

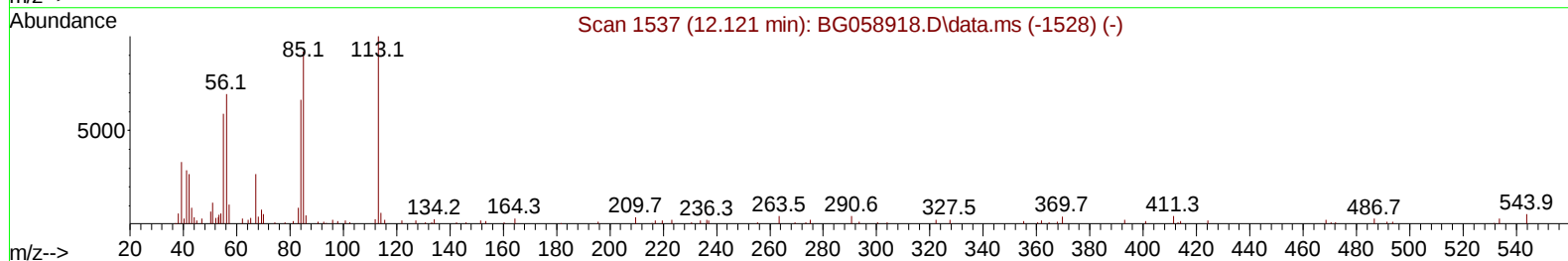
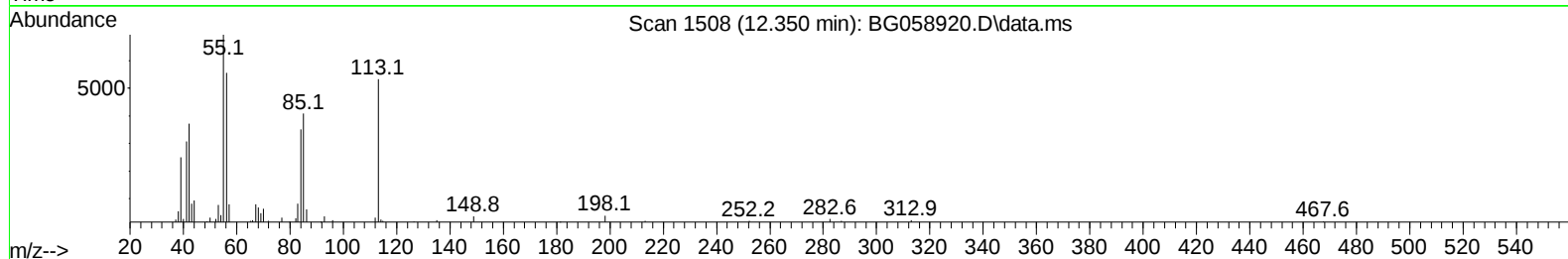
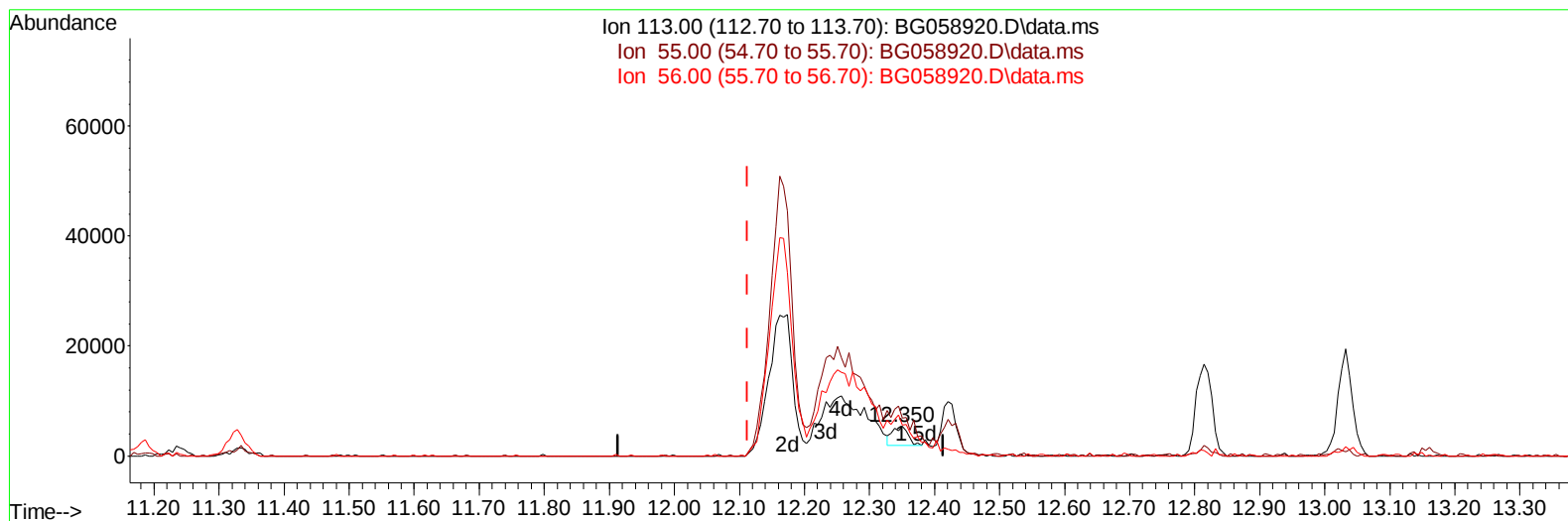
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
 Data File : BG058920.D  
 Acq On : 8 Sep 2023 14:47  
 Operator : MA/JU  
 Sample : SSTD08005  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD080404

