

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050123\  
 Data File : BG057254.D  
 Acq On : 1 May 2023 16:58  
 Operator : CG/JU  
 Sample : 02418-30DL 30X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EW904DL

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/02/2023  
 Supervised By : Jagrut Upadhyay 05/02/2023

Quant Time: May 01 23:36:26 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG042823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon May 01 12:45:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.379  | 152  | 18049    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.216 | 136  | 78636    | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.993 | 164  | 57576    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.731 | 188  | 129002   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 22.049 | 240  | 110578   | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 25.567 | 264  | 116018   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 0.000  | 96   | 0        | 0.000  | ng/uL  |          |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 7.521  | 99   | 604      | 0.354  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 0.000  | 67   | 0d       | 0.000  | ng/u1  |          |
| 11) 2-Chlorophenol-d4         | 7.903  | 132  | 521      | 0.463  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 0.000  | 113  | 0d       | 0.000  | ng/u1  |          |
| 21) Nitrobenzene-d5           | 0.000  | 128  | 0d       | 0.000  | ng/u1  |          |
| 24) 2-Nitrophenol-d4          | 10.294 | 143  | 276      | 0.378  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 0.000  | 165  | 0d       | 0.000  | ng/u1  |          |
| 31) 4-Chloroaniline-d4        | 0.000  | 131  | 0        | 0.000  | ng/u1  |          |
| 46) Dimethylphthalate-d6      | 14.377 | 166  | 2521     | 0.553  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.694 | 160  | 2970     | 0.579  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0        | 0.000  | ng/u1  |          |
| 60) Fluorene-d10              | 15.980 | 176  | 2296     | 0.540  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0        | 0.000  | ng/u1  |          |
| 73) Anthracene-d10            | 17.831 | 188  | 3554     | 0.604  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.098 | 212  | 3886     | 0.592  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.321 | 264  | 3674     | 0.622  | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 52) Acenaphthene              | 15.058 | 153  | 5168     | 1.392  | ng/u1  | 96       |
| 56) Dibenzofuran              | 15.387 | 168  | 5673     | 1.058  | ng/u1  | 95       |
| 61) Fluorene                  | 16.033 | 166  | 10232    | 2.257  | ng/u1  | 93       |
| 72) Phenanthrene              | 17.778 | 178  | 215668   | 32.104 | ng/u1  | 99       |
| 74) Anthracene                | 17.866 | 178  | 43227    | 6.406  | ng/u1  | 97       |
| 77) Carbazole                 | 18.130 | 167  | 11960    | 2.121  | ng/u1  | 95       |
| 80) Fluoranthene              | 19.769 | 202  | 601976   | 77.209 | ng/u1# | 96       |
| 82) Pyrene                    | 20.128 | 202  | 480279   | 60.849 | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 22.025 | 228  | 267508   | 34.205 | ng/u1  | 99       |
| 87) Chrysene                  | 22.101 | 228  | 270628   | 36.678 | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 24.445 | 252  | 370599   | 46.128 | ng/u1  | 96       |
| 91) Benzo(k)fluoranthene      | 24.510 | 252  | 115838m  | 14.820 | ng/u1  |          |
| 93) Benzo(a)pyrene            | 25.403 | 252  | 226744   | 32.691 | ng/u1  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.638 | 276  | 167055   | 19.267 | ng/u1# | 96       |
| 95) Dibenzo(a,h)anthracene    | 29.668 | 278  | 46388m   | 6.452  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 30.907 | 276  | 136140m  | 19.401 | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

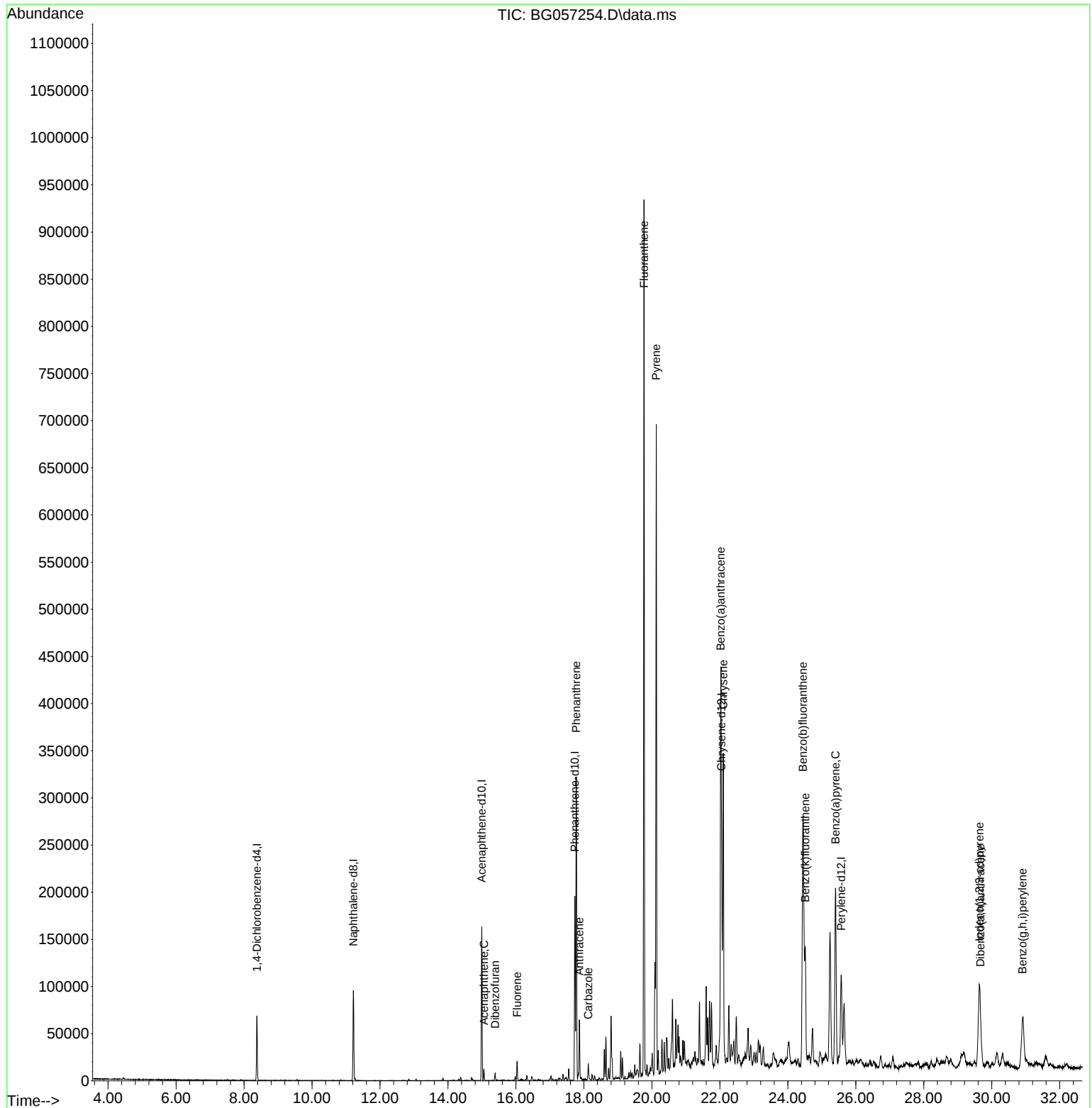
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050123\  
Data File : BG057254.D  
Acq On : 1 May 2023 16:58  
Operator : CG/JU  
Sample : 02418-30DL 30X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

