

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG070323\  
 Data File : BG057978.D  
 Acq On : 4 Jul 2023 7:44  
 Operator : CG/JU  
 Sample : 03247-15  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DCGM1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
 Supervised By :mohammad ahmed 07/05/2023

Quant Time: Jul 04 08:26:32 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG070123.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 04 05:09:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.942  | 152  | 48777    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.745 | 136  | 230227   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.570 | 164  | 155417   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.313 | 188  | 339511   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.567 | 240  | 269304   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.740 | 264  | 336377   | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.377  | 96   | 3652     | 2.622  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.800  | 84   | 3279     | 0.775  | ng/u1  | 0.01     |
| 7) Phenol-d5                  | 7.102  | 99   | 79432    | 15.946 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.260  | 67   | 50744    | 16.904 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.472  | 132  | 61417    | 17.876 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.641  | 113  | 38378    | 10.210 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.099  | 128  | 31419    | 16.744 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.822  | 143  | 35193    | 17.845 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.363 | 165  | 63470    | 16.777 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.880 | 131  | 26401    | 4.603  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.976 | 166  | 207846   | 16.950 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.264 | 160  | 243392   | 18.189 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.769 | 143  | 26386    | 12.179 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.562 | 176  | 184378   | 17.705 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.674 | 200  | 22165    | 12.023 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.413 | 188  | 272025   | 17.267 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.699 | 212  | 309852   | 18.269 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.517 | 264  | 308086   | 17.977 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 72) Phenanthrene              | 17.355 | 178  | 99643    | 5.770  | ng/u1  | 99       |
| 74) Anthracene                | 17.449 | 178  | 19173    | 1.097  | ng/u1  | 97       |
| 80) Fluoranthene              | 19.370 | 202  | 511980   | 26.050 | ng/u1  | 100      |
| 82) Pyrene                    | 19.728 | 202  | 487060   | 24.620 | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.550 | 228  | 326818   | 16.902 | ng/u1  | 98       |
| 87) Chrysene                  | 21.614 | 228  | 318546   | 17.573 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.735 | 252  | 540148   | 25.934 | ng/u1  | 100      |
| 91) Benzo(k)fluoranthene      | 23.794 | 252  | 175131m  | 8.579  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.587 | 252  | 356156   | 19.320 | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.342 | 276  | 274286   | 11.205 | ng/u1  | 99       |
| 95) Dibenzo(a,h)anthracene    | 28.389 | 278  | 63202m   | 3.131  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 29.470 | 276  | 249209m  | 12.464 | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

