

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101116\  
 Data File : BF090524.D  
 Acq On : 12 Oct 2016 1:52  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 12 05:42:19 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 11 16:14:43 2016  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                     | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------------|--------|--------|------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0  | 104   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 38.040 | 4.9  | 100   | 0.01     |
| 3    | Pyridine                     | 40.000 | 37.167 | 7.1  | 93    | 0.03     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 36.385 | 9.0  | 94    | 0.03     |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.906 | -2.4 | 102   | 0.01     |
| 6    | Aniline                      | 40.000 | 38.608 | 3.5  | 103   | 0.01     |
| 7 S  | Phenol-d6                    | 80.000 | 79.148 | 1.1  | 100   | 0.01     |
| 8    | 2-Chlorophenol               | 40.000 | 40.393 | -1.0 | 106   | 0.01     |
| 9    | Benzaldehyde                 | 40.000 | 37.917 | 5.2  | 98    | 0.00     |
| 10 C | Phenol                       | 40.000 | 42.567 | -6.4 | 101   | 0.01     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.989 | 0.0  | 103   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.337 | -3.3 | 104   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.744 | 3.1  | 108   | 0.01     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.082 | -0.2 | 98    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 41.576 | -3.9 | 114   | 0.01     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 36.509 | 8.7  | 98    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 42.053 | -5.1 | 116   | 0.01     |
| 18   | Hexachloroethane             | 40.000 | 38.529 | 3.7  | 100   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.089 | 2.3  | 114   | 0.01     |
| 20   | 3+4-Methylphenols            | 40.000 | 37.641 | 5.9  | 96    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 107   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 37.691 | 5.8  | 98    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.601 | 1.7  | 110   | 0.01     |
| 24   | Nitrobenzene                 | 40.000 | 33.202 | 17.0 | 84    | 0.00     |
| 25   | Isophorone                   | 40.000 | 37.607 | 6.0  | 104   | 0.01     |
| 26 C | 2-Nitrophenol                | 40.000 | 42.251 | -5.6 | 104   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 42.083 | -5.2 | 112   | 0.01     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.391 | 1.5  | 117   | 0.01     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.665 | 0.8  | 101   | 0.01     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.450 | -1.1 | 113   | 0.01     |
| 31   | Naphthalene                  | 40.000 | 39.328 | 1.7  | 107   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 38.992 | 2.5  | 97    | 0.01     |
| 33   | 4-Chloroaniline              | 40.000 | 40.041 | -0.1 | 108   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.106 | 2.2  | 105   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 37.266 | 6.8  | 100   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.142 | 4.6  | 98    | 0.01     |
| 37   | 2-Methylnaphthalene          | 40.000 | 34.309 | 14.2 | 102   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 114   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.002 | -5.0 | 115   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 39.160 | 2.1  | 102   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 82.859 | -3.6 | 107   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.013 | -2.5 | 125   | 0.01     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 37.335 | 6.7  | 99    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 69.694 | 12.9 | 96    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 39.144 | 2.1   | 102   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 36.888 | 7.8   | 98    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 35.325 | 11.7  | 92    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 39.470 | 1.3   | 117   | 0.01     |
| 49   | Dimethylphthalate          | 40.000 | 38.146 | 4.6   | 111   | 0.01     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 42.005 | -5.0  | 127   | 0.01     |
| 51 C | Acenaphthene               | 40.000 | 38.944 | 2.6   | 112   | 0.01     |
| 52   | 3-Nitroaniline             | 40.000 | 42.282 | -5.7  | 120   | 0.01     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 23.596 | 41.0# | 59    | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 38.958 | 2.6   | 113   | 0.01     |
| 55 P | 4-Nitrophenol              | 40.000 | 36.834 | 7.9   | 90    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 43.567 | -8.9  | 127   | 0.01     |
| 57   | Fluorene                   | 40.000 | 39.847 | 0.4   | 113   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.230 | 1.9   | 107   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 38.966 | 2.6   | 113   | 0.01     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 41.288 | -3.2  | 107   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 38.569 | 3.6   | 98    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 37.932 | 5.2   | 100   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 113   | 0.01     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 32.907 | 17.7  | 98    | 0.01     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.439 | 6.4   | 108   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 42.365 | -5.9  | 108   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 42.765 | -6.9  | 118   | 0.00     |
| 68   | Atrazine                   | 40.000 | 43.671 | -9.2  | 131   | 0.01     |
| 69 C | Pentachlorophenol          | 40.000 | 34.219 | 14.5  | 100   | 0.01     |
| 70   | Phenanthrene               | 40.000 | 37.556 | 6.1   | 98    | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.489 | 3.8   | 117   | 0.01     |
| 72   | Carbazole                  | 40.000 | 34.076 | 14.8  | 91    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.217 | 2.0   | 105   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 37.324 | 6.7   | 96    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 92    | 0.00     |
| 76   | Benzidine                  | 40.000 | 34.198 | 14.5  | 84    | 0.01     |
| 77   | Pyrene                     | 40.000 | 40.850 | -2.1  | 95    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 93.811 | -17.3 | 104   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 43.590 | -9.0  | 104   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 40.172 | -0.4  | 98    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 39.255 | 1.9   | 84    | 0.00     |
| 82   | Chrysene                   | 40.000 | 44.000 | -10.0 | 108   | 0.01     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 43.750 | -9.4  | 106   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 43.147 | -7.9  | 100   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 33.649 | 15.9  | 80    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 82    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 44.859 | -12.1 | 84    | 0.01     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 39.979 | 0.1  | 90    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.443 | -3.6 | 82    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.132 | -0.3 | 79    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 38.719 | 3.2  | 78    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0