

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG070323\  
 Data File : BG058008.D  
 Acq On : 5 Jul 2023 6:10  
 Operator : CG/JU  
 Sample : 03248-13  
 Misc :  
 ALS Vial : 67 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DCGP1

Quant Time: Jul 05 07:10:52 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

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
 Supervised By :Sohil Jodhani 07/05/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.941  | 152  | 51141    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.743 | 136  | 232352   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.574 | 164  | 149579   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.318 | 188  | 315199   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.572 | 240  | 254749   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.750 | 264  | 306693   | 20.000 | ng/u1  | 0.02     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.375  | 96   | 6519     | 4.464  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.787  | 84   | 97908    | 22.082 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.106  | 99   | 184239   | 35.276 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.265  | 67   | 103032   | 32.736 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.476  | 132  | 131954   | 36.632 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.651  | 113  | 127508   | 32.355 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.104  | 128  | 71070    | 37.528 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.827  | 143  | 78566    | 39.474 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.367 | 165  | 149643   | 39.193 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.878 | 131  | 76765    | 13.261 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.981 | 166  | 447829   | 37.945 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.268 | 160  | 524567   | 40.731 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.774 | 143  | 63880    | 30.636 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.567 | 176  | 391394   | 39.050 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.684 | 200  | 59241    | 34.613 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.418 | 188  | 584117   | 39.937 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.709 | 212  | 670693   | 41.803 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.533 | 264  | 689938   | 44.155 | ng/u1  | 0.02     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.796 | 128  | 23565    | 1.805  | ng/u1  | 98       |
| 52) Acenaphthene              | 14.639 | 153  | 14036    | 1.471  | ng/u1# | 89       |
| 61) Fluorene                  | 15.626 | 166  | 13757    | 1.236  | ng/u1  | 96       |
| 72) Phenanthrene              | 17.359 | 178  | 275047   | 17.155 | ng/u1  | 99       |
| 74) Anthracene                | 17.453 | 178  | 41012    | 2.528  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.374 | 202  | 678858   | 36.515 | ng/u1  | 100      |
| 82) Pyrene                    | 19.738 | 202  | 544909   | 29.118 | ng/u1  | 99       |
| 85) Benzo(a)anthracene        | 21.554 | 228  | 299629   | 16.381 | ng/u1  | 97       |
| 87) Chrysene                  | 21.619 | 228  | 364962   | 21.284 | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 23.740 | 252  | 519335   | 27.348 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 23.798 | 252  | 212798m  | 11.433 | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.603 | 252  | 341257   | 20.303 | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.370 | 276  | 206161   | 9.237  | ng/u1  | 97       |
| 95) Dibenzo(a,h)anthracene    | 28.422 | 278  | 55402m   | 3.010  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 29.509 | 276  | 175055m  | 9.602  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

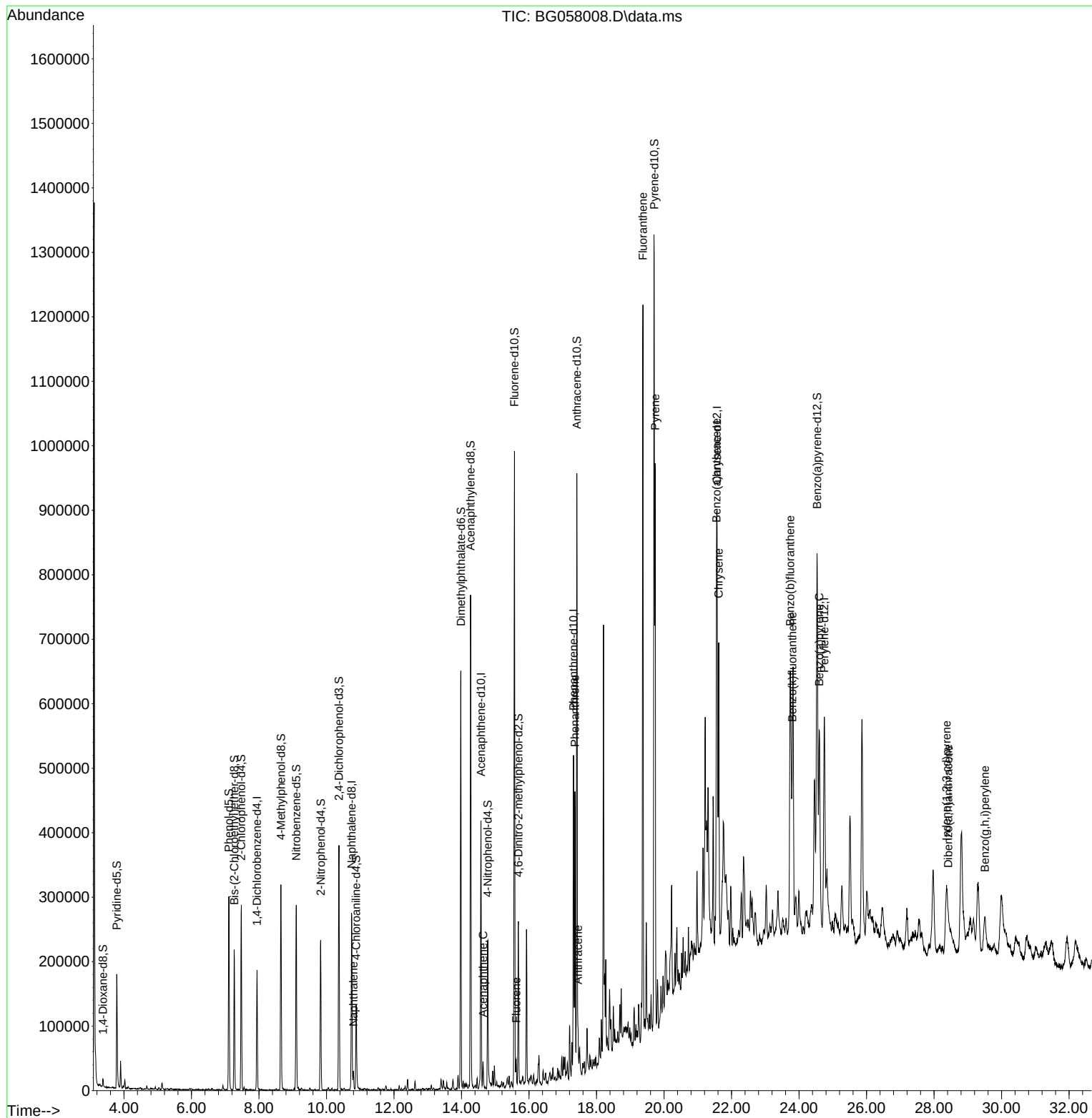
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG070323\  
Data File : BG058008.D  
Acq On : 5 Jul 2023 6:10  
Operator : CG/JU  
Sample : 03248-13  
Misc :  
ALS Vial : 67 Sample Multiplier: 1

