

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG031622\  
 Data File : BG052673.D  
 Acq On : 16 Mar 2022 10:23  
 Operator : CG/JU  
 Sample : N1645-01  
 Misc : LOD-MDL-SOIL 8ppm  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2022

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/17/2022  
 Supervised By : Jagrut Upadhyay 03/17/2022

Quant Time: Mar 16 12:01:42 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG031522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 16 11:53:01 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.151  | 152  | 34930    | 20.000  | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.965 | 136  | 146635   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.772 | 164  | 104092   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.515 | 188  | 248232   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.803 | 240  | 274695   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.122 | 264  | 279256   | 20.000  | ng    | #-0.02   |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.707  | 112  | 306184   | 152.655 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.299  | 99   | 450527   | 148.992 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.314  | 82   | 246570   | 84.396  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.258 | 330  | 187989   | 134.401 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.403 | 172  | 573245   | 81.221  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.123 | 244  | 1181053  | 76.482  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.604  | 88   | 7406     | 7.381   | ng    | # 83     |
| 3) Pyridine                   | 4.010  | 79   | 20019    | 7.784   | ng    | # 88     |
| 4) n-Nitrosodimethylamine     | 3.910  | 42   | 8611m    | 7.547   | ng    |          |
| 6) Aniline                    | 7.470  | 93   | 31429    | 8.864   | ng    | 99       |
| 8) 2-Chlorophenol             | 7.717  | 128  | 16357    | 7.761   | ng    | 85       |
| 9) Benzaldehyde               | 7.288  | 77   | 20306    | 10.933  | ng    | 83       |
| 10) Phenol                    | 7.323  | 94   | 22608    | 7.574   | ng    | 85       |
| 11) bis(2-Chloroethyl)ether   | 7.564  | 93   | 17941    | 7.959   | ng    | 95       |
| 12) 1,3-Dichlorobenzene       | 8.045  | 146  | 19695    | 7.762   | ng    | 95       |
| 13) 1,4-Dichlorobenzene       | 8.192  | 146  | 21139    | 8.291   | ng    | 93       |
| 14) 1,2-Dichlorobenzene       | 8.510  | 146  | 19629    | 8.141   | ng    | 93       |
| 15) Benzyl Alcohol            | 8.380  | 79   | 19677    | 7.728   | ng    | 95       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.686  | 45   | 30948    | 7.884   | ng    | 93       |
| 17) 2-Methylphenol            | 8.580  | 107  | 15567    | 7.823   | ng    | 91       |
| 18) Hexachloroethane          | 9.250  | 117  | 7563     | 8.085   | ng    | 85       |
| 19) n-Nitroso-di-n-propyla... | 8.956  | 70   | 16181    | 7.555   | ng    | # 95     |
| 20) 3+4-Methylphenols         | 8.903  | 107  | 19913    | 7.151   | ng    | 94       |
| 22) Acetophenone              | 8.974  | 105  | 29972    | 7.898   | ng    | # 94     |
| 24) Nitrobenzene              | 9.350  | 77   | 24992    | 8.549   | ng    | # 87     |
| 25) Isophorone                | 9.884  | 82   | 43000    | 7.601   | ng    | 99       |
| 26) 2-Nitrophenol             | 10.072 | 139  | 7131     | 7.025   | ng    | 87       |
| 27) 2,4-Dimethylphenol        | 10.119 | 122  | 18297    | 8.810   | ng    | 86       |
| 28) bis(2-Chloroethoxy)met... | 10.360 | 93   | 24437    | 7.306   | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 10.601 | 162  | 12665    | 6.960   | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.830 | 180  | 21452    | 7.781   | ng    | 91       |
| 31) Naphthalene               | 11.018 | 128  | 59505    | 7.847   | ng    | 96       |
| 32) Benzoic acid              | 10.178 | 122  | 6809     | 4.878   | ng    | 90       |
| 33) 4-Chloroaniline           | 11.118 | 127  | 24476    | 7.616   | ng    | 94       |
| 34) Hexachlorobutadiene       | 11.312 | 225  | 14819    | 7.497   | ng    | # 79     |
| 35) Caprolactam               | 11.858 | 113  | 4260     | 6.676   | ng    | # 73     |
| 36) 4-Chloro-3-methylphenol   | 12.216 | 107  | 17632    | 6.497   | ng    | 98       |
| 37) 2-Methylnaphthalene       | 12.616 | 142  | 42357    | 7.628   | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.827 | 142  | 41605    | 7.677   | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.980 | 216  | 26158    | 8.044   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.962 | 237  | 15610    | 8.098   | ng    | 91       |
| 43) 2,4,6-Trichlorophenol     | 13.209 | 196  | 14894    | 7.152   | ng    | 85       |

