

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG031124\  
 Data File : BG060605.D  
 Acq On : 11 Mar 2024 10:28  
 Operator : MA/JU  
 Sample : P1601-01  
 Misc : SFAM-MDL-WATER-01  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-WATER-QT1-2024-01

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 03/12/2024  
 Supervised By :mohammad ahmed 03/12/2024

Quant Time: Mar 12 00:20:25 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG030824.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 08 15:23:41 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.325  | 152  | 85098    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 11.169 | 136  | 388163   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.953 | 164  | 265786   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.703 | 188  | 591209   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 22.021 | 240  | 544541   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 25.588 | 264  | 608879   | 20.000 | ng/ul  | 0.01     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.613  | 96   | 10407m   | 4.617  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 4.048  | 84   | 146279   | 20.739 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.432  | 99   | 180312   | 20.562 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.644  | 67   | 118161   | 20.785 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.838  | 132  | 131980   | 21.526 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.007  | 113  | 138460   | 20.335 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.524  | 128  | 57958    | 23.416 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.241 | 143  | 53191    | 21.800 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.764 | 165  | 134642   | 21.435 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.310 | 131  | 200953   | 20.581 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.348 | 166  | 461310   | 21.893 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.653 | 160  | 545085   | 22.093 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.117 | 143  | 61588    | 19.393 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.940 | 176  | 406972   | 21.979 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.040 | 200  | 38229    | 15.931 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.803 | 188  | 591984   | 20.375 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 20.070 | 212  | 705676   | 21.509 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.335 | 264  | 681601   | 21.635 | ng/ul  | 0.01     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.660  | 88   | 2491m    | 1.042  | ng/uL  |          |
| 5) Pyridine                   | 4.066  | 79   | 29273    | 4.092  | ng/ul# | 56       |
| 6) Benzaldehyde               | 7.468  | 77   | 22669    | 5.455  | ng/ul  | 91       |
| 8) Phenol                     | 7.462  | 94   | 37330    | 4.207  | ng/ul  | 90       |
| 10) Bis(2-Chloroethyl)ether   | 7.738  | 93   | 29929    | 4.247  | ng/ul  | 90       |
| 12) 2-Chlorophenol            | 7.867  | 128  | 26738    | 4.165  | ng/ul# | 87       |
| 13) 2-Methylphenol            | 8.737  | 108  | 27290m   | 3.948  | ng/ul  |          |
| 14) 2,2'-oxybis(1-Chloropr... | 8.831  | 45   | 60682m   | 4.258  | ng/ul  |          |
| 16) Acetophenone              | 9.172  | 105  | 48809    | 4.201  | ng/ul  | 93       |
| 17) N-Nitroso-di-n-propyla... | 9.124  | 70   | 24858    | 4.363  | ng/ul  | 97       |
| 18) 4-Methylphenol            | 9.072  | 108  | 31116    | 4.133  | ng/ul  | 87       |
| 19) Hexachloroethane          | 9.412  | 117  | 11041    | 4.391  | ng/ul  | 96       |
| 22) Nitrobenzene              | 9.565  | 77   | 33317    | 4.818  | ng/ul# | 92       |
| 23) Isophorone                | 10.070 | 82   | 71107    | 4.328  | ng/ul  | 99       |
| 25) 2-Nitrophenol             | 10.276 | 139  | 12061    | 4.293  | ng/ul  | 93       |
| 26) 2,4-Dimethylphenol        | 10.294 | 107  | 22277    | 2.919  | ng/ul  | 92       |
| 27) Bis(2-Chloroethoxy)met... | 10.558 | 93   | 41218    | 4.315  | ng/ul  | 98       |
| 29) 2,4-Dichlorophenol        | 10.793 | 162  | 25898    | 4.128  | ng/ul  | 93       |
| 30) Naphthalene               | 11.222 | 128  | 102777   | 4.479  | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 11.334 | 127  | 39148    | 4.108  | ng/ul  | 100      |
| 33) Hexachlorobutadiene       | 11.451 | 225  | 21274    | 4.583  | ng/ul  | 90       |
| 34) Caprolactam               | 12.109 | 113  | 10315    | 4.802  | ng/ul  | 87       |
| 35) 4-Chloro-3-methylphenol   | 12.397 | 107  | 32521    | 4.319  | ng/ul  | 92       |
| 36) 2-Methylnaphthalene       | 12.803 | 142  | 68390    | 4.536  | ng/ul  | 90       |