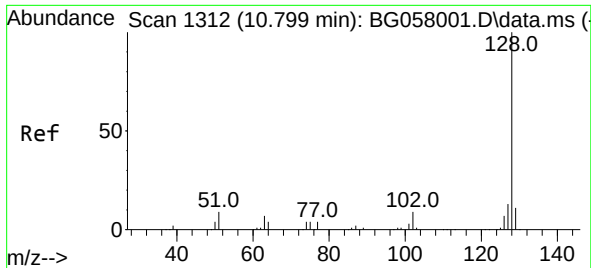
Instrument :  
BNA\_G  
ClientSampleId :  
DCGP1

Quant Time: Jul 05 07:10:52 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

Manual Integrations  
APPROVED

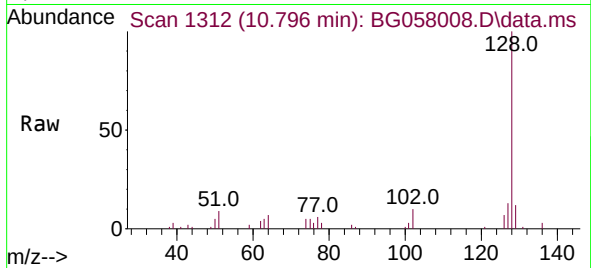
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023





#30  
Naphthalene  
Concen: 1.805 ng/ul  
RT: 10.796 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10

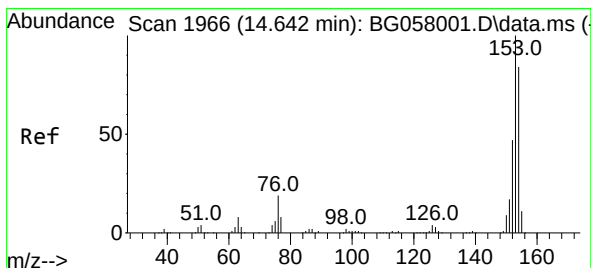
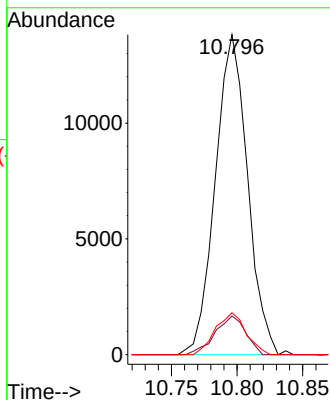
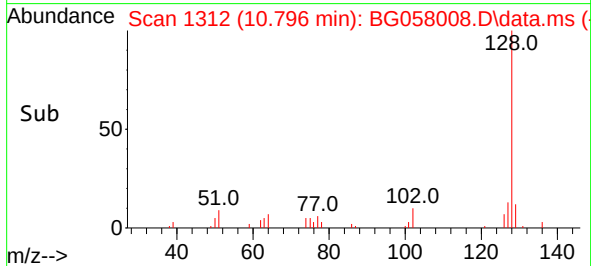
Instrument :  
BNA\_G  
ClientSampleId :  
DCGP1



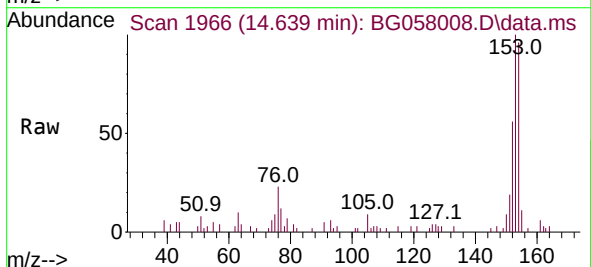
Tgt Ion:128 Resp: 2356  
Ion Ratio Lower Upper  
128 100  
129 12.1 8.6 12.8  
127 13.1 10.2 15.2

