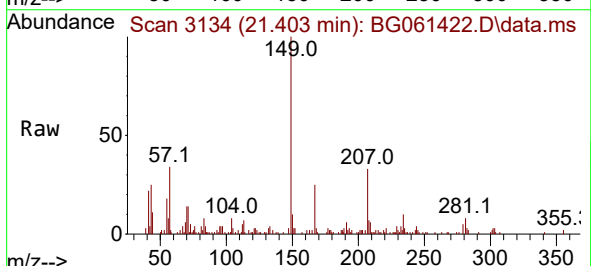
Tgt Ion:149 Resp: 20454

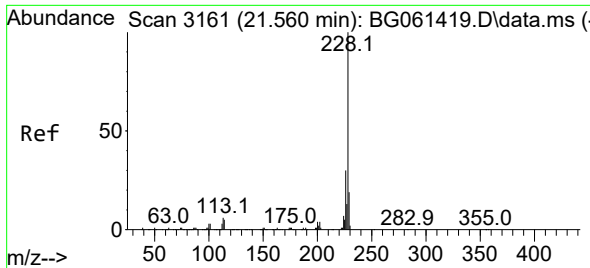
Ion Ratio Lower Upper

149 100

167 24.7 21.1 31.7

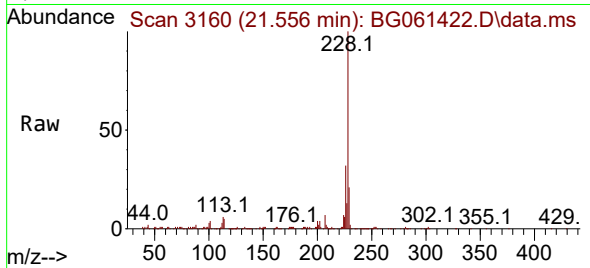
279 5.3 3.3 4.9#





#87  
Chrysene  
Concen: 10.562 ng/ul  
RT: 21.556 min Scan# 3160  
Delta R.T. 0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02

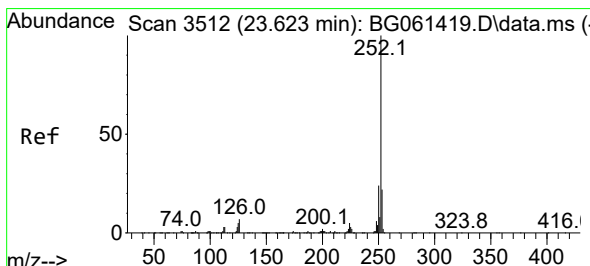
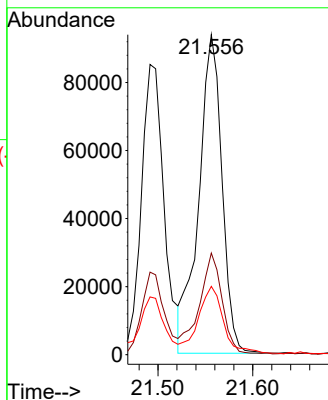
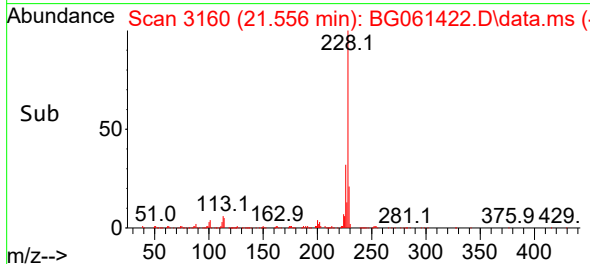
Instrument :  
BNA\_G  
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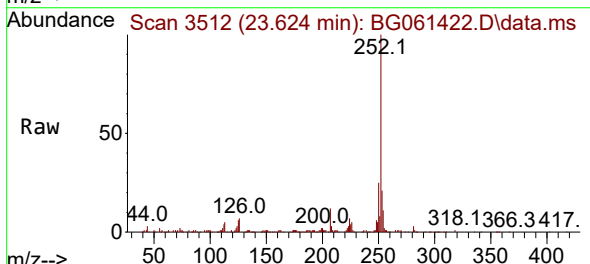
Tgt Ion:228 Resp: 159917  
Ion Ratio Lower Upper  
228 100  
226 31.7 23.4 35.0  
229 21.4 15.4 23.2

