

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF111020\  
 Data File : BF122298.D  
 Acq On : 10 Nov 2020 14:54  
 Operator : JU/CG  
 Sample : L4214-02  
 Misc : LOQ-SOIL-10ppm  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2020

Manual Integrations  
 APPROVED

mohammad  
 11/11/2020 10:32:12 AM

Quant Time: Nov 10 15:19:36 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 10 13:10:47 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.863  | 152  | 302853   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 1173366  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.904  | 164  | 627851   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.386 | 188  | 1143857  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.027 | 240  | 1046944  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12              | 15.492 | 264  | 1006369  | 20.00 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.475  | 112  | 1770726  | 89.78 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.487  | 99   | 2251105  | 87.24 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.428  | 82   | 1605041  | 83.74 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 616145   | 91.44 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.228  | 172  | 2821679  | 70.22 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.980 | 244  | 3095699  | 62.64 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.652  | 88   | 72722    | 8.04  | ng    | 94       |
| 3) Pyridine                   | 3.410  | 79   | 199566   | 8.02  | ng    | 94       |
| 4) n-Nitrosodimethylamine     | 3.322  | 42   | 92875    | 7.92  | ng    | 97       |
| 6) Aniline                    | 6.528  | 93   | 277150   | 8.19  | ng    | 97       |
| 8) 2-Chlorophenol             | 6.645  | 128  | 174704   | 8.54  | ng    | 95       |
| 9) Benzaldehyde               | 6.410  | 77   | 147876   | 10.16 | ng    | 99       |
| 10) Phenol                    | 6.498  | 94   | 214273   | 8.43  | ng    | # 76     |
| 11) bis(2-Chloroethyl)ether   | 6.598  | 93   | 169217   | 8.38  | ng    | 95       |
| 12) 1,3-Dichlorobenzene       | 6.804  | 146  | 197330   | 8.50  | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 6.881  | 146  | 198081   | 8.49  | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 7.034  | 146  | 193193   | 8.87  | ng    | 99       |
| 15) Benzyl Alcohol            | 6.998  | 79   | 138687   | 7.56  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139  | 45   | 247332   | 8.40  | ng    | 97       |
| 17) 2-Methylphenol            | 7.104  | 107  | 143117   | 8.38  | ng    | 99       |
| 18) Hexachloroethane          | 7.381  | 117  | 69637    | 8.57  | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 7.275  | 70   | 130948   | 8.49  | ng    | 95       |
| 20) 3+4-Methylphenols         | 7.257  | 107  | 182705   | 8.70  | ng    | # 67     |
| 22) Acetophenone              | 7.269  | 105  | 254710   | 8.33  | ng    | # 87     |
| 24) Nitrobenzene              | 7.445  | 77   | 194033   | 8.85  | ng    | 96       |
| 25) Isophorone                | 7.681  | 82   | 336753   | 7.88  | ng    | 97       |
| 26) 2-Nitrophenol             | 7.763  | 139  | 63270    | 8.55  | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.792  | 122  | 161163   | 8.00  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.892  | 93   | 209824   | 8.03  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 7.998  | 162  | 140760   | 7.89  | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 8.092  | 180  | 160984   | 8.17  | ng    | 96       |
| 31) Naphthalene               | 8.169  | 128  | 518368   | 8.31  | ng    | 99       |
| 32) Benzoic acid              | 7.851  | 122  | 50054m   | 5.50  | ng    |          |
| 33) 4-Chloroaniline           | 8.210  | 127  | 215867   | 7.95  | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.292  | 225  | 91650    | 8.10  | ng    | 99       |
| 35) Caprolactam               | 8.545  | 113  | 43590    | 7.71  | ng    | # 87     |
| 36) 4-Chloro-3-methylphenol   | 8.686  | 107  | 146171   | 7.85  | ng    | 91       |
| 37) 2-Methylnaphthalene       | 8.863  | 142  | 345754   | 8.39  | ng    | 98       |
| 38) 1-Methylnaphthalene       | 8.963  | 142  | 320575   | 8.31  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 9.028  | 216  | 155800   | 8.05  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.022  | 237  | 85048    | 7.52  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.133  | 196  | 97820    | 7.79  | ng    | 99       |

