

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG121624\  
 Data File : BG063682.D  
 Acq On : 16 Dec 2024 10:34  
 Operator : RC/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020566

Quant Time: Dec 17 01:58:34 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 11 23:59:23 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/18/2024  
 Supervised By :mohammad ahmed 12/18/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.812  | 152  | 174981   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.603 | 136  | 750244   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.451 | 164  | 543251   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.201 | 188  | 1134518  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.455 | 240  | 1068417  | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 24.475 | 264  | 1165312  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.276  | 96   | 31613    | 7.080  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.682  | 84   | 235970   | 16.752 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.995  | 99   | 308606   | 19.150 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.142  | 67   | 200504   | 18.014 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.348  | 132  | 205248   | 19.672 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.529  | 113  | 245000   | 19.581 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.964  | 128  | 114214   | 21.321 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.686  | 143  | 126218   | 21.020 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.233 | 165  | 242839   | 20.888 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.738 | 131  | 312647   | 21.180 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.858 | 166  | 725831   | 19.635 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.140 | 160  | 868518   | 20.611 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.680 | 143  | 89911m   | 17.167 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.444 | 176  | 649505   | 19.873 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.579 | 200  | 117281   | 19.910 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.301 | 188  | 1027774  | 21.071 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.598 | 212  | 1145078  | 20.596 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.275 | 264  | 1120373  | 20.473 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.311  | 88   | 36708    | 6.947  | ng/uL  | 89       |
| 5) Pyridine                   | 3.699  | 79   | 258255   | 17.117 | ng/u1  | 93       |
| 6) Benzaldehyde               | 6.954  | 77   | 211041   | 21.349 | ng/u1  | 93       |
| 8) Phenol                     | 7.025  | 94   | 326547   | 19.013 | ng/u1  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 7.236  | 93   | 246068   | 18.725 | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.383  | 128  | 214920   | 20.350 | ng/u1  | 97       |
| 13) 2-Methylphenol            | 8.264  | 108  | 243349   | 19.603 | ng/u1  | 99       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.329  | 45   | 370289   | 18.981 | ng/u1  | 99       |
| 16) Acetophenone              | 8.629  | 105  | 420696   | 19.823 | ng/u1# | 90       |
| 17) N-Nitroso-di-n-propyla... | 8.611  | 70   | 236165   | 18.650 | ng/u1  | 95       |
| 18) 4-Methylphenol            | 8.593  | 108  | 271588   | 19.990 | ng/u1  | 98       |
| 19) Hexachloroethane          | 8.887  | 117  | 93885    | 18.092 | ng/u1  | 92       |
| 22) Nitrobenzene              | 9.005  | 77   | 343087   | 19.180 | ng/u1  | 97       |
| 23) Isophorone                | 9.528  | 82   | 645522   | 19.099 | ng/u1  | 98       |
| 25) 2-Nitrophenol             | 9.716  | 139  | 130614   | 21.165 | ng/u1  | 88       |
| 26) 2,4-Dimethylphenol        | 9.786  | 107  | 284784   | 20.337 | ng/u1  | 98       |
| 27) Bis(2-Chloroethoxy)met... | 10.009 | 93   | 362089   | 19.807 | ng/u1  | 95       |
| 29) 2,4-Dichlorophenol        | 10.262 | 162  | 228411   | 19.773 | ng/u1  | 96       |
| 30) Naphthalene               | 10.650 | 128  | 762758   | 20.335 | ng/u1  | 97       |
| 32) 4-Chloroaniline           | 10.762 | 127  | 299503   | 21.325 | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 10.932 | 225  | 166328   | 17.723 | ng/u1  | 98       |
| 34) Caprolactam               | 11.514 | 113  | 81434m   | 20.393 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.907 | 107  | 277545   | 20.465 | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.260 | 142  | 535381   | 19.859 | ng/u1  | 96       |

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Manual Integrations  
 APPROVED

