

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051723\  
 Data File : BG057451.D  
 Acq On : 17 May 2023 19:30  
 Operator : CG/JU  
 Sample : 02213-01  
 Misc : LOD-MDL-SOIL-8ppm  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT2-2023

Quant Time: May 18 01:59:51 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG042723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 12 22:04:03 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Christian Giraldo 05/18/2023  
 Supervised By :Jagrut Upadhyay 05/18/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.363  | 152  | 14681    | 20.000  | ng    | # 0.00   |
| 21) Naphthalene-d8            | 11.194 | 136  | 62477    | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.972 | 164  | 50138    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.715 | 188  | 125916   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 22.021 | 240  | 119355   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 25.528 | 264  | 128513   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.872  | 112  | 94254    | 109.823 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.499  | 99   | 142638   | 109.447 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.538  | 82   | 104089   | 69.925  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.458 | 330  | 82326    | 115.723 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.597 | 172  | 281676   | 75.663  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.282 | 244  | 530277   | 72.504  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.675  | 88   | 2853     | 8.040   | ng    | 92       |
| 3) Pyridine                   | 4.110  | 79   | 7315m    | 6.414   | ng    |          |
| 4) n-Nitrosodimethylamine     | 4.016  | 42   | 3472     | 6.479   | ng    | # 95     |
| 6) Aniline                    | 7.676  | 93   | 12125    | 7.334   | ng    | # 94     |
| 8) 2-Chlorophenol             | 7.917  | 128  | 7160     | 7.895   | ng    | 86       |
| 9) Benzaldehyde               | 7.482  | 77   | 7836     | 5.278   | ng    | 88       |
| 10) Phenol                    | 7.529  | 94   | 9885     | 7.781   | ng    | 94       |
| 11) bis(2-Chloroethyl)ether   | 7.758  | 93   | 7090     | 7.401   | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 8.251  | 146  | 8101     | 8.094   | ng    | 89       |
| 13) 1,4-Dichlorobenzene       | 8.398  | 146  | 8050     | 8.007   | ng    | 94       |
| 14) 1,2-Dichlorobenzene       | 8.721  | 146  | 8172     | 8.420   | ng    | 99       |
| 15) Benzyl Alcohol            | 8.598  | 79   | 7495     | 6.903   | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.874  | 45   | 9058     | 7.502   | ng    | 95       |
| 17) 2-Methylphenol            | 8.798  | 107  | 6678     | 7.292   | ng    | 96       |
| 18) Hexachloroethane          | 9.461  | 117  | 2944     | 8.114   | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 9.156  | 70   | 7207     | 7.252   | ng    | # 93     |
| 20) 3+4-Methylphenols         | 9.133  | 107  | 9259     | 7.384   | ng    | 94       |
| 22) Acetophenone              | 9.185  | 105  | 13061    | 7.304   | ng    | # 95     |
| 24) Nitrobenzene              | 9.579  | 77   | 10950    | 7.288   | ng    | 99       |
| 25) Isophorone                | 10.096 | 82   | 19298    | 6.686   | ng    | # 98     |
| 26) 2-Nitrophenol             | 10.302 | 139  | 4486     | 7.800   | ng    | 98       |
| 27) 2,4-Dimethylphenol        | 10.343 | 122  | 7378     | 7.327   | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 10.572 | 93   | 10129    | 7.004   | ng    | # 90     |
| 29) 2,4-Dichlorophenol        | 10.854 | 162  | 8056     | 7.543   | ng    | 88       |
| 30) 1,2,4-Trichlorobenzene    | 11.053 | 180  | 9730     | 7.898   | ng    | 97       |
| 31) Naphthalene               | 11.247 | 128  | 25268    | 7.565   | ng    | 98       |
| 32) Benzoic acid              | 10.519 | 122  | 409      | 5.352   | ng    | # 83     |
| 33) 4-Chloroaniline           | 11.353 | 127  | 10673    | 7.115   | ng    | 99       |
| 34) Hexachlorobutadiene       | 11.518 | 225  | 6841     | 7.484   | ng    | 93       |
| 35) Caprolactam               | 12.099 | 113  | 2961     | 8.116   | ng    | # 80     |
| 36) 4-Chloro-3-methylphenol   | 12.452 | 107  | 9062     | 7.466   | ng    | 95       |
| 37) 2-Methylnaphthalene       | 12.828 | 142  | 19329    | 7.360   | ng    | 95       |
| 38) 1-Methylnaphthalene       | 13.045 | 142  | 18426    | 7.444   | ng    | 95       |
| 40) 1,2,4,5-Tetrachloroben... | 13.192 | 216  | 14893    | 8.367   | ng    | 97       |
| 41) Hexachlorocyclopentadiene | 13.162 | 237  | 1769     | 8.200   | ng    | 95       |
| 43) 2,4,6-Trichlorophenol     | 13.427 | 196  | 7611     | 7.019   | ng    | 97       |

