

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030917\  
 Data File : BF093512.D  
 Acq On : 10 Mar 2017 9:06  
 Operator : SJ/MA  
 Sample : I2132-05MS  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-07MS

Quant Time: Mar 10 12:00:50 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 07 15:55:22 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.74  | 152  | 182112   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.04  | 136  | 721346   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.78  | 164  | 327420   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.27 | 188  | 562926   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.91 | 240  | 372183   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.32 | 264  | 325493   | 20.00 | ng    | -0.01    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.35  | 112 | 735183  | 67.19  | ng | 0.00  |
| 7) Phenol-d6                | 6.41  | 99  | 553204  | 40.09  | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.33  | 82  | 1250065 | 96.15  | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330 | 301330  | 141.26 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 9.11  | 172 | 1628508 | 92.51  | ng | -0.02 |
| 78) Terphenyl-d14           | 12.85 | 244 | 1340834 | 93.67  | ng | -0.02 |

|                                |      |     |         |       |    |        |
|--------------------------------|------|-----|---------|-------|----|--------|
| Target Compounds               |      |     |         |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 2.30 | 88  | 102725  | 17.04 | ng | 86     |
| 3) Pyridine                    | 3.03 | 79  | 221870  | 14.44 | ng | 91     |
| 4) n-Nitrosodimethylamine      | 2.96 | 42  | 124768  | 17.00 | ng | 86     |
| 6) Aniline                     | 6.41 | 93  | 246869  | 13.04 | ng | # 64   |
| 8) 2-Chlorophenol              | 6.54 | 128 | 461395  | 37.63 | ng | 98     |
| 9) Benzaldehyde                | 6.31 | 77  | 117520  | 10.44 | ng | 95     |
| 10) Phenol                     | 6.42 | 94  | 251552  | 14.88 | ng | 93     |
| 11) bis(2-Chloroethyl)ether    | 6.48 | 93  | 562233  | 41.14 | ng | 85     |
| 12) 1,3-Dichlorobenzene        | 6.69 | 146 | 551316  | 39.29 | ng | 95     |
| 13) 1,4-Dichlorobenzene        | 6.77 | 146 | 556081  | 38.70 | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 6.92 | 146 | 522415  | 41.06 | ng | 98     |
| 15) Benzyl Alcohol             | 6.90 | 79  | 292859  | 29.77 | ng | 93     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.03 | 45  | 963301  | 42.43 | ng | 71     |
| 17) 2-Methylphenol             | 7.03 | 107 | 316913  | 30.56 | ng | # 78   |
| 18) Hexachloroethane           | 7.25 | 117 | 182506  | 37.67 | ng | # 85   |
| 19) n-Nitroso-di-n-propylamine | 7.18 | 70  | 479962  | 50.59 | ng | 98     |
| 20) 3+4-Methylphenols          | 7.19 | 107 | 400131  | 29.75 | ng | # 72   |
| 22) Acetophenone               | 7.17 | 105 | 791024  | 45.57 | ng | 99     |
| 24) Nitrobenzene               | 7.34 | 77  | 632849  | 43.31 | ng | 95     |
| 25) Isophorone                 | 7.58 | 82  | 1164953 | 44.44 | ng | # 93   |
| 26) 2-Nitrophenol              | 7.66 | 139 | 297550  | 44.63 | ng | 93     |
| 27) 2,4-Dimethylphenol         | 7.70 | 122 | 420284  | 38.75 | ng | 97     |
| 28) bis(2-Chloroethoxy)methane | 7.80 | 93  | 781311  | 47.21 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 7.91 | 162 | 473671  | 46.43 | ng | 90     |
| 30) 1,2,4-Trichlorobenzene     | 7.98 | 180 | 441043  | 40.65 | ng | 96     |
| 31) Naphthalene                | 8.06 | 128 | 1543280 | 42.69 | ng | 98     |
| 32) Benzoic acid               | 7.83 | 122 | 67042   | 11.90 | ng | 94     |
| 33) 4-Chloroaniline            | 8.13 | 127 | 158233  | 10.79 | ng | 98     |
| 34) Hexachlorobutadiene        | 8.17 | 225 | 227359  | 40.68 | ng | 98     |
| 35) Caprolactam                | 8.50 | 113 | 22190   | 6.37  | ng | # 51   |
| 36) 4-Chloro-3-methylphenol    | 8.62 | 107 | 425531  | 39.08 | ng | 93     |
