

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM110818\  
 Data File : BM017551.D  
 Acq On : 07 Nov 2018 09:30  
 Operator : MJ/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 07 13:36:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM101718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 29 15:08:36 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   | 111   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 36.790 | 8.0   | 105   | -0.01    |
| 3    | Pyridine                     | 40.000 | 41.254 | -3.1  | 109   | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 43.399 | -8.5  | 122   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 80.383 | -0.5  | 109   | -0.02    |
| 6    | Aniline                      | 40.000 | 41.713 | -4.3  | 112   | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 83.907 | -4.9  | 112   | -0.02    |
| 8    | 2-Chlorophenol               | 40.000 | 41.506 | -3.8  | 111   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 37.403 | 6.5   | 105   | -0.02    |
| 10 C | Phenol                       | 40.000 | 41.057 | -2.6  | 110   | -0.02    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.233 | -3.1  | 112   | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.609 | 1.0   | 110   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.704 | 0.7   | 110   | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.032 | -0.1  | 110   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 47.957 | -19.9 | 125   | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 44.125 | -10.3 | 122   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 44.018 | -10.0 | 117   | -0.02    |
| 18   | Hexachloroethane             | 40.000 | 41.922 | -4.8  | 114   | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 49.182 | -23.0 | 127   | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 45.357 | -13.4 | 120   | -0.02    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 119   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 39.945 | 0.1   | 116   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 88.543 | -10.7 | 122   | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 42.164 | -5.4  | 117   | -0.02    |
| 25   | Isophorone                   | 40.000 | 45.660 | -14.1 | 127   | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 45.024 | -12.6 | 139   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 42.692 | -6.7  | 121   | -0.02    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 42.993 | -7.5  | 122   | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 44.237 | -10.6 | 124   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.107 | -0.3  | 119   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 39.928 | 0.2   | 118   | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 48.995 | -22.5 | 148   | -0.01    |
| 33   | 4-Chloroaniline              | 40.000 | 43.121 | -7.8  | 122   | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.004 | -0.0  | 120   | -0.03    |
| 35   | Caprolactam                  | 40.000 | 47.056 | -17.6 | 136   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 45.913 | -14.8 | 129   | -0.02    |
| 37   | 2-Methylnaphthalene          | 40.000 | 42.979 | -7.4  | 123   | -0.03    |
| 38   | 1-Methylnaphthalene          | 40.000 | 43.659 | -9.1  | 125   | -0.02    |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 130   | -0.02    |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.342 | 1.6   | 127   | -0.02    |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 43.313 | -8.3  | 134   | -0.03    |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 92.871 | -16.1 | 150   | -0.02    |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 44.008 | -10.0 | 132   | -0.02    |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 43.665 | -9.2  | 133   | -0.02    |

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

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 80.000 | 80.119 | -0.1   | 129   | -0.02    |
| 46   | 1,1'-Biphenyl              | 40.000 | 39.389 | 1.5    | 127   | -0.02    |
| 47   | 2-Chloronaphthalene        | 40.000 | 39.162 | 2.1    | 125   | -0.02    |
| 48   | 2-Nitroaniline             | 40.000 | 45.285 | -13.2  | 150   | -0.02    |
| 49   | Acenaphthylene             | 40.000 | 41.726 | -4.3   | 129   | -0.02    |
| 50   | Dimethylphthalate          | 40.000 | 43.469 | -8.7   | 136   | -0.02    |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 44.661 | -11.7  | 140   | -0.02    |
| 52 C | Acenaphthene               | 40.000 | 40.250 | -0.6   | 128   | -0.02    |
| 53   | 3-Nitroaniline             | 40.000 | 43.634 | -9.1   | 137   | -0.02    |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 45.623 | -14.1  | 161   | -0.02    |
| 55   | Dibenzofuran               | 40.000 | 39.853 | 0.4    | 129   | -0.02    |
| 56 P | 4-Nitrophenol              | 40.000 | 40.593 | -1.5   | 132   | -0.02    |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 46.762 | -16.9  | 145   | -0.02    |
| 58   | Fluorene                   | 40.000 | 41.912 | -4.8   | 134   | -0.02    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 45.024 | -12.6  | 137   | -0.02    |
| 60   | Diethylphthalate           | 40.000 | 46.379 | -15.9  | 143   | -0.02    |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 42.304 | -5.8   | 134   | -0.02    |
| 62   | 4-Nitroaniline             | 40.000 | 39.501 | 1.2    | 128   | -0.02    |
| 63   | Azobenzene                 | 40.000 | 44.935 | -12.3  | 137   | -0.02    |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 134   | -0.02    |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 46.131 | -15.3  | 164   | -0.02    |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 42.250 | -5.6   | 136   | -0.02    |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 43.986 | -10.0  | 141   | -0.02    |
| 68   | Hexachlorobenzene          | 40.000 | 41.659 | -4.1   | 138   | -0.02    |
| 69   | Atrazine                   | 40.000 | 42.811 | -7.0   | 138   | -0.02    |
| 70 C | Pentachlorophenol          | 40.000 | 44.504 | -11.3  | 143   | -0.02    |
| 71   | Phenanthrene               | 40.000 | 40.030 | -0.1   | 133   | -0.02    |
| 72   | Anthracene                 | 40.000 | 41.510 | -3.8   | 133   | -0.02    |
| 73   | Carbazole                  | 40.000 | 42.289 | -5.7   | 137   | -0.02    |
| 74   | Di-n-butylphthalate        | 40.000 | 49.180 | -22.9  | 159   | -0.02    |
| 75 C | Fluoranthene               | 40.000 | 42.544 | -6.4   | 137   | -0.02    |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 140   | -0.02    |
| 77   | Benzidine                  | 40.000 | 46.913 | -17.3  | 149   | -0.02    |
| 78   | Pyrene                     | 40.000 | 40.834 | -2.1   | 134   | -0.02    |
| 79 S | Terphenyl-d14              | 80.000 | 85.320 | -6.6   | 143   | -0.02    |
| 80   | Butylbenzylphthalate       | 40.000 | 51.111 | -27.8# | 195   | -0.02    |
| 81   | Benzo(a)anthracene         | 40.000 | 40.746 | -1.9   | 139   | -0.02    |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 46.228 | -15.6  | 155   | -0.02    |
| 83   | Chrysene                   | 40.000 | 39.629 | 0.9    | 137   | -0.02    |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 50.316 | -25.8# | 183   | -0.02    |
| 85 c | Di-n-octyl phthalate       | 40.000 | 49.713 | -24.3# | 182   | -0.02    |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 37.442 | 6.4    | 130   | -0.04    |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 137   | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 42.039 | -5.1 | 141   | -0.03    |
| 89   | Benzo(k)fluoranthene   | 40.000 | 40.869 | -2.2 | 136   | -0.02    |
| 90 C | Benzo(a)pyrene         | 40.000 | 41.150 | -2.9 | 137   | -0.03    |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 39.060 | 2.3  | 132   | -0.04    |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 37.177 | 7.1  | 127   | -0.04    |

(#) = Out of Range

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