

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG073116\  
 Data File : BG023368.D  
 Acq On : 31 Jul 2016 14:55  
 Operator : UM/SJ  
 Sample : PB92481BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB92481BS

Manual Integrations  
 APPROVED

sohil  
 8/1/2016 7:12:50 PM

Quant Time: Aug 01 02:26:18 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG072616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 27 17:30:33 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 175262   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.96 | 136  | 851813   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 14.79 | 164  | 612755   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 17.55 | 188  | 1454496  | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 21.86 | 240  | 1269331  | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 25.24 | 264  | 1292200  | 20.00 | ng    | -0.06    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.67  | 112 | 1313707 | 127.96 | ng | 0.00  |
| 7) Phenol-d6             | 7.28  | 99  | 1922612 | 121.98 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 9.30  | 82  | 1241085 | 71.25  | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 16.28 | 330 | 909947  | 143.48 | ng | -0.02 |
| 44) 2-Fluorobiphenyl     | 13.40 | 172 | 2548176 | 77.83  | ng | -0.02 |
| 78) Terphenyl-d14        | 20.15 | 244 | 3051524 | 78.15  | ng | -0.02 |

## Target Compounds

|                                |       |     |         |       |    | Qvalue |
|--------------------------------|-------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.52  | 88  | 121660  | 27.63 | ng | # 95   |
| 3) Pyridine                    | 3.93  | 79  | 405936  | 26.34 | ng | 92     |
| 4) n-Nitrosodimethylamine      | 3.84  | 42  | 176027  | 25.28 | ng | # 67   |
| 6) Aniline                     | 7.44  | 93  | 638436  | 30.33 | ng | 91     |
| 8) 2-Chlorophenol              | 7.69  | 128 | 496444  | 43.34 | ng | 96     |
| 9) Benzaldehyde                | 7.25  | 77  | 222463  | 19.65 | ng | 93     |
| 10) Phenol                     | 7.31  | 94  | 717288  | 43.13 | ng | # 79   |
| 11) bis(2-Chloroethyl)ether    | 7.54  | 93  | 497617  | 35.20 | ng | 96     |
| 12) 1,3-Dichlorobenzene        | 8.01  | 146 | 459992m | 35.64 | ng |        |
| 13) 1,4-Dichlorobenzene        | 8.16  | 146 | 482658  | 36.65 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 8.48  | 146 | 474388  | 37.34 | ng | # 91   |
| 15) Benzyl Alcohol             | 8.36  | 79  | 509946  | 48.07 | ng | # 88   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.66  | 45  | 711479  | 31.63 | ng | 90     |
| 17) 2-Methylphenol             | 8.57  | 107 | 497346  | 43.75 | ng | # 88   |
| 18) Hexachloroethane           | 9.22  | 117 | 176685  | 32.20 | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 8.93  | 70  | 484270  | 34.16 | ng | 98     |
| 20) 3+4-Methylphenols          | 8.90  | 107 | 702831  | 45.47 | ng | 89     |
| 22) Acetophenone               | 8.95  | 105 | 711246  | 31.98 | ng | # 90   |
| 24) Nitrobenzene               | 9.35  | 77  | 680421  | 33.64 | ng | # 85   |
| 25) Isophorone                 | 9.86  | 82  | 1295674 | 36.01 | ng | # 93   |
| 26) 2-Nitrophenol              | 10.06 | 139 | 298596  | 39.08 | ng | # 71   |
| 27) 2,4-Dimethylphenol         | 10.12 | 122 | 555618  | 43.15 | ng | 85     |
| 28) bis(2-Chloroethoxy)methane | 10.35 | 93  | 780800  | 38.68 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.60 | 162 | 566729  | 45.46 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.81 | 180 | 513752  | 37.29 | ng | 100    |
| 31) Naphthalene                | 11.01 | 128 | 1506784 | 38.07 | ng | 97     |
| 32) Benzoic acid               | 10.25 | 122 | 303654  | 32.18 | ng | # 90   |
| 33) 4-Chloroaniline            | 11.12 | 127 | 151990  | 8.31  | ng | # 89   |
| 34) Hexachlorobutadiene        | 11.28 | 225 | 311976  | 34.55 | ng | 95     |
| 35) Caprolactam                | 11.90 | 113 | 230472m | 43.47 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.24 | 107 | 694311  | 42.39 | ng | # 88   |
| 37) 2-Methylnaphthalene        | 12.61 | 142 | 1188523 | 40.50 | ng | # 92   |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.98 | 216 | 566052  | 28.53 | ng | 100    |