| 37) 2-Methylnaphthalene        | 8.74 | 142 | 952557  | 41.42 | ng | 100    |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.92 | 216 | 446516  | 49.94 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 8.89 | 237 | 97306   | 48.70 | ng | 98     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.04  | 196  | 296131   | 53.01  | nq    | 94       |
| 43) 2,4,5-Trichlorophenol      | 9.09  | 196  | 286229   | 47.76  | nq    | 95       |
| 45) 1,1'-Biphenyl              | 9.21  | 154  | 1232663  | 51.68  | nq    | 98       |
| 46) 2-Chloronaphthalene        | 9.24  | 162  | 927667   | 50.81  | nq    | 96       |
| 47) 2-Nitroaniline             | 9.35  | 65   | 373050   | 57.80  | nq    | 93       |
| 48) Acenaphthylene             | 9.65  | 152  | 1384217  | 45.97  | nq    | 99       |
| 49) Dimethylphthalate          | 9.52  | 163  | 1254577  | 57.80  | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.59  | 165  | 242020   | 50.81  | nq    | # 68     |
| 51) Acenaphthene               | 9.82  | 154  | 821702   | 46.15  | nq    | 96       |
| 52) 3-Nitroaniline             | 9.76  | 138  | 97025    | 16.96  | nq    | 95       |
| 53) 2,4-Dinitrophenol          | 9.89  | 184  | 136231   | 62.81  | nq    | # 61     |
| 54) Dibenzofuran               | 9.99  | 168  | 1184748  | 53.16  | nq    | 100      |
| 55) 4-Nitrophenol              | 9.99  | 139  | 530872   | 191.01 | nq    | # 8      |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 322747   | 55.16  | nq    | 99       |
| 57) Fluorene                   | 10.33 | 166  | 913063   | 48.35  | nq    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.13 | 232  | 225440   | 53.30  | nq    | 96       |
| 59) Diethylphthalate           | 10.22 | 149  | 1160565  | 55.94  | nq    | 95       |
| 60) 4-Chlorophenyl-phenylether | 10.32 | 204  | 440291   | 52.01  | nq    | 98       |
| 61) 4-Nitroaniline             | 10.38 | 138  | 205847   | 35.17  | nq    | 96       |
| 62) Azobenzene                 | 10.48 | 77   | 1350535  | 57.29  | nq    | 91       |
| 64) 4,6-Dinitro-2-methylphenol | 10.41 | 198  | 109733   | 30.09  | nq    | # 18     |
| 65) n-Nitrosodiphenylamine     | 10.45 | 169  | 848713   | 45.15  | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.81 | 248  | 259986   | 43.68  | nq    | 98       |
| 67) Hexachlorobenzene          | 10.88 | 284  | 249521   | 43.90  | nq    | # 72     |
| 68) Atrazine                   | 10.98 | 200  | 286343   | 52.05  | nq    | 98       |
| 69) Pentachlorophenol          | 11.09 | 266  | 148650   | 75.75  | nq    | 95       |
| 70) Phenanthrene               | 11.29 | 178  | 1349120  | 41.99  | nq    | 99       |
| 71) Anthracene                 | 11.35 | 178  | 1440605  | 44.32  | nq    | 99       |
| 72) Carbazole                  | 11.51 | 167  | 1212719  | 39.72  | nq    | 100      |
| 73) Di-n-butylphthalate        | 11.83 | 149  | 1565493  | 44.32  | nq    | 98       |
| 74) Fluoranthene               | 12.48 | 202  | 1195367  | 38.51  | nq    | 98       |
| 76) Benzidine                  | 12.61 | 184  | 441846   | 36.10  | nq    | 98       |
| 77) Pyrene                     | 12.71 | 202  | 1186062  | 43.82  | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.33 | 149  | 631520   | 55.42  | nq    | 87       |
| 80) Benzo(a)anthracene         | 13.90 | 228  | 927583   | 42.20  | nq    | 100      |
| 81) 3,3'-Dichlorobenzidine     | 13.87 | 252  | 232689   | 30.23  | nq    | # 95     |
| 82) Chrysene                   | 13.93 | 228  | 846019   | 41.60  | nq    | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 13.88 | 149  | 803054   | 50.56  | nq    | # 99     |
| 84) Di-n-octyl phthalate       | 14.49 | 149  | 1250365  | 47.24  | nq    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.69 | 276  | 891943   | 52.40  | nq    | # 93     |
| 87) Benzo(b)fluoranthene       | 14.93 | 252  | 1054212m | 53.18  | nq    |          |
| 88) Benzo(k)fluoranthene       | 14.95 | 252  | 707651m  | 37.02  | nq    |          |
| 89) Benzo(a)pyrene             | 15.26 | 252  | 849930   | 46.91  | nq    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 16.69 | 278  | 764840   | 51.03  | nq    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.09 | 276  | 767149   | 49.87  | nq    | # 89     |

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

