

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF103015\  
 Data File : BF082586.D  
 Acq On : 30 Oct 2015 22:01  
 Operator : UM/IZ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

Manual Integrations  
 APPROVED

Mmdadoda  
 11/2/2015 4:32:04 PM

Quant Time: Oct 30 23:50:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF103015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 31 00:17:39 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.91  | 152  | 195844   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.20  | 136  | 739666   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10      | 9.95  | 164  | 362724   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.44 | 188  | 687263   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.09 | 240  | 454213   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.53 | 264  | 388192   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 1687599 | 129.79 | ng | 0.00 |
| 7) Phenol-d6             | 6.54  | 99  | 2312746 | 133.88 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 7.48  | 82  | 2527984 | 139.56 | ng | 0.01 |
| 41) 2,4,6-Tribromophenol | 10.75 | 330 | 683086  | 172.08 | ng | 0.01 |
| 44) 2-Fluorobiphenyl     | 9.29  | 172 | 3926884 | 153.71 | ng | 0.01 |
| 78) Terphenyl-d14        | 13.04 | 244 | 3716224 | 179.05 | ng | 0.01 |

## Target Compounds

|                                |      |     |          |       |    | Qvalue |
|--------------------------------|------|-----|----------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.53 | 88  | 423473   | 70.45 | ng | 91     |
| 3) Pyridine                    | 3.28 | 79  | 1292293  | 73.32 | ng | 96     |
| 4) n-Nitrosodimethylamine      | 3.23 | 42  | 721792   | 72.75 | ng | 99     |
| 6) Aniline                     | 6.58 | 93  | 1659530  | 69.00 | ng | 97     |
| 8) 2-Chlorophenol              | 6.69 | 128 | 894840   | 63.60 | ng | # 77   |
| 9) Benzaldehyde                | 6.45 | 77  | 761846   | 64.60 | ng | 92     |
| 10) Phenol                     | 6.56 | 94  | 1238610  | 63.28 | ng | 79     |
| 11) bis(2-Chloroethyl)ether    | 6.65 | 93  | 923024   | 63.92 | ng | 96     |
| 12) 1,3-Dichlorobenzene        | 6.85 | 146 | 1200899m | 74.85 | ng |        |
| 13) 1,4-Dichlorobenzene        | 6.92 | 146 | 1075647  | 67.60 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 7.08 | 146 | 926531m  | 62.74 | ng |        |
| 15) Benzyl Alcohol             | 7.06 | 79  | 1226885  | 76.16 | ng | 99     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.20 | 45  | 1625729  | 70.84 | ng | 95     |
| 17) 2-Methylphenol             | 7.16 | 107 | 861911   | 72.05 | ng | 96     |
| 18) Hexachloroethane           | 7.42 | 117 | 422382   | 68.02 | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.34 | 70  | 926117   | 70.72 | ng | 93     |
| 20) 3+4-Methylphenols          | 7.33 | 107 | 1106740  | 71.19 | ng | 94     |
| 22) Acetophenone               | 7.32 | 105 | 1554521  | 71.39 | ng | # 80   |
| 24) Nitrobenzene               | 7.50 | 77  | 1368015  | 74.72 | ng | 98     |
| 25) Isophorone                 | 7.74 | 82  | 2339767  | 70.21 | ng | 99     |
| 26) 2-Nitrophenol              | 7.81 | 139 | 523029   | 78.20 | ng | 88     |
| 27) 2,4-Dimethylphenol         | 7.86 | 122 | 1005642  | 77.03 | ng | 97     |
| 28) bis(2-Chloroethoxy)methane | 7.95 | 93  | 1122432  | 61.58 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 8.05 | 162 | 777713   | 65.35 | ng | 86     |
| 30) 1,2,4-Trichlorobenzene     | 8.14 | 180 | 963649   | 72.97 | ng | 95     |
| 31) Naphthalene                | 8.22 | 128 | 2855880  | 71.35 | ng | 97     |
| 32) Benzoic acid               | 8.01 | 122 | 726291   | 76.68 | ng | 97     |
| 33) 4-Chloroaniline            | 8.27 | 127 | 1278285  | 74.81 | ng | 92     |
| 34) Hexachlorobutadiene        | 8.35 | 225 | 637548   | 75.90 | ng | 98     |
| 35) Caprolactam                | 8.67 | 113 | 250967   | 68.74 | ng | 100    |
| 36) 4-Chloro-3-methylphenol    | 8.75 | 107 | 924017   | 65.94 | ng | 97     |
| 37) 2-Methylnaphthalene        | 8.91 | 142 | 1618248  | 62.39 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.08 | 216 | 839645   | 69.37 | ng | # 96   |
