

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053124\  
 Data File : BG061416.D  
 Acq On : 1 Jun 2024 7:13  
 Operator : MA/JU  
 Sample : PB161127BS  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SLCS127

Quant Time: Jun 02 23:08:08 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut  
 Upadhyay  
 06/03/2024

Supervised By :mohammad  
 ahmed  
 06/04/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.871  | 152  | 30430    | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8            | 10.668 | 136  | 118023   | 20.000 | ng/u1 | 0.00     |
| 38) Acenaphthene-d10          | 14.510 | 164  | 94077    | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10          | 17.260 | 188  | 219985   | 20.000 | ng/u1 | # 0.00   |
| 79) Chrysene-d12              | 21.514 | 240  | 234722   | 20.000 | ng/u1 | 0.00     |
| 88) Perylene-d12              | 24.598 | 264  | 270248   | 20.000 | ng/u1 | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8             | 3.329  | 96   | 3080     | 5.664  | ng/uL | 0.00     |
| 4) Pyridine-d5                | 3.740  | 84   | 50964    | 26.345 | ng/u1 | 0.00     |
| 7) Phenol-d5                  | 7.060  | 99   | 62961    | 25.195 | ng/u1 | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.201  | 67   | 38633    | 24.596 | ng/u1 | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.413  | 132  | 49735    | 26.892 | ng/u1 | 0.00     |
| 15) 4-Methylphenol-d8         | 8.594  | 113  | 51221    | 24.038 | ng/u1 | 0.00     |
| 21) Nitrobenzene-d5           | 9.034  | 128  | 25288    | 27.829 | ng/u1 | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.751  | 143  | 29427    | 27.670 | ng/u1 | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.303 | 165  | 57961    | 27.956 | ng/u1 | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.803 | 131  | 67062    | 24.724 | ng/u1 | 0.00     |
| 46) Dimethylphthalate-d6      | 13.917 | 166  | 178926   | 24.522 | ng/u1 | 0.00     |
| 49) Acenaphthylene-d8         | 14.205 | 160  | 204464   | 26.954 | ng/u1 | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.745 | 143  | 23102    | 25.610 | ng/u1 | 0.00     |
| 60) Fluorene-d10              | 15.503 | 176  | 165804   | 26.321 | ng/u1 | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.644 | 200  | 32046    | 24.085 | ng/u1 | 0.00     |
| 73) Anthracene-d10            | 17.360 | 188  | 269443   | 27.782 | ng/u1 | 0.00     |
| 81) Pyrene-d10                | 19.651 | 212  | 329741   | 27.360 | ng/u1 | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.387 | 264  | 361321   | 27.810 | ng/u1 | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.370  | 88   | 6974     | 10.686 | ng/uL | 99       |
| 5) Pyridine                   | 3.758  | 79   | 48311    | 25.250 | ng/u1 | 95       |
| 6) Benzaldehyde               | 7.013  | 77   | 37576    | 28.757 | ng/u1 | 93       |
| 8) Phenol                     | 7.089  | 94   | 61955    | 24.333 | ng/u1 | 92       |
| 10) Bis(2-Chloroethyl)ether   | 7.295  | 93   | 44232    | 23.750 | ng/u1 | 98       |
| 12) 2-Chlorophenol            | 7.442  | 128  | 50478    | 25.827 | ng/u1 | 98       |
| 13) 2-Methylphenol            | 8.329  | 108  | 45852    | 23.237 | ng/u1 | 91       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.394  | 45   | 107350   | 21.343 | ng/u1 | 97       |
| 16) Acetophenone              | 8.688  | 105  | 80284    | 22.077 | ng/u1 | 93       |
| 17) N-Nitroso-di-n-propyla... | 8.676  | 70   | 40274    | 20.142 | ng/u1 | 95       |
| 18) 4-Methylphenol            | 8.658  | 108  | 49806    | 22.781 | ng/u1 | 95       |
| 19) Hexachloroethane          | 8.946  | 117  | 20863    | 23.991 | ng/u1 | 87       |
| 22) Nitrobenzene              | 9.070  | 77   | 63227    | 25.369 | ng/u1 | 99       |
| 23) Isophorone                | 9.592  | 82   | 112376   | 22.166 | ng/u1 | 97       |
| 25) 2-Nitrophenol             | 9.786  | 139  | 30593    | 26.503 | ng/u1 | 92       |
| 26) 2,4-Dimethylphenol        | 9.851  | 107  | 44286    | 19.362 | ng/u1 | 98       |
| 27) Bis(2-Chloroethoxy)met... | 10.074 | 93   | 61341    | 24.137 | ng/u1 | 99       |
| 29) 2,4-Dichlorophenol        | 10.327 | 162  | 52430    | 27.456 | ng/u1 | 94       |
| 30) Naphthalene               | 10.715 | 128  | 163271   | 26.209 | ng/u1 | 98       |
| 32) 4-Chloroaniline           | 10.826 | 127  | 59128    | 21.936 | ng/u1 | 99       |
| 33) Hexachlorobutadiene       | 10.997 | 225  | 49311    | 26.419 | ng/u1 | 96       |
