

Data Path : Z:\HPCHEM1\BNA G\Data\BG042418\  
 Data File : BG033951.D  
 Acq On : 24 Apr 2018 12:41  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 24 23:59:14 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   | 131   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 35.129 | 12.2  | 119   | 0.00     |
| 3    | Pyridine                     | 40.000 | 38.570 | 3.6   | 117   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 35.466 | 11.3  | 116   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 76.285 | 4.6   | 122   | -0.01    |
| 6    | Aniline                      | 40.000 | 37.975 | 5.1   | 118   | -0.01    |
| 7 S  | Phenol-d6                    | 80.000 | 76.933 | 3.8   | 121   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 38.322 | 4.2   | 122   | -0.01    |
| 9    | Benzaldehyde                 | 40.000 | 36.963 | 7.6   | 119   | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.029 | 4.9   | 120   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.636 | 3.4   | 121   | -0.01    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.158 | 2.1   | 123   | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.648 | 0.9   | 126   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.449 | 1.4   | 125   | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 37.289 | 6.8   | 118   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.837 | 10.4  | 112   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 38.347 | 4.1   | 122   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 38.753 | 3.1   | 125   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.787 | 8.0   | 115   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.062 | 4.8   | 120   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 128   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 37.122 | 7.2   | 119   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 80.715 | -0.9  | 129   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 38.745 | 3.1   | 121   | 0.00     |
| 25   | Isophorone                   | 40.000 | 35.938 | 10.2  | 114   | -0.01    |
| 26 C | 2-Nitrophenol                | 40.000 | 45.391 | -13.5 | 146   | -0.01    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 37.721 | 5.7   | 118   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.049 | 4.9   | 121   | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.685 | 0.8   | 124   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.210 | -0.5  | 129   | -0.01    |
| 31   | Naphthalene                  | 40.000 | 38.296 | 4.3   | 123   | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 41.895 | -4.7  | 137   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.839 | 5.4   | 119   | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 42.373 | -5.9  | 129   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 39.783 | 0.5   | 128   | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 36.852 | 7.9   | 117   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.329 | 4.2   | 122   | -0.01    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 127   | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.576 | 1.1   | 128   | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 40.320 | -0.8  | 126   | -0.01    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 84.545 | -5.7  | 129   | -0.01    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.746 | -1.9  | 130   | -0.01    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 40.713 | -1.8  | 129   | -0.01    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 76.103 | 4.9   | 122   | -0.02    |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 37.721 | 5.7    | 121   | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 37.883 | 5.3    | 122   | -0.01    |
| 47   | 2-Nitroaniline             | 40.000 | 39.664 | 0.8    | 125   | -0.01    |
| 48   | Acenaphthylene             | 40.000 | 37.222 | 6.9    | 119   | -0.01    |
| 49   | Dimethylphthalate          | 40.000 | 36.571 | 8.6    | 117   | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 41.801 | -4.5   | 131   | -0.01    |
| 51 C | Acenaphthene               | 40.000 | 37.138 | 7.2    | 116   | -0.01    |
| 52   | 3-Nitroaniline             | 40.000 | 42.393 | -6.0   | 128   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 53.081 | -32.7# | 171   | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 37.243 | 6.9    | 120   | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 42.362 | -5.9   | 126   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 44.062 | -10.2  | 138   | 0.00     |
| 57   | Fluorene                   | 40.000 | 37.178 | 7.1    | 119   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 40.626 | -1.6   | 123   | -0.01    |
| 59   | Diethylphthalate           | 40.000 | 35.758 | 10.6   | 115   | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.197 | 4.5    | 124   | -0.01    |
| 61   | 4-Nitroaniline             | 40.000 | 40.901 | -2.3   | 125   | -0.01    |
| 62   | Azobenzene                 | 40.000 | 34.343 | 14.1   | 110   | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 126   | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 45.208 | -13.0  | 149   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 38.018 | 5.0    | 120   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 39.488 | 1.3    | 124   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 39.462 | 1.3    | 123   | -0.01    |
| 68   | Atrazine                   | 40.000 | 36.960 | 7.6    | 116   | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 41.210 | -3.0   | 127   | -0.01    |
| 70   | Phenanthrene               | 40.000 | 37.013 | 7.5    | 116   | -0.02    |
| 71   | Anthracene                 | 40.000 | 37.741 | 5.6    | 117   | -0.01    |
| 72   | Carbazole                  | 40.000 | 36.532 | 8.7    | 116   | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 35.615 | 11.0   | 112   | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 36.413 | 9.0    | 115   | -0.01    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 124   | -0.02    |
| 76   | Benzidine                  | 40.000 | 23.926 | 40.2#  | 75    | -0.02    |
| 77   | Pyrene                     | 40.000 | 37.871 | 5.3    | 116   | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 75.042 | 6.2    | 116   | -0.01    |
| 79   | Butylbenzylphthalate       | 40.000 | 36.574 | 8.6    | 112   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 37.473 | 6.3    | 116   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 38.819 | 3.0    | 119   | -0.02    |
| 82   | Chrysene                   | 40.000 | 37.433 | 6.4    | 116   | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 36.416 | 9.0    | 111   | -0.03    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 36.620 | 8.5    | 111   | -0.04    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.577 | 1.1    | 120   | -0.06    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 126   | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 37.691 | 5.8    | 118   | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.061 | 7.3  | 116   | -0.03    |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.673 | 5.8  | 118   | -0.04    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 38.613 | 3.5  | 121   | -0.07    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 38.419 | 4.0  | 120   | -0.07    |

(#) = Out of Range

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