Manual IntegrationsAPPROVED

Quant Time: Sep 08 23:20:38 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Sep 08 22:56:23 2023  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/09/2023  
 Supervised By :mohammad ahmed 09/10/2023



TIC: BG058920.D\data.ms

**(34) Caprolactam**

**12.350min (+ 0.237) 3.44 ng/ul**

**response 5630**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 130.70 | 130.19 |
| 56.00  | 123.50 | 104.49 |
| 0.00   | 0.00   | 0.00   |

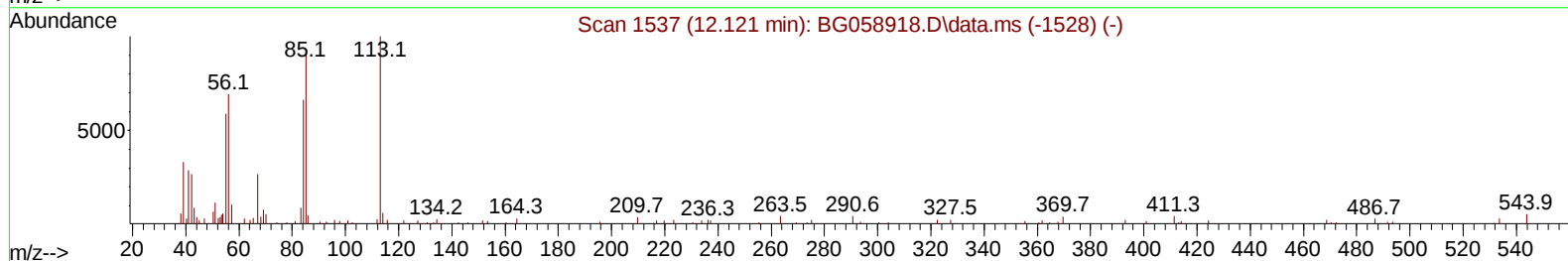
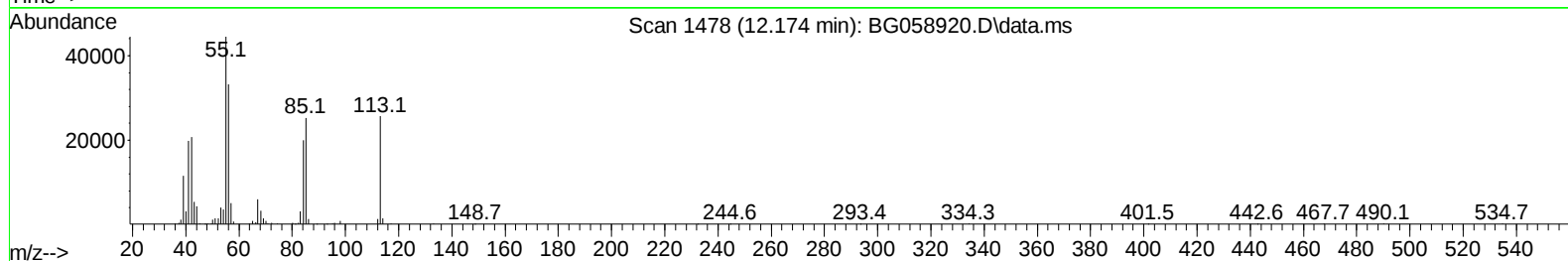
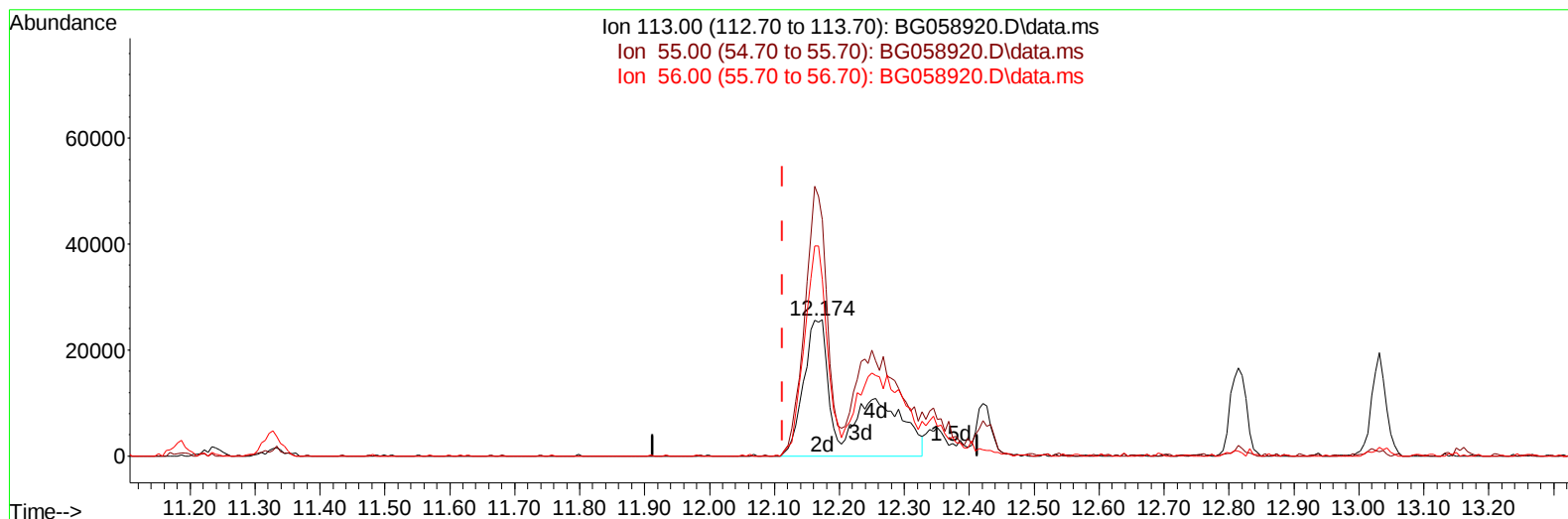
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
Data File : BG058920.D  
Acq On : 8 Sep 2023 14:47  
Operator : MA/JU  
Sample : SSTD08005  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD080404

Manual IntegrationsAPPROVED

Quant Time: Sep 08 23:20:38 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Sep 08 22:56:23 2023  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/09/2023  
Supervised By :mohammad ahmed 09/10/2023



TIC: BG058920.D\data.ms

(34) Caprolactam

12.174min (+ 0.061) 74.43 ng/ul m

response 121943

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 113.00 | 100.00 | 100.00  |
| 55.00  | 130.70 | 173.23# |
| 56.00  | 123.50 | 129.64  |
| 0.00   | 0.00   | 0.00    |

