

Data Path : Z:\HPCHEM1\BNA F\Data\BF051016\  
 Data File : BF086853.D  
 Acq On : 10 May 2016 11:15  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 10 13:29:39 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 16:04:56 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   | 108   | -0.01    |
| 2    | 1,4-Dioxane                  | 40.000 | 42.305 | -5.8  | 114   | -0.01    |
| 3    | Pyridine                     | 40.000 | 43.118 | -7.8  | 115   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 40.975 | -2.4  | 105   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.813 | -2.3  | 109   | -0.01    |
| 6    | Aniline                      | 40.000 | 38.993 | 2.5   | 106   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 75.018 | 6.2   | 101   | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 39.885 | 0.3   | 107   | -0.01    |
| 9    | Benzaldehyde                 | 40.000 | 35.687 | 10.8  | 100   | 0.00     |
| 10 C | Phenol                       | 40.000 | 36.295 | 9.3   | 95    | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 37.421 | 6.4   | 95    | -0.01    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.572 | 1.1   | 107   | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.536 | 1.2   | 113   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 35.468 | 11.3  | 92    | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 42.100 | -5.3  | 112   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 39.620 | 1.0   | 113   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.136 | 4.7   | 100   | -0.01    |
| 18   | Hexachloroethane             | 40.000 | 40.027 | -0.1  | 110   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 38.274 | 4.3   | 96    | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 38.440 | 3.9   | 100   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 111   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 39.868 | 0.3   | 112   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 72.718 | 9.1   | 101   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 41.369 | -3.4  | 114   | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.189 | 2.0   | 114   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 37.937 | 5.2   | 100   | -0.01    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.506 | -1.3  | 122   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.631 | 0.9   | 106   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.149 | -0.4  | 112   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.592 | 6.0   | 105   | -0.01    |
| 31   | Naphthalene                  | 40.000 | 35.525 | 11.2  | 100   | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 45.378 | -13.4 | 127   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.363 | 1.6   | 108   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 36.790 | 8.0   | 102   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 35.317 | 11.7  | 104   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 35.544 | 11.1  | 99    | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.234 | -0.6  | 109   | -0.01    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 107   | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 38.432 | 3.9   | 106   | -0.01    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 45.170 | -12.9 | 119   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 81.555 | -1.9  | 113   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.770 | -4.4  | 117   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 40.321 | -0.8  | 108   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 85.171 | -6.5  | 128   | 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 | 36.981 | 7.5   | 96    | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 37.839 | 5.4   | 98    | -0.01    |
| 47   | 2-Nitroaniline             | 40.000 | 46.098 | -15.2 | 131   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.036 | 4.9   | 98    | -0.01    |
| 49   | Dimethylphthalate          | 40.000 | 41.013 | -2.5  | 118   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 38.704 | 3.2   | 110   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 38.168 | 4.6   | 96    | -0.01    |
| 52   | 3-Nitroaniline             | 40.000 | 39.945 | 0.1   | 110   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 45.639 | -14.1 | 135   | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 37.928 | 5.2   | 96    | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 41.969 | -4.9  | 112   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 34.847 | 12.9  | 93    | -0.01    |
| 57   | Fluorene                   | 40.000 | 34.777 | 13.1  | 90    | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.728 | 0.7   | 101   | -0.01    |
| 59   | Diethylphthalate           | 40.000 | 35.327 | 11.7  | 94    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 46.090 | -15.2 | 122   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 41.667 | -4.2  | 105   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 40.258 | -0.6  | 111   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 113   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 43.346 | -8.4  | 127   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 40.555 | -1.4  | 121   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 36.622 | 8.4   | 99    | -0.01    |
| 67   | Hexachlorobenzene          | 40.000 | 40.271 | -0.7  | 126   | 0.00     |
| 68   | Atrazine                   | 40.000 | 32.213 | 19.5  | 84    | -0.01    |
| 69 C | Pentachlorophenol          | 40.000 | 43.204 | -8.0  | 112   | -0.01    |
| 70   | Phenanthrene               | 40.000 | 39.394 | 1.5   | 122   | 0.00     |
| 71   | Anthracene                 | 40.000 | 34.039 | 14.9  | 93    | -0.01    |
| 72   | Carbazole                  | 40.000 | 37.105 | 7.2   | 109   | -0.01    |
| 73   | Di-n-butylphthalate        | 40.000 | 39.736 | 0.7   | 112   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 33.783 | 15.5  | 94    | -0.01    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 119   | 0.00     |
| 76   | Benzidine                  | 40.000 | 41.435 | -3.6  | 113   | 0.00     |
| 77   | Pyrene                     | 40.000 | 35.717 | 10.7  | 111   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 64.785 | 19.0  | 97    | -0.01    |
| 79   | Butylbenzylphthalate       | 40.000 | 40.770 | -1.9  | 126   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 36.305 | 9.2   | 112   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 37.523 | 6.2   | 106   | -0.01    |
| 82   | Chrysene                   | 40.000 | 36.636 | 8.4   | 122   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.125 | -0.3  | 121   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 40.326 | -0.8  | 122   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 35.083 | 12.3  | 104   | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 124   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 42.701 | -6.8  | 144   | 0.00     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 34.209 | 14.5 | 103   | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 36.732 | 8.2  | 116   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 35.041 | 12.4 | 104   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 34.841 | 12.9 | 104   | -0.01    |

(#) = Out of Range

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