Manual Integrations  
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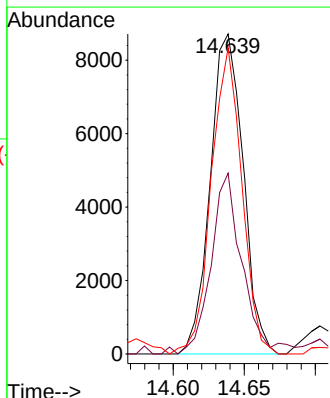
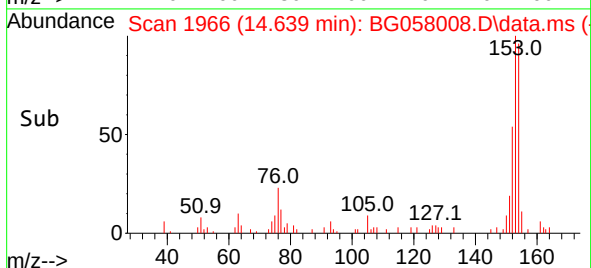
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023

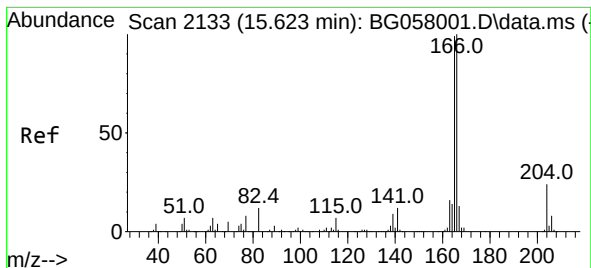


#52  
Acenaphthene  
Concen: 1.471 ng/ul  
RT: 14.639 min Scan# 1966  
Delta R.T. 0.005 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10



Tgt Ion:153 Resp: 14036  
Ion Ratio Lower Upper  
153 100  
152 56.5 36.5 54.7#  
154 95.7 70.5 105.7





#61

Fluorene

Concen: 1.236 ng/ul

RT: 15.626 min Scan# 2133

Delta R.T. 0.005 min

Lab File: BG058008.D

Acq: 5 Jul 2023 6:10

Instrument :

BNA\_G

ClientSampleId :

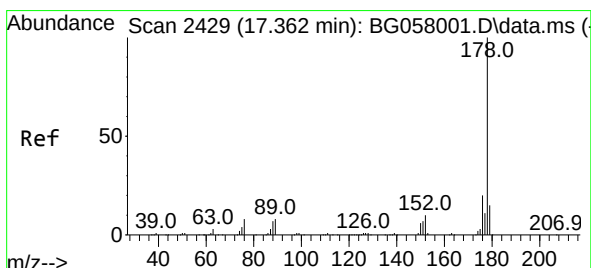
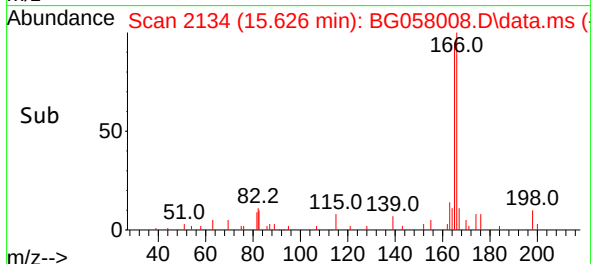
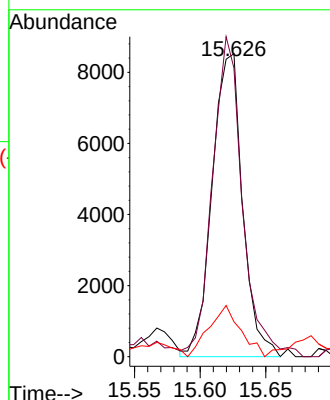
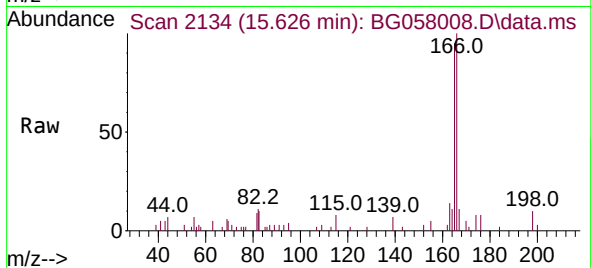
DCGP1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1375  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 95.2  | 79.1  | 118.7 |
| 167       | 11.5  | 10.7  | 16.1  |

Manual Integrations

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Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023



#72

Phenanthrene

Concen: 17.155 ng/ul

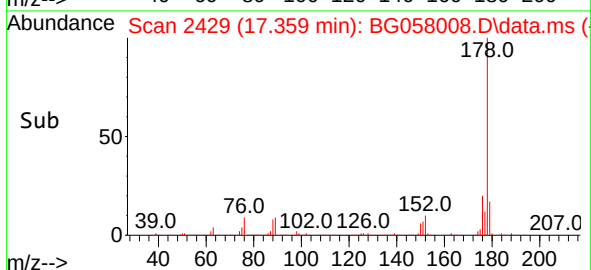
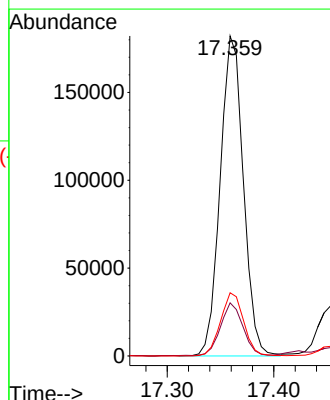
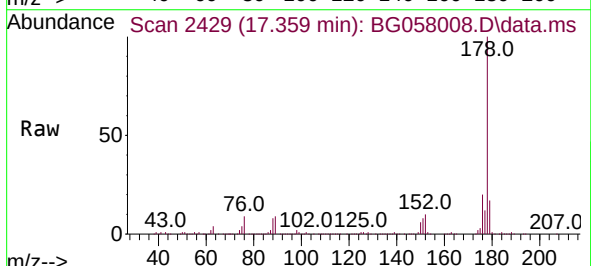
RT: 17.359 min Scan# 2429