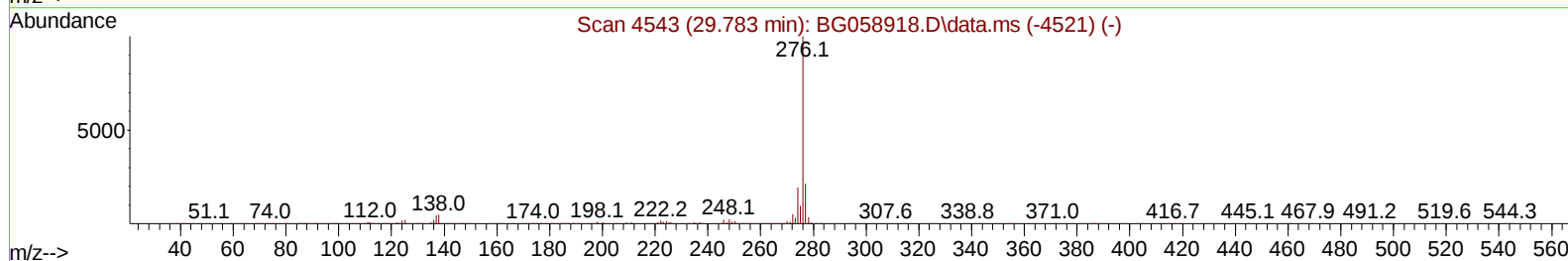
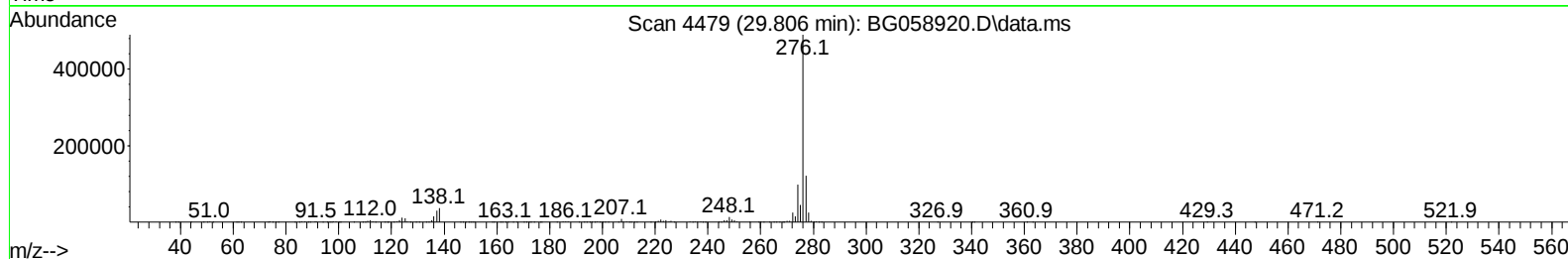
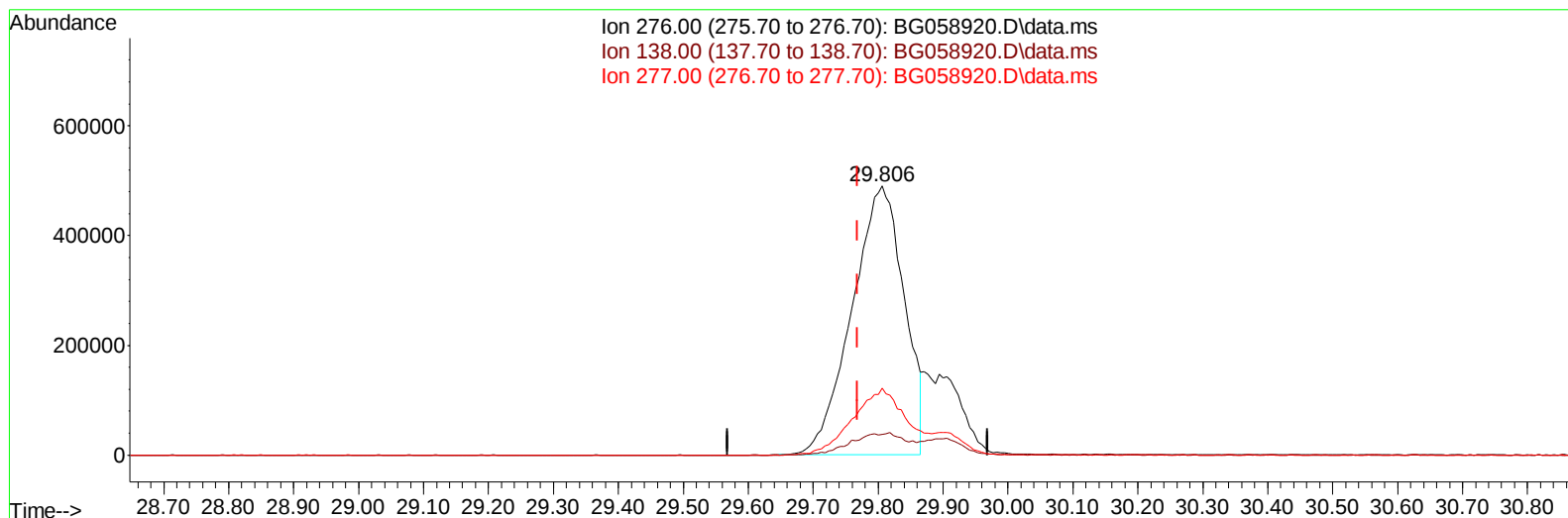
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
Data File : BG058920.D  
Acq On : 8 Sep 2023 14:47  
Operator : MA/JU  
Sample : SSTD08005  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD080404