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| 44) 2,4,5-Trichlorophenol     | 9.169  | 196  | 102895   | 7.81  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.328  | 154  | 416118   | 8.33  | ng    | 96       |
| 47) 2-Chloronaphthalene       | 9.351  | 162  | 325970   | 8.22  | ng    | 96       |
| 48) 2-Nitroaniline            | 9.433  | 65   | 83862    | 8.61  | ng    | 91       |
| 49) Acenaphthylene            | 9.763  | 152  | 496344   | 8.14  | ng    | 99       |
| 50) Dimethylphthalate         | 9.622  | 163  | 360806   | 8.08  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 9.681  | 165  | 72416    | 8.39  | ng    | 89       |
| 52) Acenaphthene              | 9.939  | 154  | 320922   | 8.50  | ng    | 100      |
| 53) 3-Nitroaniline            | 9.845  | 138  | 82349    | 8.26  | ng    | 93       |
| 54) 2,4-Dinitrophenol         | 9.945  | 184  | 35307    | 13.39 | ng    | # 1      |
| 55) Dibenzofuran              | 10.110 | 168  | 455755   | 8.24  | ng    | 96       |
| 56) 4-Nitrophenol             | 9.986  | 139  | 63489    | 7.46  | ng    | 87       |
| 57) 2,4-Dinitrotoluene        | 10.080 | 165  | 90210    | 8.64  | ng    | # 87     |
| 58) Fluorene                  | 10.451 | 166  | 361381   | 8.54  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.222 | 232  | 90289    | 8.24  | ng    | 99       |
| 60) Diethylphthalate          | 10.322 | 149  | 356301   | 8.14  | ng    | 97       |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204  | 169538   | 8.48  | ng    | 98       |
| 62) 4-Nitroaniline            | 10.451 | 138  | 81647    | 8.32  | ng    | 98       |
| 63) Azobenzene                | 10.604 | 77   | 368930   | 8.03  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.486 | 198  | 27402    | 6.30  | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 10.557 | 169  | 310515   | 7.97  | ng    | 95       |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248  | 106075   | 7.89  | ng    | 99       |
| 68) Hexachlorobenzene         | 10.998 | 284  | 117042   | 8.06  | ng    | 99       |
| 69) Atrazine                  | 11.080 | 200  | 88338    | 9.10  | ng    | 97       |
| 70) Pentachlorophenol         | 11.186 | 266  | 58999    | 7.05  | ng    | 99       |
| 71) Phenanthrene              | 11.410 | 178  | 540478   | 8.33  | ng    | 99       |
| 72) Anthracene                | 11.463 | 178  | 556178   | 8.32  | ng    | 98       |
| 73) Carbazole                 | 11.610 | 167  | 495901   | 8.15  | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.951 | 149  | 536386   | 8.27  | ng    | 99       |
| 75) Fluoranthene              | 12.598 | 202  | 564861   | 8.34  | ng    | 97       |
| 77) Benzidine                 | 12.716 | 184  | 272679   | 9.39  | ng    | # 95     |
| 78) Pyrene                    | 12.827 | 202  | 585448   | 7.96  | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.451 | 149  | 202879   | 7.67  | ng    | 94       |
| 81) Benzo(a)anthracene        | 14.016 | 228  | 535671   | 8.23  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.974 | 252  | 193622   | 7.98  | ng    | 98       |
| 83) Chrysene                  | 14.051 | 228  | 531681   | 8.11  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.016 | 149  | 285288   | 8.04  | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.627 | 149  | 449127   | 7.47  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 16.945 | 276  | 466810   | 7.73  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.057 | 252  | 506100   | 7.77  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.086 | 252  | 501786   | 7.90  | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.427 | 252  | 436447   | 7.68  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 16.962 | 278  | 389542   | 7.70  | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.380 | 276  | 380022   | 7.73  | ng    | 98       |

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