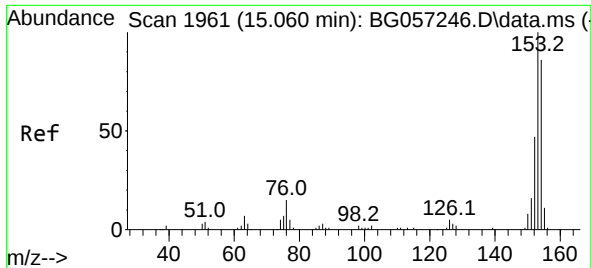
Instrument :  
BNA\_G  
ClientSampleId :  
EW904DL

Quant Time: May 01 23:36:26 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG042823.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon May 01 12:45:38 2023  
Response via : Initial Calibration

Manual Integrations  
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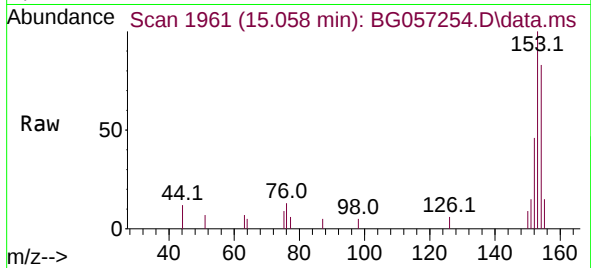
Reviewed By : Christian Giraldo 05/02/2023  
Supervised By : Jagrut Upadhyay 05/02/2023





#52  
Acenaphthene  
Concen: 1.392 ng/ul  
RT: 15.058 min Scan# 1961  
Delta R.T. -0.002 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

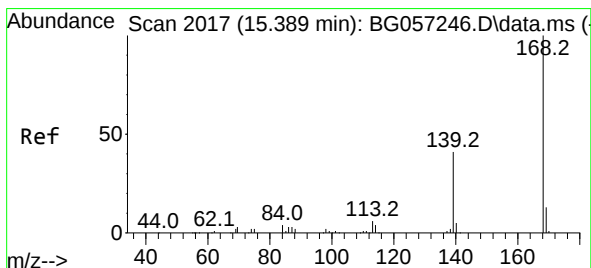
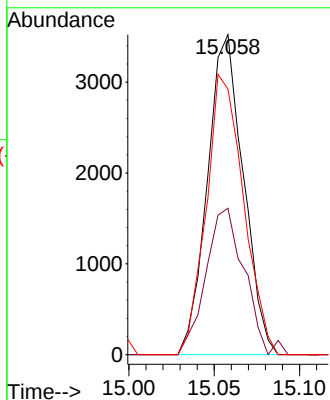
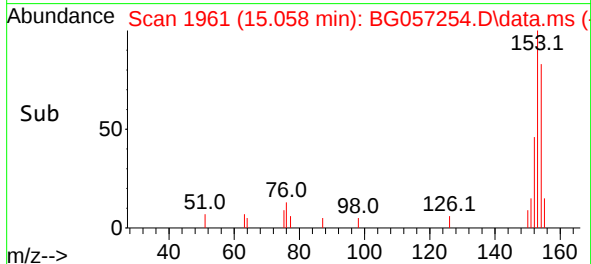
Instrument :  
BNA\_G  
ClientSampleId :  
EW904DL



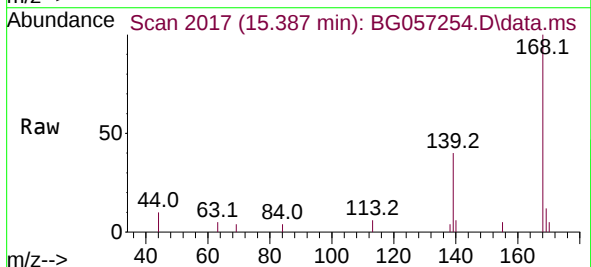
Tgt Ion:153 Resp: 5168  
Ion Ratio Lower Upper  
153 100  
152 45.7 36.5 54.7  
154 83.0 70.6 106.0