Manual IntegrationsAPPROVED

Quant Time: Sep 08 23:20:38 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Sep 08 22:56:23 2023  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/09/2023  
Supervised By :mohammad ahmed 09/10/2023



TIC: BG058920.D\data.ms

(94) Indeno(1,2,3-cd)pyrene

29.806min (+ 0.038) 67.43 ng/u1

response 2737710

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 7.70   | 7.59   |
| 277.00 | 22.20  | 24.83  |
| 0.00   | 0.00   | 0.00   |

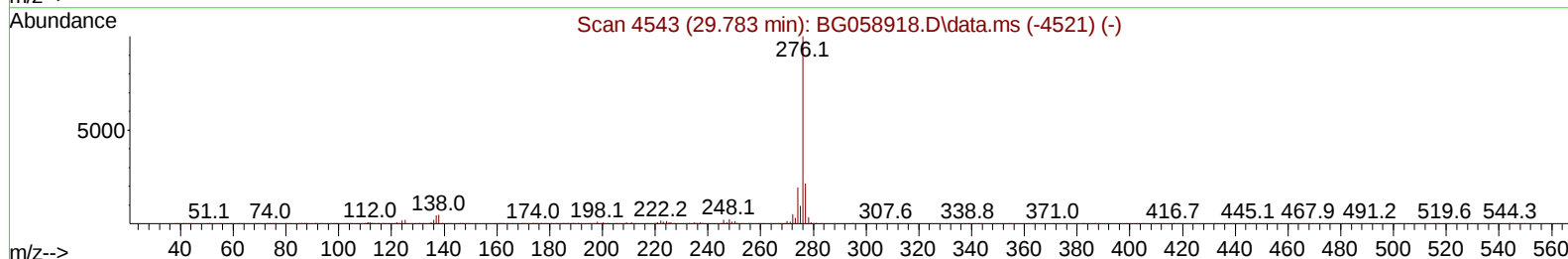
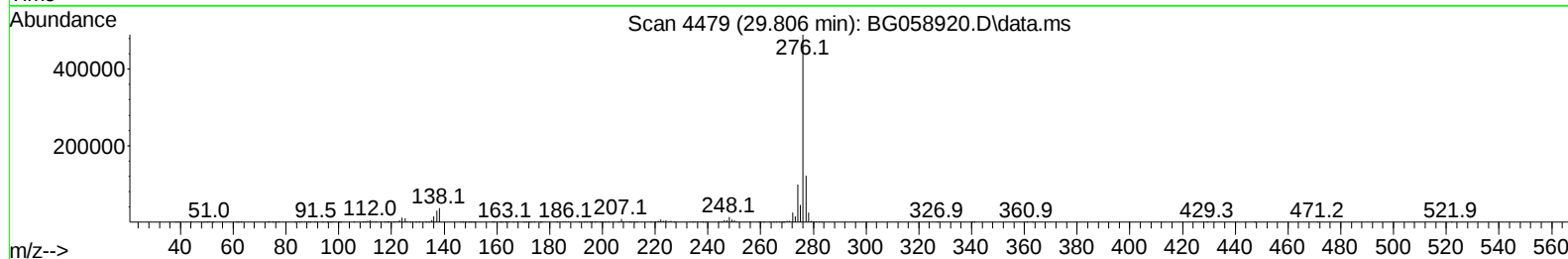
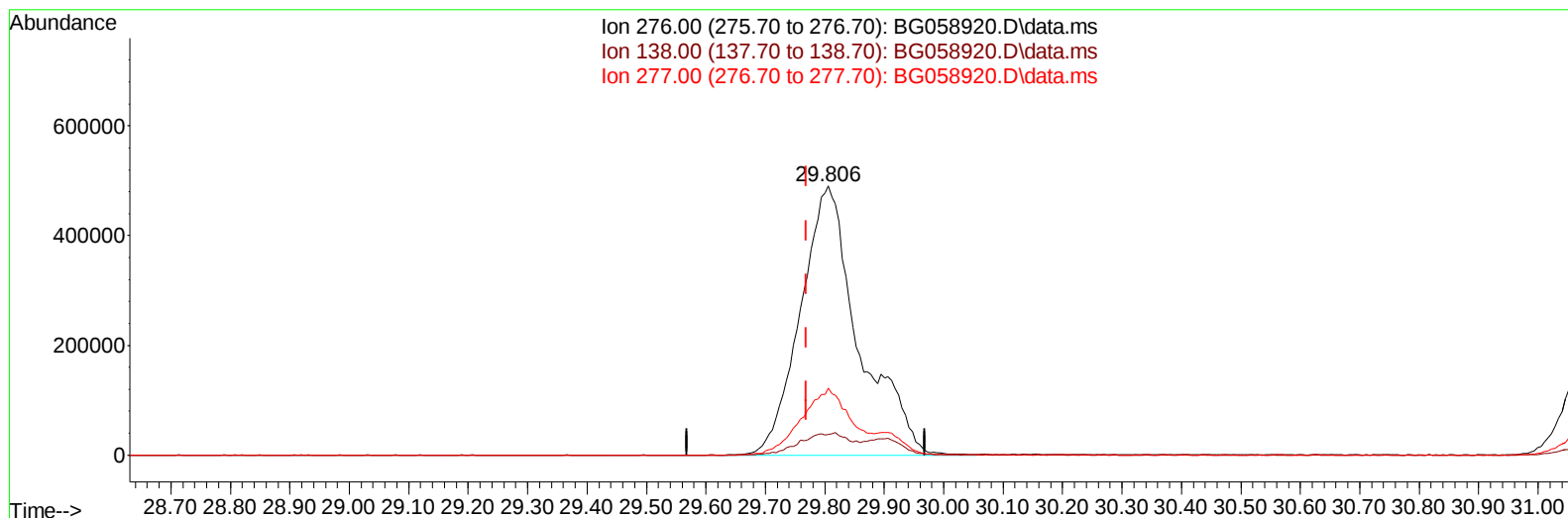
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
Data File : BG058920.D  
Acq On : 8 Sep 2023 14:47  
Operator : MA/JU  
Sample : SSTD08005  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD080404

