

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121716\  
 Data File : BF091718.D  
 Acq On : 17 Dec 2016 16:39  
 Operator : UM/SJ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF121716

Quant Time: Dec 17 23:57:25 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 17 22:53:54 2016  
 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  | 111   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 37.953 | 5.1  | 100   | 0.00     |
| 3    | Pyridine                     | 40.000 | 38.003 | 5.0  | 95    | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 38.263 | 4.3  | 99    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 75.767 | 5.3  | 100   | 0.00     |
| 6    | Aniline                      | 40.000 | 37.099 | 7.3  | 98    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 74.423 | 7.0  | 102   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 37.620 | 6.0  | 101   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 39.823 | 0.4  | 101   | 0.00     |
| 10 C | Phenol                       | 40.000 | 39.456 | 1.4  | 105   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 36.151 | 9.6  | 101   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 37.011 | 7.5  | 99    | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 35.623 | 10.9 | 98    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.242 | -0.6 | 102   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 38.041 | 4.9  | 99    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.367 | 4.1  | 103   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 37.138 | 7.2  | 100   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.465 | 1.3  | 101   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 35.737 | 10.7 | 100   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.814 | 3.0  | 103   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 108   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 37.023 | 7.4  | 99    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 82.736 | -3.4 | 101   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 35.015 | 12.5 | 96    | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.169 | 2.1  | 100   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 39.830 | 0.4  | 101   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.498 | 3.8  | 100   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 37.263 | 6.8  | 102   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 37.239 | 6.9  | 95    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 38.814 | 3.0  | 101   | -0.01    |
| 31   | Naphthalene                  | 40.000 | 36.149 | 9.6  | 97    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 43.875 | -9.7 | 101   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.313 | 1.7  | 101   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.424 | 3.9  | 102   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 40.791 | -2.0 | 99    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 39.914 | 0.2  | 102   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.424 | -1.1 | 104   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 109   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 37.212 | 7.0  | 98    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 42.091 | -5.2 | 99    | -0.01    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 72.094 | 9.9  | 100   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 38.066 | 4.8  | 98    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 38.354 | 4.1  | 101   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 76.546 | 4.3  | 103   | 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   | 1,1'-Biphenyl              | 40.000 | 38.735 | 3.2   | 98    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.731 | 3.2   | 98    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 35.977 | 10.1  | 99    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.390 | 4.0   | 102   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 39.335 | 1.7   | 99    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 42.215 | -5.5  | 101   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 38.162 | 4.6   | 101   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 35.098 | 12.3  | 93    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 39.692 | 0.8   | 99    | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 39.912 | 0.2   | 100   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 37.897 | 5.3   | 100   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 42.593 | -6.5  | 103   | 0.00     |
| 57   | Fluorene                   | 40.000 | 41.296 | -3.2  | 100   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 37.555 | 6.1   | 101   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 36.201 | 9.5   | 97    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 35.966 | 10.1  | 97    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 37.138 | 7.2   | 101   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 36.299 | 9.3   | 99    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 107   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 44.481 | -11.2 | 98    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.903 | 0.2   | 102   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 39.250 | 1.9   | 104   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 41.853 | -4.6  | 102   | 0.00     |
| 68   | Atrazine                   | 40.000 | 36.435 | 8.9   | 93    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 43.820 | -9.6  | 95    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 42.235 | -5.6  | 99    | 0.00     |
| 71   | Anthracene                 | 40.000 | 35.036 | 12.4  | 101   | 0.00     |
| 72   | Carbazole                  | 40.000 | 41.616 | -4.0  | 103   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 37.496 | 6.3   | 100   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 37.016 | 7.5   | 99    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 109   | 0.00     |
| 76   | Benzidine                  | 40.000 | 39.579 | 1.1   | 97    | 0.00     |
| 77   | Pyrene                     | 40.000 | 37.137 | 7.2   | 98    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 77.443 | 3.2   | 96    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 41.072 | -2.7  | 105   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 39.229 | 1.9   | 100   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 37.645 | 5.9   | 93    | 0.00     |
| 82   | Chrysene                   | 40.000 | 40.816 | -2.0  | 100   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.406 | 6.5   | 100   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 41.654 | -4.1  | 101   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 40.316 | -0.8  | 98    | -0.01    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 108   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 42.929 | -7.3  | 102   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 32.638 | 18.4 | 98    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 36.733 | 8.2  | 99    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 37.634 | 5.9  | 98    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 37.548 | 6.1  | 96    | -0.01    |

(#) = Out of Range

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