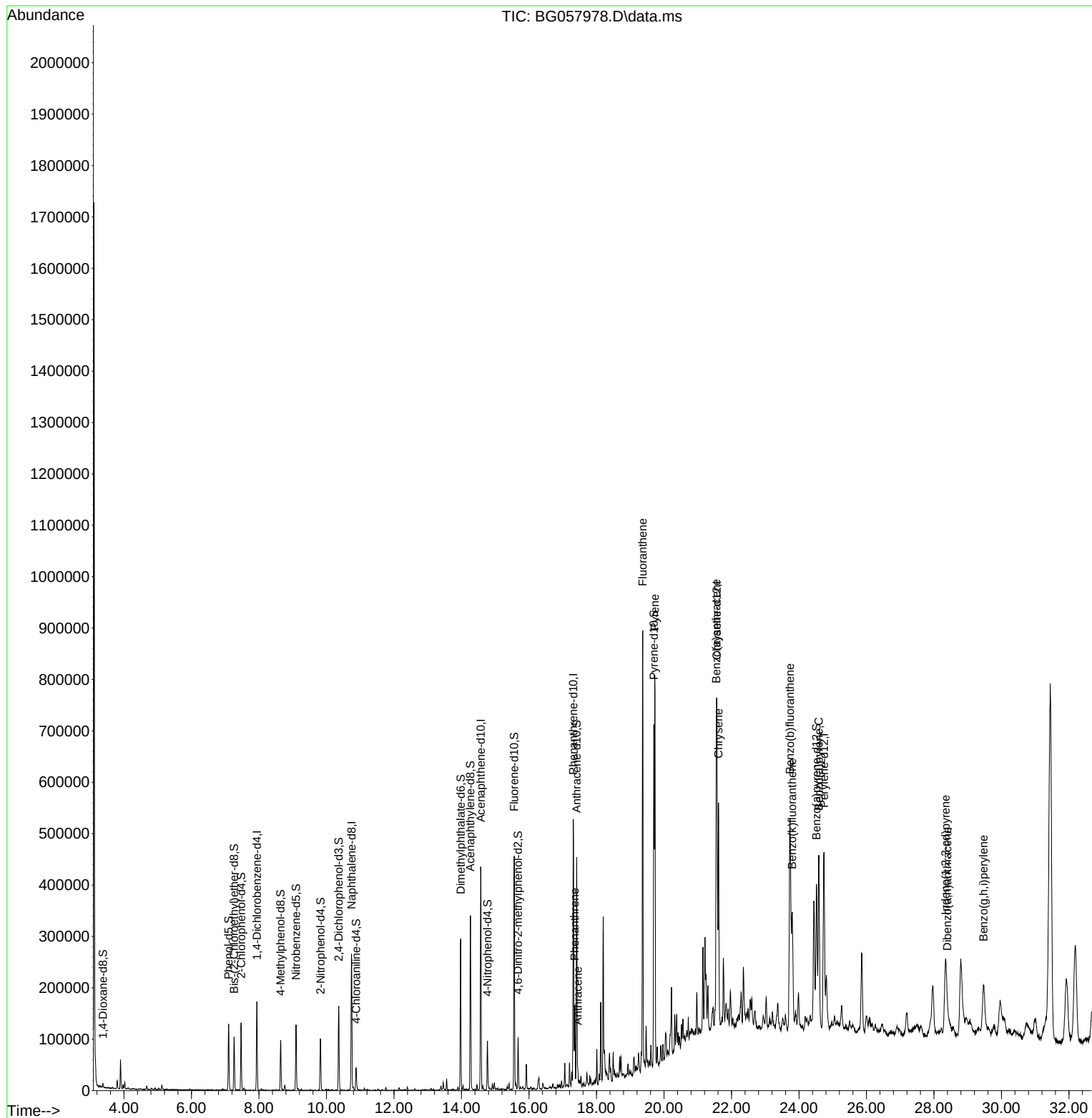
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG070323\  
Data File : BG057978.D  
Acq On : 4 Jul 2023 7:44  
Operator : CG/JU  
Sample : 03247-15  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

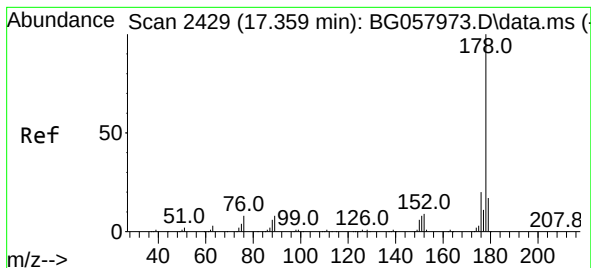
Instrument :  
BNA\_G  
ClientSampleId :  
DCGM1

Quant Time: Jul 04 08:26:32 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG070123.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jul 04 05:09:13 2023  
Response via : Initial Calibration

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APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023





#72

Phenanthrene

Concen: 5.770 ng/ul

RT: 17.355 min Scan# 2429

Delta R.T. -0.005 min

Lab File: BG057978.D

Acq: 4 Jul 2023 7:44

Instrument :

BNA\_G

ClientSampleId :

DCGM1

Tgt Ion:178 Resp: 9964

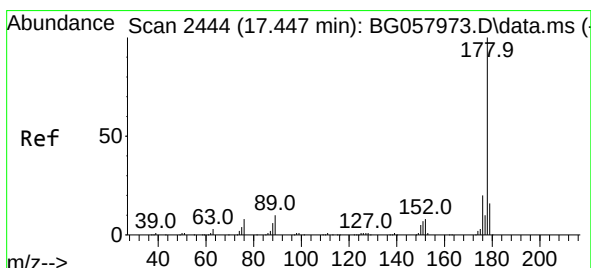
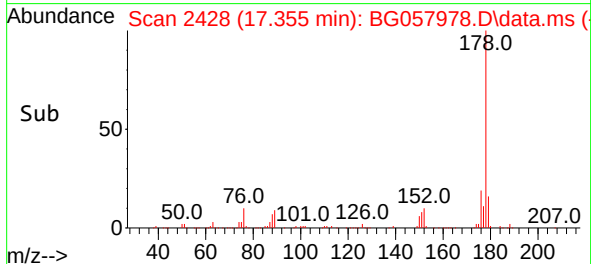
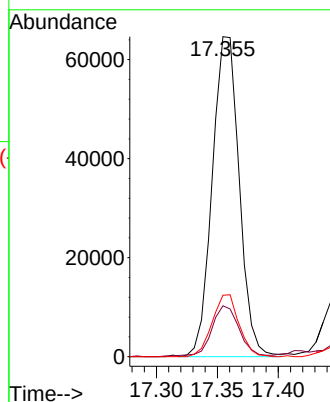
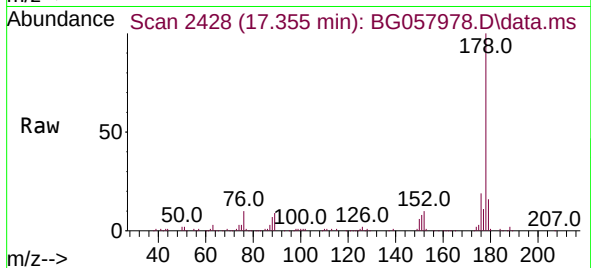
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.9  | 12.8  | 19.2  |
| 176 | 19.2  | 15.7  | 23.5  |