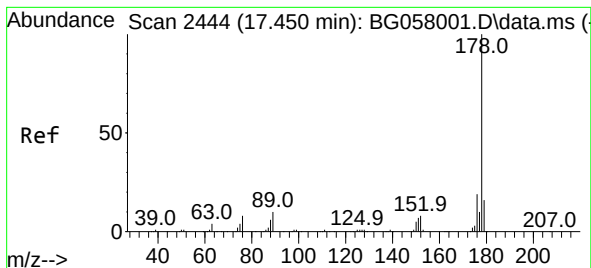
Delta R.T. -0.000 min

Lab File: BG058008.D

Acq: 5 Jul 2023 6:10

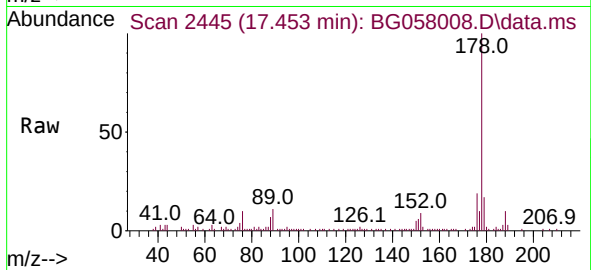
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 275047 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.6  | 12.8  | 19.2   |
| 176       | 19.7  | 15.7  | 23.5   |





#74  
 Anthracene  
 Concen: 2.528 ng/ul  
 RT: 17.453 min Scan# 2444  
 Delta R.T. 0.005 min  
 Lab File: BG058008.D  
 Acq: 5 Jul 2023 6:10

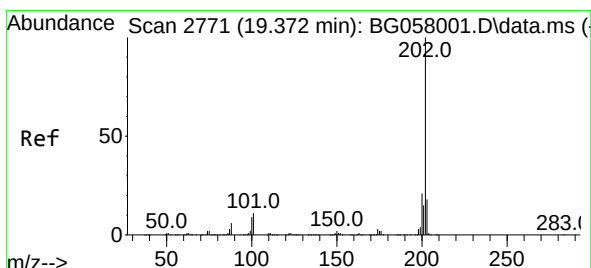
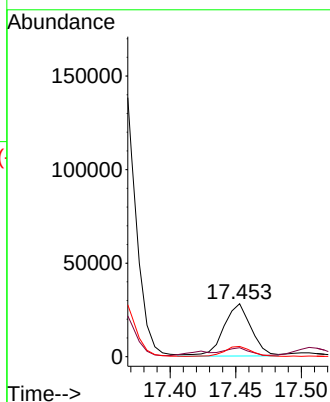
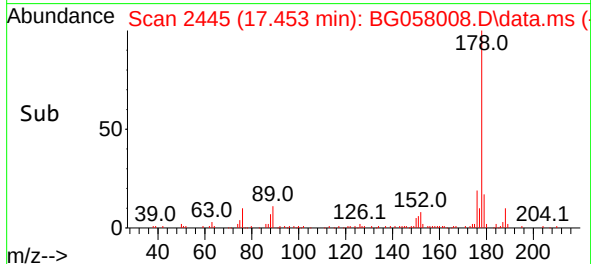
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DCGP1



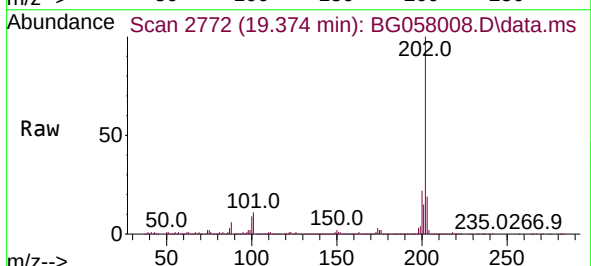
Tgt Ion:178 Resp: 41012  
 Ion Ratio Lower Upper  
 178 100  
 179 16.8 12.6 18.8  
 176 19.4 15.4 23.2

Manual Integrations  
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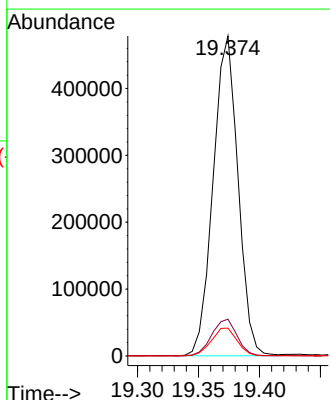
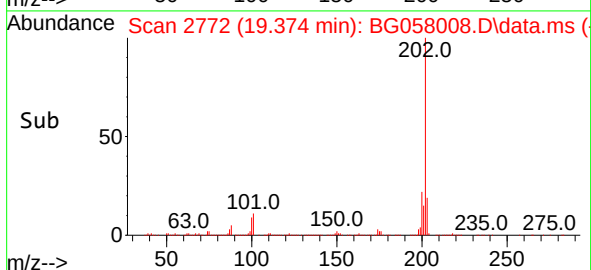
Reviewed By :Yogesh Patel 07/05/2023  
 Supervised By :Sohil Jodhani 07/05/2023

