

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072623\  
 Data File : BG058494.D  
 Acq On : 27 Jul 2023 2:09  
 Operator : MA/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020545

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/28/2023  
 Supervised By :mohammad ahmed 07/28/2023

Quant Time: Jul 27 04:10:25 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 26 17:43:09 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.818  | 152  | 83511    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.614 | 136  | 365306   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.463 | 164  | 257859   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.207 | 188  | 631269   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.449 | 240  | 563613   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.516 | 264  | 665975   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.241  | 96   | 17902m   | 7.890  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.652  | 84   | 113633   | 16.873 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.983  | 99   | 148017   | 18.684 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.142  | 67   | 93436    | 18.870 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.348  | 132  | 108284   | 19.527 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.529  | 113  | 107827   | 17.844 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.981  | 128  | 54744    | 19.993 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.698  | 143  | 61120    | 20.446 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.238 | 165  | 112568   | 19.644 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.756 | 131  | 155515   | 18.720 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.869 | 166  | 344218   | 17.311 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.157 | 160  | 397886   | 19.094 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.674 | 143  | 47332    | 15.762 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.456 | 176  | 311315   | 18.911 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.579 | 200  | 53514    | 16.639 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.307 | 188  | 514761   | 18.872 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.598 | 212  | 617746   | 18.557 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.304 | 264  | 600603   | 18.659 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.276  | 88   | 20307m   | 7.890  | ng/uL  |          |
| 5) Pyridine                   | 3.670  | 79   | 130246   | 18.313 | ng/u1  | 97       |
| 6) Benzaldehyde               | 6.954  | 77   | 62522    | 19.542 | ng/u1  | 99       |
| 8) Phenol                     | 7.013  | 94   | 154463   | 18.775 | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.236  | 93   | 120837   | 19.173 | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.377  | 128  | 110817   | 19.091 | ng/u1  | 98       |
| 13) 2-Methylphenol            | 8.264  | 108  | 116819   | 18.219 | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.347  | 45   | 193058   | 18.692 | ng/u1  | 96       |
| 16) Acetophenone              | 8.640  | 105  | 182893   | 17.772 | ng/u1  | 99       |
| 17) N-Nitroso-di-n-propyla... | 8.623  | 70   | 97766    | 17.358 | ng/u1  | 99       |
| 18) 4-Methylphenol            | 8.593  | 108  | 126739   | 18.188 | ng/u1  | 98       |
| 19) Hexachloroethane          | 8.893  | 117  | 46743    | 20.429 | ng/u1  | 89       |
| 22) Nitrobenzene              | 9.022  | 77   | 139546   | 19.110 | ng/u1  | 98       |
| 23) Isophorone                | 9.539  | 82   | 287825   | 17.581 | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 9.733  | 139  | 65634    | 20.555 | ng/u1  | 94       |
| 26) 2,4-Dimethylphenol        | 9.792  | 107  | 133397   | 18.737 | ng/u1  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 10.027 | 93   | 161540   | 18.632 | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.268 | 162  | 110644   | 20.343 | ng/u1  | 94       |
| 30) Naphthalene               | 10.667 | 128  | 374503   | 19.180 | ng/u1  | 100      |
| 32) 4-Chloroaniline           | 10.779 | 127  | 162997   | 19.197 | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 10.949 | 225  | 81953    | 21.072 | ng/u1  | 97       |
| 34) Caprolactam               | 11.531 | 113  | 38855m   | 17.200 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.913 | 107  | 132650   | 19.164 | ng/u1  | 97       |
| 36) 2-Methylnaphthalene       | 12.283 | 142  | 249338   | 19.060 | ng/u1  | 100      |

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## Manual Integrations

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.501 | 142  | 247848   | 18.486 | ng/ul  | 96       |
| 39) 1,2,4,5-Tetrachloroben... | 12.653 | 216  | 150946   | 20.222 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.624 | 237  | 68654    | 17.101 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.894 | 196  | 101625   | 20.111 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 12.971 | 196  | 105547   | 19.588 | ng/ul  | 97       |
| 43) 1,1'-Biphenyl             | 13.294 | 154  | 327952   | 18.809 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.335 | 162  | 268400   | 19.360 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 13.546 | 65   | 94216    | 19.565 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 13.916 | 163  | 348463   | 17.447 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.040 | 165  | 77331    | 20.036 | ng/ul  | 98       |
| 50) Acenaphthylene            | 14.181 | 152  | 424302   | 18.864 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.375 | 138  | 55860    | 17.367 | ng/ul  | 89       |
| 52) Acenaphthene              | 14.528 | 153  | 290596   | 18.608 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.586 | 184  | 45594    | 22.197 | ng/ul  | 95       |
| 55) 4-Nitrophenol             | 14.686 | 109  | 36634    | 15.840 | ng/ul  | 92       |
| 56) Dibenzofuran              | 14.862 | 168  | 417134   | 18.759 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.833 | 165  | 111285   | 19.991 | ng/ul# | 96       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.092 | 232  | 94451    | 18.972 | ng/ul# | 98       |
| 59) Diethylphthalate          | 15.280 | 149  | 361401   | 17.564 | ng/ul  | 100      |
| 61) Fluorene                  | 15.509 | 166  | 339657   | 18.626 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.503 | 204  | 185632   | 19.175 | ng/ul  | 97       |
| 63) 4-Nitroaniline            | 15.538 | 138  | 46517m   | 15.983 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 52541    | 15.879 | ng/ul  | 97       |
| 67) N-Nitrosodiphenylamine    | 15.720 | 169  | 292596   | 18.699 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.396 | 248  | 130130   | 19.462 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.513 | 284  | 147001   | 19.484 | ng/ul  | 98       |
| 70) Atrazine                  | 16.666 | 200  | 119862   | 19.537 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.860 | 266  | 84023m   | 19.840 | ng/ul  |          |
| 72) Phenanthrene              | 17.248 | 178  | 559266   | 18.642 | ng/ul  | 99       |
| 74) Anthracene                | 17.342 | 178  | 563171   | 18.700 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.258 | 216  | 157878   | 19.939 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.780 | 250  | 169840   | 19.614 | ng/uL  | 94       |
| 77) Carbazole                 | 17.612 | 167  | 516083   | 19.768 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.164 | 149  | 663868   | 20.012 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.263 | 202  | 694538   | 18.212 | ng/ul  | 99       |
| 82) Pyrene                    | 19.627 | 202  | 699506   | 18.103 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.515 | 149  | 295848   | 19.444 | ng/ul  | 95       |
| 84) 3,3'-Dichlorobenzidine    | 21.349 | 252  | 219226   | 17.424 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.431 | 228  | 717812   | 18.948 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.331 | 149  | 420615   | 19.435 | ng/ul  | 100      |
| 87) Chrysene                  | 21.490 | 228  | 677767   | 18.862 | ng/ul  | 98       |
| 89) Di-n-octyl phthalate      | 22.483 | 149  | 730689   | 20.621 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.541 | 252  | 703930   | 18.268 | ng/ul  | 100      |
| 91) Benzo(k)fluoranthene      | 23.605 | 252  | 733143   | 19.077 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 24.369 | 252  | 634651   | 18.518 | ng/ul  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.000 | 276  | 663771m  | 14.700 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.059 | 278  | 552569m  | 14.923 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.093 | 276  | 474756m  | 12.905 | ng/ul  |          |

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