Manual Integrations  
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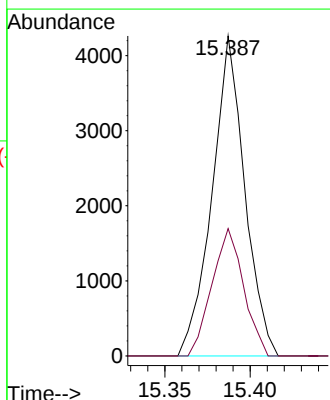
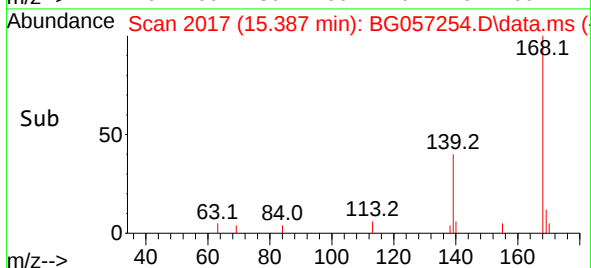
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

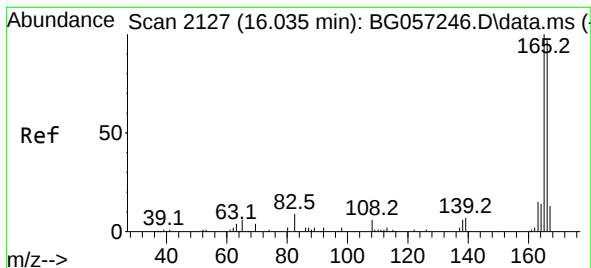


#56  
Dibenzofuran  
Concen: 1.058 ng/ul  
RT: 15.387 min Scan# 2017  
Delta R.T. -0.002 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58



Tgt Ion:168 Resp: 5673  
Ion Ratio Lower Upper  
168 100  
139 39.8 29.6 44.4





#61

Fluorene

Concen: 2.257 ng/ul

RT: 16.033 min Scan# 2127

Delta R.T. -0.002 min

Lab File: BG057254.D

Acq: 1 May 2023 16:58

Instrument :

BNA\_G

ClientSampleId :

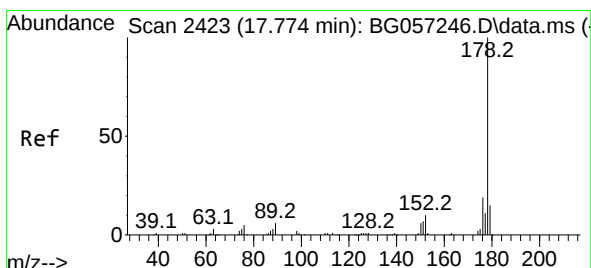
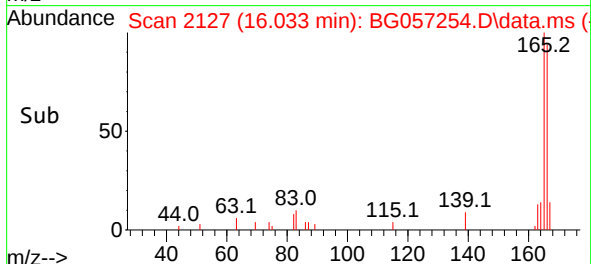
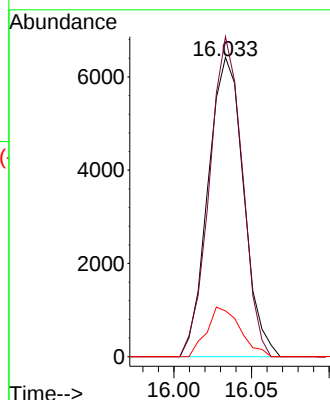
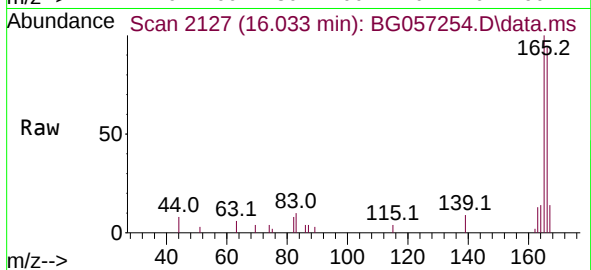
EW904DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1023  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 106.9 | 80.1  | 120.1 |
| 167       | 15.3  | 10.2  | 15.4  |

Manual Integrations

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Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#72

Phenanthrene

Concen: 32.104 ng/ul

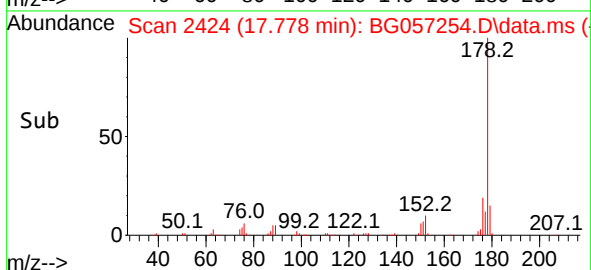
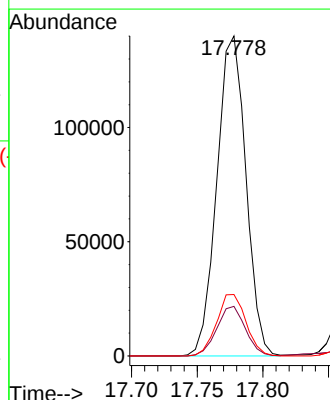
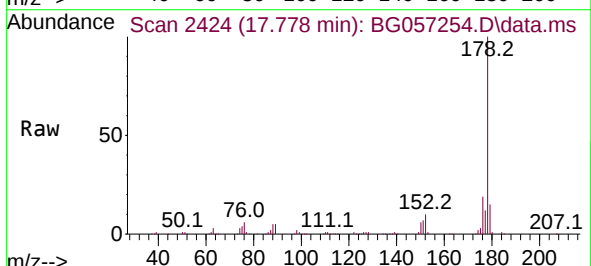
RT: 17.778 min Scan# 2424

