

Data Path : Z:\HPCHEM1\BNA F\Data\BF032515\  
 Data File : BF077990.D  
 Acq On : 26 Mar 2015 12:16  
 Operator : TP/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 26 13:08:35 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 19 02:09:19 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   | 107   | -0.07    |
| 2    | 1,4-Dioxane                  | 40.000 | 39.840 | 0.4   | 106   | -0.10    |
| 3    | Pyridine                     | 40.000 | 41.789 | -4.5  | 115   | -0.13    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 35.680 | 10.8  | 89    | -0.11    |
| 5 S  | 2-Fluorophenol               | 80.000 | 79.831 | 0.2   | 110   | -0.06    |
| 6    | Aniline                      | 40.000 | 39.067 | 2.3   | 108   | -0.07    |
| 7 S  | Phenol-d6                    | 80.000 | 80.877 | -1.1  | 109   | -0.05    |
| 8    | 2-Chlorophenol               | 40.000 | 39.689 | 0.8   | 111   | -0.06    |
| 9    | Benzaldehyde                 | 40.000 | 49.170 | -22.9 | 133   | -0.06    |
| 10 C | Phenol                       | 40.000 | 40.989 | -2.5  | 114   | -0.05    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.568 | 1.1   | 107   | -0.06    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.398 | 4.0   | 107   | -0.07    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.921 | 2.7   | 110   | -0.07    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.650 | 3.4   | 109   | -0.07    |
| 15   | Benzyl Alcohol               | 40.000 | 40.300 | -0.7  | 109   | -0.06    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.822 | 2.9   | 107   | -0.06    |
| 17   | 2-Methylphenol               | 40.000 | 38.604 | 3.5   | 104   | -0.05    |
| 18   | Hexachloroethane             | 40.000 | 39.032 | 2.4   | 111   | -0.07    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 37.928 | 5.2   | 105   | -0.07    |
| 20   | 3+4-Methylphenols            | 40.000 | 40.331 | -0.8  | 112   | -0.05    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 106   | -0.07    |
| 22   | Acetophenone                 | 40.000 | 40.288 | -0.7  | 109   | -0.07    |
| 23 S | Nitrobenzene-d5              | 80.000 | 79.290 | 0.9   | 109   | -0.07    |
| 24   | Nitrobenzene                 | 40.000 | 40.414 | -1.0  | 114   | -0.07    |
| 25   | Isophorone                   | 40.000 | 40.008 | -0.0  | 107   | -0.06    |
| 26 C | 2-Nitrophenol                | 40.000 | 40.315 | -0.8  | 101   | -0.06    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.476 | 3.8   | 102   | -0.06    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.134 | 2.2   | 107   | -0.07    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.637 | 0.9   | 105   | -0.06    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.686 | 5.8   | 101   | -0.07    |
| 31   | Naphthalene                  | 40.000 | 38.059 | 4.9   | 103   | -0.07    |
| 32   | Benzoic acid                 | 40.000 | 34.429 | 13.9  | 94    | -0.05    |
| 33   | 4-Chloroaniline              | 40.000 | 40.795 | -2.0  | 107   | -0.06    |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.557 | 1.1   | 108   | -0.07    |
| 35   | Caprolactam                  | 40.000 | 39.948 | 0.1   | 106   | -0.06    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.606 | -4.0  | 114   | -0.05    |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.288 | 4.3   | 101   | -0.06    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 106   | -0.07    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 37.249 | 6.9   | 100   | -0.06    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 33.361 | 16.6  | 91    | -0.07    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 77.959 | 2.6   | 103   | -0.07    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 39.979 | 0.1   | 102   | -0.06    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.423 | 1.4   | 106   | -0.06    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 75.034 | 6.2   | 104   | -0.07    |

