

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\  
 Data File : BF114765.D  
 Acq On : 1 Jun 2019 19:22  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 03 04:29:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 19:08:51 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   | 85    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 41.274 | -3.2  | 85    | -0.04    |
| 3    | Pyridine                     | 40.000 | 39.776 | 0.6   | 82    | -0.03    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 35.236 | 11.9  | 72    | -0.04    |
| 5 S  | 2-Fluorophenol               | 80.000 | 83.130 | -3.9  | 86    | 0.00     |
| 6    | Aniline                      | 40.000 | 38.540 | 3.7   | 78    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 80.601 | -0.8  | 82    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 41.557 | -3.9  | 84    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 43.887 | -9.7  | 86    | 0.00     |
| 10 C | Phenol                       | 40.000 | 39.748 | 0.6   | 81    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.851 | 2.9   | 79    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 42.108 | -5.3  | 86    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 42.586 | -6.5  | 87    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 43.138 | -7.8  | 87    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 39.841 | 0.4   | 80    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.616 | 11.0  | 72    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.719 | 3.2   | 80    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 33.893 | 15.3  | 69    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 35.418 | 11.5  | 73    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.557 | 3.6   | 84    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 79    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 42.826 | -7.1  | 82    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 84.092 | -5.1  | 80    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 41.553 | -3.9  | 77    | 0.00     |
| 25   | Isophorone                   | 40.000 | 37.577 | 6.1   | 73    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 36.252 | 9.4   | 69    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.633 | -1.6  | 77    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.928 | 0.2   | 76    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.695 | -1.7  | 77    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 42.256 | -5.6  | 80    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 41.715 | -4.3  | 81    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 27.026 | 32.4# | 57    | -0.04    |
| 33   | 4-Chloroaniline              | 40.000 | 39.445 | 1.4   | 76    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 42.944 | -7.4  | 81    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 37.533 | 6.2   | 73    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.482 | 3.8   | 74    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 41.005 | -2.5  | 77    | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 40.321 | -0.8  | 75    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 69    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 48.874 | -22.2 | 80    | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 6.540  | 83.7# | 11    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 80.566 | -0.7  | 66    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 41.010 | -2.5  | 69    | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 41.852 | -4.6  | 69    | 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 | 102.154 | -27.7# | 81    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 44.926  | -12.3  | 76    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 44.618  | -11.5  | 74    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 43.448  | -8.6   | 73    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 42.427  | -6.1   | 72    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 44.559  | -11.4  | 74    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 38.743  | 3.1    | 64    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 40.837  | -2.1   | 67    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 44.141  | -10.4  | 74    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 2.352   | 94.1#  | 4     | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 41.665  | -4.2   | 71    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 35.278  | 11.8   | 59    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 36.807  | 8.0    | 61    | 0.00     |
| 58   | Fluorene                   | 40.000 | 44.505  | -11.3  | 72    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.935  | 2.7    | 63    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 41.377  | -3.4   | 67    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 46.507  | -16.3  | 75    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 42.439  | -6.1   | 71    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 38.559  | 3.6    | 64    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000  | 0.0    | 65    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 4.135   | 89.7#  | 7     | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 43.160  | -7.9   | 67    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 41.418  | -3.5   | 64    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 41.640  | -4.1   | 65    | 0.00     |
| 69   | Atrazine                   | 40.000 | 38.094  | 4.8    | 62    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 48.311  | -20.8# | 75    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 40.566  | -1.4   | 68    | 0.00     |
| 72   | Anthracene                 | 40.000 | 40.577  | -1.4   | 68    | 0.00     |
| 73   | Carbazole                  | 40.000 | 42.100  | -5.3   | 69    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 41.992  | -5.0   | 66    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 41.439  | -3.6   | 69    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000  | 0.0    | 81    | 0.00     |
| 77   | Benzidine                  | 40.000 | 42.247  | -5.6   | 81    | 0.00     |
| 78   | Pyrene                     | 40.000 | 34.855  | 12.9   | 71    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 72.899  | 8.9    | 76    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 32.416  | 19.0   | 67    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 37.345  | 6.6    | 75    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 40.826  | -2.1   | 82    | 0.00     |
| 83   | Chrysene                   | 40.000 | 37.417  | 6.5    | 77    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 34.160  | 14.6   | 67    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 36.199  | 9.5    | 72    | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 29.468  | 26.3#  | 61    | 0.00     |
| 87 I | Perylene-d12               | 20.000 | 20.000  | 0.0    | 69    | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 41.778 | -4.4 | 72    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 43.719 | -9.3 | 70    | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 40.363 | -0.9 | 67    | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 36.916 | 7.7  | 62    | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 35.286 | 11.8 | 60    | 0.00     |

(#) = Out of Range

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