

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG013023\  
 Data File : BG056476.D  
 Acq On : 30 Jan 2023 19:18  
 Operator : CG/JU  
 Sample : N3980-01  
 Misc : LOD-MDL-SOIL 8ppm  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT3-2022

Quant Time: Jan 31 03:05:11 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG012723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 28 00:39:13 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Christian  
 Giraldo  
 01/31/2023  
 Supervised By :Jagrut  
 Upadhyay  
 01/31/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.279  | 152  | 27860    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.111 | 136  | 105624   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.895 | 164  | 87099    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.633 | 188  | 246143   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.922 | 240  | 255841   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.347 | 264  | 279625   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.800  | 112  | 166821   | 110.151 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.421  | 99   | 233644   | 104.121 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.454  | 82   | 133718   | 71.889  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.381 | 330  | 137182   | 118.472 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.520 | 172  | 458155   | 72.928  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.212 | 244  | 1016304  | 69.770  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.602  | 88   | 5515     | 8.745   | ng    | 93       |
| 3) Pyridine                   | 4.031  | 79   | 12599    | 6.702   | ng    | 96       |
| 4) n-Nitrosodimethylamine     | 3.937  | 42   | 2997     | 7.497   | ng    | # 60     |
| 6) Aniline                    | 7.592  | 93   | 21251    | 7.233   | ng    | # 97     |
| 8) 2-Chlorophenol             | 7.838  | 128  | 12131    | 7.291   | ng    | 95       |
| 9) Benzaldehyde               | 7.404  | 77   | 10590    | 7.964   | ng    | # 84     |
| 10) Phenol                    | 7.445  | 94   | 16775    | 7.355   | ng    | 92       |
| 11) bis(2-Chloroethyl)ether   | 7.680  | 93   | 11583    | 7.389   | ng    | 92       |
| 12) 1,3-Dichlorobenzene       | 8.168  | 146  | 15656    | 8.173   | ng    | 94       |
| 13) 1,4-Dichlorobenzene       | 8.314  | 146  | 15752    | 8.120   | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.314  | 146  | 15752    | 8.369   | ng    | 98       |
| 15) Benzyl Alcohol            | 8.514  | 79   | 10963    | 7.121   | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.802  | 45   | 2386     | 7.183   | ng    | # 86     |
| 17) 2-Methylphenol            | 8.720  | 107  | 11277    | 6.499   | ng    | 95       |
| 18) Hexachloroethane          | 9.378  | 117  | 4316     | 7.356   | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 9.078  | 70   | 9563     | 7.395   | ng    | 95       |
| 20) 3+4-Methylphenols         | 9.049  | 107  | 16269    | 6.691   | ng    | 93       |
| 22) Acetophenone              | 9.108  | 105  | 22281    | 7.939   | ng    | # 97     |
| 24) Nitrobenzene              | 9.495  | 77   | 13542    | 7.548   | ng    | 89       |
| 25) Isophorone                | 10.012 | 82   | 28728    | 7.486   | ng    | 96       |
| 26) 2-Nitrophenol             | 10.218 | 139  | 7895     | 7.253   | ng    | 94       |
| 27) 2,4-Dimethylphenol        | 10.259 | 122  | 12778m   | 7.014   | ng    |          |
| 28) bis(2-Chloroethoxy)met... | 10.488 | 93   | 16015    | 7.555   | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 10.759 | 162  | 15141    | 7.383   | ng    | 94       |
| 30) 1,2,4-Trichlorobenzene    | 10.964 | 180  | 18033    | 7.913   | ng    | 94       |
| 31) Naphthalene               | 11.164 | 128  | 43239    | 7.756   | ng    | 99       |
| 32) Benzoic acid              | 10.418 | 122  | 2888m    | 2.833   | ng    |          |
| 33) 4-Chloroaniline           | 11.264 | 127  | 20006    | 7.688   | ng    | 98       |
| 34) Hexachlorobutadiene       | 11.434 | 225  | 13121    | 8.203   | ng    | 97       |
| 35) Caprolactam               | 12.010 | 113  | 5380     | 7.779   | ng    | 93       |
| 36) 4-Chloro-3-methylphenol   | 12.363 | 107  | 15072    | 7.611   | ng    | 98       |
| 37) 2-Methylnaphthalene       | 12.745 | 142  | 33610    | 7.313   | ng    | 95       |
| 38) 1-Methylnaphthalene       | 12.962 | 142  | 31902m   | 7.432   | ng    |          |
| 40) 1,2,4,5-Tetrachloroben... | 13.109 | 216  | 25537    | 8.025   | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 13.079 | 237  | 6020     | 9.656   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 13.344 | 196  | 15278    | 7.451   | ng    | 86       |

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 BNA\_G  
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 LOD-MDL-SOIL-01-QT3-2022