Manual Integrations

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Supervised By :mohammad ahmed 07/05/2023



#74

Anthracene

Concen: 1.097 ng/ul

RT: 17.449 min Scan# 2444

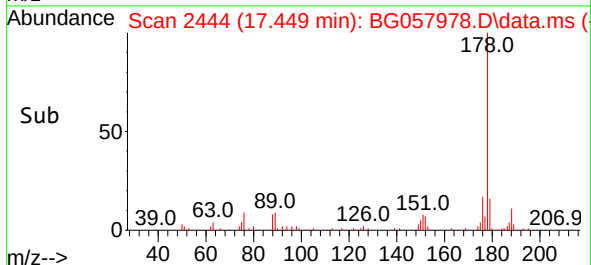
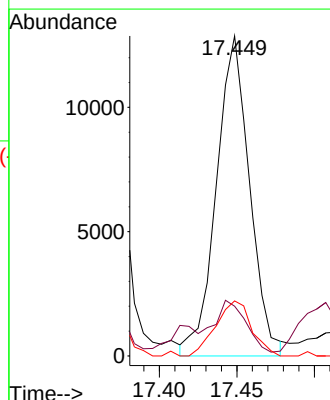
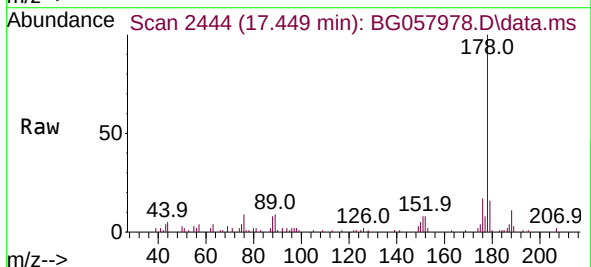
Delta R.T. 0.001 min

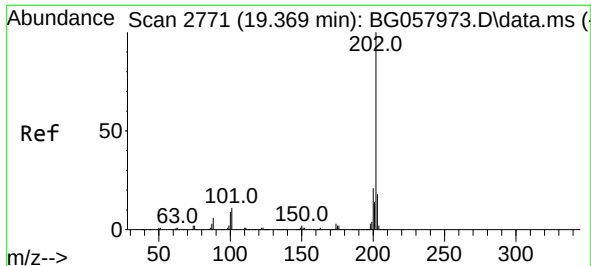
Lab File: BG057978.D

Acq: 4 Jul 2023 7:44

Tgt Ion:178 Resp: 19173

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.5  | 12.6  | 18.8  |
| 176 | 17.2  | 15.4  | 23.2  |





