

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG071924\  
 Data File : BG062136.D  
 Acq On : 19 Jul 2024 11:17  
 Operator : MA/JU  
 Sample : SSTD04025  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD040407

Quant Time: Jul 19 12:51:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 19 12:42:00 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/20/2024  
 Supervised By :mohammad ahmed 07/23/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.066  | 152  | 31146    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.880 | 136  | 137452   | 20.000 | ng/ul  | # 0.00   |
| 38) Acenaphthene-d10          | 14.693 | 164  | 121748   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.442 | 188  | 346137   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.707 | 240  | 355422   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.938 | 264  | 364577   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.455  | 96   | 10680    | 13.615 | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.872  | 84   | 96406    | 33.508 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.238  | 99   | 127666   | 38.099 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.385  | 67   | 70589    | 37.284 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.602  | 132  | 80883    | 38.672 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.789  | 113  | 94949    | 38.234 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.235  | 128  | 42605    | 40.816 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.958  | 143  | 54402    | 42.806 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.504 | 165  | 116372   | 40.839 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.021 | 131  | 141478   | 41.634 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.099 | 166  | 421416   | 41.905 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.393 | 160  | 429355   | 40.777 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.928 | 143  | 52603    | 44.085 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.686 | 176  | 365700   | 41.005 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.815 | 200  | 89171    | 43.864 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.542 | 188  | 654962m  | 41.449 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.821 | 212  | 822141   | 40.641 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.714 | 264  | 750726   | 41.049 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
| 2) 1,4-Dioxane                | 3.490  | 88   | 12287    | 11.943 | ng/uL# | 89       |
| 5) Pyridine                   | 3.896  | 79   | 99003    | 34.555 | ng/ul  | 89       |
| 6) Benzaldehyde               | 7.203  | 77   | 78856    | 45.699 | ng/ul  | 96       |
| 8) Phenol                     | 7.268  | 94   | 127952   | 38.519 | ng/ul  | 93       |
| 10) Bis(2-Chloroethyl)ether   | 7.485  | 93   | 83561    | 36.254 | ng/ul# | 94       |
| 12) 2-Chlorophenol            | 7.638  | 128  | 77514    | 37.526 | ng/ul# | 88       |
| 13) 2-Methylphenol            | 8.519  | 108  | 93025    | 38.338 | ng/ul  | 90       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.589  | 45   | 152762   | 40.161 | ng/ul# | 93       |
| 16) Acetophenone              | 8.895  | 105  | 174032   | 40.506 | ng/ul  | 93       |
| 17) N-Nitroso-di-n-propyla... | 8.871  | 70   | 99021    | 42.032 | ng/ul  | 88       |
| 18) 4-Methylphenol            | 8.854  | 108  | 104710   | 40.088 | ng/ul  | 98       |
| 19) Hexachloroethane          | 9.147  | 117  | 35560    | 39.916 | ng/ul  | 91       |
| 22) Nitrobenzene              | 9.282  | 77   | 142773   | 40.507 | ng/ul  | 98       |
| 23) Isophorone                | 9.799  | 82   | 297341   | 42.355 | ng/ul  | 96       |
| 25) 2-Nitrophenol             | 9.993  | 139  | 56503    | 41.464 | ng/ul# | 88       |
| 26) 2,4-Dimethylphenol        | 10.052 | 107  | 139880   | 41.456 | ng/ul  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 10.275 | 93   | 136829   | 41.789 | ng/ul  | 92       |
| 29) 2,4-Dichlorophenol        | 10.534 | 162  | 107447   | 40.021 | ng/ul  | 93       |
| 30) Naphthalene               | 10.933 | 128  | 297072   | 39.312 | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 11.045 | 127  | 133002   | 41.379 | ng/ul# | 89       |
| 33) Hexachlorobutadiene       | 11.197 | 225  | 100415   | 40.134 | ng/ul  | 93       |
| 34) Caprolactam               | 11.803 | 113  | 37942m   | 41.741 | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 12.173 | 107  | 133014   | 39.324 | ng/ul  | 98       |
| 36) 2-Methylnaphthalene       | 12.531 | 142  | 226598   | 40.001 | ng/ul  | 88       |

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## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 07/20/2024