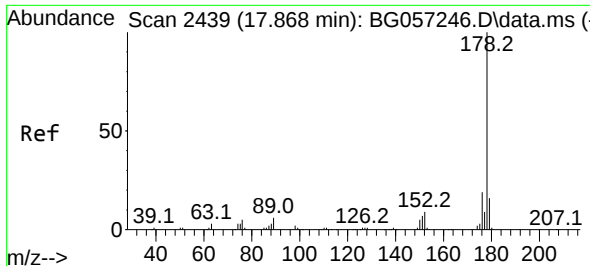
Delta R.T. 0.004 min

Lab File: BG057254.D

Acq: 1 May 2023 16:58

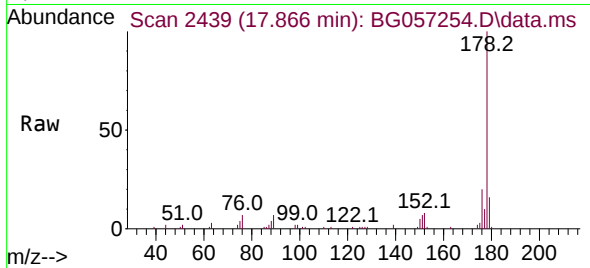
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 215668 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 11.8  | 17.8   |
| 176       | 19.2  | 15.4  | 23.0   |





#74  
 Anthracene  
 Concen: 6.406 ng/uI  
 RT: 17.866 min Scan# 2439  
 Delta R.T. -0.002 min  
 Lab File: BG057254.D  
 Acq: 1 May 2023 16:58

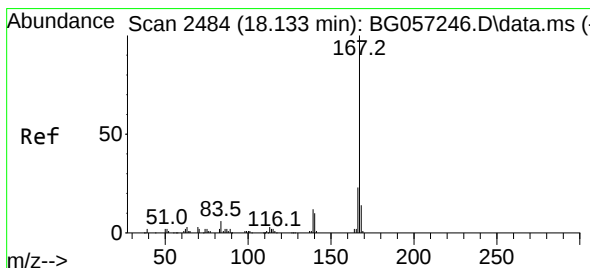
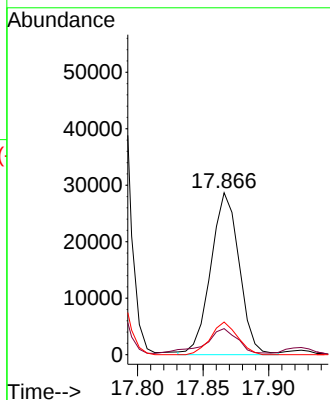
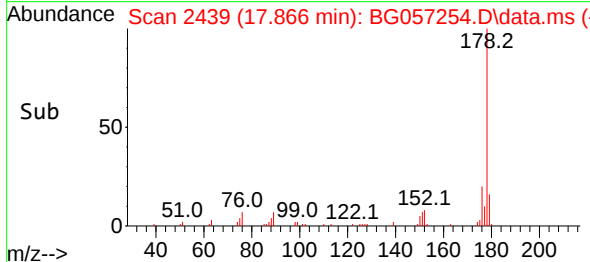
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EW904DL



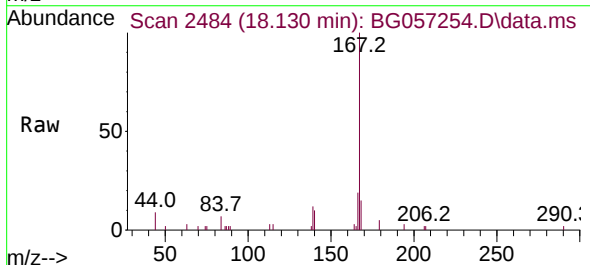
Tgt Ion:178 Resp: 43227  
 Ion Ratio Lower Upper  
 178 100  
 179 16.2 12.5 18.7  
 176 20.2 14.7 22.1

Manual Integrations  
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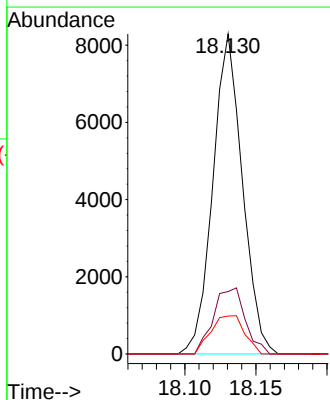
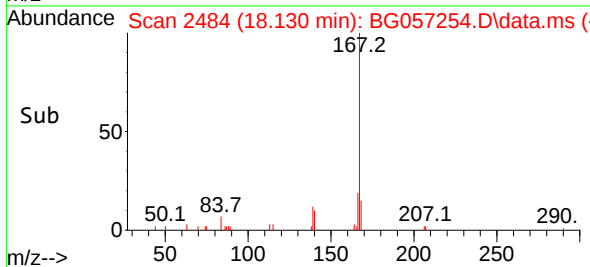
Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023

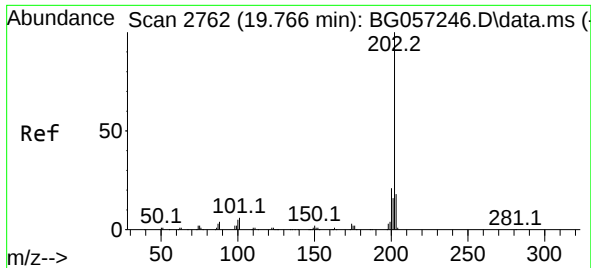


#77  
 Carbazole  
 Concen: 2.121 ng/uI  
 RT: 18.130 min Scan# 2484  
 Delta R.T. -0.002 min  
 Lab File: BG057254.D  
 Acq: 1 May 2023 16:58



