

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG021122\  
 Data File : BG052370.D  
 Acq On : 11 Feb 2022 14:57  
 Operator : CG/JU  
 Sample : M4068-02  
 Misc : LOQ-SOIL 5ppm  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2021

Manual Integrations  
 APPROVED

Reviewed By :Jagrut  
 Upadhyay

Quant Time: Feb 11 15:40:29 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG020722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 11 13:59:40 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |                                  |
|-------------------------------|--------|------|----------|---------|-------|----------|----------------------------------|
| Internal Standards            |        |      |          |         |       |          | 02/14/2022                       |
| 1) 1,4-Dichlorobenzene-d4     | 8.237  | 152  | 21799    | 20.000  | ng    | 0.01     | Supervised By :mohammad<br>Ahmed |
| 21) Naphthalene-d8            | 11.080 | 136  | 90058    | 20.000  | ng    | # 0.01   |                                  |
| 39) Acenaphthene-d10          | 14.881 | 164  | 66817    | 20.000  | ng    | 0.00     |                                  |
| 64) Phenanthrene-d10          | 17.624 | 188  | 171998   | 20.000  | ng    | 0.00     |                                  |
| 76) Chrysene-d12              | 21.942 | 240  | 187600   | 20.000  | ng    | 0.00     |                                  |
| 86) Perylene-d12              | 25.414 | 264  | 190367   | 20.000  | ng    | 0.00     | 02/15/2022                       |
| System Monitoring Compounds   |        |      |          |         |       |          |                                  |
| 5) 2-Fluorophenol             | 5.770  | 112  | 135412   | 108.264 | ng    | 0.02     |                                  |
| 7) Phenol-d6                  | 7.385  | 99   | 188432   | 97.641  | ng    | 0.01     |                                  |
| 23) Nitrobenzene-d5           | 9.412  | 82   | 145947   | 70.433  | ng    | 0.01     |                                  |
| 42) 2,4,6-Tribromophenol      | 16.367 | 330  | 108560   | 113.091 | ng    | 0.00     |                                  |
| 45) 2-Fluorobiphenyl          | 13.500 | 172  | 355314   | 73.891  | ng    | 0.00     |                                  |
| 79) Terphenyl-d14             | 20.221 | 244  | 767453   | 72.240  | ng    | 0.00     |                                  |
| Target Compounds              |        |      |          |         |       |          | Qvalue                           |
| 2) 1,4-Dioxane                | 3.590  | 88   | 2916     | 5.063   | ng    | # 81     |                                  |
| 3) Pyridine                   | 4.013  | 79   | 7195     | 4.307   | ng    | 96       |                                  |
| 4) n-Nitrosodimethylamine     | 3.913  | 42   | 4008     | 4.647   | ng    | # 99     |                                  |
| 6) Aniline                    | 7.549  | 93   | 11538    | 5.146   | ng    | 100      |                                  |
| 8) 2-Chlorophenol             | 7.796  | 128  | 6791     | 4.936   | ng    | 92       |                                  |
| 9) Benzaldehyde               | 7.362  | 77   | 8074     | 6.815   | ng    | 87       |                                  |
| 10) Phenol                    | 7.414  | 94   | 8700     | 4.537   | ng    | 93       |                                  |
| 11) bis(2-Chloroethyl)ether   | 7.638  | 93   | 7212     | 4.921   | ng    | 86       |                                  |