Supervised By :mohammad ahmed 07/23/2024

Quant Time: Jul 19 12:51:13 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071924.MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri Jul 19 12:42:00 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.748 | 142  | 233934   | 39.483 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.895 | 216  | 197706   | 39.977 | ng/ul# | 97       |
| 40) Hexachlorocyclopentadiene | 12.866 | 237  | 98104    | 49.301 | ng/ul# | 94       |
| 41) 2,4,6-Trichlorophenol     | 13.142 | 196  | 116357   | 40.034 | ng/ul  | 92       |
| 42) 2,4,5-Trichlorophenol     | 13.218 | 196  | 120902   | 39.369 | ng/ul  | 99       |
| 43) 1,1'-Biphenyl             | 13.530 | 154  | 343483   | 40.292 | ng/ul  | 94       |
| 44) 2-Chloronaphthalene       | 13.582 | 162  | 282766   | 39.988 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 13.788 | 65   | 110264   | 42.243 | ng/ul  | 97       |
| 47) Dimethylphthalate         | 14.146 | 163  | 395105   | 40.589 | ng/ul# | 96       |
| 48) 2,6-Dinitrotoluene        | 14.276 | 165  | 84607    | 42.602 | ng/ul  | 97       |
| 50) Acenaphthylene            | 14.423 | 152  | 458534   | 40.038 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.611 | 138  | 69782    | 42.572 | ng/ul# | 91       |
| 52) Acenaphthene              | 14.763 | 153  | 306745   | 40.235 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.816 | 184  | 38775m   | 56.970 | ng/ul  |          |
| 55) 4-Nitrophenol             | 14.939 | 109  | 82094    | 45.082 | ng/ul  | 90       |
| 56) Dibenzofuran              | 15.092 | 168  | 467142   | 40.989 | ng/ul  | 98       |
| 57) 2,4-Dinitrotoluene        | 15.063 | 165  | 127236   | 42.627 | ng/ul# | 92       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.327 | 232  | 114668   | 43.009 | ng/ul  | 95       |
| 59) Diethylphthalate          | 15.503 | 149  | 398714   | 42.004 | ng/ul  | 97       |
| 61) Fluorene                  | 15.744 | 166  | 401139   | 40.453 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.733 | 204  | 244325   | 40.301 | ng/ul  | 94       |
| 63) 4-Nitroaniline            | 15.774 | 138  | 75526    | 44.987 | ng/ul# | 81       |
| 66) 4,6-Dinitro-2-methylph... | 15.827 | 198  | 87793    | 44.838 | ng/ul# | 93       |
| 67) N-Nitrosodiphenylamine    | 15.944 | 169  | 339139   | 40.375 | ng/ul  | 100      |
| 68) 4-Bromophenyl-phenylether | 16.625 | 248  | 161122   | 39.996 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.743 | 284  | 170371   | 39.884 | ng/ul  | 95       |
| 70) Atrazine                  | 16.890 | 200  | 176375   | 42.348 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 17.095 | 266  | 53080    | 68.970 | ng/ul  | 98       |
| 72) Phenanthrene              | 17.483 | 178  | 677551   | 41.171 | ng/ul  | 99       |
| 74) Anthracene                | 17.577 | 178  | 685988   | 40.537 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.500 | 216  | 200893   | 40.955 | ng/ul  | 93       |
| 76) Pentachlorobenzene        | 15.010 | 250  | 196479   | 39.253 | ng/ul  | 99       |
| 77) Carbazole                 | 17.847 | 167  | 595566   | 42.168 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.388 | 149  | 666567   | 42.257 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.486 | 202  | 964973   | 40.969 | ng/ul  | 100      |
| 82) Pyrene                    | 19.850 | 202  | 980127   | 40.561 | ng/ul  | 100      |
| 83) Butylbenzylphthalate      | 20.720 | 149  | 288712   | 39.651 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.595 | 252  | 330632   | 42.241 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.683 | 228  | 992347   | 39.992 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.566 | 149  | 408857   | 39.952 | ng/ul  | 96       |
| 87) Chrysene                  | 21.754 | 228  | 908849   | 39.410 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.782 | 149  | 686577   | 41.588 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.910 | 252  | 899623   | 40.221 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.980 | 252  | 920068   | 41.495 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 24.791 | 252  | 858182   | 41.403 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.639 | 276  | 978811   | 39.791 | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 28.691 | 278  | 822063   | 40.515 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 29.796 | 276  | 779137   | 40.504 | ng/ul  | 96       |

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

