

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040121\  
 Data File : BG048541.D  
 Acq On : 1 Apr 2021 12:41  
 Operator : CG/JU  
 Sample : M1458-03  
 Misc : MDL-MDL-SOIL-8PPM  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2021

Manual Integrations  
 APPROVED

mohammad  
 4/2/2021 11:05:45 AM

Quant Time: Apr 01 13:16:39 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG033021.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 01 11:19:59 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.099  | 152  | 19145    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.925 | 136  | 81249    | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.750 | 164  | 59906    | 20.00 | ng    | # 0.00   |
| 64) Phenanthrene-d10          | 17.500 | 188  | 140898   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.795 | 240  | 143503   | 20.00 | ng    | # 0.00   |
| 86) Perylene-d12              | 25.144 | 264  | 144988   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.637  | 112  | 98910    | 91.21 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.241  | 99   | 136029   | 86.49 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.263  | 82   | 124863   | 74.40 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.237 | 330  | 65207    | 82.80 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.370 | 172  | 296792   | 73.64 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.115 | 244  | 598482   | 76.27 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.505  | 88   | 4947     | 11.34 | ng    | 92       |
| 3) Pyridine                   | 3.928  | 79   | 8631     | 7.89  | ng    | 95       |
| 4) n-Nitrosodimethylamine     | 3.828  | 42   | 6690     | 9.36  | ng    | # 79     |
| 6) Aniline                    | 7.412  | 93   | 20019    | 11.08 | ng    | # 85     |
| 8) 2-Chlorophenol             | 7.659  | 128  | 11748    | 9.59  | ng    | 91       |
| 9) Benzaldehyde               | 7.224  | 77   | 10711    | 10.65 | ng    | 94       |
| 10) Phenol                    | 7.265  | 94   | 13147    | 8.35  | ng    | 87       |
| 11) bis(2-Chloroethyl)ether   | 7.506  | 93   | 10173    | 9.31  | ng    | 88       |
| 12) 1,3-Dichlorobenzene       | 7.988  | 146  | 14261    | 10.33 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 8.129  | 146  | 14101    | 10.13 | ng    | 94       |
| 14) 1,2-Dichlorobenzene       | 8.458  | 146  | 12762    | 9.57  | ng    | 95       |
| 15) Benzyl Alcohol            | 8.334  | 79   | 13143    | 10.20 | ng    | # 85     |
| 16) 2,2'-oxybis(1-Chloropr... | 8.622  | 45   | 11089    | 10.52 | ng    | 89       |
| 17) 2-Methylphenol            | 8.528  | 107  | 10938    | 10.74 | ng    | # 74     |
| 18) Hexachloroethane          | 9.192  | 117  | 4892     | 9.46  | ng    | 91       |
| 19) n-Nitroso-di-n-propyla... | 8.904  | 70   | 10192    | 9.40  | ng    | 96       |
| 20) 3+4-Methylphenols         | 8.857  | 107  | 13349    | 9.44  | ng    | 95       |
| 22) Acetophenone              | 8.922  | 105  | 19748    | 9.43  | ng    | # 96     |
| 24) Nitrobenzene              | 9.304  | 77   | 16553    | 10.05 | ng    | 94       |
| 25) Isophorone                | 9.827  | 82   | 27509    | 8.88  | ng    | 94       |
| 26) 2-Nitrophenol             | 10.020 | 139  | 7055     | 9.32  | ng    | # 87     |
| 27) 2,4-Dimethylphenol        | 10.079 | 122  | 11221    | 9.42  | ng    | 85       |
| 28) bis(2-Chloroethoxy)met... | 10.320 | 93   | 14668    | 10.33 | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 10.561 | 162  | 11271    | 8.36  | ng    | 88       |
| 30) 1,2,4-Trichlorobenzene    | 10.784 | 180  | 13461    | 8.69  | ng    | 94       |
| 31) Naphthalene               | 10.972 | 128  | 39113    | 9.36  | ng    | 99       |
| 32) Benzoic acid              | 10.150 | 122  | 4114m    | 4.49  | ng    |          |
| 33) 4-Chloroaniline           | 11.078 | 127  | 17365    | 9.85  | ng    | # 91     |
| 34) Hexachlorobutadiene       | 11.260 | 225  | 11211    | 9.91  | ng    | 92       |
| 35) Caprolactam               | 11.824 | 113  | 4143     | 8.42  | ng    | # 64     |
| 36) 4-Chloro-3-methylphenol   | 12.194 | 107  | 13761    | 9.09  | ng    | # 79     |
| 37) 2-Methylnaphthalene       | 12.576 | 142  | 30116m   | 9.06  | ng    |          |
| 38) 1-Methylnaphthalene       | 12.794 | 142  | 27713    | 8.74  | ng    | # 90     |
| 40) 1,2,4,5-Tetrachloroben... | 12.941 | 216  | 17386    | 9.36  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.923 | 237  | 11137    | 10.35 | ng    | 87       |
| 43) 2,4,6-Trichlorophenol     | 13.176 | 196  | 11163    | 8.75  | ng    | 89       |

