

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102418\  
 Data File : BN003297.D  
 Acq On : 25 Oct 2018 06:26  
 Operator : MJ/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 25 07:19:47 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-BN102418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 24 14:21:25 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  | 122   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 37.885 | 5.3  | 118   | 0.00     |
| 3    | Pyridine                     | 40.000 | 41.586 | -4.0 | 119   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 40.059 | -0.1 | 123   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 79.468 | 0.7  | 119   | 0.00     |
| 6    | Aniline                      | 40.000 | 40.708 | -1.8 | 121   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 80.866 | -1.1 | 120   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 39.846 | 0.4  | 120   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 39.097 | 2.3  | 118   | 0.00     |
| 10 C | Phenol                       | 40.000 | 40.618 | -1.5 | 120   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.894 | 0.3  | 120   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.764 | 0.6  | 120   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.892 | 0.3  | 121   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.978 | 0.1  | 120   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 41.373 | -3.4 | 126   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 39.999 | 0.0  | 122   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 40.789 | -2.0 | 121   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 40.021 | -0.1 | 122   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 41.544 | -3.9 | 124   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 40.700 | -1.8 | 121   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 127   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 39.304 | 1.7  | 122   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.408 | 2.0  | 122   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.350 | 1.6  | 123   | 0.00     |
| 25   | Isophorone                   | 40.000 | 40.015 | -0.0 | 125   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 40.095 | -0.2 | 122   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.111 | 2.2  | 122   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.395 | 1.5  | 124   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.131 | -0.3 | 123   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 38.687 | 3.3  | 122   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 38.517 | 3.7  | 122   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 36.191 | 9.5  | 116   | 0.01     |
| 33   | 4-Chloroaniline              | 40.000 | 39.793 | 0.5  | 125   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.695 | 3.3  | 122   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 40.923 | -2.3 | 122   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 39.940 | 0.2  | 124   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.007 | 2.5  | 124   | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 39.086 | 2.3  | 124   | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 130   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 38.524 | 3.7  | 122   | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 39.370 | 1.6  | 135   | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 79.278 | 0.9  | 126   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 39.477 | 1.3  | 124   | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 39.123 | 2.2  | 127   | 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 S | 2-Fluorobiphenyl           | 80.000 | 76.231 | 4.7  | 123   | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 38.565 | 3.6  | 125   | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 38.610 | 3.5  | 124   | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 39.941 | 0.1  | 123   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 38.533 | 3.7  | 124   | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 38.117 | 4.7  | 125   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 38.859 | 2.9  | 124   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 38.462 | 3.8  | 125   | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 39.734 | 0.7  | 125   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 35.747 | 10.6 | 118   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 38.258 | 4.4  | 125   | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 36.987 | 7.5  | 120   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 39.717 | 0.7  | 125   | 0.00     |
| 58   | Fluorene                   | 40.000 | 37.863 | 5.3  | 123   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 40.618 | -1.5 | 130   | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 38.550 | 3.6  | 125   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 38.080 | 4.8  | 124   | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 39.379 | 1.6  | 119   | 0.00     |
| 63   | Azobenzene                 | 40.000 | 38.747 | 3.1  | 126   | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0  | 130   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 38.704 | 3.2  | 123   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.164 | 2.1  | 126   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.202 | 2.0  | 124   | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 38.862 | 2.8  | 123   | 0.00     |
| 69   | Atrazine                   | 40.000 | 39.058 | 2.4  | 122   | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 42.740 | -6.9 | 144   | 0.00     |
| 71   | Phenanthrene               | 40.000 | 38.428 | 3.9  | 123   | 0.00     |
| 72   | Anthracene                 | 40.000 | 38.826 | 2.9  | 123   | 0.00     |
| 73   | Carbazole                  | 40.000 | 38.281 | 4.3  | 123   | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 38.800 | 3.0  | 123   | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 38.422 | 3.9  | 124   | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0  | 126   | 0.00     |
| 77   | Benzidine                  | 40.000 | 41.744 | -4.4 | 131   | 0.00     |
| 78   | Pyrene                     | 40.000 | 39.236 | 1.9  | 123   | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 77.931 | 2.6  | 122   | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 39.187 | 2.0  | 121   | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 38.014 | 5.0  | 118   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 37.458 | 6.4  | 115   | 0.00     |
| 83   | Chrysene                   | 40.000 | 38.354 | 4.1  | 120   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.905 | 5.2  | 118   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 37.282 | 6.8  | 116   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 33.216 | 17.0 | 100   | 0.00     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0  | 117   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 38.370 | 4.1  | 112   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 38.806 | 3.0  | 116   | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 38.338 | 4.2  | 113   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 35.099 | 12.3 | 101   | 0.00     |
| 92   | Benzo(g,h,i)perylene   | 40.000 | 34.241 | 14.4 | 99    | 0.00     |

(#) = Out of Range

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