

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042915\  
 Data File : BF078815.D  
 Acq On : 29 Apr 2015 16:06  
 Operator : TP/IZ  
 Sample : PB83017BS  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83017BS

Quant Time: Apr 30 01:37:57 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 30 00:55:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 76830    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.96  | 136  | 328118   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.14 | 164  | 158875   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.98 | 188  | 302101   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 16.29 | 240  | 313524   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 18.07 | 264  | 312871   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.68  | 112 | 557626  | 133.30 | ng | 0.00 |
| 7) Phenol-d6             | 6.92  | 99  | 705234  | 126.23 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.07  | 82  | 390509  | 85.69  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 12.13 | 330 | 208695  | 132.04 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 10.31 | 172 | 861166  | 74.23  | ng | 0.00 |
| 78) Terphenyl-d14        | 14.98 | 244 | 1016887 | 77.24  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |       |    | Qvalue |
|--------------------------------|-------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.38  | 88  | 64237   | 33.47 | ng | # 13   |
| 3) Pyridine                    | 3.14  | 79  | 199663  | 35.23 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 3.05  | 42  | 105312m | 41.36 | ng |        |
| 6) Aniline                     | 6.97  | 93  | 175130  | 21.46 | ng | 98     |
| 8) 2-Chlorophenol              | 7.11  | 128 | 200720  | 41.74 | ng | 93     |
| 9) Benzaldehyde                | 6.83  | 77  | 12859   | 3.19  | ng | 94     |
| 10) Phenol                     | 6.95  | 94  | 267303  | 40.48 | ng | 93     |
| 11) bis(2-Chloroethyl)ether    | 7.07  | 93  | 197953  | 40.53 | ng | 87     |
| 12) 1,3-Dichlorobenzene        | 7.31  | 146 | 216214  | 38.73 | ng | # 89   |
| 13) 1,4-Dichlorobenzene        | 7.40  | 146 | 223568  | 39.11 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 7.59  | 146 | 215716  | 40.39 | ng | 98     |
| 15) Benzyl Alcohol             | 7.55  | 79  | 167581  | 40.25 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.74  | 45  | 311930  | 40.86 | ng | 98     |
| 17) 2-Methylphenol             | 7.69  | 107 | 161776  | 41.56 | ng | 94     |
| 18) Hexachloroethane           | 8.01  | 117 | 76790   | 40.67 | ng | 93     |
| 19) n-Nitroso-di-n-propylamine | 7.90  | 70  | 159785  | 40.99 | ng | # 89   |
| 20) 3+4-Methylphenols          | 7.88  | 107 | 218806  | 43.15 | ng | 92     |
| 22) Acetophenone               | 7.88  | 105 | 291613  | 40.12 | ng | # 91   |
| 24) Nitrobenzene               | 8.09  | 77  | 205422  | 42.09 | ng | 97     |
| 25) Isophorone                 | 8.40  | 82  | 394573  | 38.30 | ng | # 91   |
| 26) 2-Nitrophenol              | 8.49  | 139 | 78859   | 54.92 | ng | 92     |
| 27) 2,4-Dimethylphenol         | 8.55  | 122 | 189407  | 41.44 | ng | 95     |
| 28) bis(2-Chloroethoxy)methane | 8.67  | 93  | 263484  | 41.42 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.78  | 162 | 166326  | 42.58 | ng | 93     |
| 30) 1,2,4-Trichlorobenzene     | 8.89  | 180 | 172226  | 38.39 | ng | 97     |
| 31) Naphthalene                | 8.98  | 128 | 589576  | 37.86 | ng | 100    |
| 32) Benzoic acid               | 8.63  | 122 | 79246   | 57.13 | ng | 98     |
| 33) 4-Chloroaniline            | 9.05  | 127 | 122343  | 18.67 | ng | 94     |
| 34) Hexachlorobutadiene        | 9.14  | 225 | 96847   | 38.26 | ng | 98     |
| 35) Caprolactam                | 9.47  | 113 | 52067   | 41.86 | ng | # 85   |
| 36) 4-Chloro-3-methylphenol    | 9.66  | 107 | 183577  | 44.76 | ng | 89     |
| 37) 2-Methylnaphthalene        | 9.85  | 142 | 422298  | 40.31 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 10.06 | 216 | 168396  | 37.41 | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 10.04 | 237 | 173047  | 91.45 | ng | 98     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 42) 2,4,6-Trichlorophenol      | 10.19 | 196  | 119104   | 43.42  | nq    | 95       |