| 40) Hexachlorocyclopentadiene  | 9.07 | 237 | 585730   | 76.98 | ng | 99     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.18  | 196  | 654336   | 74.87 | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.23  | 196  | 668551   | 76.77 | ng    | 92       |
| 45) 1,1'-Biphenyl              | 9.38  | 154  | 1925015  | 62.83 | ng    | 97       |
| 46) 2-Chloronaphthalene        | 9.40  | 162  | 1615205  | 67.51 | ng    | 93       |
| 47) 2-Nitroaniline             | 9.49  | 65   | 707807   | 76.11 | ng    | 94       |
| 48) Acenaphthylene             | 9.82  | 152  | 2892649  | 75.59 | ng    | 99       |
| 49) Dimethylphthalate          | 9.69  | 163  | 1844153  | 62.25 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.74  | 165  | 524300   | 85.39 | ng    | # 81     |
| 51) Acenaphthene               | 10.00 | 154  | 1927868  | 79.36 | ng    | 98       |
| 52) 3-Nitroaniline             | 9.90  | 138  | 511543   | 74.88 | ng    | 99       |
| 53) 2,4-Dinitrophenol          | 10.01 | 184  | 247332   | 75.98 | ng    | # 36     |
| 54) Dibenzofuran               | 10.17 | 168  | 2569235  | 77.94 | ng    | 95       |
| 55) 4-Nitrophenol              | 10.06 | 139  | 440357   | 85.68 | ng    | # 82     |
| 56) 2,4-Dinitrotoluene         | 10.14 | 165  | 660780   | 79.58 | ng    | 97       |
| 57) Fluorene                   | 10.51 | 166  | 2084258  | 78.39 | ng    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.28 | 232  | 582877   | 79.20 | ng    | 92       |
| 59) Diethylphthalate           | 10.38 | 149  | 2059197  | 68.28 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 10.50 | 204  | 927672   | 71.78 | ng    | # 86     |
| 61) 4-Nitroaniline             | 10.53 | 138  | 513468   | 78.77 | ng    | 97       |
| 62) Azobenzene                 | 10.66 | 77   | 2448090  | 71.98 | ng    | 89       |
| 64) 4,6-Dinitro-2-methylphenol | 10.56 | 198  | 373688   | 90.15 | ng    | 78       |
| 65) n-Nitrosodiphenylamine     | 10.62 | 169  | 1791228  | 75.82 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.99 | 248  | 615335   | 79.01 | ng    | # 82     |
| 67) Hexachlorobenzene          | 11.06 | 284  | 689986   | 79.90 | ng    | # 72     |
| 68) Atrazine                   | 11.15 | 200  | 597181   | 77.26 | ng    | 98       |
| 69) Pentachlorophenol          | 11.24 | 266  | 435708   | 76.51 | ng    | 98       |
| 70) Phenanthrene               | 11.47 | 178  | 2964108  | 76.47 | ng    | 99       |
| 71) Anthracene                 | 11.52 | 178  | 2449995  | 62.77 | ng    | 98       |
| 72) Carbazole                  | 11.66 | 167  | 2245678  | 66.06 | ng    | 98       |
| 73) Di-n-butylphthalate        | 12.01 | 149  | 2816973  | 65.09 | ng    | 98       |
| 74) Fluoranthene               | 12.66 | 202  | 2888473  | 72.89 | ng    | 94       |
| 76) Benzidine                  | 12.77 | 184  | 1642065  | 80.16 | ng    | # 91     |
| 77) Pyrene                     | 12.89 | 202  | 2990696  | 88.92 | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.51 | 149  | 1211978  | 82.27 | ng    | 95       |
| 80) Benzo(a)anthracene         | 14.08 | 228  | 2346490  | 81.33 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.04 | 252  | 809551   | 81.43 | ng    | # 94     |
| 82) Chrysene                   | 14.11 | 228  | 2063193  | 78.89 | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 14.08 | 149  | 1721657  | 90.15 | ng    | 98       |
| 84) Di-n-octyl phthalate       | 14.69 | 149  | 2580259  | 86.62 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.98 | 276  | 1981191  | 91.80 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 15.12 | 252  | 1690376  | 63.15 | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 15.15 | 252  | 1758017m | 86.21 | ng    |          |
| 89) Benzo(a)pyrene             | 15.48 | 252  | 1618157  | 76.76 | ng    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 17.00 | 278  | 1645722  | 83.67 | ng    | # 97     |
| 91) Benzo(g,h,i)perylene       | 17.41 | 276  | 1598849  | 83.88 | ng    | 99       |

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