Manual Integrations  
APPROVED

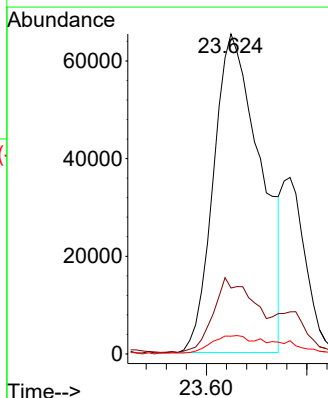
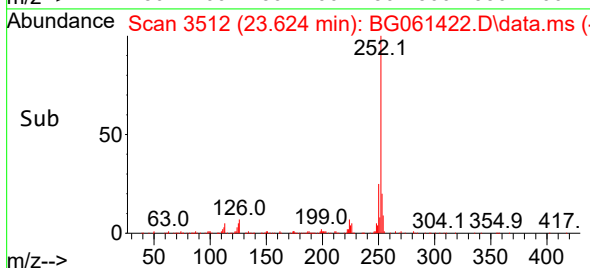
Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/05/2024

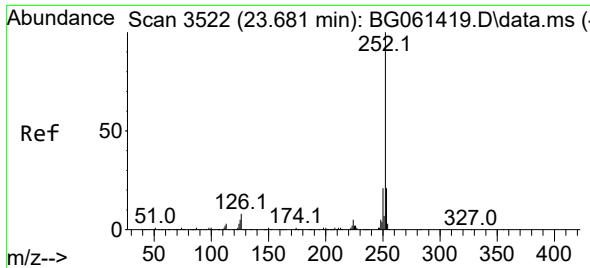


#90  
Benzo(b)fluoranthene  
Concen: 12.863 ng/ul  
RT: 23.624 min Scan# 3512  
Delta R.T. 0.009 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02



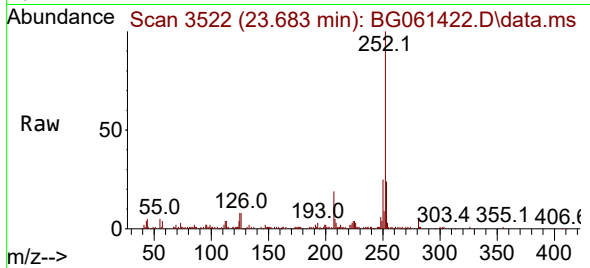
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Ion Ratio Lower Upper  
252 100  
253 20.6 17.8 26.8  
125 5.5 4.6 6.8





#91  
Benzo(k)fluoranthene  
Concen: 3.523 ng/ul m  
RT: 23.683 min Scan# 3522  
Delta R.T. 0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02

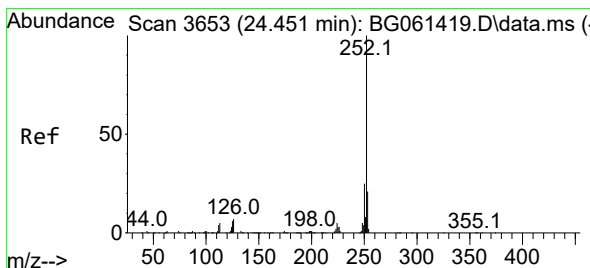
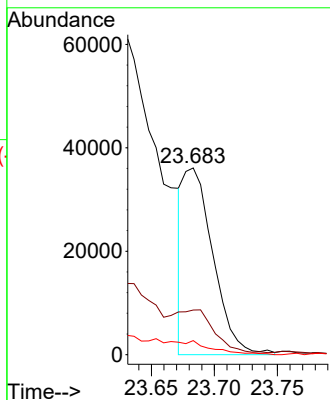
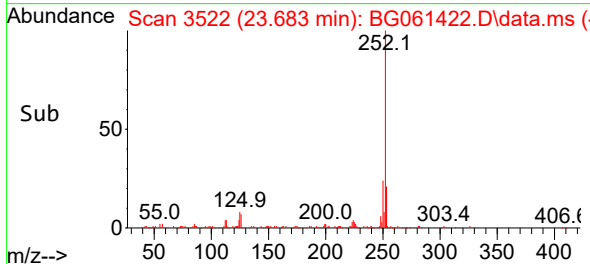
Instrument :  
BNA\_G  
ClientSampleId :  
BH6D9DL



