

Data Path : Z:\HPCHEM1\BNA G\DATA\BG091416\  
 Data File : BG023991.D  
 Acq On : 14 Sep 2016 20:58  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 15 00:36:45 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG083116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 09 16:24:09 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   | 144   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 43.605 | -9.0  | 143   | -0.01    |
| 3    | Pyridine                     | 40.000 | 42.445 | -6.1  | 138   | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.000 | -2.5  | 148   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.245 | -1.6  | 136   | -0.02    |
| 6    | Aniline                      | 40.000 | 37.844 | 5.4   | 132   | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 76.347 | 4.6   | 130   | -0.03    |
| 8    | 2-Chlorophenol               | 40.000 | 36.037 | 9.9   | 124   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 36.452 | 8.9   | 124   | -0.02    |
| 10 C | Phenol                       | 40.000 | 37.561 | 6.1   | 126   | -0.02    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 35.789 | 10.5  | 133   | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 36.564 | 8.6   | 131   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 36.032 | 9.9   | 134   | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 36.540 | 8.7   | 132   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 37.780 | 5.5   | 126   | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.265 | 11.8  | 130   | -0.03    |
| 17   | 2-Methylphenol               | 40.000 | 36.812 | 8.0   | 126   | -0.03    |
| 18   | Hexachloroethane             | 40.000 | 38.583 | 3.5   | 137   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.176 | 9.6   | 129   | -0.03    |
| 20   | 3+4-Methylphenols            | 40.000 | 36.522 | 8.7   | 121   | -0.03    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 113   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 42.363 | -5.9  | 120   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 86.809 | -8.5  | 126   | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 44.603 | -11.5 | 131   | -0.03    |
| 25   | Isophorone                   | 40.000 | 41.629 | -4.1  | 120   | -0.03    |
| 26 C | 2-Nitrophenol                | 40.000 | 40.620 | -1.5  | 117   | -0.03    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.083 | -0.2  | 107   | -0.03    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 41.867 | -4.7  | 123   | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 43.138 | -7.8  | 120   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.483 | -3.7  | 122   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 39.241 | 1.9   | 117   | -0.03    |
| 32   | Benzoic acid                 | 40.000 | 35.189 | 12.0  | 99    | -0.03    |
| 33   | 4-Chloroaniline              | 40.000 | 39.500 | 1.3   | 110   | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 44.754 | -11.9 | 126   | -0.03    |
| 35   | Caprolactam                  | 40.000 | 38.271 | 4.3   | 105   | -0.04    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.522 | -3.8  | 116   | -0.03    |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.075 | 2.3   | 110   | -0.02    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 106   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 43.034 | -7.6  | 112   | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 35.847 | 10.4  | 101   | -0.02    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 80.158 | -0.2  | 100   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.740 | -4.4  | 107   | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 42.932 | -7.3  | 108   | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 80.424 | -0.5  | 107   | -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 | 39.810 | 0.5   | 105   | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.218 | -0.5  | 108   | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 47.275 | -18.2 | 126   | -0.02    |
| 48   | Acenaphthylene             | 40.000 | 40.172 | -0.4  | 106   | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 39.647 | 0.9   | 105   | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 42.558 | -6.4  | 112   | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 39.943 | 0.1   | 107   | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 42.000 | -5.0  | 105   | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 38.141 | 4.6   | 100   | -0.02    |
| 54   | Dibenzofuran               | 40.000 | 40.572 | -1.4  | 107   | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 38.972 | 2.6   | 106   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 41.764 | -4.4  | 109   | -0.02    |
| 57   | Fluorene                   | 40.000 | 40.391 | -1.0  | 108   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.047 | -2.6  | 106   | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 39.983 | 0.0   | 105   | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.320 | -0.8  | 104   | -0.02    |
| 61   | 4-Nitroaniline             | 40.000 | 43.346 | -8.4  | 112   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 42.281 | -5.7  | 113   | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 108   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 39.790 | 0.5   | 106   | -0.02    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.545 | 1.1   | 106   | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 39.055 | 2.4   | 103   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 36.825 | 7.9   | 98    | -0.02    |
| 68   | Atrazine                   | 40.000 | 39.969 | 0.1   | 105   | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 36.030 | 9.9   | 92    | -0.02    |
| 70   | Phenanthrene               | 40.000 | 39.306 | 1.7   | 108   | -0.02    |
| 71   | Anthracene                 | 40.000 | 39.045 | 2.4   | 107   | -0.02    |
| 72   | Carbazole                  | 40.000 | 38.932 | 2.7   | 107   | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 38.598 | 3.5   | 106   | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 39.449 | 1.4   | 105   | -0.02    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 105   | -0.02    |
| 76   | Benzidine                  | 40.000 | 24.748 | 38.1# | 63    | -0.01    |
| 77   | Pyrene                     | 40.000 | 39.835 | 0.4   | 105   | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 80.021 | -0.0  | 105   | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 39.613 | 1.0   | 110   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 41.556 | -3.9  | 111   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 39.633 | 0.9   | 102   | -0.01    |
| 82   | Chrysene                   | 40.000 | 41.445 | -3.6  | 112   | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 41.043 | -2.6  | 116   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 41.685 | -4.2  | 117   | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.798 | -7.0  | 118   | -0.05    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 114   | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 40.670 | -1.7  | 118   | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev | Area | % Dev(min) |
|------|------------------------|--------|--------|------|------|------------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 40.855 | -2.1 | 117  | -0.03      |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.248 | -3.1 | 120  | -0.03      |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 38.404 | 4.0  | 112  | -0.05      |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 38.997 | 2.5  | 114  | -0.06      |

(#) = Out of Range

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