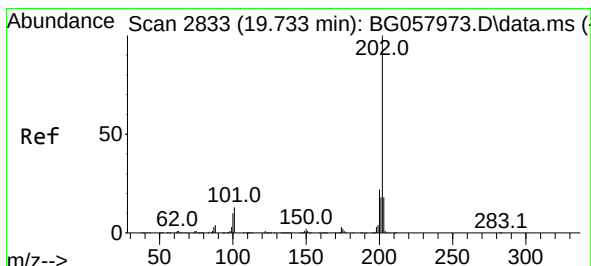
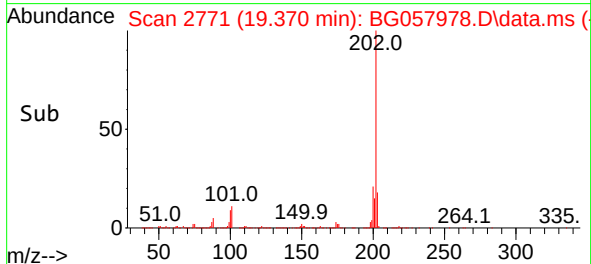
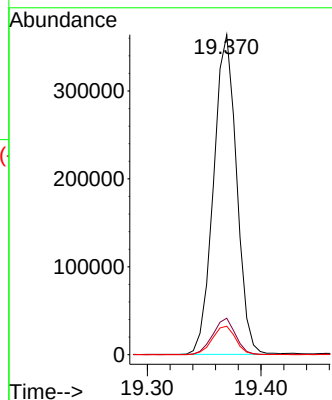
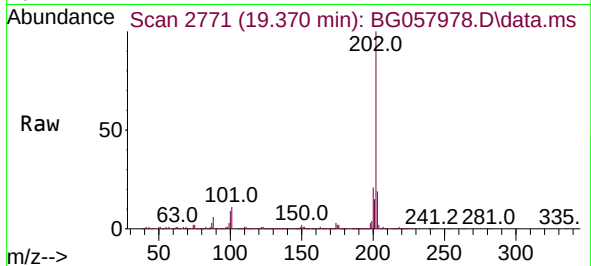
#80  
Fluoranthene  
Concen: 26.050 ng/u1  
RT: 19.370 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: BG057978.D  
Acq: 4 Jul 2023 7:44

Instrument :  
BNA\_G  
ClientSampleId :  
DCGM1

Tgt Ion:202 Resp: 511980  
Ion Ratio Lower Upper  
202 100  
101 11.4 9.1 13.7  
100 8.9 7.1 10.7

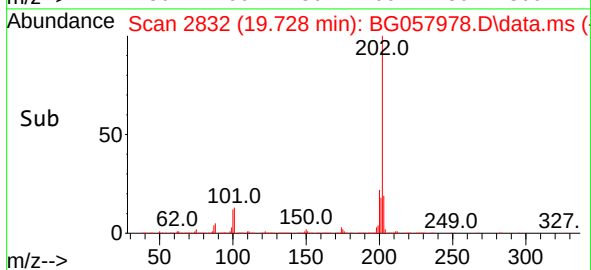
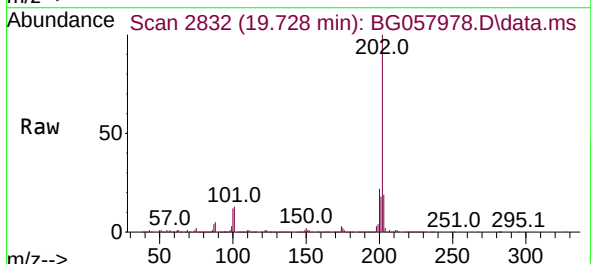
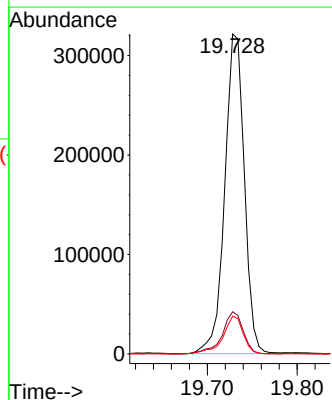
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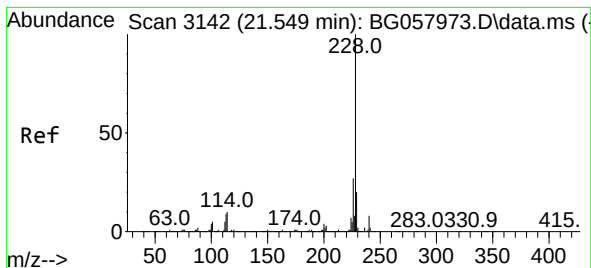
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#82  
Pyrene  
Concen: 24.620 ng/u1  
RT: 19.728 min Scan# 2832  
Delta R.T. -0.005 min  
Lab File: BG057978.D  
Acq: 4 Jul 2023 7:44

Tgt Ion:202 Resp: 487060  
Ion Ratio Lower Upper  
202 100  
101 13.2 10.2 15.2  
100 11.8 8.9 13.3





#85

Benzo(a)anthracene

Concen: 16.902 ng/u1

RT: 21.550 min Scan# 3142

Delta R.T. 0.001 min

Lab File: BG057978.D

Acq: 4 Jul 2023 7:44

Instrument :

BNA\_G

ClientSampleId :