| 43) 2,4,5-Trichlorophenol      | 10.24 | 196  | 121126   | 41.49  | nq #  | 89       |
| 45) 1,1'-Biphenyl              | 10.43 | 154  | 497606   | 39.03  | nq    | 96       |
| 46) 2-Chloronaphthalene        | 10.46 | 162  | 375374   | 37.67  | nq    | 94       |
| 47) 2-Nitroaniline             | 10.57 | 65   | 100363   | 46.12  | nq    | 86       |
| 48) Acenaphthylene             | 10.96 | 152  | 615978   | 37.78  | nq    | 99       |
| 49) Dimethylphthalate          | 10.81 | 163  | 440357   | 38.99  | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 10.89 | 165  | 83317    | 45.28  | nq #  | 66       |
| 51) Acenaphthene               | 11.18 | 154  | 376001   | 39.27  | nq    | 99       |
| 52) 3-Nitroaniline             | 11.08 | 138  | 69733    | 29.21  | nq    | 85       |
| 53) 2,4-Dinitrophenol          | 11.22 | 184  | 43192    | 146.74 | nq #  | 71       |
| 54) Dibenzofuran               | 11.39 | 168  | 552717   | 39.35  | nq    | 97       |
| 55) 4-Nitrophenol              | 11.29 | 139  | 173467   | 89.69  | nq    | 90       |
| 56) 2,4-Dinitrotoluene         | 11.38 | 165  | 118426   | 52.08  | nq #  | 69       |
| 57) Fluorene                   | 11.82 | 166  | 444600   | 39.59  | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 11.54 | 232  | 99615    | 45.57  | nq #  | 100      |
| 59) Diethylphthalate           | 11.69 | 149  | 445599   | 39.65  | nq    | 97       |
| 60) 4-Chlorophenyl-phenylether | 11.83 | 204  | 197948   | 39.62  | nq    | 92       |
| 61) 4-Nitroaniline             | 11.84 | 138  | 96067    | 40.29  | nq    | 93       |
| 62) Azobenzene                 | 12.02 | 77   | 486366   | 42.44  | nq    | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 11.88 | 198  | 32281    | 59.65  | nq #  | 64       |
| 65) n-Nitrosodiphenylamine     | 11.98 | 169  | 395916   | 40.54  | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 12.43 | 248  | 121959   | 39.99  | nq #  | 89       |
| 67) Hexachlorobenzene          | 12.49 | 284  | 139103   | 40.27  | nq #  | 90       |
| 68) Atrazine                   | 12.64 | 200  | 116664   | 44.60  | nq    | 97       |
| 69) Pentachlorophenol          | 12.74 | 266  | 156044   | 84.66  | nq    | 97       |
| 70) Phenanthrene               | 13.02 | 178  | 660625   | 40.39  | nq    | 99       |
| 71) Anthracene                 | 13.09 | 178  | 668390   | 41.79  | nq    | 98       |
| 72) Carbazole                  | 13.28 | 167  | 655188   | 43.39  | nq    | 98       |
| 73) Di-n-butylphthalate        | 13.74 | 149  | 721580   | 41.25  | nq #  | 97       |
| 74) Fluoranthene               | 14.49 | 202  | 698919   | 42.85  | nq    | 98       |
| 76) Benzidine                  | 14.67 | 184  | 246747   | 24.31  | nq    | 99       |
| 77) Pyrene                     | 14.78 | 202  | 740576   | 40.43  | nq    | 99       |
| 79) Butylbenzylphthalate       | 15.60 | 149  | 311906   | 44.40  | nq    | 98       |
| 80) Benzo(a)anthracene         | 16.27 | 228  | 689365   | 40.98  | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 16.25 | 252  | 171213   | 29.90  | nq #  | 98       |
| 82) Chrysene                   | 16.32 | 228  | 652858   | 39.82  | nq    | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 16.33 | 149  | 498534   | 44.21  | nq #  | 98       |
| 84) Di-n-octyl phthalate       | 17.14 | 149  | 813441   | 44.96  | nq #  | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 19.59 | 276  | 809441   | 43.51  | nq #  | 100      |
| 87) Benzo(b)fluoranthene       | 17.61 | 252  | 698743   | 41.26  | nq #  | 95       |
| 88) Benzo(k)fluoranthene       | 17.65 | 252  | 677607   | 41.29  | nq #  | 94       |
| 89) Benzo(a)pyrene             | 18.00 | 252  | 664560   | 43.86  | nq #  | 97       |
| 90) Dibenzo(a,h)anthracene     | 19.62 | 278  | 655051   | 41.74  | nq    | 99       |
| 91) Benzo(g,h,i)perylene       | 20.05 | 276  | 660709   | 41.94  | nq    | 98       |
| -----                          |       |      |          |        |       |          |

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