| 12) 1,3-Dichlorobenzene       | 8.125  | 146  | 8450     | 5.390   | ng    | 95       |                                  |
| 13) 1,4-Dichlorobenzene       | 8.272  | 146  | 8029     | 5.024   | ng    | 92       |                                  |
| 14) 1,2-Dichlorobenzene       | 8.601  | 146  | 7671     | 4.867   | ng    | 98       |                                  |
| 15) Benzyl Alcohol            | 8.472  | 79   | 6914     | 4.317   | ng    | 85       |                                  |
| 16) 2,2'-oxybis(1-Chloropr... | 8.765  | 45   | 10083    | 4.764   | ng    | 96       |                                  |
| 17) 2-Methylphenol            | 8.683  | 107  | 5763     | 4.555   | ng    | 93       |                                  |
| 18) Hexachloroethane          | 9.341  | 117  | 3169     | 5.703   | ng    | 88       |                                  |
| 19) n-Nitroso-di-n-propyla... | 9.042  | 70   | 6678     | 4.590   | ng    | # 84     |                                  |
| 20) 3+4-Methylphenols         | 9.012  | 107  | 7773     | 4.294   | ng    | 87       |                                  |
| 22) Acetophenone              | 9.065  | 105  | 11561    | 4.857   | ng    | # 91     |                                  |
| 24) Nitrobenzene              | 9.453  | 77   | 9950     | 5.062   | ng    | # 88     |                                  |
| 25) Isophorone                | 9.976  | 82   | 17385    | 4.931   | ng    | 97       |                                  |
| 26) 2-Nitrophenol             | 10.175 | 139  | 3663     | 4.397   | ng    | # 87     |                                  |
| 27) 2,4-Dimethylphenol        | 10.228 | 122  | 7333     | 5.945   | ng    | # 74     |                                  |
| 28) bis(2-Chloroethoxy)met... | 10.457 | 93   | 10077    | 5.036   | ng    | # 85     |                                  |
| 29) 2,4-Dichlorophenol        | 10.722 | 162  | 6395     | 4.325   | ng    | 92       |                                  |
| 30) 1,2,4-Trichlorobenzene    | 10.939 | 180  | 8059     | 4.668   | ng    | 96       |                                  |
| 31) Naphthalene               | 11.127 | 128  | 23032    | 4.878   | ng    | 97       |                                  |
| 32) Benzoic acid              | 10.340 | 122  | 1236     | 1.706   | ng    | # 62     |                                  |
| 33) 4-Chloroaniline           | 11.227 | 127  | 9029     | 4.581   | ng    | # 93     |                                  |
| 34) Hexachlorobutadiene       | 11.415 | 225  | 5429     | 4.656   | ng    | # 86     |                                  |
| 35) Caprolactam               | 11.967 | 113  | 2266     | 4.205   | ng    | 96       |                                  |
| 36) 4-Chloro-3-methylphenol   | 12.349 | 107  | 7394     | 4.396   | ng    | 91       |                                  |
| 37) 2-Methylnaphthalene       | 12.719 | 142  | 17062    | 4.866   | ng    | 95       |                                  |
| 38) 1-Methylnaphthalene       | 12.942 | 142  | 16778m   | 4.938   | ng    |          |                                  |
| 40) 1,2,4,5-Tetrachloroben... | 13.089 | 216  | 11147    | 5.072   | ng    | # 95     |                                  |
| 41) Hexachlorocyclopentadiene | 13.066 | 237  | 2081     | 2.243   | ng    | 81       |                                  |
| 43) 2,4,6-Trichlorophenol     | 13.318 | 196  | 6490     | 4.515   | ng    | 83       |                                  |

