

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\  
 Data File : BF113842.D  
 Acq On : 19 Apr 2019 4:11  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 19 04:57:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF041819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 18 13:55:51 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   | 82    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 43.344 | -8.4  | 89    | -0.03    |
| 3    | Pyridine                     | 40.000 | 42.620 | -6.5  | 88    | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.811 | -4.5  | 85    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 86.837 | -8.5  | 87    | 0.00     |
| 6    | Aniline                      | 40.000 | 38.159 | 4.6   | 77    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 80.231 | -0.3  | 80    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.903 | -2.3  | 81    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 43.228 | -8.1  | 86    | 0.00     |
| 10 C | Phenol                       | 40.000 | 40.331 | -0.8  | 81    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.045 | -0.1  | 81    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.135 | -2.8  | 83    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.680 | -4.2  | 84    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 41.426 | -3.6  | 83    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 38.153 | 4.6   | 76    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.563 | 3.6   | 78    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.185 | 4.5   | 78    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 35.487 | 11.3  | 72    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.206 | 9.5   | 74    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 39.396 | 1.5   | 78    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 71    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 43.163 | -7.9  | 76    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 88.501 | -10.6 | 77    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 42.787 | -7.0  | 75    | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.867 | 0.3   | 72    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 43.619 | -9.0  | 77    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.416 | 4.0   | 68    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 41.254 | -3.1  | 73    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.358 | -0.9  | 71    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.849 | -4.6  | 74    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 41.721 | -4.3  | 73    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 34.687 | 13.3  | 63    | -0.02    |
| 33   | 4-Chloroaniline              | 40.000 | 40.091 | -0.2  | 71    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 44.339 | -10.8 | 78    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 36.619 | 8.5   | 65    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 37.216 | 7.0   | 66    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.819 | 3.0   | 68    | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 38.789 | 3.0   | 68    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 62    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 44.852 | -12.1 | 69    | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 8.370  | 79.1# | 13    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 91.113 | -13.9 | 69    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 42.245 | -5.6  | 66    | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 43.100 | -7.8  | 66    | 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 | 85.883 | -7.4   | 70    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 43.957 | -9.9   | 67    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 42.767 | -6.9   | 66    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 45.758 | -14.4  | 69    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 43.064 | -7.7   | 66    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 43.634 | -9.1   | 67    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 40.111 | -0.3   | 62    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 40.736 | -1.8   | 63    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 45.794 | -14.5  | 70    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 12.902 | 67.7#  | 9     | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 42.457 | -6.1   | 65    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 42.627 | -6.6   | 64    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 39.755 | 0.6    | 61    | 0.00     |
| 58   | Fluorene                   | 40.000 | 42.700 | -6.8   | 66    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 42.674 | -6.7   | 65    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 42.907 | -7.3   | 66    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 43.683 | -9.2   | 66    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 47.742 | -19.4  | 74    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 40.564 | -1.4   | 62    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 67    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 12.445 | 68.9#  | 12    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 38.690 | 3.3    | 65    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.113 | 2.2    | 65    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 40.671 | -1.7   | 67    | 0.00     |
| 69   | Atrazine                   | 40.000 | 37.822 | 5.4    | 61    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 44.288 | -10.7  | 74    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 41.958 | -4.9   | 69    | 0.00     |
| 72   | Anthracene                 | 40.000 | 42.001 | -5.0   | 69    | 0.00     |
| 73   | Carbazole                  | 40.000 | 43.064 | -7.7   | 71    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 43.799 | -9.5   | 72    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 47.549 | -18.9  | 77    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 91    | 0.00     |
| 77   | Benzidine                  | 40.000 | 56.119 | -40.3# | 103   | 0.00     |
| 78   | Pyrene                     | 40.000 | 34.070 | 14.8   | 79    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 71.641 | 10.4   | 82    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 38.516 | 3.7    | 89    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 39.614 | 1.0    | 89    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 48.690 | -21.7  | 105   | 0.00     |
| 83   | Chrysene                   | 40.000 | 39.543 | 1.1    | 89    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 43.866 | -9.7   | 100   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 50.811 | -27.0# | 115   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 35.526 | 11.2   | 90    | 0.02     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 90    | 0.01     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 41.778 | -4.4 | 90    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 42.477 | -6.2 | 92    | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 40.481 | -1.2 | 90    | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 37.974 | 5.1  | 91    | 0.01     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 34.659 | 13.4 | 86    | 0.02     |

(#) = Out of Range

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