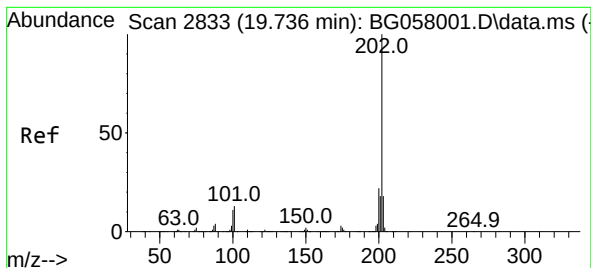


#80  
 Fluoranthene  
 Concen: 36.515 ng/ul  
 RT: 19.374 min Scan# 2772  
 Delta R.T. 0.005 min  
 Lab File: BG058008.D  
 Acq: 5 Jul 2023 6:10



Tgt Ion:202 Resp: 678858  
 Ion Ratio Lower Upper  
 202 100  
 101 11.5 9.1 13.7  
 100 8.7 7.1 10.7





#82

Pyrene

Concen: 29.118 ng/ul

RT: 19.738 min Scan# 2

Delta R.T. 0.005 min

Lab File: BG058008.D

Acq: 5 Jul 2023 6:10

Instrument :

BNA\_G

ClientSampleId :

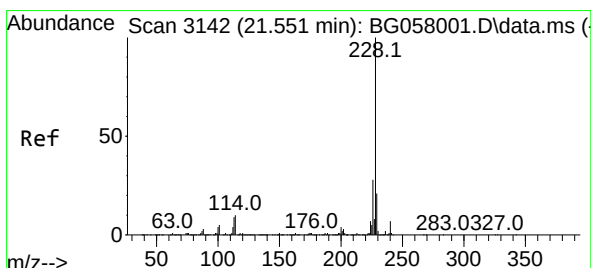
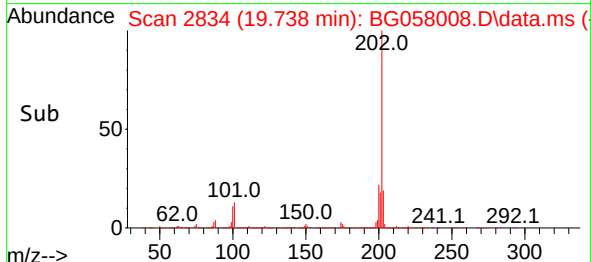
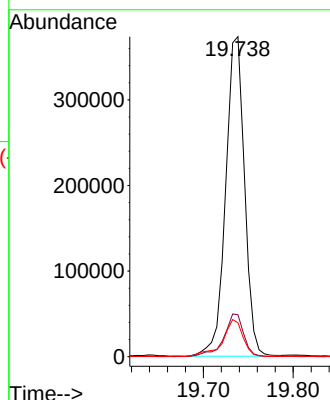
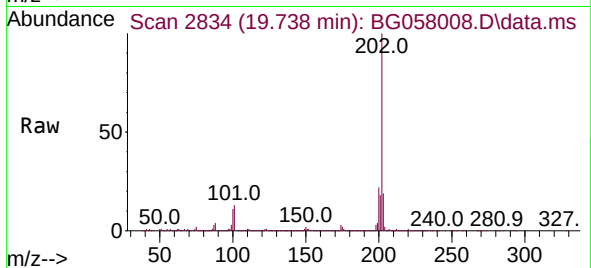
DCGP1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 544909 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.1  | 10.2  | 15.2   |
| 100       | 10.6  | 8.9   | 13.3   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023



#85

Benzo(a)anthracene

Concen: 16.381 ng/ul

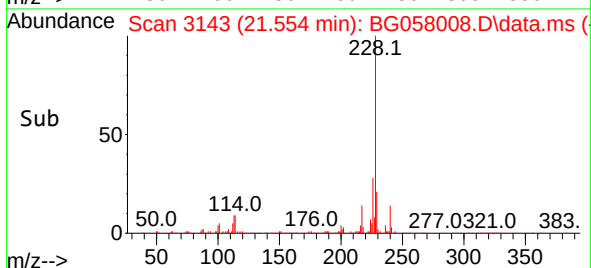
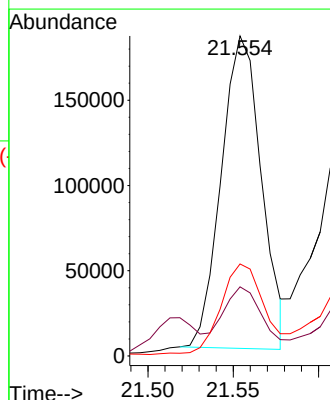
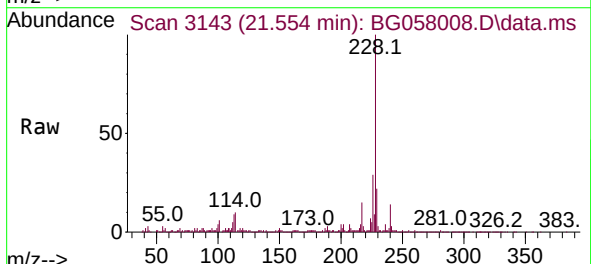
RT: 21.554 min Scan# 3143

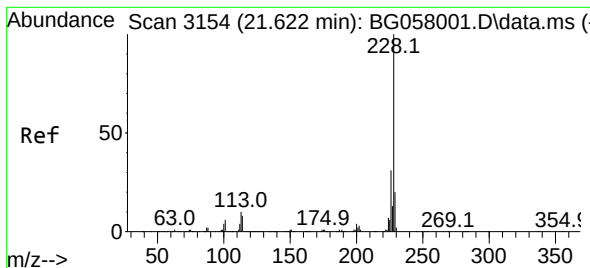
Delta R.T. 0.005 min

Lab File: BG058008.D

Acq: 5 Jul 2023 6:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 299629 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.6  | 16.0  | 24.0   |
| 226       | 28.7  | 22.0  | 33.0   |





