

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG101918\  
 Data File : BG037471.D  
 Acq On : 20 Oct 2018 4:20  
 Operator : JU/SJ  
 Sample : PB113548BS  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB113548BS

Manual Integrations  
 APPROVED

Sohil  
 10/22/2018 3:39:38 PM

Quant Time: Oct 20 06:10:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG101818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 14:06:42 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 60447    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.93 | 136  | 264637   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.75 | 164  | 170992   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.49 | 188  | 422864   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.78 | 240  | 396206   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.11 | 264  | 421695   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.65  | 112 | 388426  | 107.43 | ng | 0.00 |
| 7) Phenol-d6             | 7.25  | 99  | 554608  | 101.44 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.29  | 82  | 456671  | 96.67  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.23 | 330 | 195603  | 104.88 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.36 | 172 | 1053800 | 92.93  | ng | 0.00 |
| 79) Terphenyl-d14        | 20.09 | 244 | 1666565 | 89.88  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.53  | 88  | 53518  | 29.188 | ng | # 95   |
| 3) Pyridine                    | 3.93  | 79  | 162470 | 35.156 | ng | 94     |
| 4) n-Nitrosodimethylamine      | 3.85  | 42  | 78607  | 47.755 | ng | # 98   |
| 6) Aniline                     | 7.43  | 93  | 213191 | 31.965 | ng | 97     |
| 8) 2-Chlorophenol              | 7.67  | 128 | 197454 | 46.683 | ng | 98     |
| 9) Benzaldehyde                | 7.25  | 77  | 51802  | 15.147 | ng | 97     |
| 10) Phenol                     | 7.28  | 94  | 271953 | 47.145 | ng | 98     |
| 11) bis(2-Chloroethyl)ether    | 7.52  | 93  | 182616 | 41.682 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 7.99  | 146 | 187201 | 39.756 | ng | 95     |
| 13) 1,4-Dichlorobenzene        | 8.14  | 146 | 192378 | 39.940 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 8.46  | 146 | 184446 | 39.809 | ng | 98     |
| 15) Benzyl Alcohol             | 8.35  | 79  | 177816 | 44.017 | ng | 96     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.63  | 45  | 334209 | 42.633 | ng | 98     |
| 17) 2-Methylphenol             | 8.53  | 107 | 179381 | 47.037 | ng | 99     |
| 18) Hexachloroethane           | 9.19  | 117 | 68368  | 41.635 | ng | 93     |
| 19) n-Nitroso-di-n-propylamine | 8.92  | 70  | 150148 | 39.882 | ng | 99     |
| 20) 3+4-Methylphenols          | 8.87  | 107 | 249818 | 45.817 | ng | 100    |
| 22) Acetophenone               | 8.94  | 105 | 288686 | 43.497 | ng | # 96   |
| 24) Nitrobenzene               | 9.33  | 77  | 220291 | 44.888 | ng | 95     |
| 25) Isophorone                 | 9.85  | 82  | 431335 | 49.971 | ng | 98     |
| 26) 2-Nitrophenol              | 10.04 | 139 | 101497 | 45.909 | ng | 98     |
| 27) 2,4-Dimethylphenol         | 10.08 | 122 | 213006 | 53.961 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 10.33 | 93  | 263135 | 46.529 | ng | 96     |
| 29) 2,4-Dichlorophenol         | 10.57 | 162 | 211038 | 48.017 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 10.79 | 180 | 197878 | 41.401 | ng | 98     |
| 31) Naphthalene                | 10.98 | 128 | 599030 | 46.085 | ng | 99     |
| 32) Benzoic acid               | 10.22 | 122 | 128190 | 49.999 | ng | 99     |
| 33) 4-Chloroaniline            | 11.09 | 127 | 115261 | 18.872 | ng | 95     |
| 34) Hexachlorobutadiene        | 11.24 | 225 | 115395 | 40.737 | ng | 94     |
| 35) Caprolactam                | 11.88 | 113 | 79624m | 45.172 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.19 | 107 | 235524 | 47.517 | ng | 98     |
| 37) 2-Methylnaphthalene        | 12.58 | 142 | 455583 | 48.081 | ng | 98     |
| 38) 1-Methylnaphthalene        | 12.79 | 142 | 434984 | 47.272 | ng | 100    |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.94 | 216 | 228963 | 41.513 | ng | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.91 | 237  | 289299   | 109.809 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol      | 13.18 | 196  | 175942   | 47.749  | ng    | 100      |