DCGM1

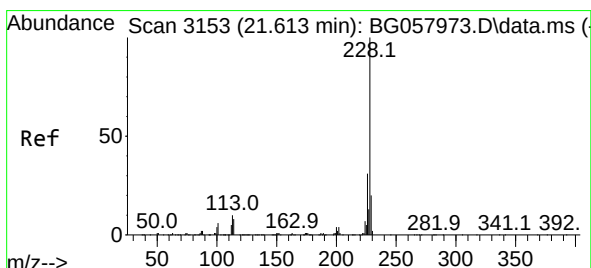
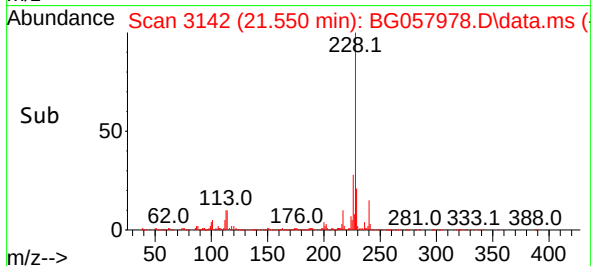
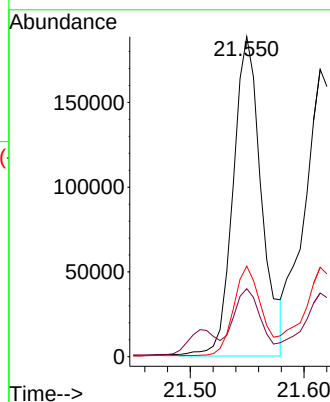
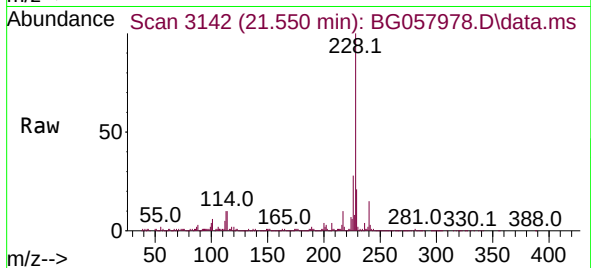
Tgt Ion:228 Resp: 326818  
 Ion Ratio Lower Upper  
 228 100  
 229 21.3 16.0 24.0  
 226 28.3 22.0 33.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/05/2023

Supervised By :mohammad ahmed 07/05/2023



#87

Chrysene

Concen: 17.573 ng/u1

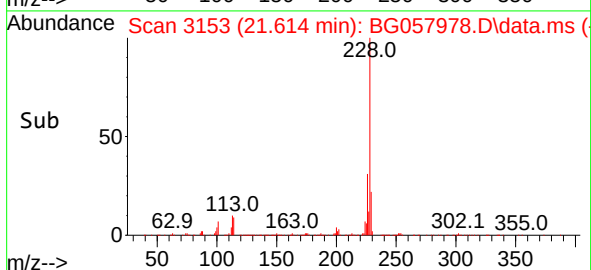
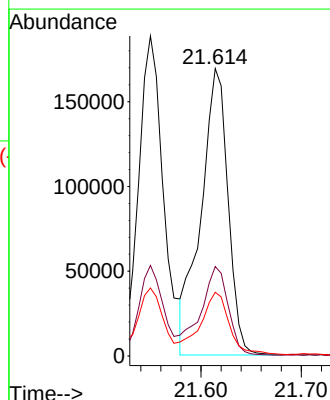
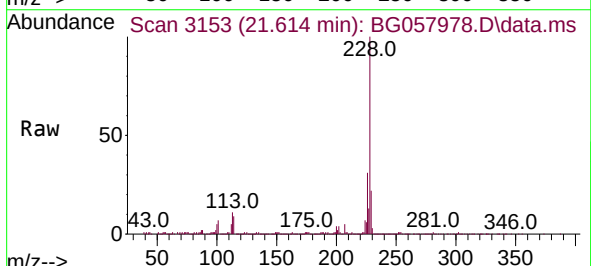
RT: 21.614 min Scan# 3153