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|--------|-------|----------|-----|
| 44) 2,4,5-Trichlorophenol     | 13.420 | 196  | 16811    | 7.002  | ng    | #        | 99  |
| 46) 1,1'-Biphenyl             | 13.732 | 154  | 50548    | 8.001  | ng    |          | 99  |
| 47) 2-Chloronaphthalene       | 13.784 | 162  | 39776    | 8.055  | ng    |          | 97  |
| 48) 2-Nitroaniline            | 13.978 | 65   | 7402     | 7.251  | ng    |          | 84  |
| 49) Acenaphthylene            | 14.625 | 152  | 63287    | 7.877  | ng    |          | 99  |
| 50) Dimethylphthalate         | 14.331 | 163  | 57903    | 8.217  | ng    |          | 99  |
| 51) 2,6-Dinitrotoluene        | 14.460 | 165  | 12266    | 7.982  | ng    |          | 98  |
| 52) Acenaphthene              | 14.960 | 154  | 37306    | 7.830  | ng    |          | 98  |
| 53) 3-Nitroaniline            | 14.795 | 138  | 11668    | 7.832  | ng    |          | 96  |
| 54) 2,4-Dinitrophenol         | 15.012 | 184  | 3256     | 3.380  | ng    |          | 93  |
| 55) Dibenzofuran              | 15.289 | 168  | 68240    | 7.987  | ng    |          | 99  |
| 56) 4-Nitrophenol             | 15.106 | 139  | 7316     | 7.187  | ng    |          | 92  |
| 57) 2,4-Dinitrotoluene        | 15.247 | 165  | 18147    | 8.384  | ng    | #        | 98  |
| 58) Fluorene                  | 15.935 | 166  | 56478    | 8.307  | ng    |          | 97  |
| 59) 2,3,4,6-Tetrachlorophenol | 15.518 | 232  | 15583    | 7.300  | ng    | #        | 97  |
| 60) Diethylphthalate          | 15.682 | 149  | 55834    | 8.438  | ng    |          | 100 |
| 61) 4-Chlorophenyl-phenyle... | 15.917 | 204  | 33217    | 8.007  | ng    |          | 95  |
| 62) 4-Nitroaniline            | 15.953 | 138  | 12708    | 8.525  | ng    |          | 97  |
| 63) Azobenzene                | 16.211 | 77   | 37602    | 8.259  | ng    |          | 96  |
| 65) 4,6-Dinitro-2-methylph... | 16.011 | 198  | 10367    | 5.991  | ng    |          | 97  |
| 66) n-Nitrosodiphenylamine    | 16.129 | 169  | 52361    | 7.513  | ng    |          | 96  |
| 67) 4-Bromophenyl-phenylether | 16.810 | 248  | 22963    | 7.287  | ng    |          | 95  |
| 68) Hexachlorobenzene         | 16.940 | 284  | 24600    | 7.971  | ng    |          | 94  |
| 69) Atrazine                  | 17.063 | 200  | 24904    | 9.263  | ng    |          | 97  |
| 70) Pentachlorophenol         | 17.292 | 266  | 7823     | 4.189  | ng    |          | 94  |
| 71) Phenanthrene              | 17.674 | 178  | 102466   | 7.954  | ng    |          | 98  |
| 72) Anthracene                | 17.768 | 178  | 105538   | 7.981  | ng    |          | 97  |
| 73) Carbazole                 | 18.032 | 167  | 93114    | 8.267  | ng    |          | 98  |
| 74) Di-n-butylphthalate       | 18.561 | 149  | 91175    | 7.710  | ng    |          | 99  |
| 75) Fluoranthene              | 19.672 | 202  | 136850   | 8.417  | ng    |          | 97  |
| 77) Benzidine                 | 19.836 | 184  | 76522    | 11.053 | ng    |          | 97  |
| 78) Pyrene                    | 20.030 | 202  | 139063   | 7.643  | ng    |          | 98  |
| 80) Butylbenzylphthalate      | 20.882 | 149  | 39444    | 7.098  | ng    |          | 98  |
| 81) Benzo(a)anthracene        | 21.898 | 228  | 139179   | 7.781  | ng    |          | 100 |
| 82) 3,3'-Dichlorobenzidine    | 21.804 | 252  | 58038    | 9.011  | ng    | #        | 98  |
| 83) Chrysene                  | 21.969 | 228  | 129528   | 7.708  | ng    |          | 98  |
| 84) Bis(2-ethylhexyl)phtha... | 21.763 | 149  | 57896    | 7.267  | ng    |          | 96  |
| 85) Di-n-octyl phthalate      | 23.032 | 149  | 97364    | 7.338  | ng    |          | 100 |
| 87) Indeno(1,2,3-cd)pyrene    | 29.272 | 276  | 156084   | 7.625  | ng    | #        | 95  |
| 88) Benzo(b)fluoranthene      | 24.243 | 252  | 144965   | 8.352  | ng    |          | 99  |
| 89) Benzo(k)fluoranthene      | 24.319 | 252  | 141492   | 8.075  | ng    |          | 99  |
| 90) Benzo(a)pyrene            | 25.177 | 252  | 126407   | 7.394  | ng    |          | 99  |
| 91) Dibenzo(a,h)anthracene    | 29.331 | 278  | 136607   | 7.951  | ng    |          | 98  |
| 92) Benzo(g,h,i)perylene      | 30.500 | 276  | 131080   | 7.907  | ng    |          | 97  |

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

## Manual Integrations

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