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 Quant Title : SVOA CALIBRATION  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.483 | 142  | 547004   | 19.920 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.636 | 216  | 327323   | 18.821 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.612 | 237  | 132239   | 19.235 | ng/ul  | 95       |
| 41) 2,4,6-Trichlorophenol     | 12.888 | 196  | 192118   | 19.546 | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 12.971 | 196  | 203299   | 19.818 | ng/ul  | 93       |
| 43) 1,1'-Biphenyl             | 13.276 | 154  | 753477   | 21.031 | ng/ul  | 94       |
| 44) 2-Chloronaphthalene       | 13.323 | 162  | 590402   | 20.522 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 13.529 | 65   | 210864   | 21.882 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 13.905 | 163  | 737448   | 19.905 | ng/ul  | 97       |
| 48) 2,6-Dinitrotoluene        | 14.028 | 165  | 142281   | 20.679 | ng/ul  | 97       |
| 50) Acenaphthylene            | 14.169 | 152  | 936407   | 20.725 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.363 | 138  | 137692   | 21.645 | ng/ul  | 91       |
| 52) Acenaphthene              | 14.516 | 153  | 648451   | 20.248 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.586 | 184  | 59508m   | 16.924 | ng/ul  |          |
| 55) 4-Nitrophenol             | 14.698 | 109  | 85176    | 15.662 | ng/ul  | 85       |
| 56) Dibenzofuran              | 14.851 | 168  | 922658   | 20.435 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.827 | 165  | 207016   | 20.249 | ng/ul# | 95       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.092 | 232  | 167187   | 18.907 | ng/ul  | 98       |
| 59) Diethylphthalate          | 15.274 | 149  | 713349   | 19.918 | ng/ul  | 99       |
| 61) Fluorene                  | 15.503 | 166  | 725945   | 20.136 | ng/ul  | 96       |
| 62) 4-Chlorophenyl-phenyle... | 15.497 | 204  | 388231   | 19.329 | ng/ul  | 95       |
| 63) 4-Nitroaniline            | 15.527 | 138  | 136406   | 21.418 | ng/ul# | 83       |
| 66) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 119247   | 19.650 | ng/ul# | 95       |
| 67) N-Nitrosodiphenylamine    | 15.709 | 169  | 615151   | 22.391 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.390 | 248  | 241786   | 20.912 | ng/ul  | 94       |
| 69) Hexachlorobenzene         | 16.514 | 284  | 267478   | 20.648 | ng/ul  | 97       |
| 70) Atrazine                  | 16.666 | 200  | 249412   | 21.477 | ng/ul  | 96       |
| 71) Pentachlorophenol         | 16.866 | 266  | 96392m   | 17.648 | ng/ul  |          |
| 72) Phenanthrene              | 17.248 | 178  | 1168488  | 21.373 | ng/ul  | 98       |
| 74) Anthracene                | 17.336 | 178  | 1201079  | 21.705 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.247 | 216  | 338649   | 22.372 | ng/ul  | 96       |
| 76) Pentachlorobenzene        | 14.774 | 250  | 331497   | 22.106 | ng/ul  | 99       |
| 77) Carbazole                 | 17.612 | 167  | 997869   | 22.278 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.170 | 149  | 1191411  | 22.024 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.263 | 202  | 1341404  | 21.227 | ng/ul  | 97       |
| 82) Pyrene                    | 19.628 | 202  | 1427601  | 21.234 | ng/ul# | 94       |
| 83) Butylbenzylphthalate      | 20.521 | 149  | 530253   | 25.693 | ng/ul  | 95       |
| 84) 3,3'-Dichlorobenzidine    | 21.355 | 252  | 457761   | 23.734 | ng/ul  | 90       |
| 85) Benzo(a)anthracene        | 21.437 | 228  | 1355503  | 20.244 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.349 | 149  | 765701   | 25.505 | ng/ul  | 99       |
| 87) Chrysene                  | 21.496 | 228  | 1286361  | 20.157 | ng/ul  | 97       |
| 89) Di-n-octyl phthalate      | 22.483 | 149  | 1371807  | 27.274 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.523 | 252  | 1333398  | 20.133 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.582 | 252  | 1341000m | 20.298 | ng/ul  |          |
| 93) Benzo(a)pyrene            | 24.334 | 252  | 1251301  | 20.128 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.888 | 276  | 1571185  | 20.695 | ng/ul  | 95       |
| 95) Dibenzo(a,h)anthracene    | 27.935 | 278  | 1293469  | 21.292 | ng/ul  | 94       |
| 96) Benzo(g,h,i)perylene      | 28.952 | 276  | 1233215  | 20.470 | ng/ul  | 98       |

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

