

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051116\  
 Data File : BF086919.D  
 Acq On : 12 May 2016 7:53  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 12 15:28:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 12 15:26:18 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   | 150   | -0.05    |
| 2    | 1,4-Dioxane                 | 40.000 | 40.267 | -0.7  | 150   | -0.10    |
| 3    | Pyridine                    | 40.000 | 41.339 | -3.3  | 153   | -0.13    |
| 4    | n-Nitrosodimethylamine      | 40.000 | 42.149 | -5.4  | 150   | -0.11    |
| 5 S  | 2-Fluorophenol              | 80.000 | 77.220 | 3.5   | 142   | -0.05    |
| 6    | Aniline                     | 40.000 | 35.253 | 11.9  | 132   | -0.05    |
| 7 S  | Phenol-d6                   | 80.000 | 67.560 | 15.5  | 126   | -0.04    |
| 8    | 2-Chlorophenol              | 40.000 | 35.951 | 10.1  | 134   | -0.05    |
| 9    | Benzaldehyde                | 40.000 | 37.599 | 6.0   | 145   | -0.05    |
| 10 C | Phenol                      | 40.000 | 36.046 | 9.9   | 131   | -0.04    |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 37.037 | 7.4   | 130   | -0.05    |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 35.831 | 10.4  | 135   | -0.07    |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 34.577 | 13.6  | 136   | -0.05    |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 34.958 | 12.6  | 126   | -0.05    |
| 15   | Benzyl Alcohol              | 40.000 | 34.498 | 13.8  | 127   | -0.05    |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 35.553 | 11.1  | 140   | -0.05    |
| 17   | 2-Methylphenol              | 40.000 | 32.823 | 17.9  | 118   | -0.05    |
| 18   | Hexachloroethane            | 40.000 | 30.629 | 23.4  | 116   | -0.07    |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 37.789 | 5.5   | 131   | -0.04    |
| 20   | 3+4-Methylphenols           | 40.000 | 30.498 | 23.8  | 109   | -0.05    |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 129   | -0.05    |
| 22   | Acetophenone                | 40.000 | 41.581 | -4.0  | 136   | -0.05    |
| 23 S | Nitrobenzene-d5             | 80.000 | 79.672 | 0.4   | 129   | -0.04    |
| 24   | Nitrobenzene                | 40.000 | 35.551 | 11.1  | 114   | -0.05    |
| 25   | Isophorone                  | 40.000 | 37.825 | 5.4   | 129   | -0.05    |
| 26 C | 2-Nitrophenol               | 40.000 | 40.173 | -0.4  | 123   | -0.05    |
| 27   | 2,4-Dimethylphenol          | 40.000 | 37.563 | 6.1   | 131   | -0.04    |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 36.739 | 8.2   | 115   | -0.05    |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 34.927 | 12.7  | 114   | -0.05    |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 40.495 | -1.2  | 131   | -0.05    |
| 31   | Naphthalene                 | 40.000 | 37.981 | 5.0   | 125   | -0.05    |
| 32   | Benzoic acid                | 40.000 | 28.362 | 29.1# | 93    | -0.04    |
| 33   | 4-Chloroaniline             | 40.000 | 34.544 | 13.6  | 110   | -0.05    |
| 34 C | Hexachlorobutadiene         | 40.000 | 41.313 | -3.3  | 133   | -0.05    |
| 35   | Caprolactam                 | 40.000 | 31.139 | 22.2  | 107   | -0.04    |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 29.105 | 27.2# | 94    | -0.05    |
| 37   | 2-Methylnaphthalene         | 40.000 | 37.486 | 6.3   | 118   | -0.05    |
| 38 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 102   | -0.05    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 43.829 | -9.6  | 116   | -0.05    |
| 40 P | Hexachlorocyclopentadiene   | 40.000 | 7.383  | 81.5# | 19    | -0.05    |
| 41 S | 2,4,6-Tribromophenol        | 80.000 | 72.692 | 9.1   | 96    | -0.05    |
| 42 C | 2,4,6-Trichlorophenol       | 40.000 | 36.467 | 8.8   | 98    | -0.05    |
| 43   | 2,4,5-Trichlorophenol       | 40.000 | 35.339 | 11.7  | 91    | -0.04    |
| 44 S | 2-Fluorobiphenyl            | 80.000 | 77.607 | 3.0   | 112   | -0.05    |