#87

Chrysene

Concen: 21.284 ng/ul

RT: 21.619 min Scan# 3154

Delta R.T. 0.005 min

Lab File: BG058008.D

Acq: 5 Jul 2023 6:10

Instrument :

BNA\_G

ClientSampleId :

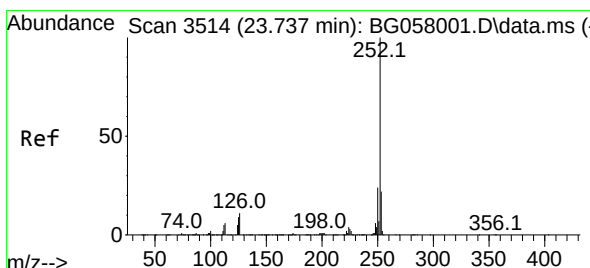
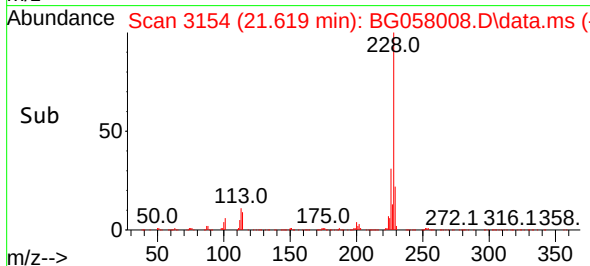
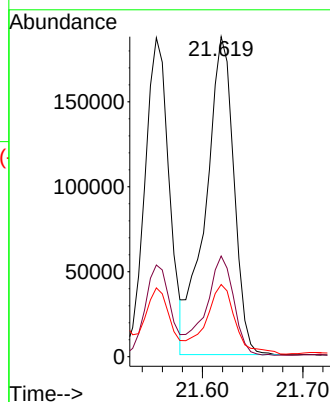
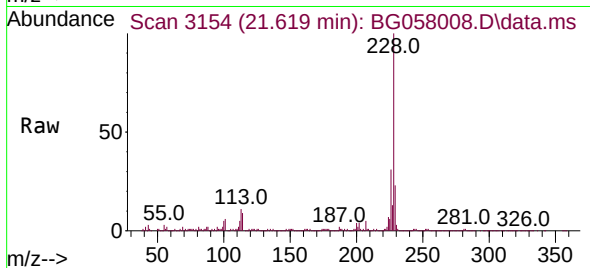
DCGP1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 364962 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.5  | 24.4  | 36.6   |
| 229       | 22.6  | 15.5  | 23.3   |

Manual Integrations

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Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023



#90

Benzo(b)fluoranthene

Concen: 27.348 ng/ul

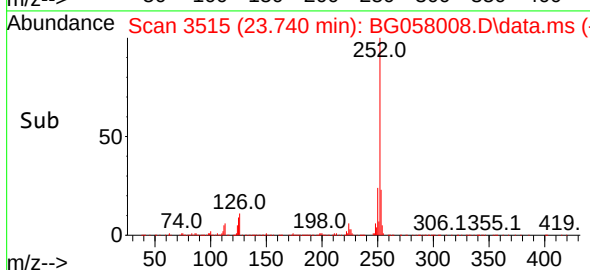
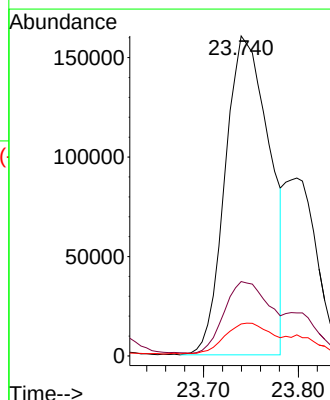
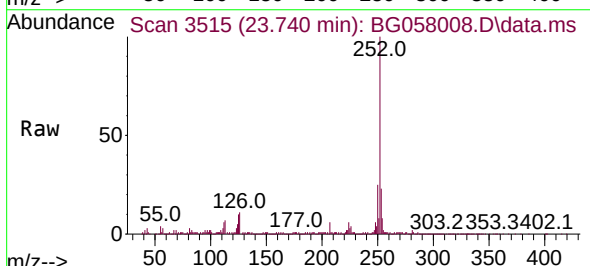
RT: 23.740 min Scan# 3515

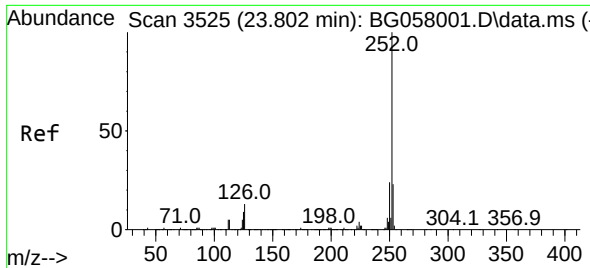
Delta R.T. 0.011 min

Lab File: BG058008.D

Acq: 5 Jul 2023 6:10

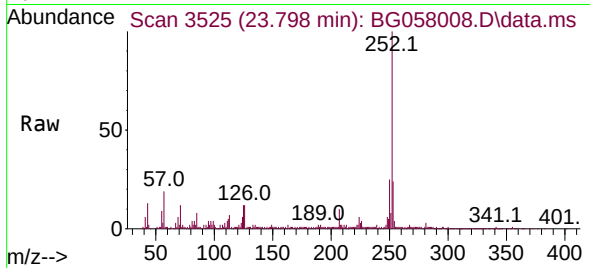
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 519335 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 18.1  | 27.1   |
| 125       | 10.0  | 7.5   | 11.3   |