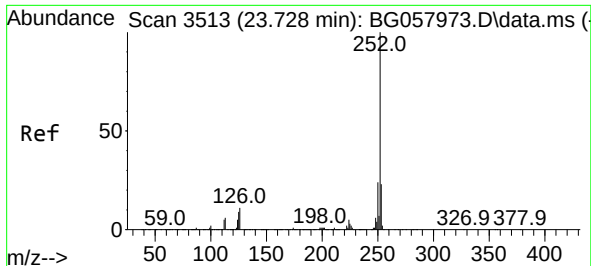
Delta R.T. 0.001 min

Lab File: BG057978.D

Acq: 4 Jul 2023 7:44

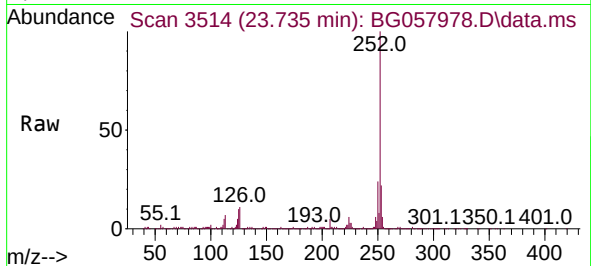
Tgt Ion:228 Resp: 318546  
 Ion Ratio Lower Upper  
 228 100  
 226 31.1 24.4 36.6  
 229 22.2 15.5 23.3





#90  
Benzo(b)fluoranthene  
Concen: 25.934 ng/ul  
RT: 23.735 min Scan# 3513  
Delta R.T. 0.007 min  
Lab File: BG057978.D  
Acq: 4 Jul 2023 7:44

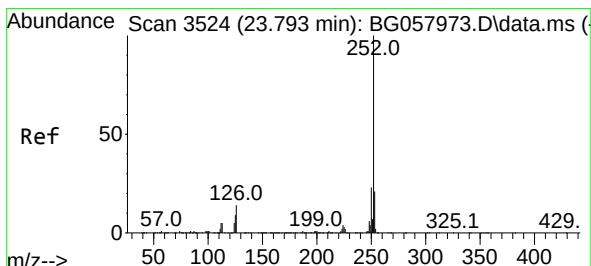
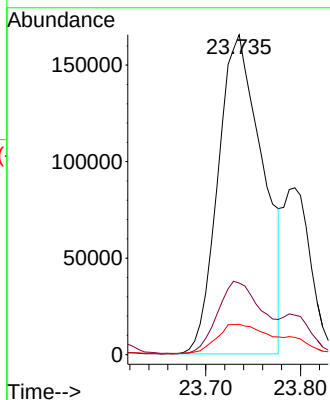
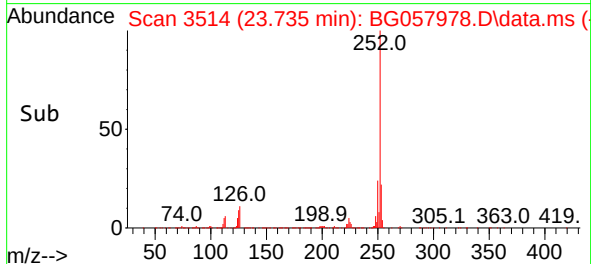
Instrument :  
BNA\_G  
ClientSampleId :  
DCGM1



Tgt Ion:252 Resp: 540148  
Ion Ratio Lower Upper  
252 100  
253 22.4 18.1 27.1  
125 9.5 7.5 11.3

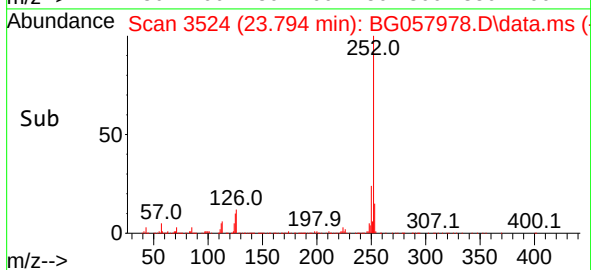
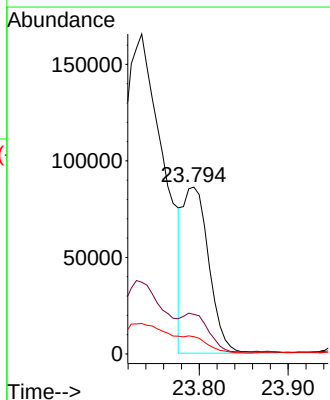
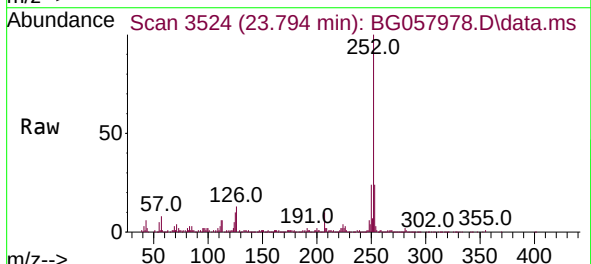
Manual Integrations  
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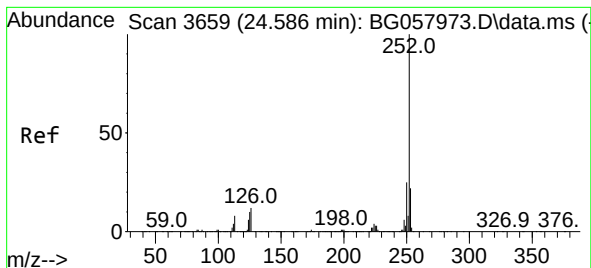
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#91  
Benzo(k)fluoranthene  
Concen: 8.579 ng/ul m  
RT: 23.794 min Scan# 3524  
Delta R.T. 0.001 min  
Lab File: BG057978.D  
Acq: 4 Jul 2023 7:44

