

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102116\  
 Data File : BF090711.D  
 Acq On : 21 Oct 2016 14:09  
 Operator : UM/SJ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 Client Sampled :  
 SSTDICV040

Manual Integrations  
 APPROVED

sohil  
 10/24/2016 3:50:51 PM

Quant Time: Oct 24 11:21:09 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 21 17:36:31 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 230024   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.14  | 136  | 970550   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 503815   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.38 | 188  | 737215   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.02 | 240  | 547588   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.46 | 264  | 343906   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.46  | 112 | 1169449 | 81.99 | ng | 0.00  |
| 7) Phenol-d6             | 6.50  | 99  | 1535495 | 79.48 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 7.42  | 82  | 1474755 | 83.34 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol | 10.69 | 330 | 393184  | 98.60 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 9.22  | 172 | 2471581 | 76.16 | ng | -0.01 |
| 78) Terphenyl-d14        | 12.97 | 244 | 2009122 | 84.09 | ng | 0.00  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 2.51 | 88   | 314597   | 38.12 | ng    | # 83   |
| 3) Pyridine                    | 3.23 | 79   | 807974   | 41.78 | ng    | # 75   |
| 4) n-Nitrosodimethylamine      | 3.18 | 42   | 253313   | 38.28 | ng    | # 77   |
| 6) Aniline                     | 6.52 | 93   | 945535   | 43.17 | ng    | # 70   |
| 8) 2-Chlorophenol              | 6.65 | 128  | 720917   | 42.11 | ng    | 92     |
| 9) Benzaldehyde                | 6.41 | 77   | 425491   | 40.28 | ng    | # 75   |
| 10) Phenol                     | 6.51 | 94   | 845652   | 38.94 | ng    | # 52   |
| 11) bis(2-Chloroethyl)ether    | 6.60 | 93   | 775652   | 42.51 | ng    | 93     |
| 12) 1,3-Dichlorobenzene        | 6.79 | 146  | 687665   | 39.98 | ng    | # 88   |
| 13) 1,4-Dichlorobenzene        | 6.87 | 146  | 748743   | 41.04 | ng    | # 90   |
| 14) 1,2-Dichlorobenzene        | 7.03 | 146  | 713178   | 39.93 | ng    | 96     |
| 15) Benzyl Alcohol             | 7.00 | 79   | 550801   | 41.97 | ng    | # 73   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.14 | 45   | 1067790  | 39.07 | ng    | 76     |
| 17) 2-Methylphenol             | 7.11 | 107  | 551016   | 42.71 | ng    | # 81   |
| 18) Hexachloroethane           | 7.37 | 117  | 289889   | 39.15 | ng    | 92     |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70   | 530826   | 36.90 | ng    | # 73   |
| 20) 3+4-Methylphenols          | 7.27 | 107  | 636099   | 41.60 | ng    | # 60   |
| 22) Acetophenone               | 7.27 | 105  | 905859   | 41.88 | ng    | # 81   |
| 24) Nitrobenzene               | 7.45 | 77   | 849502   | 44.28 | ng    | # 68   |
| 25) Isophorone                 | 7.69 | 82   | 1360627  | 40.62 | ng    | # 87   |
| 26) 2-Nitrophenol              | 7.77 | 139  | 350521   | 44.73 | ng    | # 80   |
| 27) 2,4-Dimethylphenol         | 7.80 | 122  | 569824   | 41.01 | ng    | # 80   |
| 28) bis(2-Chloroethoxy)methane | 7.90 | 93   | 782499   | 42.70 | ng    | # 95   |
| 29) 2,4-Dichlorophenol         | 8.01 | 162  | 520880   | 45.67 | ng    | 94     |
| 30) 1,2,4-Trichlorobenzene     | 8.09 | 180  | 578634   | 43.11 | ng    | 96     |
| 31) Naphthalene                | 8.17 | 128  | 1873936  | 39.47 | ng    | 96     |
| 32) Benzoic acid               | 7.95 | 122  | 414780   | 43.23 | ng    | # 68   |
| 33) 4-Chloroaniline            | 8.22 | 127  | 786857   | 44.69 | ng    | # 94   |
| 34) Hexachlorobutadiene        | 8.29 | 225  | 316610   | 41.96 | ng    | 98     |
| 35) Caprolactam                | 8.60 | 113  | 158605   | 48.69 | ng    | 97     |
| 36) 4-Chloro-3-methylphenol    | 8.70 | 107  | 597622   | 45.05 | ng    | # 81   |
| 37) 2-Methylnaphthalene        | 8.86 | 142  | 1207458  | 43.52 | ng    | # 92   |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.02 | 216  | 528474   | 38.85 | ng    | 98     |