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| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.252 | 196  | 11574    | 8.48 | ng    | 90       |
| 46) 1,1'-Biphenyl             | 13.581 | 154  | 41541    | 9.49 | ng    | 91       |
| 47) 2-Chloronaphthalene       | 13.622 | 162  | 31787    | 9.53 | ng    | 95       |
| 48) 2-Nitroaniline            | 13.822 | 65   | 8991     | 8.48 | ng    | 87       |
| 49) Acenaphthylene            | 14.474 | 152  | 46608    | 8.92 | ng    | # 96     |
| 50) Dimethylphthalate         | 14.192 | 163  | 40674    | 9.15 | ng    | # 94     |
| 51) 2,6-Dinitrotoluene        | 14.310 | 165  | 9315     | 9.16 | ng    | # 84     |
| 52) Acenaphthene              | 14.815 | 154  | 34507    | 9.13 | ng    | 94       |
| 53) 3-Nitroaniline            | 14.639 | 138  | 8703     | 8.72 | ng    | # 86     |
| 54) 2,4-Dinitrophenol         | 14.850 | 184  | 3467     | 6.06 | ng    | # 89     |
| 55) Dibenzofuran              | 15.150 | 168  | 49204    | 8.91 | ng    | 97       |
| 56) 4-Nitrophenol             | 14.950 | 139  | 7512     | 9.33 | ng    | # 64     |
| 57) 2,4-Dinitrotoluene        | 15.097 | 165  | 12791    | 8.89 | ng    | 91       |
| 58) Fluorene                  | 15.796 | 166  | 40586    | 8.78 | ng    | 91       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.367 | 232  | 11047    | 8.29 | ng    | # 95     |
| 60) Diethylphthalate          | 15.555 | 149  | 41611    | 9.11 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.784 | 204  | 22841    | 9.18 | ng    | 96       |
| 62) 4-Nitroaniline            | 15.802 | 138  | 9859     | 9.45 | ng    | 91       |
| 63) Azobenzene                | 16.078 | 77   | 39910    | 8.88 | ng    | 95       |
| 65) 4,6-Dinitro-2-methylph... | 15.861 | 198  | 6064     | 7.16 | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 15.996 | 169  | 38563    | 9.62 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.683 | 248  | 14282    | 9.14 | ng    | 89       |
| 68) Hexachlorobenzene         | 16.801 | 284  | 16065    | 9.85 | ng    | 97       |
| 69) Atrazine                  | 16.942 | 200  | 14073    | 8.61 | ng    | 92       |
| 70) Pentachlorophenol         | 17.147 | 266  | 7127     | 7.03 | ng    | 99       |
| 71) Phenanthrene              | 17.541 | 178  | 70035    | 9.58 | ng    | 97       |
| 72) Anthracene                | 17.635 | 178  | 70411m   | 9.66 | ng    |          |
| 73) Carbazole                 | 17.905 | 167  | 62339    | 9.02 | ng    | 96       |
| 74) Di-n-butylphthalate       | 18.458 | 149  | 72559    | 9.40 | ng    | 100      |
| 75) Fluoranthene              | 19.550 | 202  | 86410    | 9.53 | ng    | 98       |
| 77) Benzidine                 | 19.727 | 184  | 39966    | 8.22 | ng    | # 95     |
| 78) Pyrene                    | 19.915 | 202  | 86775    | 8.79 | ng    | 95       |
| 80) Butylbenzylphthalate      | 20.796 | 149  | 32057    | 8.75 | ng    | 93       |
| 81) Benzo(a)anthracene        | 21.777 | 228  | 89320    | 9.32 | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine    | 21.689 | 252  | 31350    | 9.52 | ng    | # 82     |
| 83) Chrysene                  | 21.842 | 228  | 84050    | 9.19 | ng    | 95       |
| 84) Bis(2-ethylhexyl)phtha... | 21.677 | 149  | 47565    | 9.32 | ng    | # 97     |
| 85) Di-n-octyl phthalate      | 22.935 | 149  | 79730    | 8.96 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.957 | 276  | 93215    | 9.17 | ng    | # 73     |
| 88) Benzo(b)fluoranthene      | 24.069 | 252  | 87129    | 9.25 | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 24.145 | 252  | 84765    | 9.36 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.979 | 252  | 78846    | 9.08 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 29.034 | 278  | 83676    | 9.65 | ng    | # 98     |
| 92) Benzo(g,h,i)perylene      | 30.156 | 276  | 78816    | 9.28 | ng    | 95       |

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