Tgt Ion:252 Resp: 175131  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.7 26.5  
125 10.3 7.4 11.2





#93

Benzo(a)pyrene

Concen: 19.320 ng/ul

RT: 24.587 min Scan# 30

Delta R.T. 0.001 min

Lab File: BG057978.D

Acq: 4 Jul 2023 7:44

Instrument :

BNA\_G

ClientSampleId :

DCGM1

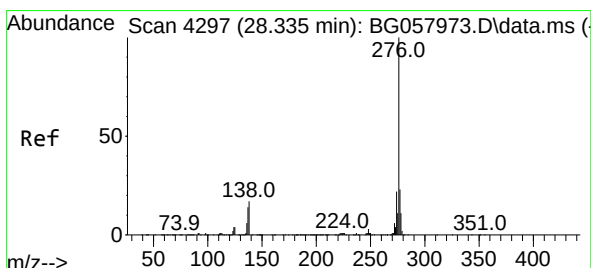
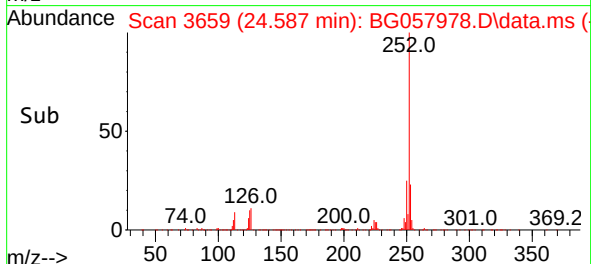
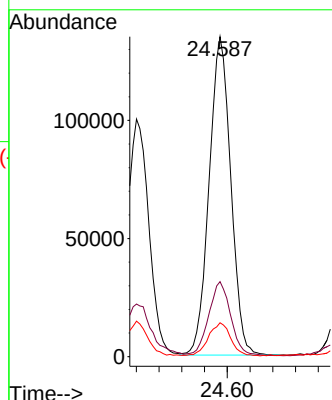
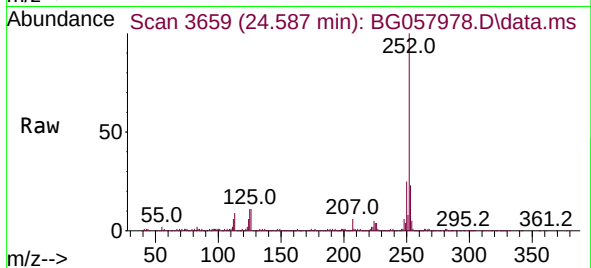
Tgt Ion:252 Resp: 356150  
 Ion Ratio Lower Upper  
 252 100  
 253 23.5 17.8 26.6  
 125 10.6 8.3 12.5

Manual Integrations

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Supervised By :mohammad ahmed 07/05/2023



#94

Indeno(1,2,3-cd)pyrene

Concen: 11.205 ng/ul

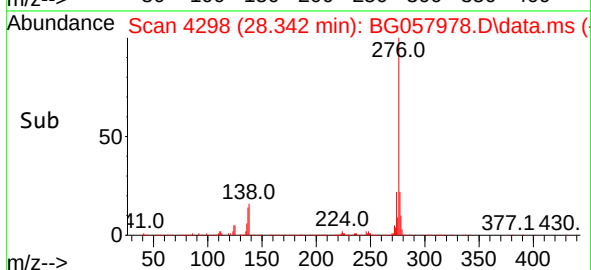
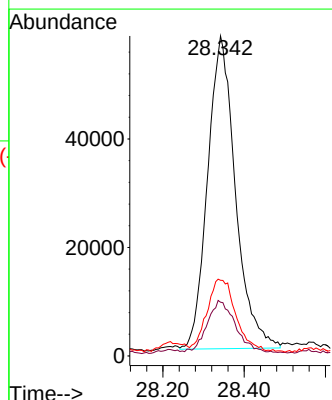
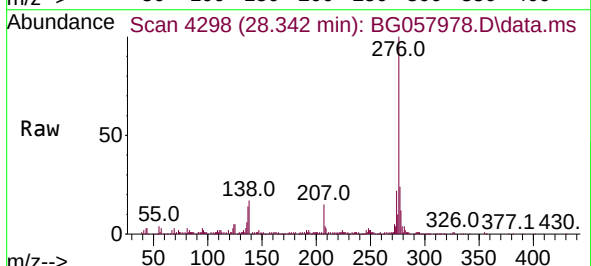
RT: 28.342 min Scan# 4298