Manual IntegrationsAPPROVED

Quant Time: Sep 08 23:20:38 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Sep 08 22:56:23 2023  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/09/2023  
Supervised By :mohammad ahmed 09/10/2023



TIC: BG058920.D\data.ms

**(94) Indeno(1,2,3-cd)pyrene**

29.806min (+ 0.038) 82.38 ng/ul m

response 3344552

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 7.70   | 7.59   |
| 277.00 | 22.20  | 24.83  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
 Data File : BG058920.D  
 Acq On : 8 Sep 2023 14:47  
 Operator : MA/JU  
 Sample : SSTD08005  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD080404

Manual IntegrationsAPPROVED

Quant Time: Sep 08 23:45:14 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Sep 08 22:56:23 2023  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/09/2023  
 Supervised By :mohammad ahmed 09/10/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.337  | 152  | 61332    | 20.000  | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 11.181 | 136  | 272253   | 20.000  | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.965 | 164  | 241575   | 20.000  | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.715 | 188  | 622736   | 20.000  | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 22.045 | 240  | 495846   | 20.000  | ng/ul  | 0.00     |
| 88) Perylene-d12              | 25.629 | 264  | 577679   | 20.000  | ng/ul  | 0.01     |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.643  | 96   | 38958    | 30.578  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 4.078  | 84   | 353333   | 80.478  | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.450  | 99   | 502076   | 82.536  | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.662  | 67   | 280405   | 81.482  | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.856  | 132  | 314382   | 86.641  | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.025  | 113  | 394618   | 83.701  | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.542  | 128  | 162941   | 101.607 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.259 | 143  | 176550   | 100.500 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.782 | 165  | 444528   | 87.219  | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.328 | 131  | 527162   | 80.633  | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.366 | 166  | 1471047  | 78.885  | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.671 | 160  | 1604961  | 79.624  | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.147 | 143  | 215450   | 87.447  | ng/ul  | 0.03     |
| 60) Fluorene-d10              | 15.958 | 176  | 1390079  | 79.091  | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.069 | 200  | 251526   | 88.716  | ng/ul  | 0.02     |
| 73) Anthracene-d10            | 17.820 | 188  | 2231061  | 78.752  | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 20.088 | 212  | 2197378  | 76.413  | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.388 | 264  | 2346583  | 82.461  | ng/ul  | 0.03     |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 2) 1,4-Dioxane                | 3.678  | 88   | 45953    | 28.623  | ng/uL  | 93       |
| 5) Pyridine                   | 4.095  | 79   | 370478   | 79.201  | ng/ul# | 85       |
| 6) Benzaldehyde               | 7.485  | 77   | 266730   | 74.388  | ng/ul  | 97       |
| 8) Phenol                     | 7.480  | 94   | 512392   | 80.772  | ng/ul# | 89       |
| 10) Bis(2-Chloroethyl)ether   | 7.756  | 93   | 376993   | 80.129  | ng/ul  | 98       |
| 12) 2-Chlorophenol            | 7.885  | 128  | 315043   | 86.111  | ng/ul  | 97       |
| 13) 2-Methylphenol            | 8.755  | 108  | 390462   | 82.204  | ng/ul  | 97       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.843  | 45   | 440134   | 81.284  | ng/ul  | 95       |
| 16) Acetophenone              | 9.189  | 105  | 700317   | 83.308  | ng/ul  | 99       |
| 17) N-Nitroso-di-n-propyla... | 9.166  | 70   | 386191   | 87.835  | ng/ul# | 97       |
| 18) 4-Methylphenol            | 9.095  | 108  | 434501   | 83.600  | ng/ul  | 99       |
| 19) Hexachloroethane          | 9.424  | 117  | 127691   | 85.512  | ng/ul  | 91       |
| 22) Nitrobenzene              | 9.583  | 77   | 530116   | 96.655  | ng/ul# | 96       |
| 23) Isophorone                | 10.106 | 82   | 1113623  | 81.380  | ng/ul  | 98       |
| 25) 2-Nitrophenol             | 10.288 | 139  | 192128   | 101.392 | ng/ul# | 80       |
| 26) 2,4-Dimethylphenol        | 10.312 | 107  | 494694   | 83.970  | ng/ul  | 89       |
| 27) Bis(2-Chloroethoxy)met... | 10.576 | 93   | 566046   | 79.877  | ng/ul# | 89       |
| 29) 2,4-Dichlorophenol        | 10.811 | 162  | 422200   | 87.394  | ng/ul  | 97       |
| 30) Naphthalene               | 11.234 | 128  | 1165321  | 79.235  | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 11.351 | 127  | 509765   | 82.209  | ng/ul  | 97       |
| 33) Hexachlorobutadiene       | 11.469 | 225  | 381328   | 80.599  | ng/ul  | 91       |
| 34) Caprolactam               | 12.174 | 113  | 121943m  | 74.434  | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 12.427 | 107  | 472709   | 83.281  | ng/ul  | 95       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
 Data File : BG058920.D  
 Acq On : 8 Sep 2023 14:47  
 Operator : MA/JU  
 Sample : SST008005  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SST0080404