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|-------------------------------|--------|------|----------|-------|-------|----------|-----|
| 44) 2,4,5-Trichlorophenol     | 13.400 | 196  | 6301     | 4.045 | ng    | #        | 93  |
| 46) 1,1'-Biphenyl             | 13.712 | 154  | 24611    | 5.023 | ng    |          | 96  |
| 47) 2-Chloronaphthalene       | 13.759 | 162  | 18264    | 4.838 | ng    |          | 97  |
| 48) 2-Nitroaniline            | 13.958 | 65   | 6106     | 4.544 | ng    | #        | 85  |
| 49) Acenaphthylene            | 14.605 | 152  | 32439    | 5.279 | ng    |          | 94  |
| 50) Dimethylphthalate         | 14.317 | 163  | 25213    | 4.926 | ng    |          | 99  |
| 51) 2,6-Dinitrotoluene        | 14.440 | 165  | 5542     | 5.017 | ng    | #        | 87  |
| 52) Acenaphthene              | 14.945 | 154  | 18088    | 4.495 | ng    |          | 97  |
| 53) 3-Nitroaniline            | 14.775 | 138  | 5228     | 4.554 | ng    | #        | 86  |
| 54) 2,4-Dinitrophenol         | 14.986 | 184  | 688      | 1.149 | ng    | #        | 52  |
| 55) Dibenzofuran              | 15.274 | 168  | 31367    | 4.956 | ng    |          | 96  |
| 56) 4-Nitrophenol             | 15.098 | 139  | 3502     | 4.062 | ng    | #        | 71  |
| 57) 2,4-Dinitrotoluene        | 15.227 | 165  | 7803     | 4.963 | ng    | #        | 86  |
| 58) Fluorene                  | 15.921 | 166  | 26672    | 5.279 | ng    | #        | 93  |
| 59) 2,3,4,6-Tetrachlorophenol | 15.503 | 232  | 6243     | 4.196 | ng    | #        | 97  |
| 60) Diethylphthalate          | 15.668 | 149  | 25824    | 4.994 | ng    |          | 97  |
| 61) 4-Chlorophenyl-phenyle... | 15.909 | 204  | 14426    | 5.013 | ng    |          | 90  |
| 62) 4-Nitroaniline            | 15.932 | 138  | 5541     | 4.584 | ng    | #        | 83  |
| 63) Azobenzene                | 16.202 | 77   | 25792    | 4.873 | ng    |          | 95  |
| 65) 4,6-Dinitro-2-methylph... | 15.997 | 198  | 2721     | 2.630 | ng    |          | 83  |
| 66) n-Nitrosodiphenylamine    | 16.120 | 169  | 22588    | 4.766 | ng    |          | 92  |
| 67) 4-Bromophenyl-phenylether | 16.808 | 248  | 9764     | 4.668 | ng    |          | 98  |
| 68) Hexachlorobenzene         | 16.937 | 284  | 10504    | 4.630 | ng    |          | 90  |
| 69) Atrazine                  | 17.060 | 200  | 9960     | 5.199 | ng    |          | 88  |
| 70) Pentachlorophenol         | 17.283 | 266  | 2268     | 2.043 | ng    |          | 96  |
| 71) Phenanthrene              | 17.671 | 178  | 45136    | 5.091 | ng    |          | 99  |
| 72) Anthracene                | 17.759 | 178  | 44552    | 5.128 | ng    |          | 95  |
| 73) Carbazole                 | 18.029 | 167  | 41604    | 4.909 | ng    |          | 96  |
| 74) Di-n-butylphthalate       | 18.564 | 149  | 47039    | 5.095 | ng    |          | 98  |
| 75) Fluoranthene              | 19.674 | 202  | 58646    | 5.194 | ng    |          | 98  |
| 77) Benzidine                 | 19.839 | 184  | 29794    | 7.433 | ng    |          | 96  |
| 78) Pyrene                    | 20.033 | 202  | 60329    | 4.806 | ng    |          | 100 |
| 80) Butylbenzylphthalate      | 20.902 | 149  | 20671    | 4.741 | ng    |          | 95  |
| 81) Benzo(a)anthracene        | 21.924 | 228  | 61090    | 4.921 | ng    |          | 98  |
| 82) 3,3'-Dichlorobenzidine    | 21.824 | 252  | 22556    | 5.205 | ng    |          | 99  |
| 83) Chrysene                  | 21.989 | 228  | 55771    | 4.741 | ng    |          | 98  |
| 84) Bis(2-ethylhexyl)phtha... | 21.801 | 149  | 29459    | 4.872 | ng    |          | 99  |
| 85) Di-n-octyl phthalate      | 23.093 | 149  | 48630    | 4.797 | ng    |          | 98  |
| 87) Indeno(1,2,3-cd)pyrene    | 29.420 | 276  | 61211    | 4.394 | ng    | #        | 91  |
| 88) Benzo(b)fluoranthene      | 24.309 | 252  | 59813    | 5.042 | ng    |          | 99  |
| 89) Benzo(k)fluoranthene      | 24.374 | 252  | 56911    | 4.856 | ng    |          | 95  |
| 90) Benzo(a)pyrene            | 25.249 | 252  | 57511    | 5.739 | ng    | #        | 97  |
| 91) Dibenzo(a,h)anthracene    | 29.490 | 278  | 54785    | 4.761 | ng    | #        | 98  |
| 92) Benzo(g,h,i)perylene      | 30.665 | 276  | 53286    | 4.718 | ng    | #        | 92  |

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