#91  
Benzo(k)fluoranthene  
Concen: 11.433 ng/ul m  
RT: 23.798 min Scan# 3525  
Delta R.T. 0.005 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10

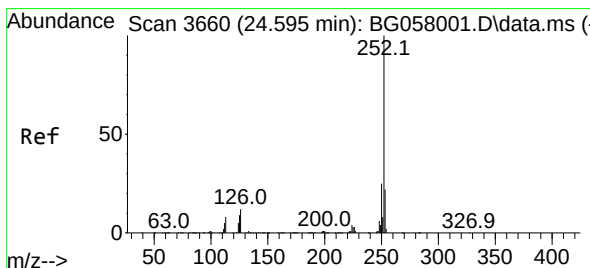
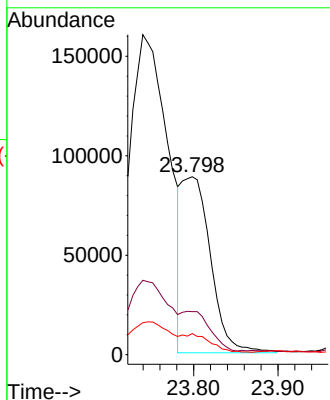
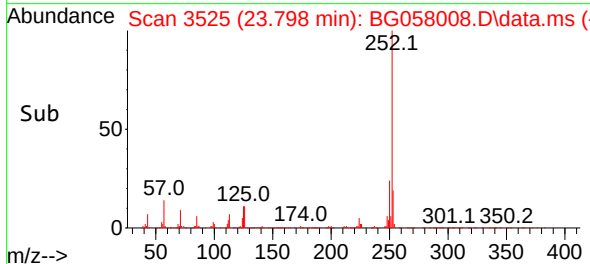
Instrument :  
BNA\_G  
ClientSampleId :  
DCGP1



Tgt Ion:252 Resp: 212798  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.7 26.5  
125 11.9 7.4 11.2

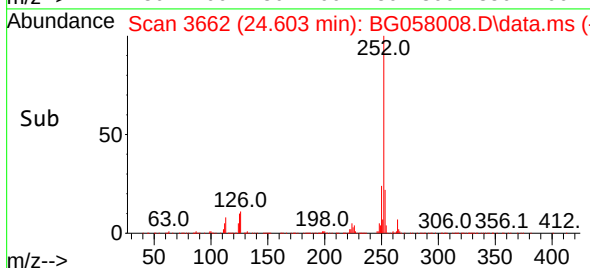
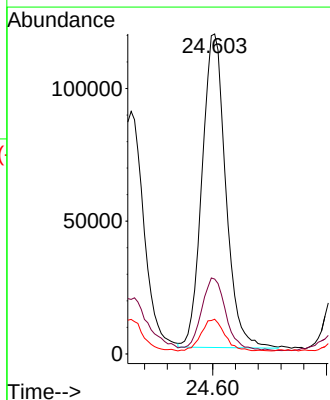
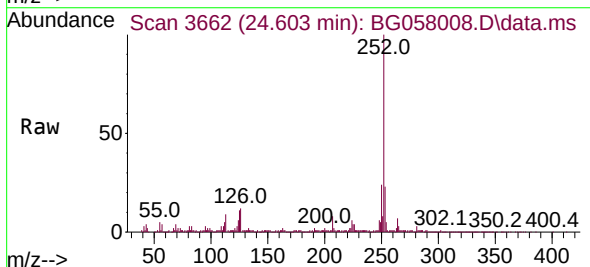
Manual Integrations  
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Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023

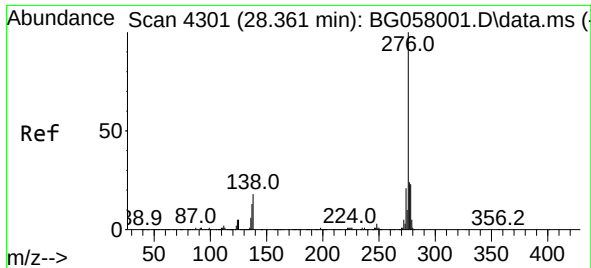


#93  
Benzo(a)pyrene  
Concen: 20.303 ng/ul  
RT: 24.603 min Scan# 3662  
Delta R.T. 0.017 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10

Tgt Ion:252 Resp: 341257  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.8 26.6  
125 10.8 8.3 12.5

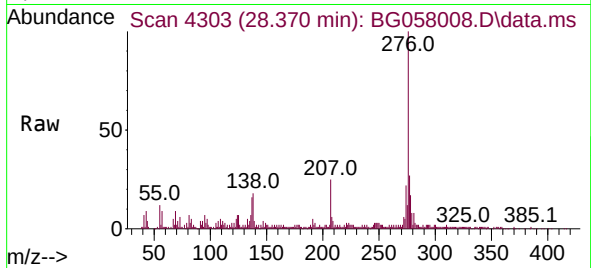






#94  
Indeno(1,2,3-cd)pyrene  
Concen: 9.237 ng/ul  
RT: 28.370 min Scan# 4301  
Delta R.T. 0.035 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10