| 40) Hexachlorocyclopentadiene  | 12.95 | 237 | 766115  | 81.50 | ng | 97     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.22 | 196  | 491611   | 42.19 | ng    | 97       |
| 43) 2,4,5-Trichlorophenol      | 13.29 | 196  | 522951   | 42.31 | ng    | 91       |
| 45) 1,1'-Biphenyl              | 13.62 | 154  | 1450012  | 33.93 | ng    | 94       |
| 46) 2-Chloronaphthalene        | 13.66 | 162  | 1258298  | 36.75 | ng    | 95       |
| 47) 2-Nitroaniline             | 13.87 | 65   | 537820   | 37.13 | ng    | # 85     |
| 48) Acenaphthylene             | 14.51 | 152  | 2015854  | 38.45 | ng    | 96       |
| 49) Dimethylphthalate          | 14.23 | 163  | 1737956  | 38.43 | ng    | 97       |
| 50) 2,6-Dinitrotoluene         | 14.36 | 165  | 413485   | 39.05 | ng    | # 77     |
| 51) Acenaphthene               | 14.85 | 154  | 1285530  | 37.80 | ng    | 97       |
| 52) 3-Nitroaniline             | 14.70 | 138  | 257261   | 24.12 | ng    | # 66     |
| 53) 2,4-Dinitrophenol          | 14.90 | 184  | 545713   | 88.02 | ng    | 86       |
| 54) Dibenzofuran               | 15.19 | 168  | 2012051  | 41.81 | ng    | 98       |
| 55) 4-Nitrophenol              | 15.01 | 139  | 706364   | 76.35 | ng    | # 70     |
| 56) 2,4-Dinitrotoluene         | 15.15 | 165  | 597351   | 40.06 | ng    | 89       |
| 57) Fluorene                   | 15.84 | 166  | 1654949  | 38.95 | ng    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.41 | 232  | 509780   | 48.72 | ng    | 94       |
| 59) Diethylphthalate           | 15.60 | 149  | 1786881  | 38.58 | ng    | 94       |
| 60) 4-Chlorophenyl-phenylether | 15.83 | 204  | 873594   | 37.98 | ng    | 97       |
| 61) 4-Nitroaniline             | 15.87 | 138  | 448869   | 40.14 | ng    | # 60     |
| 62) Azobenzene                 | 16.12 | 77   | 1916163  | 39.90 | ng    | 89       |
| 64) 4,6-Dinitro-2-methylphenol | 15.92 | 198  | 375813   | 40.23 | ng    | 95       |
| 65) n-Nitrosodiphenylamine     | 16.04 | 169  | 1561099  | 40.20 | ng    | # 92     |
| 66) 4-Bromophenyl-phenylether  | 16.72 | 248  | 627430   | 42.66 | ng    | 96       |
| 67) Hexachlorobenzene          | 16.85 | 284  | 645130   | 43.63 | ng    | 95       |
| 68) Atrazine                   | 16.99 | 200  | 613781   | 41.21 | ng    | 95       |
| 69) Pentachlorophenol          | 17.19 | 266  | 781792   | 85.66 | ng    | 99       |
| 70) Phenanthrene               | 17.59 | 178  | 2556250m | 40.18 | ng    |          |
| 71) Anthracene                 | 17.68 | 178  | 2610804  | 40.62 | ng    | # 92     |
| 72) Carbazole                  | 17.96 | 167  | 2422386  | 41.14 | ng    | 95       |
| 73) Di-n-butylphthalate        | 18.50 | 149  | 2699042  | 41.09 | ng    | # 96     |
| 74) Fluoranthene               | 19.60 | 202  | 2780923  | 38.30 | ng    | 90       |
| 76) Benzidine                  | 19.78 | 184  | 1430619  | 40.07 | ng    | 99       |
| 77) Pyrene                     | 19.97 | 202  | 2724048  | 37.82 | ng    | # 92     |
| 79) Butylbenzylphthalate       | 20.84 | 149  | 1209656  | 38.17 | ng    | 96       |
| 80) Benzo(a)anthracene         | 21.84 | 228  | 2539661  | 38.22 | ng    | 97       |
| 81) 3,3'-Dichlorobenzidine     | 21.75 | 252  | 646643   | 24.00 | ng    | # 93     |
| 82) Chrysene                   | 21.91 | 228  | 2377404  | 37.03 | ng    | 93       |
| 83) Bis(2-ethylhexyl)phthalate | 21.72 | 149  | 1649354  | 37.20 | ng    | 97       |
| 84) Di-n-octyl phthalate       | 22.99 | 149  | 2744731  | 37.84 | ng    | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 29.12 | 276  | 3227248  | 43.09 | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 24.17 | 252  | 2747138  | 40.02 | ng    | # 95     |
| 88) Benzo(k)fluoranthene       | 24.24 | 252  | 2591244  | 37.76 | ng    | # 93     |
| 89) Benzo(a)pyrene             | 25.09 | 252  | 2645684  | 39.33 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 29.18 | 278  | 2657222  | 41.76 | ng    | # 89     |
| 91) Benzo(g,h,i)perylene       | 30.32 | 276  | 2672321  | 39.89 | ng    | # 89     |

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

