

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062124\  
 Data File : BG061627.D  
 Acq On : 21 Jun 2024 19:36  
 Operator : MA/JU  
 Sample : P2754-07MSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4BP6MSD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/24/2024  
 Supervised By :mohammad ahmed 06/24/2024

Quant Time: Jun 21 22:14:39 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG062024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 21 05:03:55 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.076  | 152  | 55901    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.890 | 136  | 273911   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.703 | 164  | 194764   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.447 | 188  | 436131   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.713 | 240  | 361908   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.939 | 264  | 454412   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.470  | 96   | 7983     | 5.159  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.887  | 84   | 54322    | 11.611 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.212  | 99   | 170242   | 28.053 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.400  | 67   | 110828   | 29.296 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.600  | 132  | 123103   | 29.561 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.775  | 113  | 115414   | 24.601 | ng/u1  | 0.01     |
| 21) Nitrobenzene-d5           | 9.245  | 128  | 66687    | 35.856 | ng/u1  | 0.01     |
| 24) 2-Nitrophenol-d4          | 9.968  | 143  | 70943    | 37.662 | ng/u1  | 0.01     |
| 28) 2,4-Dichlorophenol-d3     | 10.497 | 165  | 151378   | 33.939 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.014 | 131  | 105877   | 15.679 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.110 | 166  | 509774   | 34.013 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.398 | 160  | 571233   | 34.777 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.880 | 143  | 82579    | 32.081 | ng/u1  | 0.01     |
| 60) Fluorene-d10              | 15.696 | 176  | 461422   | 35.167 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.802 | 200  | 70628    | 37.872 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.547 | 188  | 693824   | 34.852 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.821 | 212  | 665113   | 32.901 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.715 | 264  | 503147   | 23.183 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.505  | 88   | 29323    | 15.248 | ng/uL# | 84       |
| 5) Pyridine                   | 3.910  | 79   | 82653m   | 16.434 | ng/u1  |          |
| 6) Benzaldehyde               | 7.212  | 77   | 92292m   | 30.905 | ng/u1  |          |
| 8) Phenol                     | 7.242  | 94   | 305665   | 47.864 | ng/u1  | 99       |
| 10) Bis(2-Chloroethyl)ether   | 7.494  | 93   | 205624   | 42.779 | ng/u1  | 98       |
| 12) 2-Chlorophenol            | 7.635  | 128  | 199649   | 47.786 | ng/u1  | 95       |
| 13) 2-Methylphenol            | 8.505  | 108  | 213741   | 47.837 | ng/u1  | 96       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.599  | 45   | 434368   | 44.233 | ng/u1  | 97       |
| 16) Acetophenone              | 8.904  | 105  | 362307   | 46.901 | ng/u1  | 93       |
| 17) N-Nitroso-di-n-propyla... | 8.887  | 70   | 176631   | 42.564 | ng/u1  | 91       |
| 18) 4-Methylphenol            | 8.834  | 108  | 245306   | 49.006 | ng/u1  | 99       |
| 19) Hexachloroethane          | 9.163  | 117  | 61316    | 36.602 | ng/u1  | 88       |
| 22) Nitrobenzene              | 9.286  | 77   | 266315   | 49.706 | ng/u1  | 94       |
| 23) Isophorone                | 9.809  | 82   | 534274   | 43.360 | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 9.997  | 139  | 110378   | 56.038 | ng/u1# | 77       |
| 26) 2,4-Dimethylphenol        | 10.050 | 107  | 226346   | 41.087 | ng/u1  | 96       |
| 27) Bis(2-Chloroethoxy)met... | 10.297 | 93   | 311368   | 44.670 | ng/u1# | 96       |
| 29) 2,4-Dichlorophenol        | 10.526 | 162  | 213017   | 52.126 | ng/u1  | 97       |
| 30) Naphthalene               | 10.937 | 128  | 703181   | 45.881 | ng/u1  | 98       |
| 32) 4-Chloroaniline           | 11.037 | 127  | 153619   | 22.937 | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 11.219 | 225  | 139192   | 49.310 | ng/u1  | 96       |
| 34) Caprolactam               | 11.819 | 113  | 70810m   | 41.905 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.148 | 107  | 292944   | 51.263 | ng/u1  | 96       |
| 36) 2-Methylnaphthalene       | 12.541 | 142  | 527042   | 48.735 | ng/u1  | 93       |

