

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
 Data File : BF114807.D  
 Acq On : 5 Jun 2019 8:55  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 05 11:39:11 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 04 16:57:15 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  | 75    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 42.900 | -7.2 | 81    | -0.02    |
| 3    | Pyridine                     | 40.000 | 42.378 | -5.9 | 80    | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 42.074 | -5.2 | 80    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 86.540 | -8.2 | 82    | 0.00     |
| 6    | Aniline                      | 40.000 | 42.438 | -6.1 | 78    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 86.550 | -8.2 | 80    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 42.650 | -6.6 | 78    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 42.798 | -7.0 | 79    | 0.00     |
| 10 C | Phenol                       | 40.000 | 43.010 | -7.5 | 81    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.205 | -3.0 | 75    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 42.387 | -6.0 | 78    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 42.480 | -6.2 | 78    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 43.783 | -9.5 | 79    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 43.511 | -8.8 | 78    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 40.826 | -2.1 | 74    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 41.291 | -3.2 | 76    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 40.734 | -1.8 | 75    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.880 | 0.3  | 73    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 43.157 | -7.9 | 80    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 76    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 41.415 | -3.5 | 78    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 82.913 | -3.6 | 77    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 41.876 | -4.7 | 77    | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.096 | 2.3  | 73    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 41.017 | -2.5 | 74    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.822 | -2.1 | 75    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.234 | -0.6 | 74    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.036 | -2.6 | 75    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.570 | -3.9 | 76    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 43.079 | -7.7 | 80    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 36.514 | 8.7  | 61    | -0.02    |
| 33   | 4-Chloroaniline              | 40.000 | 42.452 | -6.1 | 78    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.803 | -2.0 | 74    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 42.823 | -7.1 | 81    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.504 | -3.8 | 77    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 42.244 | -5.6 | 77    | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 42.461 | -6.2 | 78    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 76    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.850 | -4.6 | 77    | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 37.502 | 6.2  | 68    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 85.517 | -6.9 | 79    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 40.988 | -2.5 | 76    | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 41.297 | -3.2 | 76    | 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 | 88.564 | -10.7 | 78    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 42.577 | -6.4  | 79    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 42.262 | -5.7  | 77    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 42.534 | -6.3  | 80    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 43.315 | -8.3  | 81    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 41.533 | -3.8  | 78    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 41.684 | -4.2  | 77    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 42.077 | -5.2  | 78    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 44.207 | -10.5 | 83    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 38.731 | 3.2   | 71    | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 41.423 | -3.6  | 80    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 43.925 | -9.8  | 82    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 44.483 | -11.2 | 80    | 0.00     |
| 58   | Fluorene                   | 40.000 | 47.558 | -18.9 | 83    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 42.029 | -5.1  | 77    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 41.617 | -4.0  | 77    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 39.334 | 1.7   | 80    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 44.421 | -11.1 | 83    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 42.289 | -5.7  | 78    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 80    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 38.745 | 3.1   | 75    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 40.329 | -0.8  | 79    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.408 | 1.5   | 76    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 39.695 | 0.8   | 77    | 0.00     |
| 69   | Atrazine                   | 40.000 | 42.102 | -5.3  | 82    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 41.665 | -4.2  | 80    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 42.580 | -6.4  | 85    | 0.00     |
| 72   | Anthracene                 | 40.000 | 40.688 | -1.7  | 83    | 0.00     |
| 73   | Carbazole                  | 40.000 | 43.646 | -9.1  | 87    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 39.238 | 1.9   | 80    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 41.934 | -4.8  | 89    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 94    | 0.00     |
| 77   | Benzidine                  | 40.000 | 42.909 | -7.3  | 98    | 0.00     |
| 78   | Pyrene                     | 40.000 | 38.437 | 3.9   | 88    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 74.570 | 6.8   | 86    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 36.151 | 9.6   | 83    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 39.014 | 2.5   | 90    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 39.356 | 1.6   | 90    | 0.00     |
| 83   | Chrysene                   | 40.000 | 38.648 | 3.4   | 91    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 35.066 | 12.3  | 78    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 35.402 | 11.5  | 81    | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 37.227 | 6.9   | 91    | 0.00     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 91    | 0.00     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 40.102 | -0.3 | 95    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 40.421 | -1.1 | 84    | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 41.257 | -3.1 | 90    | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 40.392 | -1.0 | 89    | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 40.311 | -0.8 | 90    | 0.00     |

(#) = Out of Range

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