

Data Path : Z:\HPCHEM1\BNA F\Data\BF030915\  
 Data File : BF077638.D  
 Acq On : 9 Mar 2015 14:31  
 Operator : TP/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 10 00:46:06 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 10 00:35:08 2015  
 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   | -0.03    |
| 2    | 1,4-Dioxane                  | 40.000 | 40.034 | -0.1   | 110   | -0.05    |
| 3    | Pyridine                     | 40.000 | 38.410 | 4.0    | 97    | -0.06    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 42.431 | -6.1   | 118   | -0.06    |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.877 | -2.3   | 109   | -0.03    |
| 6    | Aniline                      | 40.000 | 40.600 | -1.5   | 106   | -0.03    |
| 7 S  | Phenol-d6                    | 80.000 | 80.890 | -1.1   | 106   | -0.03    |
| 8    | 2-Chlorophenol               | 40.000 | 39.221 | 1.9    | 105   | -0.03    |
| 9    | Benzaldehyde                 | 40.000 | 37.648 | 5.9    | 103   | -0.03    |
| 10 C | Phenol                       | 40.000 | 38.054 | 4.9    | 96    | -0.03    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.812 | -4.5   | 113   | -0.03    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.049 | 2.4    | 103   | -0.03    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.561 | 1.1    | 104   | -0.03    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.758 | 3.1    | 101   | -0.03    |
| 15   | Benzyl Alcohol               | 40.000 | 40.201 | -0.5   | 106   | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.693 | 5.8    | 98    | -0.03    |
| 17   | 2-Methylphenol               | 40.000 | 41.092 | -2.7   | 103   | -0.03    |
| 18   | Hexachloroethane             | 40.000 | 40.625 | -1.6   | 107   | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 37.974 | 5.1    | 97    | -0.03    |
| 20   | 3+4-Methylphenols            | 40.000 | 40.367 | -0.9   | 104   | -0.03    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 102   | -0.03    |
| 22   | Acetophenone                 | 40.000 | 40.491 | -1.2   | 106   | -0.03    |
| 23 S | Nitrobenzene-d5              | 80.000 | 86.567 | -8.2   | 107   | -0.03    |
| 24   | Nitrobenzene                 | 40.000 | 41.815 | -4.5   | 105   | -0.03    |
| 25   | Isophorone                   | 40.000 | 40.242 | -0.6   | 97    | -0.03    |
| 26 C | 2-Nitrophenol                | 40.000 | 52.596 | -31.5# | 121   | -0.03    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.051 | -0.1   | 100   | -0.03    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 36.908 | 7.7    | 92    | -0.03    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.003 | -0.0   | 99    | -0.03    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.755 | 0.6    | 99    | -0.03    |
| 31   | Naphthalene                  | 40.000 | 40.555 | -1.4   | 104   | -0.03    |
| 32   | Benzoic acid                 | 40.000 | 49.852 | -24.6  | 117   | -0.02    |
| 33   | 4-Chloroaniline              | 40.000 | 40.036 | -0.1   | 98    | -0.03    |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.196 | 4.5    | 96    | -0.03    |
| 35   | Caprolactam                  | 40.000 | 41.979 | -4.9   | 102   | -0.03    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.828 | -4.6   | 100   | -0.03    |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.282 | 6.8    | 91    | -0.03    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 90    | -0.03    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 40.152 | -0.4   | 88    | -0.03    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 38.769 | 3.1    | 79    | -0.03    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 80.010 | -0.0   | 84    | -0.03    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 44.151 | -10.4  | 92    | -0.03    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 43.932 | -9.8   | 93    | -0.03    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 81.323 | -1.7   | 91    | -0.03    |

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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) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 40.496 | -1.2   | 88    | -0.03    |
| 46   | 2-Chloronaphthalene        | 40.000 | 43.020 | -7.6   | 97    | -0.03    |
| 47   | 2-Nitroaniline             | 40.000 | 47.922 | -19.8  | 103   | -0.03    |
| 48   | Acenaphthylene             | 40.000 | 43.176 | -7.9   | 96    | -0.03    |
| 49   | Dimethylphthalate          | 40.000 | 38.556 | 3.6    | 86    | -0.03    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 44.354 | -10.9  | 89    | -0.03    |
| 51 C | Acenaphthene               | 40.000 | 40.930 | -2.3   | 89    | -0.03    |
| 52   | 3-Nitroaniline             | 40.000 | 49.514 | -23.8  | 103   | -0.03    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 53.724 | -34.3# | 115   | -0.03    |
| 54   | Dibenzofuran               | 40.000 | 40.813 | -2.0   | 90    | -0.03    |
| 55 P | 4-Nitrophenol              | 40.000 | 47.732 | -19.3  | 97    | -0.03    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 45.402 | -13.5  | 90    | -0.03    |
| 57   | Fluorene                   | 40.000 | 41.235 | -3.1   | 90    | -0.04    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 42.443 | -6.1   | 88    | -0.03    |
| 59   | Diethylphthalate           | 40.000 | 41.011 | -2.5   | 90    | -0.03    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.603 | 3.5    | 84    | -0.03    |
| 61   | 4-Nitroaniline             | 40.000 | 52.098 | -30.2# | 111   | -0.03    |
| 62   | Azobenzene                 | 40.000 | 41.710 | -4.3   | 89    | -0.03    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 90    | -0.04    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 47.397 | -18.5  | 107   | -0.03    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 41.254 | -3.1   | 90    | -0.03    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 36.725 | 8.2    | 83    | -0.04    |
| 67   | Hexachlorobenzene          | 40.000 | 36.992 | 7.5    | 85    | -0.04    |
| 68   | Atrazine                   | 40.000 | 38.028 | 4.9    | 91    | -0.04    |
| 69 C | Pentachlorophenol          | 40.000 | 40.717 | -1.8   | 86    | -0.04    |
| 70   | Phenanthrene               | 40.000 | 40.154 | -0.4   | 91    | -0.04    |
| 71   | Anthracene                 | 40.000 | 40.476 | -1.2   | 93    | -0.04    |
| 72   | Carbazole                  | 40.000 | 42.516 | -6.3   | 91    | -0.04    |
| 73   | Di-n-butylphthalate        | 40.000 | 36.863 | 7.8    | 78    | -0.04    |
| 74 C | Fluoranthene               | 40.000 | 41.519 | -3.8   | 92    | -0.04    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 90    | -0.05    |
| 76   | Benzidine                  | 40.000 | 36.141 | 9.6    | 88    | -0.04    |
| 77   | Pyrene                     | 40.000 | 39.488 | 1.3    | 90    | -0.04    |
| 78 S | Terphenyl-d14              | 80.000 | 71.041 | 11.2   | 80    | -0.04    |
| 79   | Butylbenzylphthalate       | 40.000 | 40.361 | -0.9   | 87    | -0.04    |
| 80   | Benzo(a)anthracene         | 40.000 | 40.958 | -2.4   | 94    | -0.05    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.255 | -3.1   | 91    | -0.05    |
| 82   | Chrysene                   | 40.000 | 38.980 | 2.6    | 91    | -0.05    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 36.545 | 8.6    | 81    | -0.05    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 38.695 | 3.3    | 83    | -0.08    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 45.535 | -13.8  | 103   | -0.16    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 101   | -0.13    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.048 | -2.6   | 98    | -0.10    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.645 | 5.9  | 102   | -0.11    |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.119 | 2.2  | 96    | -0.13    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.651 | -4.1 | 103   | -0.16    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 42.011 | -5.0 | 104   | -0.17    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 1