

Data Path : Z:\HPCHEM1\BNA G\DATA\BG062816\  
 Data File : BG022681.D  
 Acq On : 28 Jun 2016 18:26  
 Operator : UM/SJ  
 Sample : PB91613BS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB91613BS

Quant Time: Jun 29 04:09:17 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 24 20:14:59 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 122839   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.98 | 136  | 514434   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.80 | 164  | 366648   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.56 | 188  | 982723   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.85 | 240  | 1164323  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.20 | 264  | 1167245  | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.71  | 112 | 1041761 | 136.03 | ng | 0.00 |
| 7) Phenol-d6             | 7.31  | 99  | 1541263 | 142.78 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.33  | 82  | 1046177 | 86.07  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.29 | 330 | 842157  | 146.03 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.42 | 172 | 2020068 | 87.38  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.16 | 244 | 3218558 | 73.24  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |       |    | Qvalue |
|--------------------------------|-------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.58  | 88  | 106217  | 34.22 | ng | # 93   |
| 3) Pyridine                    | 3.98  | 79  | 352064  | 40.55 | ng | 95     |
| 4) n-Nitrosodimethylamine      | 3.89  | 42  | 183583  | 36.97 | ng | 99     |
| 6) Aniline                     | 7.48  | 93  | 380111  | 26.56 | ng | 96     |
| 8) 2-Chlorophenol              | 7.72  | 128 | 375559  | 47.34 | ng | 98     |
| 9) Benzaldehyde                | 7.31  | 77  | 11697   | 3.08  | ng | # 39   |
| 10) Phenol                     | 7.33  | 94  | 559537  | 49.04 | ng | 91     |
| 11) bis(2-Chloroethyl)ether    | 7.58  | 93  | 390900  | 41.62 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 8.05  | 146 | 392099  | 40.62 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 8.20  | 146 | 404558  | 41.80 | ng | 96     |
| 14) 1,2-Dichlorobenzene        | 8.52  | 146 | 388076  | 42.17 | ng | 96     |
| 15) Benzyl Alcohol             | 8.40  | 79  | 465970  | 46.65 | ng | 94     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.69  | 45  | 432140  | 41.60 | ng | 96     |
| 17) 2-Methylphenol             | 8.60  | 107 | 358949  | 47.73 | ng | 92     |
| 18) Hexachloroethane           | 9.26  | 117 | 157566  | 39.33 | ng | # 85   |
| 19) n-Nitroso-di-n-propylamine | 8.97  | 70  | 380749  | 42.35 | ng | 93     |
| 20) 3+4-Methylphenols          | 8.93  | 107 | 489104  | 47.21 | ng | 97     |
| 22) Acetophenone               | 8.99  | 105 | 642931  | 43.23 | ng | # 93   |
| 24) Nitrobenzene               | 9.37  | 77  | 561044  | 41.76 | ng | 93     |
| 25) Isophorone                 | 9.90  | 82  | 971534  | 41.18 | ng | 98     |
| 26) 2-Nitrophenol              | 10.09 | 139 | 225624  | 46.63 | ng | 92     |
| 27) 2,4-Dimethylphenol         | 10.14 | 122 | 401531  | 43.43 | ng | 91     |
| 28) bis(2-Chloroethoxy)methane | 10.38 | 93  | 558212  | 43.33 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.63 | 162 | 439506  | 48.80 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 10.84 | 180 | 448356  | 41.92 | ng | 98     |
| 31) Naphthalene                | 11.04 | 128 | 1117804 | 43.23 | ng | 99     |
| 32) Benzoic acid               | 10.26 | 122 | 294688  | 48.68 | ng | 94     |
| 33) 4-Chloroaniline            | 11.14 | 127 | 106818  | 9.59  | ng | 98     |
| 34) Hexachlorobutadiene        | 11.31 | 225 | 352873  | 42.45 | ng | 98     |
| 35) Caprolactam                | 11.91 | 113 | 150245m | 52.95 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.25 | 107 | 525439  | 47.52 | ng | 96     |
| 37) 2-Methylnaphthalene        | 12.63 | 142 | 862189  | 42.99 | ng | 96     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.99 | 216 | 592260  | 42.79 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 12.98 | 237 | 821455  | 74.34 | ng | 99     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.23 | 196  | 421101   | 47.44  | nq    | 98       |