Tgt Ion:167 Resp: 11960  
 Ion Ratio Lower Upper  
 167 100  
 166 19.5 18.0 27.0  
 139 11.8 10.3 15.5





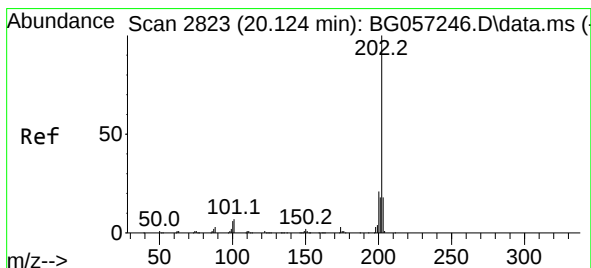
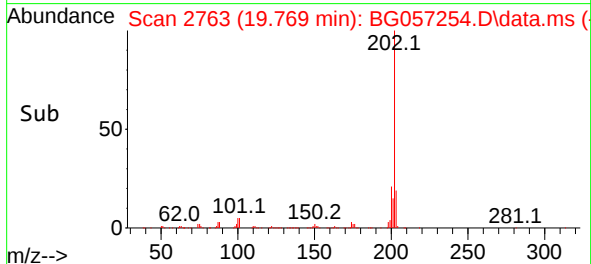
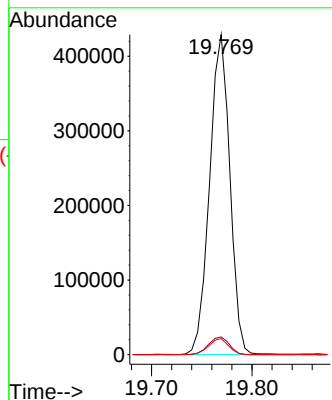
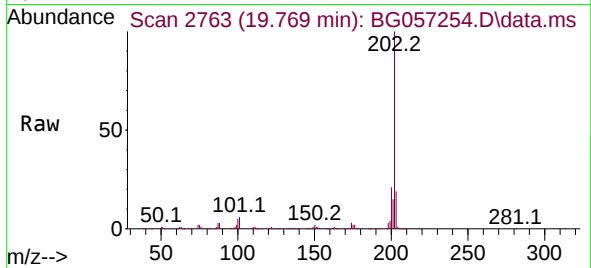
#80  
Fluoranthene  
Concen: 77.209 ng/u1  
RT: 19.769 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

Instrument :  
BNA\_G  
ClientSampleId :  
EW904DL

Tgt Ion:202 Resp: 601970  
Ion Ratio Lower Upper  
202 100  
101 5.6 5.8 8.6  
100 5.1 4.6 7.0

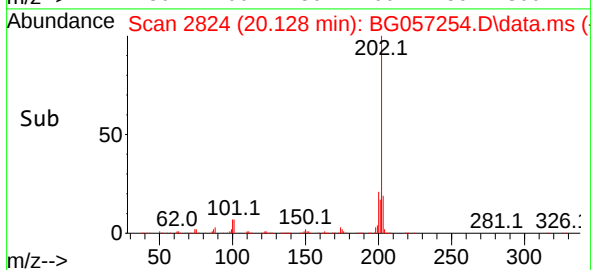
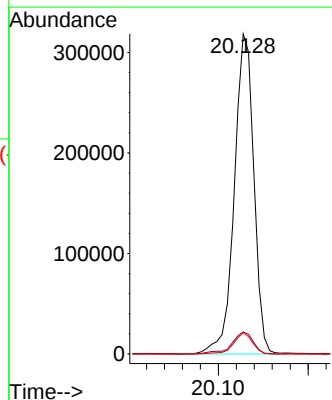
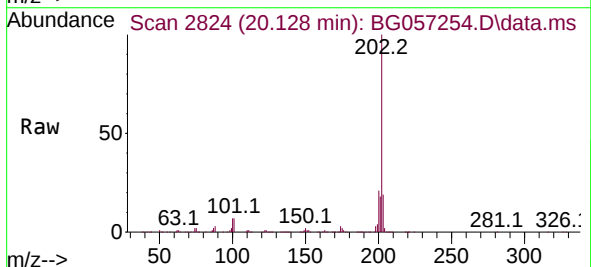
Manual Integrations  
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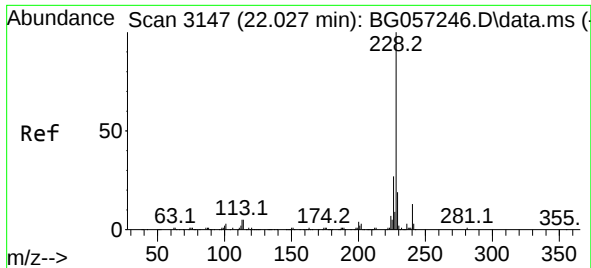
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#82  
Pyrene  
Concen: 60.849 ng/u1  
RT: 20.128 min Scan# 2824  
Delta R.T. 0.004 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

Tgt Ion:202 Resp: 480279  
Ion Ratio Lower Upper  
202 100  
101 6.9 5.7 8.5  
100 6.6 6.0 9.0





#85  
Benzo(a)anthracene  
Concen: 34.205 ng/u1  
RT: 22.025 min Scan# 3147  
Delta R.T. -0.002 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

Instrument :