Manual IntegrationsAPPROVED

Quant Time: Sep 08 23:45:14 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Sep 08 22:56:23 2023  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/09/2023  
 Supervised By :mohammad ahmed 09/10/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.814 | 142  | 869849   | 78.128  | ng/ul  | 99       |
| 37) 1-Methylnaphthalene       | 13.032 | 142  | 890915   | 78.234  | ng/ul  | 94       |
| 39) 1,2,4,5-Tetrachloroben... | 13.155 | 216  | 751604   | 83.382  | ng/ul  | 95       |
| 40) Hexachlorocyclopentadiene | 13.108 | 237  | 497595   | 76.702  | ng/ul  | 100      |
| 41) 2,4,6-Trichlorophenol     | 13.396 | 196  | 460208   | 87.858  | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 13.467 | 196  | 491198   | 87.312  | ng/ul  | 96       |
| 43) 1,1'-Biphenyl             | 13.807 | 154  | 1319777  | 80.292  | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.860 | 162  | 1054322  | 80.425  | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 14.072 | 65   | 319858   | 110.349 | ng/ul  | 93       |
| 47) Dimethylphthalate         | 14.418 | 163  | 1499051  | 79.063  | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 14.559 | 165  | 274631   | 102.053 | ng/ul  | 96       |
| 50) Acenaphthylene            | 14.700 | 152  | 1744518  | 77.557  | ng/ul  | 94       |
| 51) 3-Nitroaniline            | 14.894 | 138  | 237917   | 87.736  | ng/ul  | 100      |
| 52) Acenaphthene              | 15.029 | 153  | 1155961  | 78.931  | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 15.082 | 184  | 180886   | 79.459  | ng/ul# | 93       |
| 55) 4-Nitrophenol             | 15.165 | 109  | 282619   | 91.714  | ng/ul  | 90       |
| 56) Dibenzofuran              | 15.364 | 168  | 1696131  | 77.582  | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 15.335 | 165  | 383430   | 98.770  | ng/ul# | 94       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.570 | 232  | 524047   | 88.318  | ng/ul# | 98       |
| 59) Diethylphthalate          | 15.770 | 149  | 1357780  | 79.680  | ng/ul  | 98       |
| 61) Fluorene                  | 16.017 | 166  | 1405617  | 75.731  | ng/ul  | 96       |
| 62) 4-Chlorophenyl-phenyle... | 15.993 | 204  | 893599   | 80.254  | ng/ul  | 92       |
| 63) 4-Nitroaniline            | 16.064 | 138  | 215196   | 83.763  | ng/ul# | 72       |
| 66) 4,6-Dinitro-2-methylph... | 16.081 | 198  | 268043   | 90.054  | ng/ul# | 96       |
| 67) N-Nitrosodiphenylamine    | 16.216 | 169  | 1260887  | 82.332  | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.892 | 248  | 626029   | 82.788  | ng/ul# | 88       |
| 69) Hexachlorobenzene         | 16.980 | 284  | 724916   | 83.076  | ng/ul  | 96       |
| 70) Atrazine                  | 17.156 | 200  | 496438   | 80.740  | ng/ul  | 96       |
| 71) Pentachlorophenol         | 17.333 | 266  | 468407   | 87.402  | ng/ul  | 97       |
| 72) Phenanthrene              | 17.762 | 178  | 2350868  | 77.773  | ng/ul  | 98       |
| 74) Anthracene                | 17.856 | 178  | 2400163  | 77.760  | ng/ul  | 96       |
| 75) 1,2,3,4-Tetrachloroben... | 13.760 | 216  | 811860   | 89.780  | ng/uL  | 97       |
| 76) Pentachlorobenzene        | 15.259 | 250  | 797720   | 87.530  | ng/uL  | 97       |
| 77) Carbazole                 | 18.126 | 167  | 1806972  | 77.128  | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.643 | 149  | 1723419  | 81.830  | ng/ul# | 96       |
| 80) Fluoranthene              | 19.747 | 202  | 2598326  | 74.346  | ng/ul  | 100      |
| 82) Pyrene                    | 20.118 | 202  | 2593898  | 74.097  | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.987 | 149  | 589977   | 97.199  | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.933 | 252  | 872644   | 80.572  | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 22.027 | 228  | 2685872  | 79.560  | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.880 | 149  | 910207   | 96.129  | ng/ul  | 97       |
| 87) Chrysene                  | 22.104 | 228  | 2522346  | 79.760  | ng/ul  | 98       |
| 89) Di-n-octyl phthalate      | 23.232 | 149  | 1594186  | 88.366  | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.477 | 252  | 2790613  | 80.216  | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 24.560 | 252  | 2802409  | 80.059  | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 25.476 | 252  | 2641069  | 81.136  | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.806 | 276  | 3344552m | 82.382  | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.900 | 278  | 2748195  | 83.278  | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 31.134 | 276  | 2625361  | 81.346  | ng/ul  | 97       |

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

**Instrument :**

BNA\_G

**ClientSampleId :**

SSTD080404

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 09/09/2023

Supervised By :mohammad ahmed 09/10/2023