| 43) 2,4,5-Trichlorophenol      | 13.30 | 196  | 445148   | 47.93  | nq    | 94       |
| 45) 1,1'-Biphenyl              | 13.63 | 154  | 1207018  | 43.22  | nq    | 99       |
| 46) 2-Chloronaphthalene        | 13.67 | 162  | 982370   | 42.74  | nq    | 97       |
| 47) 2-Nitroaniline             | 13.87 | 65   | 414096   | 46.68  | nq    | 98       |
| 48) Acenaphthylene             | 14.52 | 152  | 1465883  | 43.98  | nq    | 99       |
| 49) Dimethylphthalate          | 14.24 | 163  | 1326651  | 43.62  | nq    | 96       |
| 50) 2,6-Dinitrotoluene         | 14.37 | 165  | 310669   | 47.01  | nq    | 83       |
| 51) Acenaphthene               | 14.86 | 154  | 958185   | 39.02  | nq    | 99       |
| 52) 3-Nitroaniline             | 14.70 | 138  | 179716   | 29.06  | nq    | 91       |
| 53) 2,4-Dinitrophenol          | 14.90 | 184  | 426267   | 104.71 | nq    | 94       |
| 54) Dibenzofuran               | 15.20 | 168  | 1558659  | 43.82  | nq    | 98       |
| 55) 4-Nitrophenol              | 15.00 | 139  | 528392   | 101.04 | nq    | 96       |
| 56) 2,4-Dinitrotoluene         | 15.16 | 165  | 464623   | 50.75  | nq    | 91       |
| 57) Fluorene                   | 15.85 | 166  | 1273266  | 44.86  | nq    | 96       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.42 | 232  | 466754   | 48.47  | nq    | 99       |
| 59) Diethylphthalate           | 15.61 | 149  | 1368058  | 43.75  | nq    | # 94     |
| 60) 4-Chlorophenyl-phenylether | 15.84 | 204  | 748874   | 44.32  | nq    | 95       |
| 61) 4-Nitroaniline             | 15.87 | 138  | 306676   | 48.06  | nq    | 88       |
| 62) Azobenzene                 | 16.13 | 77   | 1402390  | 41.41  | nq    | 92       |
| 64) 4,6-Dinitro-2-methylphenol | 15.92 | 198  | 324475   | 49.23  | nq    | 95       |
| 65) n-Nitrosodiphenylamine     | 16.05 | 169  | 1213659  | 42.44  | nq    | 97       |
| 66) 4-Bromophenyl-phenylether  | 16.74 | 248  | 531263   | 41.67  | nq    | 95       |
| 67) Hexachlorobenzene          | 16.85 | 284  | 570005   | 42.28  | nq    | 98       |
| 68) Atrazine                   | 17.00 | 200  | 546866   | 45.29  | nq    | 98       |
| 69) Pentachlorophenol          | 17.20 | 266  | 814668   | 87.82  | nq    | 96       |
| 70) Phenanthrene               | 17.60 | 178  | 2150607  | 42.91  | nq    | 97       |
| 71) Anthracene                 | 17.69 | 178  | 2162502  | 41.93  | nq    | 98       |
| 72) Carbazole                  | 17.96 | 167  | 1978015  | 45.24  | nq    | 97       |
| 73) Di-n-butylphthalate        | 18.50 | 149  | 2240584  | 44.01  | nq    | 98       |
| 74) Fluoranthene               | 19.60 | 202  | 2619862  | 45.38  | nq    | 96       |
| 76) Benzidine                  | 19.78 | 184  | 1109096  | 89.47  | nq    | 99       |
| 77) Pyrene                     | 19.97 | 202  | 2612763  | 42.13  | nq    | 94       |
| 79) Butylbenzylphthalate       | 20.84 | 149  | 1169431  | 43.56  | nq    | 95       |
| 80) Benzo(a)anthracene         | 21.83 | 228  | 2817029  | 43.72  | nq    | 96       |
| 81) 3,3'-Dichlorobenzidine     | 21.74 | 252  | 640229   | 24.06  | nq    | 99       |
| 82) Chrysene                   | 21.90 | 228  | 2642578  | 43.65  | nq    | 92       |
| 83) Bis(2-ethylhexyl)phthalate | 21.72 | 149  | 1553082  | 41.09  | nq    | 96       |
| 84) Di-n-octyl phthalate       | 22.98 | 149  | 2588694  | 41.55  | nq    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 29.05 | 276  | 3338294  | 41.96  | nq    | # 100    |
| 87) Benzo(b)fluoranthene       | 24.13 | 252  | 3124828  | 44.52  | nq    | 98       |
| 88) Benzo(k)fluoranthene       | 24.21 | 252  | 2858879  | 43.09  | nq    | # 95     |
| 89) Benzo(a)pyrene             | 25.05 | 252  | 2982721  | 43.59  | nq    | # 97     |
| 90) Dibenzo(a,h)anthracene     | 29.12 | 278  | 2841398  | 44.11  | nq    | # 95     |
| 91) Benzo(g,h,i)perylene       | 30.26 | 276  | 2726420  | 41.58  | nq    | # 97     |

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