| 44) 2,4,5-Trichlorophenol      | 13.25 | 196  | 194404   | 48.457  | ng    | 99       |
| 46) 1,1'-Biphenyl              | 13.58 | 154  | 598612   | 42.272  | ng    | 99       |
| 47) 2-Chloronaphthalene        | 13.62 | 162  | 471412   | 44.002  | ng    | 99       |
| 48) 2-Nitroaniline             | 13.83 | 65   | 161284   | 49.643  | ng    | 97       |
| 49) Acenaphthylene             | 14.47 | 152  | 794366   | 49.291  | ng    | 100      |
| 50) Dimethylphthalate          | 14.19 | 163  | 637252   | 48.174  | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 14.32 | 165  | 141761   | 48.443  | ng    | 96       |
| 52) Acenaphthene               | 14.81 | 154  | 463871   | 46.736  | ng    | 99       |
| 53) 3-Nitroaniline             | 14.65 | 138  | 101479   | 31.237  | ng    | # 98     |
| 54) 2,4-Dinitrophenol          | 14.85 | 184  | 125789   | 89.701  | ng    | 92       |
| 55) Dibenzofuran               | 15.14 | 168  | 740091   | 45.005  | ng    | 97       |
| 56) 4-Nitrophenol              | 14.95 | 139  | 257427   | 107.054 | ng    | 97       |
| 57) 2,4-Dinitrotoluene         | 15.10 | 165  | 203252   | 52.912  | ng    | 98       |
| 58) Fluorene                   | 15.79 | 166  | 600971   | 48.802  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.36 | 232  | 173802   | 50.598  | ng    | 97       |
| 60) Diethylphthalate           | 15.55 | 149  | 659627   | 48.570  | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.77 | 204  | 315015   | 43.888  | ng    | 98       |
| 62) 4-Nitroaniline             | 15.82 | 138  | 160475   | 49.712  | ng    | 93       |
| 63) Azobenzene                 | 16.07 | 77   | 620120   | 47.857  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 15.86 | 198  | 101406   | 46.107  | ng    | 97       |
| 66) n-Nitrosodiphenylamine     | 15.99 | 169  | 563367   | 44.290  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.67 | 248  | 202738   | 43.658  | ng    | 98       |
| 68) Hexachlorobenzene          | 16.78 | 284  | 205805   | 42.762  | ng    | 96       |
| 69) Atrazine                   | 16.94 | 200  | 219666   | 47.765  | ng    | 100      |
| 70) Pentachlorophenol          | 17.12 | 266  | 260683   | 80.862  | ng    | 96       |
| 71) Phenanthrene               | 17.53 | 178  | 1018032  | 47.370  | ng    | 98       |
| 72) Anthracene                 | 17.62 | 178  | 1041943  | 49.403  | ng    | 98       |
| 73) Carbazole                  | 17.89 | 167  | 971072   | 46.029  | ng    | 99       |
| 74) Di-n-butylphthalate        | 18.43 | 149  | 1126784  | 48.013  | ng    | 99       |
| 75) Fluoranthene               | 19.53 | 202  | 1217527  | 49.950  | ng    | 97       |
| 77) Benzidine                  | 19.72 | 184  | 354473   | 26.312  | ng    | 98       |
| 78) Pyrene                     | 19.90 | 202  | 1211701  | 46.783  | ng    | 99       |
| 80) Butylbenzylphthalate       | 20.77 | 149  | 525444   | 49.570  | ng    | 97       |
| 81) Benzo(a)anthracene         | 21.75 | 228  | 1145616  | 48.884  | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine     | 21.67 | 252  | 273430   | 30.101  | ng    | 99       |
| 83) Chrysene                   | 21.83 | 228  | 1065880  | 47.300  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 21.63 | 149  | 732656   | 49.310  | ng    | 98       |
| 85) Di-n-octyl phthalate       | 22.88 | 149  | 1245635  | 51.411  | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene     | 28.95 | 276  | 1226491  | 50.745  | ng    | # 97     |
| 88) Benzo(b)fluoranthene       | 24.05 | 252  | 1156453  | 50.022  | ng    | 98       |
| 89) Benzo(k)fluoranthene       | 24.12 | 252  | 1101737m | 48.641  | ng    |          |
| 90) Benzo(a)pyrene             | 24.96 | 252  | 1110617  | 50.555  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 29.02 | 278  | 999124   | 49.305  | ng    | 96       |
| 92) Benzo(g,h,i)perylene       | 30.15 | 276  | 1030245  | 50.253  | ng    | 99       |

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

