

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090823\  
 Data File : BG058938.D  
 Acq On : 9 Sep 2023 5:59  
 Operator : MA/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020549

Quant Time: Sep 09 06:41:56 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Sep 09 00:11:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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     | 8.329  | 152  | 63099    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.179 | 136  | 296797   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.957 | 164  | 279161   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.706 | 188  | 751241   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 22.031 | 240  | 612073   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 25.603 | 264  | 704079   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.640  | 96   | 11249    | 8.551  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 4.069  | 84   | 89097    | 19.725 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.442  | 99   | 127282   | 20.338 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.653  | 67   | 71944    | 20.321 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.847  | 132  | 81190    | 21.749 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.011  | 113  | 99285    | 20.469 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.528  | 128  | 44934    | 25.703 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.244 | 143  | 50492    | 26.365 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.767 | 165  | 123336   | 22.198 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.314 | 131  | 143625   | 20.152 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.351 | 166  | 440392   | 20.436 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.657 | 160  | 471624   | 20.248 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.121 | 143  | 62341    | 21.896 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.944 | 176  | 419489   | 20.654 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.049 | 200  | 78777    | 23.033 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.806 | 188  | 697598   | 20.414 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.074 | 212  | 729492   | 20.551 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.350 | 264  | 719325   | 20.740 | ng/u1  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.681  | 88   | 11442m   | 7.142  | ng/uL  |          |
| 5) Pyridine                   | 4.093  | 79   | 93769    | 19.721 | ng/u1# | 84       |
| 6) Benzaldehyde               | 7.477  | 77   | 85368    | 23.141 | ng/u1  | 93       |
| 8) Phenol                     | 7.471  | 94   | 130907   | 20.058 | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.747  | 93   | 98218    | 20.291 | ng/u1  | 97       |
| 12) 2-Chlorophenol            | 7.877  | 128  | 81174    | 21.566 | ng/u1  | 90       |
| 13) 2-Methylphenol            | 8.746  | 108  | 100589   | 20.584 | ng/u1  | 97       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.834  | 45   | 114239m  | 20.507 | ng/u1  |          |
| 16) Acetophenone              | 9.175  | 105  | 187636   | 21.696 | ng/u1  | 97       |
| 17) N-Nitroso-di-n-propyla... | 9.140  | 70   | 100858   | 22.297 | ng/u1# | 97       |
| 18) 4-Methylphenol            | 9.075  | 108  | 118698   | 22.197 | ng/u1  | 94       |
| 19) Hexachloroethane          | 9.422  | 117  | 32504    | 21.158 | ng/u1  | 93       |
| 22) Nitrobenzene              | 9.569  | 77   | 134114   | 22.431 | ng/u1# | 95       |
| 23) Isophorone                | 10.080 | 82   | 299047   | 20.046 | ng/u1  | 98       |
| 25) 2-Nitrophenol             | 10.280 | 139  | 54858    | 26.556 | ng/u1# | 88       |
| 26) 2,4-Dimethylphenol        | 10.297 | 107  | 129229   | 20.122 | ng/u1  | 90       |
| 27) Bis(2-Chloroethoxy)met... | 10.562 | 93   | 151490   | 19.609 | ng/u1# | 88       |
| 29) 2,4-Dichlorophenol        | 10.797 | 162  | 115581   | 21.946 | ng/u1  | 99       |
| 30) Naphthalene               | 11.226 | 128  | 317430   | 19.798 | ng/u1  | 97       |
| 32) 4-Chloroaniline           | 11.337 | 127  | 143240   | 21.190 | ng/u1  | 96       |
| 33) Hexachlorobutadiene       | 11.461 | 225  | 100817   | 19.547 | ng/u1  | 94       |
| 34) Caprolactam               | 12.119 | 113  | 40232m   | 23.093 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.407 | 107  | 129973   | 21.005 | ng/u1  | 92       |
| 36) 2-Methylnaphthalene       | 12.806 | 142  | 247151   | 20.363 | ng/u1  | 96       |