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## Manual Integrations

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.759 | 142  | 549430   | 47.616 | ng/ul  | 95       |
| 39) 1,2,4,5-Tetrachloroben... | 12.900 | 216  | 278380   | 50.504 | ng/ul  | 96       |
| 40) Hexachlorocyclopentadiene | 12.882 | 237  | 112362   | 34.261 | ng/ul  | 97       |
| 41) 2,4,6-Trichlorophenol     | 13.135 | 196  | 198688   | 55.869 | ng/ul  | 86       |
| 42) 2,4,5-Trichlorophenol     | 13.205 | 196  | 221426   | 57.124 | ng/ul  | 92       |
| 43) 1,1'-Biphenyl             | 13.546 | 154  | 728272   | 51.620 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.587 | 162  | 553023   | 51.031 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 13.781 | 65   | 235710   | 63.536 | ng/ul  | 95       |
| 47) Dimethylphthalate         | 14.157 | 163  | 711424   | 47.801 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.275 | 165  | 148108   | 59.969 | ng/ul  | 95       |
| 50) Acenaphthylene            | 14.427 | 152  | 888335   | 48.450 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.604 | 138  | 128947   | 50.984 | ng/ul# | 95       |
| 52) Acenaphthene              | 14.768 | 153  | 619915   | 48.821 | ng/ul  | 94       |
| 53) 2,4-Dinitrophenol         | 14.803 | 184  | 71464    | 56.941 | ng/ul  | 92       |
| 55) 4-Nitrophenol             | 14.891 | 109  | 147320   | 55.422 | ng/ul  | 96       |
| 56) Dibenzofuran              | 15.103 | 168  | 897541   | 50.512 | ng/ul  | 89       |
| 57) 2,4-Dinitrotoluene        | 15.056 | 165  | 227251   | 61.989 | ng/ul# | 96       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.320 | 232  | 206141   | 54.236 | ng/ul  | 98       |
| 59) Diethylphthalate          | 15.526 | 149  | 753710   | 49.170 | ng/ul  | 99       |
| 61) Fluorene                  | 15.749 | 166  | 729660   | 49.619 | ng/ul  | 93       |
| 62) 4-Chlorophenyl-phenyle... | 15.743 | 204  | 350518   | 48.015 | ng/ul  | 97       |
| 63) 4-Nitroaniline            | 15.761 | 138  | 151555   | 56.563 | ng/ul  | 95       |
| 66) 4,6-Dinitro-2-methylph... | 15.820 | 198  | 122424   | 57.955 | ng/ul# | 99       |
| 67) N-Nitrosodiphenylamine    | 15.955 | 169  | 619451   | 54.924 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.636 | 248  | 246724   | 54.943 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.742 | 284  | 231345   | 42.452 | ng/ul  | 99       |
| 70) Atrazine                  | 16.901 | 200  | 189067   | 41.969 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 17.083 | 266  | 178439   | 53.754 | ng/ul  | 99       |
| 72) Phenanthrene              | 17.488 | 178  | 1389250  | 60.548 | ng/ul  | 99       |
| 74) Anthracene                | 17.582 | 178  | 1187305  | 50.602 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.505 | 216  | 296436   | 61.007 | ng/ul  | 98       |
| 76) Pentachlorobenzene        | 15.015 | 250  | 284643   | 48.780 | ng/ul  | 93       |
| 77) Carbazole                 | 17.847 | 167  | 982690   | 49.326 | ng/ul  | 100      |
| 78) Di-n-butylphthalate       | 18.411 | 149  | 1273965  | 53.466 | ng/ul  | 97       |
| 80) Fluoranthene              | 19.492 | 202  | 1776666  | 75.745 | ng/ul  | 98       |
| 82) Pyrene                    | 19.856 | 202  | 1465939  | 58.777 | ng/ul  | 95       |
| 83) Butylbenzylphthalate      | 20.749 | 149  | 558485   | 61.502 | ng/ul  | 95       |
| 84) 3,3'-Dichlorobenzidine    | 21.607 | 252  | 232064   | 30.326 | ng/ul  | 92       |
| 85) Benzo(a)anthracene        | 21.695 | 228  | 1574907  | 61.994 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.619 | 149  | 874813   | 65.538 | ng/ul  | 97       |
| 87) Chrysene                  | 21.760 | 228  | 1523516  | 63.379 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.847 | 149  | 1418839  | 59.199 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.922 | 252  | 1724197  | 63.120 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.993 | 252  | 1585037  | 56.422 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 24.786 | 252  | 793899   | 30.189 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.622 | 276  | 1470407m | 44.870 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.705 | 278  | 1472954  | 54.054 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 29.762 | 276  | 137815   | 5.217  | ng/ul# | 94       |

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