BNA\_G

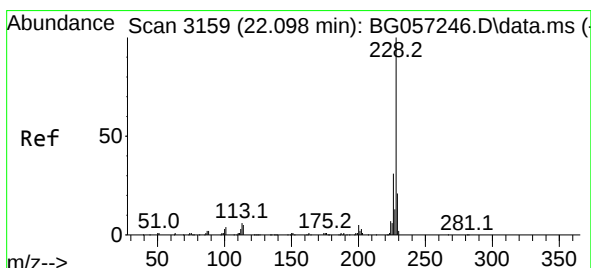
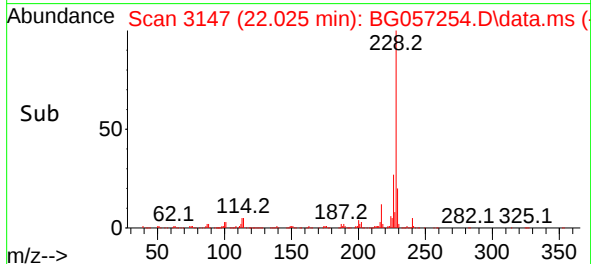
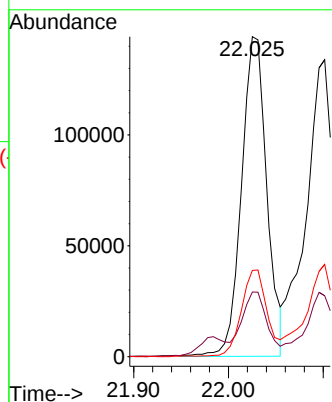
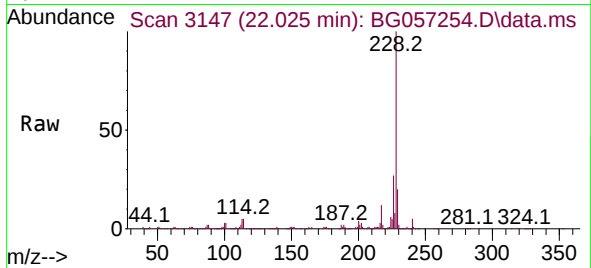
ClientSampleId :

EW904DL

Tgt Ion:228 Resp: 267508  
Ion Ratio Lower Upper  
228 100  
229 20.2 15.8 23.6  
226 27.0 21.7 32.5

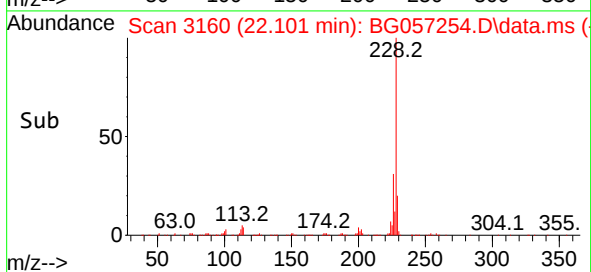
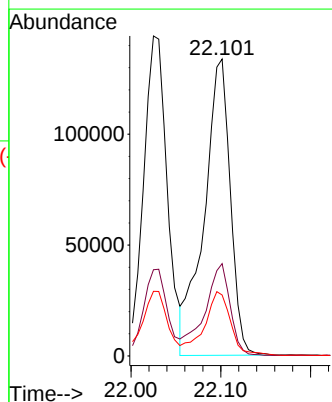
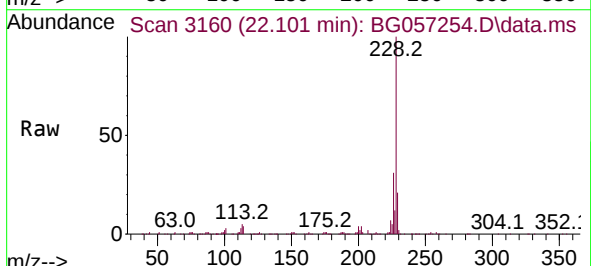
Manual Integrations  
APPROVED

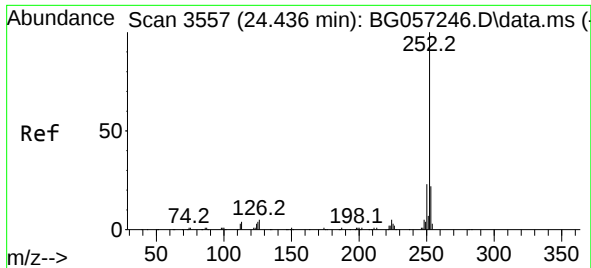
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#87  
Chrysene  
Concen: 36.678 ng/u1  
RT: 22.101 min Scan# 3160  
Delta R.T. 0.004 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

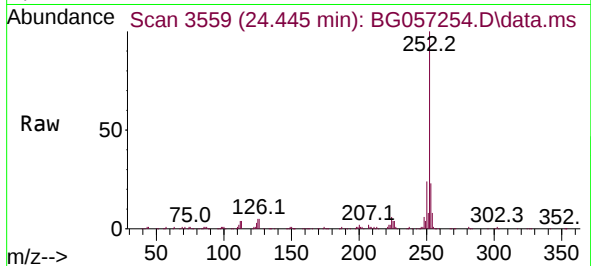
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Ion Ratio Lower Upper  
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226 31.1 22.8 34.2  
229 20.5 15.5 23.3





#90  
Benzo(b)fluoranthene  
Concen: 46.128 ng/ul  
RT: 24.445 min Scan# 3559  
Delta R.T. 0.009 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