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|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 13.023 | 142  | 254536   | 20.503 | ng/ul  | 94       |
| 39) 1,2,4,5-Tetrachloroben... | 13.147 | 216  | 208406   | 20.007 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 13.106 | 237  | 137983   | 18.406 | ng/ul  | 90       |
| 41) 2,4,6-Trichlorophenol     | 13.388 | 196  | 133487   | 22.053 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 13.452 | 196  | 144571   | 22.277 | ng/ul  | 96       |
| 43) 1,1'-Biphenyl             | 13.793 | 154  | 381759   | 20.098 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.846 | 162  | 303959   | 20.065 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 14.058 | 65   | 90292    | 26.956 | ng/ul  | 91       |
| 47) Dimethylphthalate         | 14.404 | 163  | 443029   | 20.220 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 14.539 | 165  | 82676    | 26.586 | ng/ul  | 99       |
| 50) Acenaphthylene            | 14.686 | 152  | 522925   | 20.118 | ng/ul  | 96       |
| 51) 3-Nitroaniline            | 14.874 | 138  | 73643    | 23.501 | ng/ul  | 99       |
| 52) Acenaphthene              | 15.021 | 153  | 339772   | 20.077 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 15.068 | 184  | 54234    | 20.616 | ng/ul# | 88       |
| 55) 4-Nitrophenol             | 15.139 | 109  | 81992    | 23.025 | ng/ul  | 90       |
| 56) Dibenzofuran              | 15.350 | 168  | 505021   | 19.990 | ng/ul  | 94       |
| 57) 2,4-Dinitrotoluene        | 15.315 | 165  | 116385   | 25.944 | ng/ul  | 95       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.556 | 232  | 151948   | 22.160 | ng/ul# | 99       |
| 59) Diethylphthalate          | 15.750 | 149  | 404769   | 20.555 | ng/ul  | 93       |
| 61) Fluorene                  | 16.002 | 166  | 427739   | 19.943 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.985 | 204  | 265680   | 20.648 | ng/ul  | 96       |
| 63) 4-Nitroaniline            | 16.038 | 138  | 66889    | 22.941 | ng/ul  | 93       |
| 66) 4,6-Dinitro-2-methylph... | 16.061 | 198  | 83051    | 23.130 | ng/ul  | 95       |
| 67) N-Nitrosodiphenylamine    | 16.202 | 169  | 388093   | 21.006 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.884 | 248  | 189260   | 20.747 | ng/ul  | 96       |
| 69) Hexachlorobenzene         | 16.966 | 284  | 216431   | 20.560 | ng/ul  | 95       |
| 70) Atrazine                  | 17.136 | 200  | 167914   | 22.638 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 17.318 | 266  | 130615   | 20.203 | ng/ul  | 93       |
| 72) Phenanthrene              | 17.747 | 178  | 746454   | 20.467 | ng/ul  | 99       |
| 74) Anthracene                | 17.841 | 178  | 765482   | 20.558 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.752 | 216  | 226409   | 20.755 | ng/uL  | 96       |
| 76) Pentachlorobenzene        | 15.244 | 250  | 225187   | 20.482 | ng/uL  | 98       |
| 77) Carbazole                 | 18.112 | 167  | 591371   | 20.924 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.629 | 149  | 596578   | 23.481 | ng/ul  | 97       |
| 80) Fluoranthene              | 19.739 | 202  | 894512   | 20.735 | ng/ul  | 98       |
| 82) Pyrene                    | 20.103 | 202  | 867978   | 20.086 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.973 | 149  | 194545   | 25.965 | ng/ul  | 93       |
| 84) 3,3'-Dichlorobenzidine    | 21.919 | 252  | 295430   | 22.098 | ng/ul# | 97       |
| 85) Benzo(a)anthracene        | 22.007 | 228  | 847346   | 20.334 | ng/ul  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 21.860 | 149  | 295311   | 25.266 | ng/ul  | 97       |
| 87) Chrysene                  | 22.083 | 228  | 779237   | 19.962 | ng/ul  | 97       |
| 89) Di-n-octyl phthalate      | 23.206 | 149  | 505598   | 22.994 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.445 | 252  | 869922   | 20.517 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 24.528 | 252  | 863690   | 20.244 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 25.438 | 252  | 814860   | 20.539 | ng/ul# | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.739 | 276  | 1022826m | 20.679 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.851 | 278  | 854239m  | 21.239 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 31.049 | 276  | 824970   | 21.008 | ng/ul  | 94       |

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