| 40) Hexachlorocyclopentadiene  | 9.01 | 237  | 258847   | 40.53 | ng    | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.14  | 196  | 363354   | 43.07 | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.18  | 196  | 339737   | 39.68 | ng    | 97       |
| 45) 1,1'-Biphenyl              | 9.32  | 154  | 1467715  | 37.10 | ng    | 90       |
| 46) 2-Chloronaphthalene        | 9.34  | 162  | 1132557  | 38.51 | ng #  | 87       |
| 47) 2-Nitroaniline             | 9.45  | 65   | 432742   | 44.33 | ng #  | 75       |
| 48) Acenaphthylene             | 9.77  | 152  | 1862873  | 41.52 | ng    | 96       |
| 49) Dimethylphthalate          | 9.63  | 163  | 1356782  | 42.86 | ng #  | 97       |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 273188   | 40.13 | ng #  | 48       |
| 51) Acenaphthene               | 9.94  | 154  | 1270106  | 42.64 | ng    | 88       |
| 52) 3-Nitroaniline             | 9.86  | 138  | 318850   | 40.74 | ng #  | 59       |
| 53) 2,4-Dinitrophenol          | 9.96  | 184  | 144891   | 47.25 | ng #  | 47       |
| 54) Dibenzofuran               | 10.11 | 168  | 1577405  | 43.71 | ng #  | 86       |
| 55) 4-Nitrophenol              | 10.02 | 139  | 189203   | 42.37 | ng #  | 23       |
| 56) 2,4-Dinitrotoluene         | 10.09 | 165  | 345472   | 41.52 | ng #  | 49       |
| 57) Fluorene                   | 10.45 | 166  | 1310812  | 43.83 | ng    | 92       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.22 | 232  | 301699   | 44.90 | ng #  | 88       |
| 59) Diethylphthalate           | 10.33 | 149  | 1403938  | 42.76 | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.44 | 204  | 594272   | 43.48 | ng #  | 86       |
| 61) 4-Nitroaniline             | 10.47 | 138  | 342005   | 43.15 | ng #  | 50       |
| 62) Azobenzene                 | 10.60 | 77   | 1605206  | 41.75 | ng    | 86       |
| 64) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 188859   | 40.82 | ng    | 84       |
| 65) n-Nitrosodiphenylamine     | 10.57 | 169  | 1031349  | 43.67 | ng    | 90       |
| 66) 4-Bromophenyl-phenylether  | 10.93 | 248  | 343822   | 48.11 | ng    | 97       |
| 67) Hexachlorobenzene          | 11.00 | 284  | 402615   | 47.74 | ng #  | 81       |
| 68) Atrazine                   | 11.09 | 200  | 322106   | 49.41 | ng    | 85       |
| 69) Pentachlorophenol          | 11.19 | 266  | 188064   | 43.17 | ng    | 97       |
| 70) Phenanthrene               | 11.41 | 178  | 1729975m | 46.04 | ng    |          |
| 71) Anthracene                 | 11.46 | 178  | 1684299  | 40.42 | ng    | 95       |
| 72) Carbazole                  | 11.62 | 167  | 1612945  | 46.29 | ng #  | 93       |
| 73) Di-n-butylphthalate        | 11.95 | 149  | 2089849  | 46.24 | ng #  | 96       |
| 74) Fluoranthene               | 12.59 | 202  | 1581686  | 43.51 | ng    | 98       |
| 76) Benzidine                  | 12.72 | 184  | 562186   | 46.24 | ng    | 94       |
| 77) Pyrene                     | 12.83 | 202  | 1645565  | 43.03 | ng    | 96       |
| 79) Butylbenzylphthalate       | 13.45 | 149  | 867933   | 49.37 | ng    | 93       |
| 80) Benzo(a)anthracene         | 14.01 | 228  | 1288807  | 43.01 | ng    | 95       |
| 81) 3,3'-Dichlorobenzidine     | 13.97 | 252  | 430768   | 41.48 | ng    | 99       |
| 82) Chrysene                   | 14.05 | 228  | 1421381  | 48.60 | ng    | 94       |
| 83) Bis(2-ethylhexyl)phthalate | 14.01 | 149  | 1150249  | 45.73 | ng #  | 97       |
| 84) Di-n-octyl phthalate       | 14.61 | 149  | 1578156  | 41.34 | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.86 | 276  | 809741   | 31.74 | ng #  | 94       |
| 87) Benzo(b)fluoranthene       | 15.05 | 252  | 958293   | 45.32 | ng #  | 88       |
| 88) Benzo(k)fluoranthene       | 15.07 | 252  | 906953m  | 42.68 | ng    |          |
| 89) Benzo(a)pyrene             | 15.40 | 252  | 837339   | 42.20 | ng #  | 87       |
| 90) Dibenzo(a,h)anthracene     | 16.88 | 278  | 708613   | 37.20 | ng #  | 87       |
| 91) Benzo(g,h,i)perylene       | 17.29 | 276  | 654249   | 35.41 | ng #  | 84       |

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

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