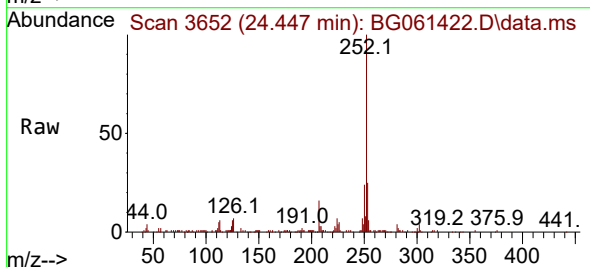
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Ion Ratio Lower Upper  
252 100  
253 23.9 16.0 24.0  
125 7.6 4.3 6.5

Manual Integrations  
APPROVED

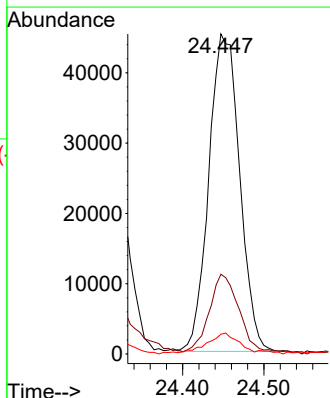
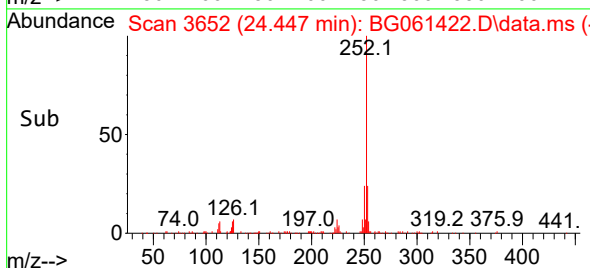
Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/05/2024

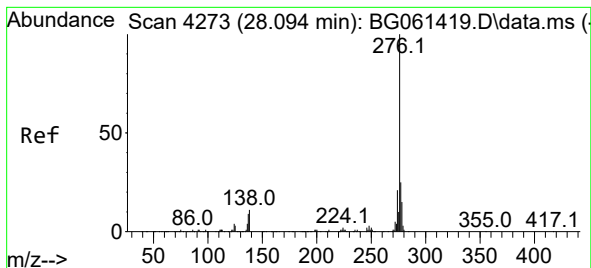


#93  
Benzo(a)pyrene  
Concen: 7.593 ng/ul  
RT: 24.447 min Scan# 3652  
Delta R.T. -0.003 min  
Lab File: BG061422.D  
Acq: 3 Jun 2024 14:02



Tgt Ion:252 Resp: 119096  
Ion Ratio Lower Upper  
252 100  
253 24.9 16.4 24.6  
125 6.2 4.3 6.5





#94

Indeno(1,2,3-cd)pyrene

Concen: 4.714 ng/ul

RT: 28.090 min Scan# 41

Delta R.T. -0.003 min

Lab File: BG061422.D

Acq: 3 Jun 2024 14:02

Instrument :

BNA\_G

ClientSampleId :

BH6D9DL

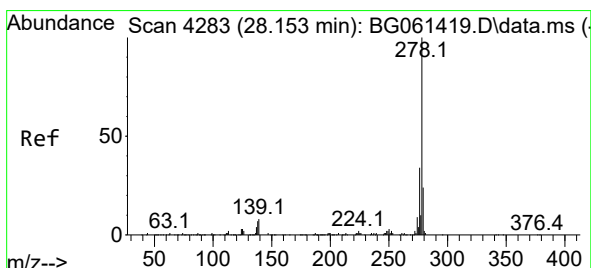
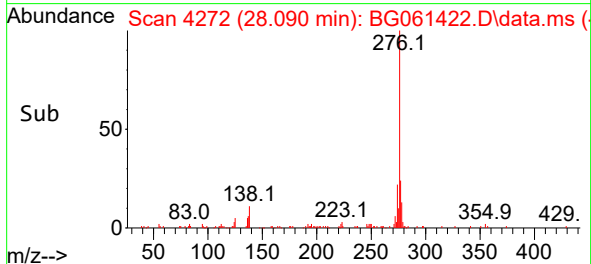
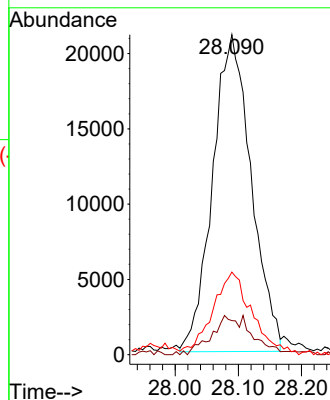
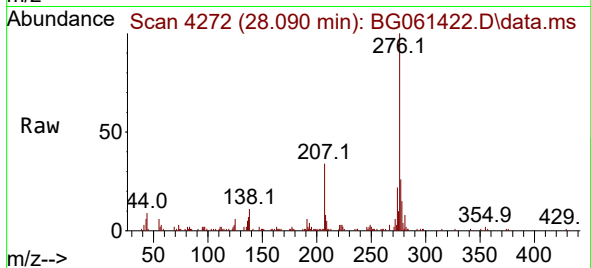
Tgt Ion:276 Resp: 8941