| 34) Caprolactam               | 11.590 | 113  | 16544m   | 22.645 | ng/u1 |          |
| 35) 4-Chloro-3-methylphenol   | 11.972 | 107  | 60316    | 24.434 | ng/u1 | 91       |
| 36) 2-Methylnaphthalene       | 12.325 | 142  | 113749   | 25.179 | ng/u1 | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.548 | 142  | 115027   | 24.811 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.701 | 216  | 86434    | 27.828 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.677 | 237  | 6373     | 4.546  | ng/ul# | 97       |
| 41) 2,4,6-Trichlorophenol     | 12.947 | 196  | 50500    | 28.865 | ng/ul  | 93       |
| 42) 2,4,5-Trichlorophenol     | 13.030 | 196  | 55289    | 30.010 | ng/ul  | 94       |
| 43) 1,1'-Biphenyl             | 13.341 | 154  | 161491   | 26.547 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.382 | 162  | 130162   | 27.189 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.588 | 65   | 49538    | 25.072 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 13.964 | 163  | 174126   | 22.897 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.087 | 165  | 37128    | 24.896 | ng/ul  | 90       |
| 50) Acenaphthylene            | 14.234 | 152  | 210667   | 25.045 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.416 | 138  | 36019    | 27.830 | ng/ul  | 91       |
| 52) Acenaphthene              | 14.575 | 153  | 141598   | 25.661 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.645 | 184  | 15778    | 19.951 | ng/ul  | 92       |
| 55) 4-Nitrophenol             | 14.763 | 109  | 25845    | 24.369 | ng/ul  | 99       |
| 56) Dibenzofuran              | 14.910 | 168  | 203437   | 25.786 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.886 | 165  | 57126    | 25.177 | ng/ul# | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.151 | 232  | 45821    | 27.269 | ng/ul# | 94       |
| 59) Diethylphthalate          | 15.327 | 149  | 172079   | 22.914 | ng/ul  | 99       |
| 61) Fluorene                  | 15.562 | 166  | 172699   | 25.299 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.550 | 204  | 98903    | 24.704 | ng/ul  | 96       |
| 63) 4-Nitroaniline            | 15.585 | 138  | 38833    | 28.808 | ng/ul  | 97       |
| 66) 4,6-Dinitro-2-methylph... | 15.662 | 198  | 32835    | 23.548 | ng/ul  | 91       |
| 67) N-Nitrosodiphenylamine    | 15.768 | 169  | 151415   | 27.385 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.449 | 248  | 70313    | 26.976 | ng/ul  | 96       |
| 69) Hexachlorobenzene         | 16.572 | 284  | 80635    | 27.832 | ng/ul  | 94       |
| 70) Atrazine                  | 16.719 | 200  | 56986    | 26.043 | ng/ul# | 96       |
| 71) Pentachlorophenol         | 16.925 | 266  | 24653    | 24.448 | ng/ul# | 88       |
| 72) Phenanthrene              | 17.301 | 178  | 284993   | 26.692 | ng/ul  | 99       |
| 74) Anthracene                | 17.395 | 178  | 284884   | 25.805 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 13.306 | 216  | 87401    | 30.057 | ng/uL  | 94       |
| 76) Pentachlorobenzene        | 14.833 | 250  | 92533    | 28.782 | ng/uL  | 95       |
| 77) Carbazole                 | 17.665 | 167  | 247875   | 27.605 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.223 | 149  | 298036   | 26.489 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.316 | 202  | 376824   | 26.064 | ng/ul  | 99       |
| 82) Pyrene                    | 19.681 | 202  | 395413   | 26.348 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.568 | 149  | 139281   | 27.016 | ng/ul  | 96       |
| 84) 3,3'-Dichlorobenzidine    | 21.414 | 252  | 141797   | 28.460 | ng/ul  | 96       |
| 85) Benzo(a)anthracene        | 21.496 | 228  | 425840   | 26.293 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.408 | 149  | 198673   | 26.034 | ng/ul# | 97       |
| 87) Chrysene                  | 21.561 | 228  | 396442   | 26.584 | ng/ul  | 98       |
| 89) Di-n-octyl phthalate      | 22.565 | 149  | 346545   | 25.631 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.623 | 252  | 415472   | 25.821 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.688 | 252  | 419650   | 25.691 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 24.457 | 252  | 358345   | 23.453 | ng/ul  | 95       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.112 | 276  | 489950   | 26.517 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 28.159 | 278  | 404509   | 26.551 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 29.199 | 276  | 373189m  | 25.389 | ng/ul  |          |

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

