

Data Path : Z:\HPCHEM1\BNA G\Data\BG042018\  
 Data File : BG033881.D  
 Acq On : 20 Apr 2018 11:53  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 21 05:12:31 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 13:56:22 2018  
 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   | 139   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 42.236 | -5.6  | 152   | 0.00     |
| 3    | Pyridine                     | 40.000 | 40.899 | -2.2  | 132   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 40.212 | -0.5  | 140   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 82.114 | -2.6  | 140   | 0.00     |
| 6    | Aniline                      | 40.000 | 33.991 | 15.0  | 112   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 77.360 | 3.3   | 129   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 39.123 | 2.2   | 133   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 39.526 | 1.2   | 133   | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.408 | 4.0   | 129   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.830 | 0.4   | 132   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.249 | -0.6  | 134   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.872 | 0.3   | 134   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.510 | 1.2   | 134   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 36.449 | 8.9   | 122   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 36.830 | 7.9   | 123   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 36.841 | 7.9   | 125   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.929 | 0.2   | 137   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 34.273 | 14.3  | 114   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 36.256 | 9.4   | 122   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 120   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 39.636 | 0.9   | 119   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 86.651 | -8.3  | 129   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 42.049 | -5.1  | 123   | 0.00     |
| 25   | Isophorone                   | 40.000 | 38.170 | 4.6   | 113   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 46.456 | -16.1 | 139   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.209 | -0.5  | 118   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.265 | 1.8   | 117   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.315 | -3.3  | 121   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.697 | -4.2  | 125   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 40.005 | -0.0  | 120   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 41.613 | -4.0  | 127   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 36.396 | 9.0   | 107   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 43.744 | -9.4  | 124   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 39.077 | 2.3   | 117   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 36.741 | 8.1   | 109   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.991 | 2.5   | 116   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 105   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 43.166 | -7.9  | 115   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 45.335 | -13.3 | 117   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 86.327 | -7.9  | 109   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 44.353 | -10.9 | 117   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 44.649 | -11.6 | 117   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 83.745 | -4.7  | 110   | 0.00     |

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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 | 41.889 | -4.7  | 111   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 41.669 | -4.2  | 111   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 44.721 | -11.8 | 117   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 40.651 | -1.6  | 107   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 40.081 | -0.2  | 106   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 44.142 | -10.4 | 114   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 42.391 | -6.0  | 109   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 45.279 | -13.2 | 112   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 48.467 | -21.2 | 129   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 40.186 | -0.5  | 107   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 44.588 | -11.5 | 110   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 46.482 | -16.2 | 120   | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.869 | 0.3   | 105   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.175 | -7.9  | 108   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 39.656 | 0.9   | 105   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.175 | -0.4  | 108   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 44.061 | -10.2 | 111   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 38.801 | 3.0   | 103   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 105   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 43.983 | -10.0 | 121   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 40.114 | -0.3  | 106   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.754 | -1.9  | 107   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 40.679 | -1.7  | 106   | 0.00     |
| 68   | Atrazine                   | 40.000 | 40.247 | -0.6  | 106   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 42.298 | -5.7  | 109   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 39.352 | 1.6   | 103   | 0.00     |
| 71   | Anthracene                 | 40.000 | 39.927 | 0.2   | 104   | 0.00     |
| 72   | Carbazole                  | 40.000 | 39.443 | 1.4   | 105   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.488 | 1.3   | 104   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 39.452 | 1.4   | 105   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 109   | 0.00     |
| 76   | Benzidine                  | 40.000 | 16.782 | 58.0# | 46    | 0.00     |
| 77   | Pyrene                     | 40.000 | 39.314 | 1.7   | 106   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 78.077 | 2.4   | 106   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 40.787 | -2.0  | 110   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 39.860 | 0.4   | 108   | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.189 | -0.5  | 108   | 0.00     |
| 82   | Chrysene                   | 40.000 | 40.376 | -0.9  | 109   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 41.302 | -3.3  | 111   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 41.866 | -4.7  | 111   | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.893 | -4.7  | 112   | -0.02    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 110   | -0.01    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.581 | -4.0  | 114   | -0.01    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 39.674 | 0.8  | 108   | -0.01    |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.467 | -1.2 | 110   | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.739 | -1.8 | 111   | -0.03    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 40.906 | -2.3 | 111   | -0.03    |

(#) = Out of Range

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