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Manual Integrations  
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Reviewed By : Christian Giraldo 05/18/2023  
 Supervised By : Jagrut Upadhyay 05/18/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.503 | 196  | 8964     | 7.027  | ng    | 93       |
| 46) 1,1'-Biphenyl             | 13.814 | 154  | 28226    | 7.587  | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.867 | 162  | 21626    | 7.817  | ng #  | 93       |
| 48) 2-Nitroaniline            | 14.061 | 65   | 6184     | 6.574  | ng    | 98       |
| 49) Acenaphthylene            | 14.701 | 152  | 34103    | 7.587  | ng    | 99       |
| 50) Dimethylphthalate         | 14.408 | 163  | 30144    | 7.316  | ng    | 97       |
| 51) 2,6-Dinitrotoluene        | 14.537 | 165  | 6140     | 7.299  | ng    | 88       |
| 52) Acenaphthene              | 15.042 | 154  | 21143    | 7.528  | ng    | 98       |
| 53) 3-Nitroaniline            | 14.872 | 138  | 5646     | 6.699  | ng #  | 83       |
| 54) 2,4-Dinitrophenol         | 15.107 | 184  | 1009     | 6.734  | ng #  | 84       |
| 55) Dibenzofuran              | 15.371 | 168  | 36199    | 7.671  | ng    | 98       |
| 56) 4-Nitrophenol             | 15.195 | 139  | 3394     | 6.055  | ng    | 88       |
| 57) 2,4-Dinitrotoluene        | 15.330 | 165  | 8940     | 7.436  | ng #  | 93       |
| 58) Fluorene                  | 16.011 | 166  | 30627    | 7.879  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.600 | 232  | 8448     | 7.305  | ng #  | 96       |
| 60) Diethylphthalate          | 15.753 | 149  | 30312    | 7.244  | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.994 | 204  | 17391    | 7.427  | ng    | 96       |
| 62) 4-Nitroaniline            | 16.029 | 138  | 6045     | 7.110  | ng #  | 84       |
| 63) Azobenzene                | 16.288 | 77   | 27459    | 6.802  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 16.100 | 198  | 4498     | 5.983  | ng    | 93       |
| 66) n-Nitrosodiphenylamine    | 16.205 | 169  | 25848    | 7.558  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.887 | 248  | 11840    | 7.703  | ng    | 93       |
| 68) Hexachlorobenzene         | 17.022 | 284  | 12665    | 8.479  | ng    | 95       |
| 69) Atrazine                  | 17.133 | 200  | 11367    | 8.713  | ng    | 97       |
| 70) Pentachlorophenol         | 17.380 | 266  | 2788     | 3.239  | ng    | 86       |
| 71) Phenanthrene              | 17.756 | 178  | 50563    | 7.837  | ng    | 99       |
| 72) Anthracene                | 17.844 | 178  | 51125    | 7.722  | ng    | 96       |
| 73) Carbazole                 | 18.114 | 167  | 43638    | 7.829  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.631 | 149  | 47605    | 7.424  | ng    | 98       |
| 75) Fluoranthene              | 19.748 | 202  | 60262    | 7.509  | ng    | 98       |
| 77) Benzidine                 | 19.912 | 184  | 31619    | 11.850 | ng    | 98       |
| 78) Pyrene                    | 20.106 | 202  | 63917    | 7.370  | ng    | 98       |
| 80) Butylbenzylphthalate      | 20.958 | 149  | 20204    | 7.342  | ng    | 95       |
| 81) Benzo(a)anthracene        | 22.003 | 228  | 64191    | 7.549  | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine    | 21.898 | 252  | 24853    | 9.125  | ng    | 96       |
| 83) Chrysene                  | 22.074 | 228  | 60851    | 7.605  | ng    | 96       |
| 84) Bis(2-ethylhexyl)phtha... | 21.845 | 149  | 28917    | 7.102  | ng    | 98       |
| 85) Di-n-octyl phthalate      | 23.137 | 149  | 51073    | 7.524  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.570 | 276  | 68627    | 7.327  | ng #  | 95       |
| 88) Benzo(b)fluoranthene      | 24.400 | 252  | 63155    | 7.518  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 24.471 | 252  | 63912    | 7.487  | ng    | 98       |
| 90) Benzo(a)pyrene            | 25.358 | 252  | 55212    | 6.727  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 29.617 | 278  | 57096    | 7.320  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 30.838 | 276  | 56607    | 7.432  | ng    | 97       |

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