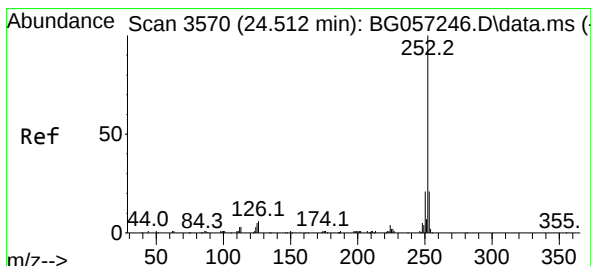
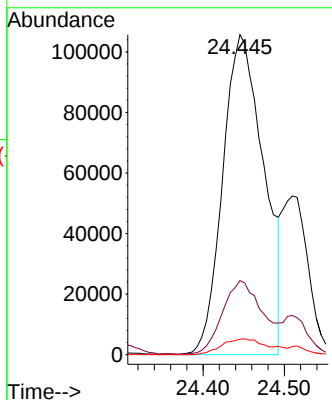
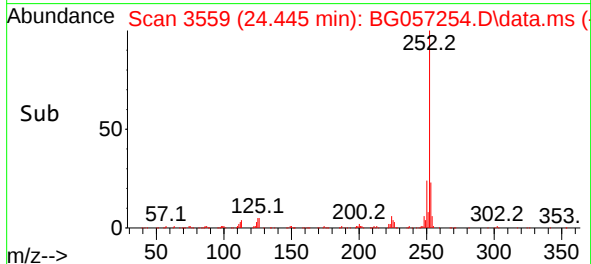
Instrument :  
BNA\_G  
ClientSampleId :  
EW904DL



Tgt Ion:252 Resp: 370599  
Ion Ratio Lower Upper  
252 100  
253 23.1 16.7 25.1  
125 4.9 4.8 7.2

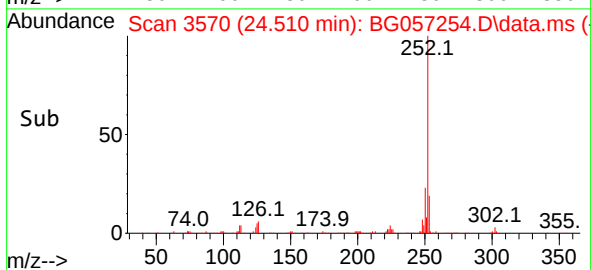
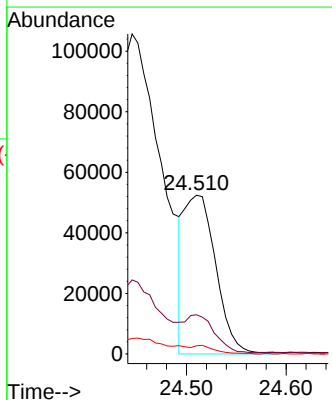
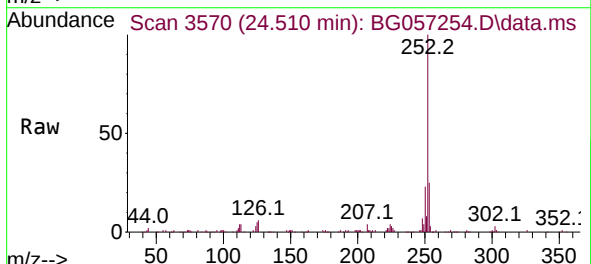
Manual Integrations  
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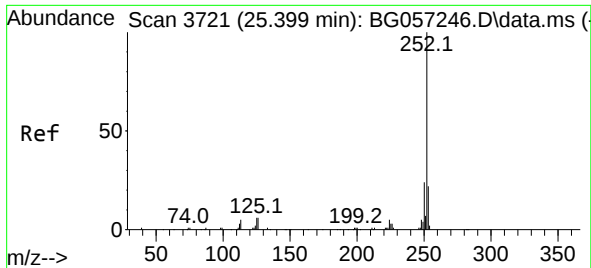
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#91  
Benzo(k)fluoranthene  
Concen: 14.820 ng/ul m  
RT: 24.510 min Scan# 3570  
Delta R.T. -0.002 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

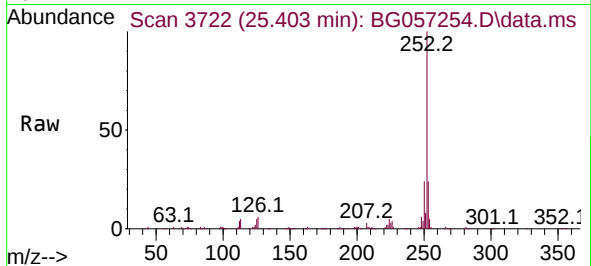
Tgt Ion:252 Resp: 115838  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.7 26.5  
125 5.2 4.5 6.7





#93  
Benzo(a)pyrene  
Concen: 32.691 ng/u1  
RT: 25.403 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

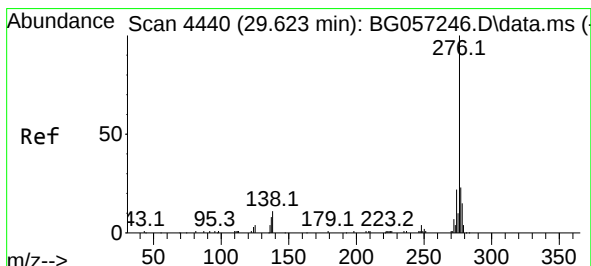
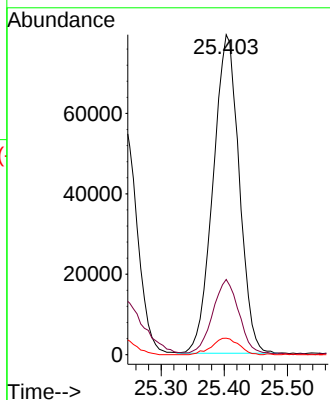
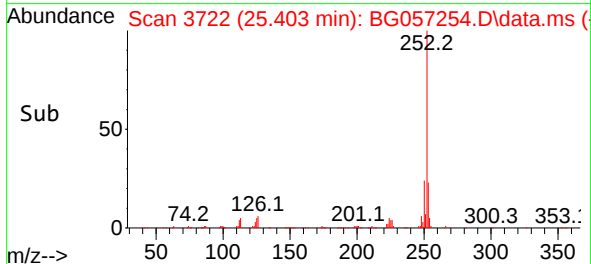
Instrument :  
BNA\_G  
ClientSampleId :  
EW904DL