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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 | 44.095 | -10.2 | 110   | -0.05    |
| 46   | 2-Chloronaphthalene        | 40.000 | 42.839 | -7.1  | 106   | -0.05    |
| 47   | 2-Nitroaniline             | 40.000 | 35.812 | 10.5  | 97    | -0.05    |
| 48   | Acenaphthylene             | 40.000 | 40.251 | -0.6  | 99    | -0.05    |
| 49   | Dimethylphthalate          | 40.000 | 37.276 | 6.8   | 103   | -0.05    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 36.683 | 8.3   | 100   | -0.04    |
| 51 C | Acenaphthene               | 40.000 | 42.409 | -6.0  | 102   | -0.05    |
| 52   | 3-Nitroaniline             | 40.000 | 34.902 | 12.7  | 92    | -0.05    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 11.675 | 70.8# | 14    | -0.05    |
| 54   | Dibenzofuran               | 40.000 | 37.984 | 5.0   | 92    | -0.05    |
| 55 P | 4-Nitrophenol              | 40.000 | 37.907 | 5.2   | 96    | -0.05    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 35.491 | 11.3  | 90    | -0.05    |
| 57   | Fluorene                   | 40.000 | 33.602 | 16.0  | 83    | -0.07    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 37.052 | 7.4   | 90    | -0.05    |
| 59   | Diethylphthalate           | 40.000 | 39.101 | 2.2   | 100   | -0.05    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.011 | 5.0   | 100   | -0.05    |
| 61   | 4-Nitroaniline             | 40.000 | 37.469 | 6.3   | 90    | -0.05    |
| 62   | Azobenzene                 | 40.000 | 38.143 | 4.6   | 101   | -0.05    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 97    | -0.05    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 8.539  | 78.7# | 21    | -0.05    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.763 | 0.6   | 101   | -0.05    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 38.571 | 3.6   | 88    | -0.05    |
| 67   | Hexachlorobenzene          | 40.000 | 38.971 | 2.6   | 103   | -0.05    |
| 68   | Atrazine                   | 40.000 | 31.842 | 20.4  | 71    | -0.07    |
| 69 C | Pentachlorophenol          | 40.000 | 43.467 | -8.7  | 96    | -0.05    |
| 70   | Phenanthrene               | 40.000 | 38.359 | 4.1   | 101   | -0.05    |
| 71   | Anthracene                 | 40.000 | 36.479 | 8.8   | 85    | -0.07    |
| 72   | Carbazole                  | 40.000 | 41.768 | -4.4  | 104   | -0.05    |
| 73   | Di-n-butylphthalate        | 40.000 | 39.412 | 1.5   | 95    | -0.05    |
| 74 C | Fluoranthene               | 40.000 | 36.644 | 8.4   | 87    | -0.07    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 119   | -0.05    |
| 76   | Benzidine                  | 40.000 | 42.997 | -7.5  | 117   | -0.05    |
| 77   | Pyrene                     | 40.000 | 31.415 | 21.5  | 97    | -0.05    |
| 78 S | Terphenyl-d14              | 80.000 | 63.953 | 20.1  | 96    | -0.07    |
| 79   | Butylbenzylphthalate       | 40.000 | 34.805 | 13.0  | 108   | -0.05    |
| 80   | Benzo(a)anthracene         | 40.000 | 39.885 | 0.3   | 123   | -0.05    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.869 | -4.7  | 119   | -0.05    |
| 82   | Chrysene                   | 40.000 | 34.660 | 13.4  | 115   | -0.05    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 38.059 | 4.9   | 115   | -0.05    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 47.006 | -17.5 | 142   | -0.04    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 36.264 | 9.3   | 108   | -0.10    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 126   | -0.07    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 43.036 | -7.6  | 147   | -0.05    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 33.895 | 15.3 | 104   | -0.05    |
| 89 C | Benzo(a)pyrene         | 40.000 | 36.530 | 8.7  | 118   | -0.07    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 35.613 | 11.0 | 108   | -0.10    |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 34.724 | 13.2 | 105   | -0.11    |

(#) = Out of Range

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