

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\  
 Data File : BF113715.D  
 Acq On : 11 Apr 2019 11:55  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 11 12:34:20 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 04:05:31 2019  
 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  | 121   | -0.01    |
| 2    | 1,4-Dioxane                  | 40.000 | 38.533 | 3.7  | 117   | -0.01    |
| 3    | Pyridine                     | 40.000 | 39.191 | 2.0  | 115   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 40.511 | -1.3 | 120   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 80.611 | -0.8 | 120   | -0.01    |
| 6    | Aniline                      | 40.000 | 40.814 | -2.0 | 117   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 79.723 | 0.3  | 118   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.511 | -1.3 | 120   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 36.872 | 7.8  | 103   | 0.00     |
| 10 C | Phenol                       | 40.000 | 39.658 | 0.9  | 118   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.392 | 1.5  | 117   | -0.01    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.511 | 1.2  | 117   | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.607 | 1.0  | 117   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.290 | 1.8  | 115   | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 39.270 | 1.8  | 111   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.638 | 5.9  | 110   | -0.01    |
| 17   | 2-Methylphenol               | 40.000 | 39.621 | 0.9  | 118   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.080 | 2.3  | 116   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 38.891 | 2.8  | 114   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 41.722 | -4.3 | 121   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 118   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 39.993 | 0.0  | 118   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 79.384 | 0.8  | 117   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 40.282 | -0.7 | 118   | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.338 | 1.7  | 117   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 41.186 | -3.0 | 121   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.277 | 1.8  | 116   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.049 | 2.4  | 115   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.524 | -3.8 | 121   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.537 | 1.2  | 116   | -0.01    |
| 31   | Naphthalene                  | 40.000 | 39.716 | 0.7  | 116   | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 40.806 | -2.0 | 119   | 0.03     |
| 33   | 4-Chloroaniline              | 40.000 | 41.764 | -4.4 | 119   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.189 | 2.0  | 115   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 41.126 | -2.8 | 117   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.799 | -4.5 | 121   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.037 | 2.4  | 114   | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 39.501 | 1.2  | 115   | -0.01    |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 116   | -0.01    |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.942 | 0.1  | 116   | -0.02    |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 36.036 | 9.9  | 104   | -0.02    |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 80.536 | -0.7 | 113   | -0.01    |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 39.728 | 0.7  | 115   | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 39.504 | 1.2  | 114   | 0.00     |

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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 | 79.749 | 0.3   | 110   | -0.02    |
| 46   | 1,1'-Biphenyl              | 40.000 | 39.660 | 0.9   | 115   | -0.02    |
| 47   | 2-Chloronaphthalene        | 40.000 | 39.745 | 0.6   | 115   | -0.01    |
| 48   | 2-Nitroaniline             | 40.000 | 41.754 | -4.4  | 121   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 38.787 | 3.0   | 111   | -0.01    |
| 50   | Dimethylphthalate          | 40.000 | 38.846 | 2.9   | 113   | -0.01    |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 39.883 | 0.3   | 113   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 39.594 | 1.0   | 115   | -0.01    |
| 53   | 3-Nitroaniline             | 40.000 | 41.984 | -5.0  | 121   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 43.873 | -9.7  | 120   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 39.583 | 1.0   | 113   | -0.01    |
| 56 P | 4-Nitrophenol              | 40.000 | 44.687 | -11.7 | 127   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 41.233 | -3.1  | 117   | 0.00     |
| 58   | Fluorene                   | 40.000 | 40.119 | -0.3  | 116   | -0.02    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.619 | -9.0  | 125   | -0.01    |
| 60   | Diethylphthalate           | 40.000 | 39.653 | 0.9   | 113   | -0.01    |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 40.008 | -0.0  | 114   | -0.02    |
| 62   | 4-Nitroaniline             | 40.000 | 40.689 | -1.7  | 116   | 0.00     |
| 63   | Azobenzene                 | 40.000 | 39.215 | 2.0   | 112   | -0.02    |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 117   | -0.01    |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 42.422 | -6.1  | 124   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.823 | 0.4   | 116   | -0.02    |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.358 | 1.6   | 113   | -0.02    |
| 68   | Hexachlorobenzene          | 40.000 | 39.742 | 0.6   | 114   | -0.02    |
| 69   | Atrazine                   | 40.000 | 38.744 | 3.1   | 111   | -0.01    |
| 70 C | Pentachlorophenol          | 40.000 | 43.764 | -9.4  | 128   | -0.01    |
| 71   | Phenanthrene               | 40.000 | 39.620 | 1.0   | 114   | -0.02    |
| 72   | Anthracene                 | 40.000 | 39.839 | 0.4   | 115   | -0.02    |
| 73   | Carbazole                  | 40.000 | 41.495 | -3.7  | 119   | -0.01    |
| 74   | Di-n-butylphthalate        | 40.000 | 39.350 | 1.6   | 111   | -0.02    |
| 75 C | Fluoranthene               | 40.000 | 40.807 | -2.0  | 116   | -0.01    |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 116   | -0.02    |
| 77   | Benzidine                  | 40.000 | 38.644 | 3.4   | 113   | -0.02    |
| 78   | Pyrene                     | 40.000 | 39.990 | 0.0   | 116   | -0.02    |
| 79 S | Terphenyl-d14              | 80.000 | 76.501 | 4.4   | 111   | -0.02    |
| 80   | Butylbenzylphthalate       | 40.000 | 39.801 | 0.5   | 113   | -0.02    |
| 81   | Benzo(a)anthracene         | 40.000 | 40.948 | -2.4  | 117   | -0.02    |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 41.396 | -3.5  | 116   | -0.02    |
| 83   | Chrysene                   | 40.000 | 39.767 | 0.6   | 115   | -0.01    |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.344 | -0.9  | 115   | -0.03    |
| 85 c | Di-n-octyl phthalate       | 40.000 | 37.083 | 7.3   | 107   | -0.02    |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 40.376 | -0.9  | 134   | -0.01    |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 125   | -0.02    |

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|      | Compound               | Amount | Calc.  | %Dev | Area | % Dev(min) |
|------|------------------------|--------|--------|------|------|------------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 37.001 | 7.5  | 117  | -0.02      |
| 89   | Benzo(k)fluoranthene   | 40.000 | 40.966 | -2.4 | 120  | -0.02      |
| 90 C | Benzo(a)pyrene         | 40.000 | 39.741 | 0.6  | 124  | -0.02      |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 40.915 | -2.3 | 134  | -0.02      |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 42.229 | -5.6 | 140  | -0.02      |

(#) = Out of Range

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