

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072716\  
 Data File : BF089328.D  
 Acq On : 27 Jul 2016 14:51  
 Operator : UM/SJ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF072716

Quant Time: Jul 27 18:36:42 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 27 17:12:17 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   | 107   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 39.672 | 0.8   | 110   | 0.00     |
| 3    | Pyridine                     | 40.000 | 44.059 | -10.1 | 110   | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 40.482 | -1.2  | 110   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 85.344 | -6.7  | 110   | 0.00     |
| 6    | Aniline                      | 40.000 | 42.908 | -7.3  | 107   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 84.867 | -6.1  | 108   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 43.468 | -8.7  | 107   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 40.166 | -0.4  | 105   | 0.00     |
| 10 C | Phenol                       | 40.000 | 44.451 | -11.1 | 109   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.907 | -2.3  | 109   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 42.399 | -6.0  | 107   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.747 | -4.4  | 105   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.616 | 1.0   | 109   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 44.508 | -11.3 | 115   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 41.888 | -4.7  | 106   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 40.423 | -1.1  | 106   | 0.01     |
| 18   | Hexachloroethane             | 40.000 | 40.559 | -1.4  | 106   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 43.895 | -9.7  | 110   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 43.047 | -7.6  | 109   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 106   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 43.128 | -7.8  | 106   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 85.017 | -6.3  | 107   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 41.318 | -3.3  | 109   | 0.00     |
| 25   | Isophorone                   | 40.000 | 42.051 | -5.1  | 108   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 40.106 | -0.3  | 106   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 42.214 | -5.5  | 109   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 41.553 | -3.9  | 104   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 45.899 | -14.7 | 113   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 42.220 | -5.5  | 109   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.666 | 0.8   | 107   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 42.652 | -6.6  | 110   | 0.01     |
| 33   | 4-Chloroaniline              | 40.000 | 41.061 | -2.7  | 112   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.524 | -3.8  | 104   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 41.209 | -3.0  | 106   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 44.086 | -10.2 | 106   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 41.672 | -4.2  | 109   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 105   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.164 | 2.1   | 108   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 40.176 | -0.4  | 108   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 89.534 | -11.9 | 113   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 43.488 | -8.7  | 109   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 40.775 | -1.9  | 107   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 85.699 | -7.1  | 108   | 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 | 38.289 | 4.3   | 107   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.835 | -2.1  | 109   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 42.683 | -6.7  | 111   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 42.343 | -5.9  | 106   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 42.731 | -6.8  | 110   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 43.915 | -9.8  | 106   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 41.003 | -2.5  | 104   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 45.364 | -13.4 | 117   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 40.907 | -2.3  | 116   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 42.347 | -5.9  | 112   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 41.283 | -3.2  | 114   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 41.481 | -3.7  | 104   | 0.00     |
| 57   | Fluorene                   | 40.000 | 42.784 | -7.0  | 110   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.269 | -3.2  | 97    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 40.391 | -1.0  | 112   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.308 | -0.8  | 110   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 43.685 | -9.2  | 111   | 0.01     |
| 62   | Azobenzene                 | 40.000 | 39.345 | 1.6   | 109   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 110   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 41.949 | -4.9  | 110   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.858 | 0.4   | 112   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 43.768 | -9.4  | 112   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 37.574 | 6.1   | 106   | 0.00     |
| 68   | Atrazine                   | 40.000 | 41.754 | -4.4  | 105   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 39.911 | 0.2   | 117   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 41.314 | -3.3  | 109   | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.715 | 3.2   | 111   | 0.01     |
| 72   | Carbazole                  | 40.000 | 40.171 | -0.4  | 111   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 40.573 | -1.4  | 115   | 0.01     |
| 74 C | Fluoranthene               | 40.000 | 41.585 | -4.0  | 107   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 114   | 0.00     |
| 76   | Benzidine                  | 40.000 | 40.624 | -1.6  | 116   | 0.00     |
| 77   | Pyrene                     | 40.000 | 39.920 | 0.2   | 116   | 0.01     |
| 78 S | Terphenyl-d14              | 80.000 | 74.279 | 7.2   | 110   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 40.514 | -1.3  | 106   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 40.490 | -1.2  | 115   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 44.362 | -10.9 | 125   | 0.00     |
| 82   | Chrysene                   | 40.000 | 39.135 | 2.2   | 118   | 0.01     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.087 | -0.2  | 114   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 43.485 | -8.7  | 126   | 0.01     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.604 | -6.5  | 128   | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 131   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 33.367 | 16.6  | 118   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 44.486 | -11.2 | 131   | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.713 | 0.7   | 128   | 0.01     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.266 | -3.2  | 134   | 0.01     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 39.053 | 2.4   | 124   | 0.01     |

(#) = Out of Range

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