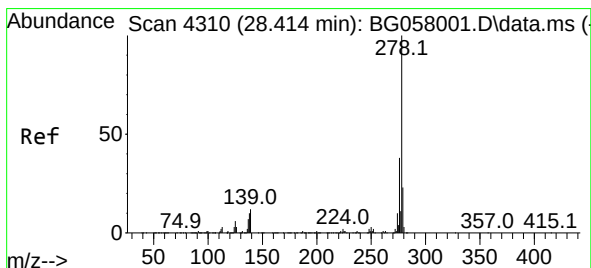
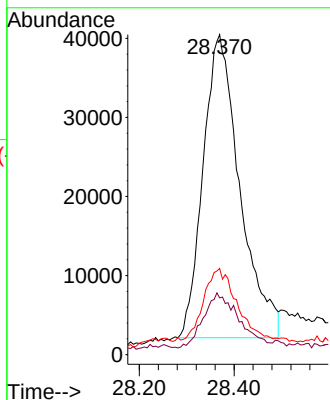
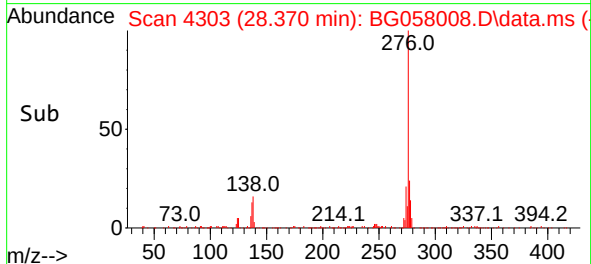
Instrument :  
BNA\_G  
ClientSampleId :  
DCGP1



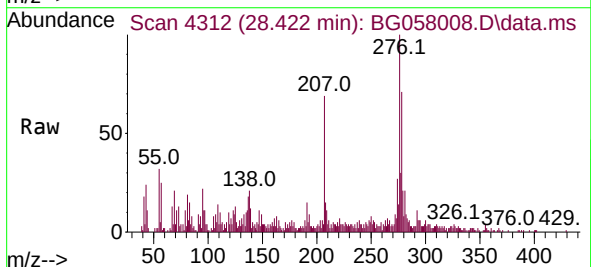
Tgt Ion:276 Resp: 20616  
Ion Ratio Lower Upper  
276 100  
138 17.8 14.0 21.0  
277 27.0 19.4 29.2

Manual Integrations  
APPROVED

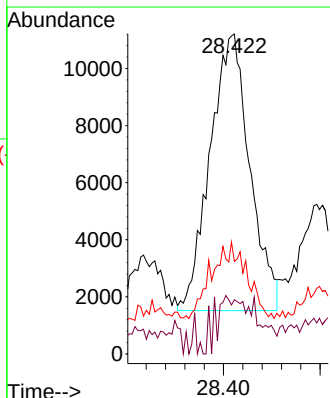
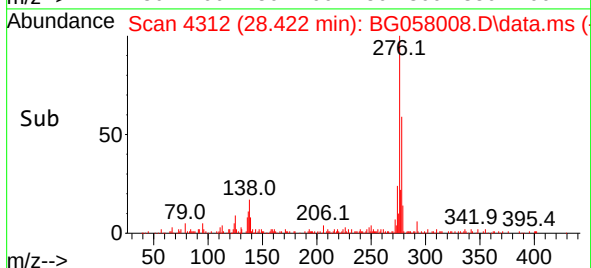
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023

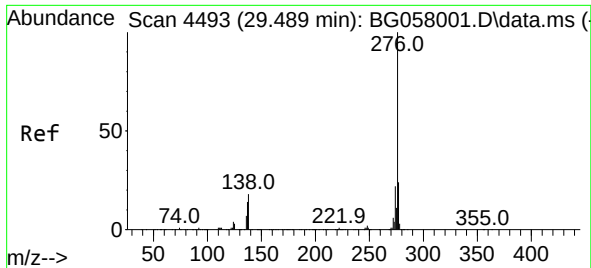


#95  
Dibenzo(a,h)anthracene  
Concen: 3.010 ng/ul m  
RT: 28.422 min Scan# 4312  
Delta R.T. 0.017 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10



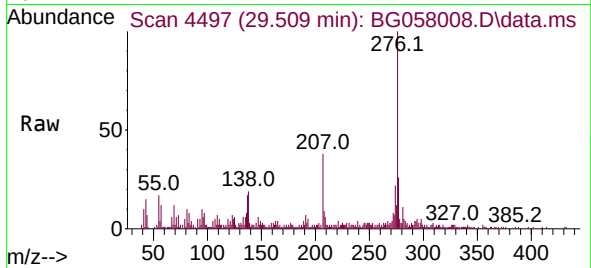
Tgt Ion:278 Resp: 55402  
Ion Ratio Lower Upper  
278 100  
139 17.0 11.3 16.9#  
279 28.9 18.9 28.3#





#96  
Benzo(g,h,i)perylene  
Concen: 9.602 ng/ul m  
RT: 29.509 min Scan# 44  
Delta R.T. 0.041 min  
Lab File: BG058008.D  
Acq: 5 Jul 2023 6:10

Instrument :  
BNA\_G  
ClientSampleId :  
DCGP1



Tgt Ion:276 Resp: 17505  
Ion Ratio Lower Upper  
276 100  
138 18.6 14.2 21.2  
277 25.5 18.6 27.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :Sohil Jodhani 07/05/2023