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 Sample : N1645-01  
 Misc : LOD-MDL-SOIL 8ppm  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2022

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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.274 | 196  | 15586    | 7.373 | ng    | # 90     |
| 46) 1,1'-Biphenyl             | 13.609 | 154  | 58482    | 8.034 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.656 | 162  | 44542    | 7.770 | ng    | 98       |
| 48) 2-Nitroaniline            | 13.838 | 65   | 10431    | 6.653 | ng    | 87       |
| 49) Acenaphthylene            | 14.496 | 152  | 74700    | 8.174 | ng    | 97       |
| 50) Dimethylphthalate         | 14.219 | 163  | 55719    | 7.202 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.331 | 165  | 9175     | 7.024 | ng    | 91       |
| 52) Acenaphthene              | 14.836 | 154  | 44764    | 7.646 | ng    | 93       |
| 53) 3-Nitroaniline            | 14.654 | 138  | 10096    | 6.606 | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 14.860 | 184  | 4816     | 6.764 | ng    | # 58     |
| 55) Dibenzofuran              | 15.171 | 168  | 74260    | 7.767 | ng    | 98       |
| 56) 4-Nitrophenol             | 14.942 | 139  | 8590     | 6.890 | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 15.112 | 165  | 12234    | 6.751 | ng    | # 87     |
| 58) Fluorene                  | 15.817 | 166  | 59495    | 7.634 | ng    | 90       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.389 | 232  | 13818    | 6.116 | ng    | 97       |
| 60) Diethylphthalate          | 15.576 | 149  | 57668    | 7.062 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.806 | 204  | 31112    | 7.239 | ng    | # 94     |
| 62) 4-Nitroaniline            | 15.811 | 138  | 11415    | 7.068 | ng    | 91       |
| 63) Azobenzene                | 16.099 | 77   | 63160    | 7.236 | ng    | 92       |
| 65) 4,6-Dinitro-2-methylph... | 15.876 | 198  | 6644     | 6.004 | ng    | 91       |
| 66) n-Nitrosodiphenylamine    | 16.017 | 169  | 51678    | 7.395 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.698 | 248  | 20197    | 6.749 | ng    | # 90     |
| 68) Hexachlorobenzene         | 16.822 | 284  | 23089    | 7.178 | ng    | 92       |
| 69) Atrazine                  | 16.963 | 200  | 19772    | 7.673 | ng    | 97       |
| 70) Pentachlorophenol         | 17.157 | 266  | 13091    | 6.560 | ng    | 93       |
| 71) Phenanthrene              | 17.556 | 178  | 102672m  | 7.731 | ng    |          |
| 72) Anthracene                | 17.650 | 178  | 102936   | 7.841 | ng    | 97       |
| 73) Carbazole                 | 17.909 | 167  | 96709    | 7.438 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.473 | 149  | 103103   | 7.259 | ng    | 98       |
| 75) Fluoranthene              | 19.559 | 202  | 133803   | 7.938 | ng    | 96       |
| 77) Benzidine                 | 19.730 | 184  | 60051    | 8.476 | ng    | 98       |
| 78) Pyrene                    | 19.924 | 202  | 137020   | 7.191 | ng    | 95       |
| 80) Butylbenzylphthalate      | 20.811 | 149  | 42951    | 6.354 | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.780 | 228  | 137524   | 7.477 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.692 | 252  | 46312    | 7.130 | ng    | 99       |
| 83) Chrysene                  | 21.850 | 228  | 127993   | 7.402 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 21.698 | 149  | 63337    | 6.890 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.949 | 149  | 100248   | 6.551 | ng    | # 95     |
| 87) Indeno(1,2,3-cd)pyrene    | 28.911 | 276  | 138507   | 7.246 | ng    | # 91     |
| 88) Benzo(b)fluoranthene      | 24.065 | 252  | 138314   | 7.977 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 24.135 | 252  | 129874   | 7.613 | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.964 | 252  | 126377   | 8.610 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 28.994 | 278  | 120768   | 7.668 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 30.080 | 276  | 119032   | 7.638 | ng    | # 96     |

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

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