

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
 Data File : BF083949.D  
 Acq On : 19 Dec 2015 12:42  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 21 02:59:21 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 18 14:23:22 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    | 111   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 33.890 | 15.3   | 95    | -0.05    |
| 3    | Pyridine                     | 40.000 | 36.458 | 8.9    | 100   | -0.05    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 38.524 | 3.7    | 103   | -0.03    |
| 5 S  | 2-Fluorophenol               | 80.000 | 69.464 | 13.2   | 100   | -0.02    |
| 6    | Aniline                      | 40.000 | 35.017 | 12.5   | 98    | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 69.481 | 13.1   | 95    | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 35.244 | 11.9   | 106   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 35.576 | 11.1   | 97    | -0.02    |
| 10 C | Phenol                       | 40.000 | 32.468 | 18.8   | 95    | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 35.812 | 10.5   | 91    | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.163 | 4.6    | 112   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 34.844 | 12.9   | 113   | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 43.094 | -7.7   | 110   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 38.931 | 2.7    | 119   | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 36.466 | 8.8    | 109   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 33.846 | 15.4   | 100   | -0.02    |
| 18   | Hexachloroethane             | 40.000 | 36.296 | 9.3    | 109   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 38.510 | 3.7    | 116   | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 38.615 | 3.5    | 122   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 110   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 38.046 | 4.9    | 113   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 82.303 | -2.9   | 122   | -0.01    |
| 24   | Nitrobenzene                 | 40.000 | 35.794 | 10.5   | 98    | -0.02    |
| 25   | Isophorone                   | 40.000 | 38.199 | 4.5    | 114   | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 42.573 | -6.4   | 114   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.682 | -4.2   | 127   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.305 | -0.8   | 128   | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 38.532 | 3.7    | 109   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.104 | 7.2    | 116   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 37.080 | 7.3    | 107   | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 53.525 | -33.8# | 189   | -0.01    |
| 33   | 4-Chloroaniline              | 40.000 | 38.420 | 3.9    | 122   | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.055 | 4.9    | 112   | -0.02    |
| 35   | Caprolactam                  | 40.000 | 38.663 | 3.3    | 123   | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 40.803 | -2.0   | 111   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.981 | 0.0    | 121   | -0.02    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 115   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 35.672 | 10.8   | 118   | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 34.650 | 13.4   | 98    | -0.03    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 80.421 | -0.5   | 122   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 36.580 | 8.6    | 114   | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 38.523 | 3.7    | 117   | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 76.242 | 4.7    | 115   | -0.02    |

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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 | 36.834 | 7.9   | 111   | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.289 | 4.3   | 117   | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 39.945 | 0.1   | 128   | -0.01    |
| 48   | Acenaphthylene             | 40.000 | 38.000 | 5.0   | 120   | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 37.672 | 5.8   | 116   | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 34.998 | 12.5  | 103   | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 38.404 | 4.0   | 118   | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 39.003 | 2.5   | 122   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 39.466 | 1.3   | 126   | -0.02    |
| 54   | Dibenzofuran               | 40.000 | 37.532 | 6.2   | 118   | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 39.826 | 0.4   | 108   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 38.135 | 4.7   | 119   | -0.01    |
| 57   | Fluorene                   | 40.000 | 41.434 | -3.6  | 122   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 36.451 | 8.9   | 111   | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 38.406 | 4.0   | 119   | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.009 | 5.0   | 115   | -0.02    |
| 61   | 4-Nitroaniline             | 40.000 | 38.313 | 4.2   | 127   | -0.01    |
| 62   | Azobenzene                 | 40.000 | 39.366 | 1.6   | 116   | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 114   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 40.052 | -0.1  | 115   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 35.470 | 11.3  | 114   | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 38.103 | 4.7   | 118   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 38.525 | 3.7   | 112   | -0.02    |
| 68   | Atrazine                   | 40.000 | 40.790 | -2.0  | 134   | -0.01    |
| 69 C | Pentachlorophenol          | 40.000 | 42.575 | -6.4  | 137   | -0.02    |
| 70   | Phenanthrene               | 40.000 | 37.195 | 7.0   | 116   | -0.02    |
| 71   | Anthracene                 | 40.000 | 36.206 | 9.5   | 108   | -0.02    |
| 72   | Carbazole                  | 40.000 | 37.626 | 5.9   | 122   | -0.01    |
| 73   | Di-n-butylphthalate        | 40.000 | 42.065 | -5.2  | 120   | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 37.559 | 6.1   | 117   | -0.02    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 98    | -0.02    |
| 76   | Benzidine                  | 40.000 | 27.972 | 30.1# | 73    | -0.02    |
| 77   | Pyrene                     | 40.000 | 42.759 | -6.9  | 114   | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 91.699 | -14.6 | 109   | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 40.533 | -1.3  | 112   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 37.566 | 6.1   | 106   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 38.326 | 4.2   | 104   | -0.02    |
| 82   | Chrysene                   | 40.000 | 37.041 | 7.4   | 106   | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 42.240 | -5.6  | 117   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 45.793 | -14.5 | 116   | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.861 | -4.7  | 106   | -0.03    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 93    | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 42.001 | -5.0  | 107   | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 33.198 | 17.0  | 80    | -0.02    |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.430 | 6.4   | 91    | -0.03    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 42.923 | -7.3  | 105   | -0.03    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 44.141 | -10.4 | 109   | -0.05    |

(#) = Out of Range

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