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 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/12/2024  
 Supervised By :mohammad ahmed 03/12/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 13.014 | 142  | 70364    | 4.659 | ng/ul# | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 13.143 | 216  | 37376    | 4.272 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 13.096 | 237  | 16389    | 3.076 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 13.378 | 196  | 20880    | 3.833 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 13.443 | 196  | 23700    | 4.079 | ng/ul  | 93       |
| 43) 1,1'-Biphenyl             | 13.790 | 154  | 91186    | 4.273 | ng/ul  | 91       |
| 44) 2-Chloronaphthalene       | 13.842 | 162  | 72800    | 4.299 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 14.054 | 65   | 18031    | 3.897 | ng/ul  | 96       |
| 47) Dimethylphthalate         | 14.395 | 163  | 95341    | 4.446 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 14.536 | 165  | 11829    | 3.838 | ng/ul# | 81       |
| 50) Acenaphthylene            | 14.683 | 152  | 123828   | 4.391 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.871 | 138  | 13947    | 3.841 | ng/ul# | 80       |
| 52) Acenaphthene              | 15.018 | 153  | 81072    | 4.331 | ng/ul  | 97       |
| 53) 2,4-Dinitrophenol         | 15.065 | 184  | 6413     | 4.092 | ng/ul# | 77       |
| 55) 4-Nitrophenol             | 15.129 | 109  | 13354    | 4.353 | ng/ul  | 94       |
| 56) Dibenzofuran              | 15.347 | 168  | 109873   | 4.373 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 15.305 | 165  | 16981    | 4.055 | ng/ul  | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.552 | 232  | 20843    | 4.211 | ng/ul# | 90       |
| 59) Diethylphthalate          | 15.740 | 149  | 96175    | 4.397 | ng/ul  | 98       |
| 61) Fluorene                  | 15.993 | 166  | 92224    | 4.430 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.981 | 204  | 47871    | 4.592 | ng/ul# | 88       |
| 63) 4-Nitroaniline            | 16.028 | 138  | 14637m   | 4.047 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 16.058 | 198  | 9288     | 3.505 | ng/ul  | 97       |
| 67) N-Nitrosodiphenylamine    | 16.199 | 169  | 79943    | 4.233 | ng/ul  | 93       |
| 68) 4-Bromophenyl-phenylether | 16.874 | 248  | 26504    | 3.900 | ng/ul  | 96       |
| 69) Hexachlorobenzene         | 16.962 | 284  | 33585    | 4.134 | ng/ul# | 89       |
| 70) Atrazine                  | 17.127 | 200  | 33555    | 5.243 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 17.321 | 266  | 16220m   | 3.623 | ng/ul  |          |
| 72) Phenanthrene              | 17.744 | 178  | 148781   | 4.385 | ng/ul  | 99       |
| 74) Anthracene                | 17.838 | 178  | 143174   | 4.144 | ng/ul  | 97       |
| 75) 1,2,3,4-Tetrachloroben... | 13.748 | 216  | 36205    | 4.100 | ng/ul  | 94       |
| 76) Pentachlorobenzene        | 15.241 | 250  | 41832    | 4.601 | ng/ul  | 95       |
| 77) Carbazole                 | 18.108 | 167  | 126318   | 4.263 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.619 | 149  | 145782   | 4.028 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.736 | 202  | 167163   | 4.294 | ng/ul  | 98       |
| 82) Pyrene                    | 20.100 | 202  | 177134   | 4.344 | ng/ul  | 97       |
| 83) Butylbenzylphthalate      | 20.964 | 149  | 55198    | 3.680 | ng/ul  | 93       |
| 84) 3,3'-Dichlorobenzidine    | 21.915 | 252  | 61273    | 4.920 | ng/ul  | 95       |
| 85) Benzo(a)anthracene        | 22.004 | 228  | 175226   | 4.333 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.845 | 149  | 84927    | 3.811 | ng/ul# | 99       |
| 87) Chrysene                  | 22.068 | 228  | 166158   | 4.316 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.184 | 149  | 142837   | 3.773 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.430 | 252  | 155195   | 4.193 | ng/ul  | 96       |
| 91) Benzo(k)fluoranthene      | 24.506 | 252  | 158044   | 4.091 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 25.411 | 252  | 149321   | 4.159 | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.689 | 276  | 181423m  | 4.092 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.794 | 278  | 148332   | 4.094 | ng/ul# | 92       |
| 96) Benzo(g,h,i)perylene      | 31.016 | 276  | 152155m  | 4.274 | ng/ul  |          |

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