Tgt Ion:252 Resp: 226744  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.2 25.8  
125 5.2 5.1 7.7

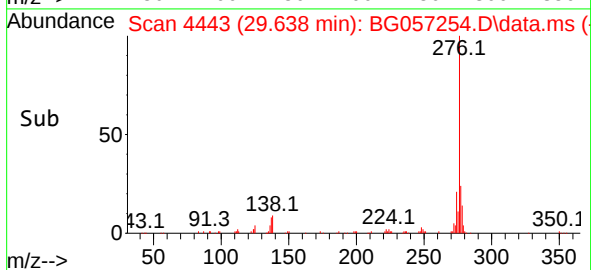
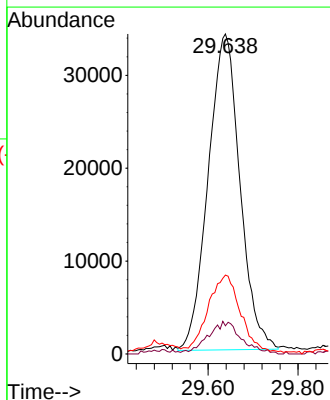
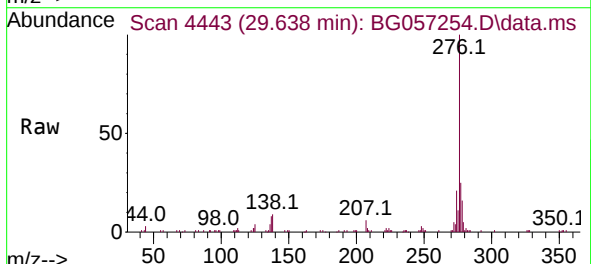
Manual Integrations  
APPROVED

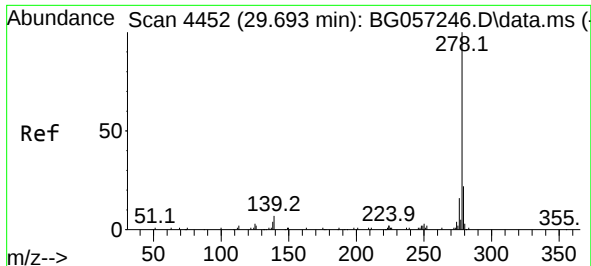
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 19.267 ng/u1  
RT: 29.638 min Scan# 4443  
Delta R.T. 0.015 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

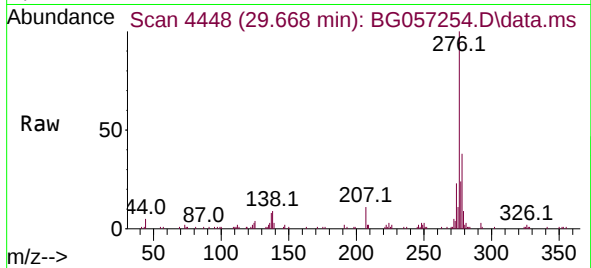
Tgt Ion:276 Resp: 167055  
Ion Ratio Lower Upper  
276 100  
138 8.8 9.4 14.2#  
277 24.6 18.6 28.0





#95  
Dibenzo(a,h)anthracene  
Concen: 6.452 ng/ul m  
RT: 29.668 min Scan# 4448  
Delta R.T. -0.026 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

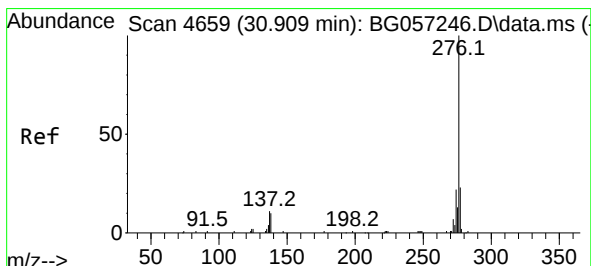
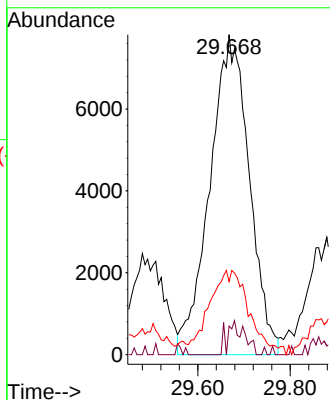
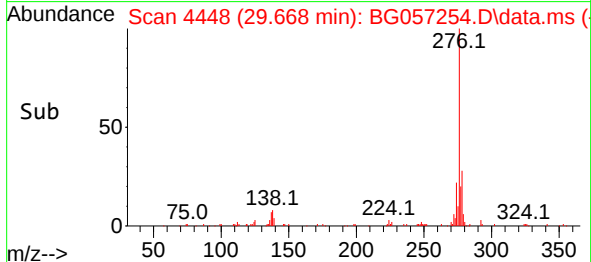
Instrument :  
BNA\_G  
ClientSampleId :  
EW904DL



Tgt Ion:278 Resp: 4638  
Ion Ratio Lower Upper  
278 100  
139 8.9 5.8 8.6  
279 22.9 18.3 27.5

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#96  
Benzo(g,h,i)perylene  
Concen: 19.401 ng/ul m  
RT: 30.907 min Scan# 4659  
Delta R.T. -0.002 min  
Lab File: BG057254.D  
Acq: 1 May 2023 16:58

Tgt Ion:276 Resp: 136140  
Ion Ratio Lower Upper  
276 100  
138 12.0 8.7 13.1  
277 22.3 18.4 27.6

