

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG092623\  
 Data File : BG059191.D  
 Acq On : 26 Sep 2023 10:15  
 Operator : MA/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020572

Quant Time: Sep 26 22:38:14 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG091923.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 25 22:33:28 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/27/2023  
 Supervised By :mohammad ahmed 09/29/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.296  | 152  | 36433    | 20.000 | ng/u1  | # 0.00   |
| 20) Naphthalene-d8            | 11.140 | 136  | 185144   | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.924 | 164  | 129162   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.674 | 188  | 317631   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.998 | 240  | 272574   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 25.541 | 264  | 317659   | 20.000 | ng/u1  | -0.02    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.608  | 96   | 8994     | 9.663  | ng/uL  | -0.02    |
| 4) Pyridine-d5                | 4.043  | 84   | 64487    | 23.616 | ng/u1  | -0.02    |
| 7) Phenol-d5                  | 7.421  | 99   | 78677    | 21.962 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.615  | 67   | 49830    | 22.666 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.815  | 132  | 59613    | 22.549 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.990  | 113  | 61641    | 21.605 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.495  | 128  | 33035    | 23.123 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.212 | 143  | 32901    | 22.797 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.741 | 165  | 61937    | 22.605 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.281 | 131  | 91991    | 21.511 | ng/u1  | -0.02    |
| 46) Dimethylphthalate-d6      | 14.319 | 166  | 232361   | 23.392 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.624 | 160  | 263798   | 21.810 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.112 | 143  | 27425    | 15.132 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.911 | 176  | 202664   | 22.289 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.017 | 200  | 36778    | 20.366 | ng/u1  | -0.02    |
| 73) Anthracene-d10            | 17.774 | 188  | 311651   | 21.564 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.047 | 212  | 360695   | 22.640 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.294 | 264  | 327313   | 21.102 | ng/u1  | -0.02    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.649  | 88   | 9473     | 9.001  | ng/uL  | 96       |
| 5) Pyridine                   | 4.066  | 79   | 61296    | 22.029 | ng/u1# | 90       |
| 6) Benzaldehyde               | 7.439  | 77   | 47379    | 25.506 | ng/u1  | 97       |
| 8) Phenol                     | 7.450  | 94   | 79991    | 21.724 | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.709  | 93   | 66669    | 22.552 | ng/u1  | 92       |
| 12) 2-Chlorophenol            | 7.844  | 128  | 62946    | 23.337 | ng/u1  | 93       |
| 13) 2-Methylphenol            | 8.720  | 108  | 59202    | 21.665 | ng/u1  | 93       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.802  | 45   | 142902m  | 23.282 | ng/u1  |          |
| 16) Acetophenone              | 9.137  | 105  | 99111    | 22.564 | ng/u1  | 98       |
| 17) N-Nitroso-di-n-propyla... | 9.096  | 70   | 52615    | 23.695 | ng/u1# | 96       |
| 18) 4-Methylphenol            | 9.054  | 108  | 65476    | 22.359 | ng/u1  | 81       |
| 19) Hexachloroethane          | 9.378  | 117  | 23104    | 21.786 | ng/u1  | 97       |
| 22) Nitrobenzene              | 9.536  | 77   | 72426    | 22.387 | ng/u1  | 96       |
| 23) Isophorone                | 10.041 | 82   | 155687   | 22.441 | ng/u1# | 94       |
| 25) 2-Nitrophenol             | 10.247 | 139  | 35900    | 22.259 | ng/u1  | 98       |
| 26) 2,4-Dimethylphenol        | 10.271 | 107  | 66695    | 22.118 | ng/u1  | 93       |
| 27) Bis(2-Chloroethoxy)met... | 10.523 | 93   | 93963    | 21.771 | ng/u1# | 96       |
| 29) 2,4-Dichlorophenol        | 10.770 | 162  | 61377    | 22.160 | ng/u1  | 93       |
| 30) Naphthalene               | 11.193 | 128  | 218506   | 22.055 | ng/u1  | 98       |
| 32) 4-Chloroaniline           | 11.305 | 127  | 87436    | 20.770 | ng/u1  | 94       |
| 33) Hexachlorobutadiene       | 11.416 | 225  | 39215    | 21.997 | ng/u1# | 72       |
| 34) Caprolactam               | 12.086 | 113  | 26182    | 25.812 | ng/u1# | 42       |