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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 | 38.143 | 4.6   | 101   | -0.06    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.176 | 4.6   | 104   | -0.07    |
| 47   | 2-Nitroaniline             | 40.000 | 41.338 | -3.3  | 104   | -0.07    |
| 48   | Acenaphthylene             | 40.000 | 39.031 | 2.4   | 107   | -0.07    |
| 49   | Dimethylphthalate          | 40.000 | 38.876 | 2.8   | 106   | -0.07    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 40.607 | -1.5  | 108   | -0.07    |
| 51 C | Acenaphthene               | 40.000 | 38.814 | 3.0   | 104   | -0.07    |
| 52   | 3-Nitroaniline             | 40.000 | 42.634 | -6.6  | 111   | -0.06    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 32.002 | 20.0  | 85    | -0.06    |
| 54   | Dibenzofuran               | 40.000 | 37.982 | 5.0   | 102   | -0.07    |
| 55 P | 4-Nitrophenol              | 40.000 | 36.928 | 7.7   | 92    | -0.06    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 42.442 | -6.1  | 113   | -0.06    |
| 57   | Fluorene                   | 40.000 | 38.737 | 3.2   | 103   | -0.07    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.165 | 2.1   | 103   | -0.07    |
| 59   | Diethylphthalate           | 40.000 | 40.964 | -2.4  | 109   | -0.06    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 37.158 | 7.1   | 101   | -0.07    |
| 61   | 4-Nitroaniline             | 40.000 | 43.309 | -8.3  | 114   | -0.06    |
| 62   | Azobenzene                 | 40.000 | 39.254 | 1.9   | 97    | -0.07    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 110   | -0.08    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 34.401 | 14.0  | 96    | -0.07    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.837 | 0.4   | 107   | -0.07    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 38.919 | 2.7   | 104   | -0.07    |
| 67   | Hexachlorobenzene          | 40.000 | 37.878 | 5.3   | 103   | -0.07    |
| 68   | Atrazine                   | 40.000 | 39.263 | 1.8   | 103   | -0.07    |
| 69 C | Pentachlorophenol          | 40.000 | 30.797 | 23.0# | 85    | -0.07    |
| 70   | Phenanthrene               | 40.000 | 38.544 | 3.6   | 106   | -0.08    |
| 71   | Anthracene                 | 40.000 | 41.098 | -2.7  | 116   | -0.07    |
| 72   | Carbazole                  | 40.000 | 39.297 | 1.8   | 112   | -0.07    |
| 73   | Di-n-butylphthalate        | 40.000 | 40.974 | -2.4  | 113   | -0.07    |
| 74 C | Fluoranthene               | 40.000 | 40.361 | -0.9  | 105   | -0.08    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 114   | -0.17    |
| 76   | Benzidine                  | 40.000 | 39.703 | 0.7   | 110   | -0.08    |
| 77   | Pyrene                     | 40.000 | 37.508 | 6.2   | 99    | -0.08    |
| 78 S | Terphenyl-d14              | 80.000 | 70.478 | 11.9  | 96    | -0.09    |
| 79   | Butylbenzylphthalate       | 40.000 | 41.360 | -3.4  | 117   | -0.11    |
| 80   | Benzo(a)anthracene         | 40.000 | 38.482 | 3.8   | 114   | -0.17    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 39.631 | 0.9   | 119   | -0.16    |
| 82   | Chrysene                   | 40.000 | 40.059 | -0.1  | 115   | -0.17    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.452 | 1.4   | 115   | -0.17    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 40.043 | -0.1  | 118   | -0.26    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 32.838 | 17.9  | 101   | -0.07    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 117   | -0.35    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 36.753 | 8.1   | 108   | -0.30    |

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|      | Compound               | Amount | Calc.  | %Dev  | Area | % Dev(min) |
|------|------------------------|--------|--------|-------|------|------------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 45.406 | -13.5 | 140  | -0.30      |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.271 | -3.2  | 122  | -0.34      |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.803 | -2.0  | 121  | -0.47      |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 41.939 | -4.8  | 123  | -0.49      |

(#) = Out of Range

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