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 10.7  | 8.6   | 13.0  |
| 277 | 25.8  | 19.7  | 29.5  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/05/2024



#95

Dibenzo(a,h)anthracene

Concen: 1.600 ng/ul m

RT: 28.119 min Scan# 4277

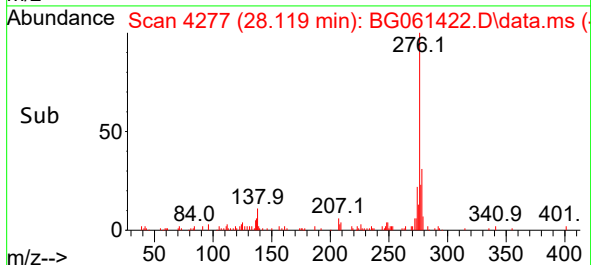
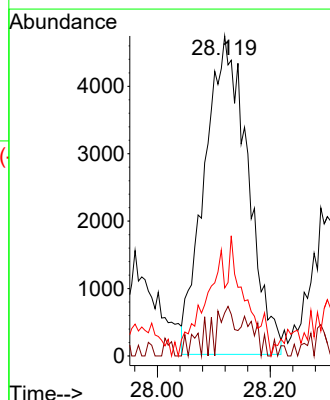
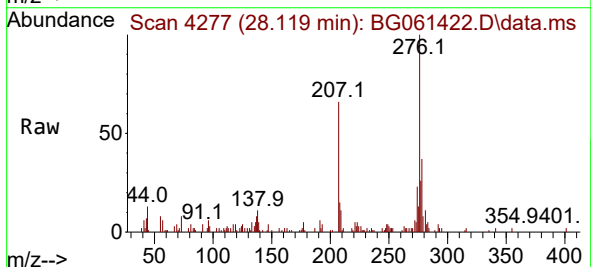
Delta R.T. -0.020 min

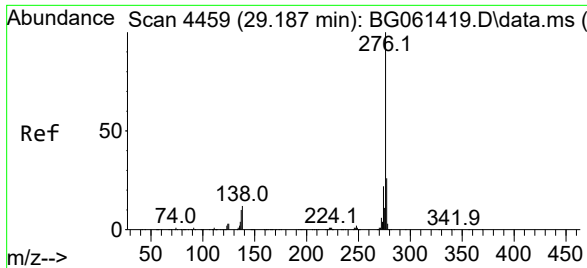
Lab File: BG061422.D

Acq: 3 Jun 2024 14:02

Tgt Ion:278 Resp: 25018

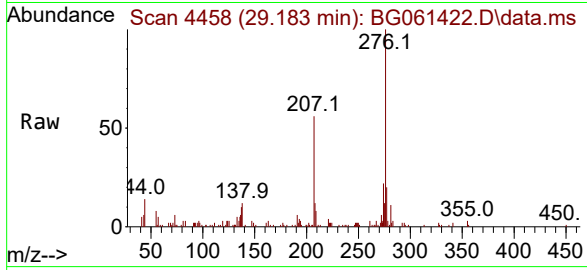
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 13.5  | 6.4   | 9.6#  |
| 279 | 21.3  | 19.9  | 29.9  |





#96  
 Benzo(g,h,i)perylene  
 Concen: 4.772 ng/ul  
 RT: 29.183 min Scan# 4458  
 Delta R.T. 0.009 min  
 Lab File: BG061422.D  
 Acq: 3 Jun 2024 14:02

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6D9DL



Tgt Ion:276 Resp: 72008  
 Ion Ratio Lower Upper  
 276 100  
 138 12.2 8.7 13.1  
 277 20.0 18.2 27.2

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/05/2024