| 35) 4-Chloro-3-methylphenol   | 12.386 | 107  | 70739    | 24.247 | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.768 | 142  | 142941   | 21.603 | ng/u1  | 96       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.985 | 142  | 152542   | 22.822 | ng/ul  | 96       |
| 39) 1,2,4,5-Tetrachloroben... | 13.114 | 216  | 77211    | 20.391 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 13.067 | 237  | 41094    | 17.023 | ng/ul# | 93       |
| 41) 2,4,6-Trichlorophenol     | 13.355 | 196  | 50407    | 20.386 | ng/ul  | 86       |
| 42) 2,4,5-Trichlorophenol     | 13.432 | 196  | 55865    | 20.887 | ng/ul  | 95       |
| 43) 1,1'-Biphenyl             | 13.761 | 154  | 217209   | 21.069 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.814 | 162  | 161581   | 20.526 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 14.031 | 65   | 53490    | 21.436 | ng/ul  | 91       |
| 47) Dimethylphthalate         | 14.366 | 163  | 228712   | 22.542 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.507 | 165  | 42761    | 22.807 | ng/ul# | 90       |
| 50) Acenaphthylene            | 14.654 | 152  | 279177   | 21.610 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.854 | 138  | 39360    | 19.026 | ng/ul  | 96       |
| 52) Acenaphthene              | 14.989 | 153  | 186671   | 21.307 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 15.047 | 184  | 16047    | 14.205 | ng/ul# | 80       |
| 55) 4-Nitrophenol             | 15.130 | 109  | 17531    | 14.636 | ng/ul# | 75       |
| 56) Dibenzofuran              | 15.318 | 168  | 252725   | 21.748 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 15.288 | 165  | 62243    | 23.027 | ng/ul# | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.529 | 232  | 55783    | 22.532 | ng/ul# | 88       |
| 59) Diethylphthalate          | 15.711 | 149  | 228911   | 22.897 | ng/ul  | 98       |
| 61) Fluorene                  | 15.970 | 166  | 217641   | 21.935 | ng/ul  | 97       |
| 62) 4-Chlorophenyl-phenyle... | 15.946 | 204  | 110861   | 22.512 | ng/ul  | 94       |
| 63) 4-Nitroaniline            | 16.011 | 138  | 26882m   | 14.018 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 16.034 | 198  | 38830    | 19.950 | ng/ul# | 98       |
| 67) N-Nitrosodiphenylamine    | 16.170 | 169  | 180595   | 21.356 | ng/ul  | 94       |
| 68) 4-Bromophenyl-phenylether | 16.851 | 248  | 69747    | 22.569 | ng/ul  | 93       |
| 69) Hexachlorobenzene         | 16.939 | 284  | 79519    | 22.465 | ng/ul  | 95       |
| 70) Atrazine                  | 17.104 | 200  | 81857    | 24.327 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 17.298 | 266  | 38767m   | 16.861 | ng/ul  |          |
| 72) Phenanthrene              | 17.715 | 178  | 390289   | 21.957 | ng/ul  | 99       |
| 74) Anthracene                | 17.809 | 178  | 396925   | 21.854 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.720 | 216  | 83011    | 19.603 | ng/uL  | 92       |
| 76) Pentachlorobenzene        | 15.212 | 250  | 80994    | 20.678 | ng/uL  | 97       |
| 77) Carbazole                 | 18.085 | 167  | 303531   | 20.102 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.590 | 149  | 434919   | 23.381 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.713 | 202  | 454627   | 22.899 | ng/ul  | 99       |
| 82) Pyrene                    | 20.077 | 202  | 464767   | 22.443 | ng/ul  | 98       |
| 83) Butylbenzylphthalate      | 20.929 | 149  | 181634   | 24.282 | ng/ul  | 96       |
| 84) 3,3'-Dichlorobenzidine    | 21.886 | 252  | 108971   | 16.544 | ng/ul# | 94       |
| 85) Benzo(a)anthracene        | 21.975 | 228  | 421528   | 21.301 | ng/ul  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 21.804 | 149  | 282272   | 25.221 | ng/ul  | 98       |
| 87) Chrysene                  | 22.045 | 228  | 401438   | 21.752 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.120 | 149  | 465355   | 23.962 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.389 | 252  | 432976   | 22.368 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 24.466 | 252  | 418121   | 20.834 | ng/ul  | 97       |
| 93) Benzo(a)pyrene            | 25.371 | 252  | 388132   | 20.864 | ng/ul  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.654 | 276  | 405264m  | 19.155 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.724 | 278  | 282848m  | 16.636 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 30.958 | 276  | 352140m  | 20.662 | ng/ul  |          |

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