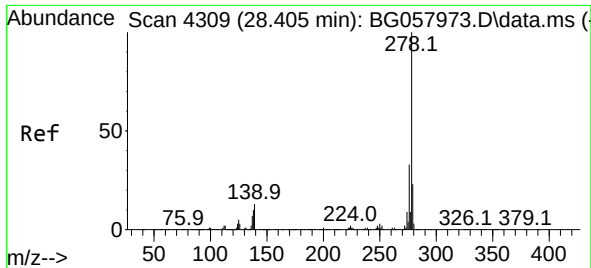
Delta R.T. 0.007 min

Lab File: BG057978.D

Acq: 4 Jul 2023 7:44

Tgt Ion:276 Resp: 274286  
 Ion Ratio Lower Upper  
 276 100  
 138 16.8 14.0 21.0  
 277 23.7 19.4 29.2





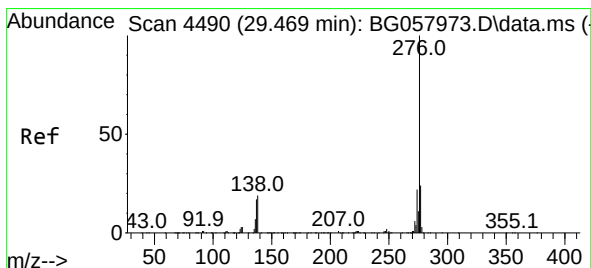
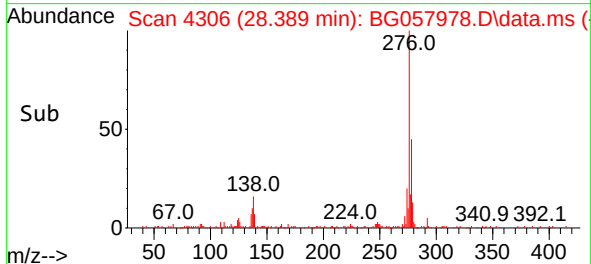
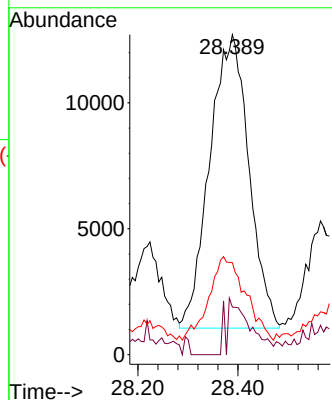
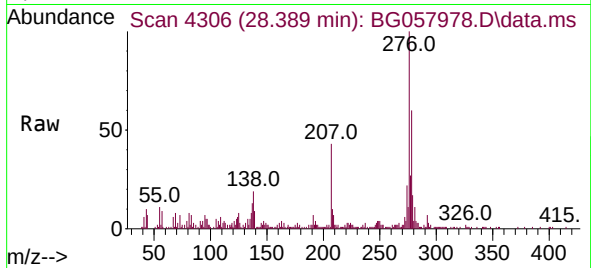
#95  
Dibenzo(a,h)anthracene  
Concen: 3.131 ng/ul m  
RT: 28.389 min Scan# 4309  
Delta R.T. -0.017 min  
Lab File: BG057978.D  
Acq: 4 Jul 2023 7:44

Instrument :  
BNA\_G  
ClientSampleId :  
DCGM1

Tgt Ion:278 Resp: 6320  
Ion Ratio Lower Upper  
278 100  
139 14.8 11.3 16.9  
279 28.7 18.9 28.3

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#96  
Benzo(g,h,i)perylene  
Concen: 12.464 ng/ul m  
RT: 29.470 min Scan# 4490  
Delta R.T. 0.001 min  
Lab File: BG057978.D  
Acq: 4 Jul 2023 7:44

Tgt Ion:276 Resp: 249209  
Ion Ratio Lower Upper  
276 100  
138 18.1 14.2 21.2  
277 24.4 18.6 27.8

