

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070219\  
 Data File : BF115350.D  
 Acq On : 2 Jul 2019 8:23  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 02 11:58:40 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 05:26:43 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   | 109   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 34.903 | 12.7  | 92    | 0.01     |
| 3    | Pyridine                     | 40.000 | 34.576 | 13.6  | 92    | 0.02     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 32.587 | 18.5  | 87    | 0.02     |
| 5 S  | 2-Fluorophenol               | 80.000 | 72.719 | 9.1   | 95    | 0.00     |
| 6    | Aniline                      | 40.000 | 33.767 | 15.6  | 88    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 72.008 | 10.0  | 94    | 0.01     |
| 8    | 2-Chlorophenol               | 40.000 | 37.731 | 5.7   | 98    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 34.241 | 14.4  | 87    | 0.00     |
| 10 C | Phenol                       | 40.000 | 34.347 | 14.1  | 90    | 0.01     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 36.716 | 8.2   | 97    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 37.966 | 5.1   | 100   | 0.01     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.122 | 4.7   | 99    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.199 | 4.5   | 99    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 26.533 | 33.7# | 68    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.623 | 10.9  | 94    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 40.270 | -0.7  | 107   | 0.01     |
| 18   | Hexachloroethane             | 40.000 | 38.054 | 4.9   | 100   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 33.717 | 15.7  | 90    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.763 | 3.1   | 102   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 106   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 38.730 | 3.2   | 100   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 77.164 | 3.5   | 99    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 38.226 | 4.4   | 98    | 0.00     |
| 25   | Isophorone                   | 40.000 | 35.475 | 11.3  | 93    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 43.017 | -7.5  | 110   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 36.619 | 8.5   | 94    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 37.305 | 6.7   | 96    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.286 | 1.8   | 101   | 0.01     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.503 | 1.2   | 100   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 38.591 | 3.5   | 98    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 34.124 | 14.7  | 103   | 0.02     |
| 33   | 4-Chloroaniline              | 40.000 | 37.884 | 5.3   | 97    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.445 | -1.1  | 103   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 36.311 | 9.2   | 96    | 0.02     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.864 | 2.8   | 100   | 0.01     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.168 | 4.6   | 97    | 0.01     |
| 38   | 1-Methylnaphthalene          | 40.000 | 38.286 | 4.3   | 97    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 105   | 0.01     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.375 | -3.4  | 102   | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 33.859 | 15.4  | 85    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 83.974 | -5.0  | 105   | 0.01     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 38.840 | 2.9   | 97    | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 41.345 | -3.4  | 106   | 0.01     |

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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 | 79.174 | 1.0   | 97    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 38.155 | 4.6   | 97    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 39.448 | 1.4   | 98    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 40.386 | -1.0  | 101   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 38.709 | 3.2   | 96    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 39.920 | 0.2   | 99    | 0.01     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 39.583 | 1.0   | 100   | 0.01     |
| 52 C | Acenaphthene               | 40.000 | 36.018 | 10.0  | 89    | 0.01     |
| 53   | 3-Nitroaniline             | 40.000 | 38.432 | 3.9   | 96    | 0.01     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 41.517 | -3.8  | 113   | 0.01     |
| 55   | Dibenzofuran               | 40.000 | 37.346 | 6.6   | 95    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 34.608 | 13.5  | 85    | 0.02     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 40.252 | -0.6  | 100   | 0.01     |
| 58   | Fluorene                   | 40.000 | 38.955 | 2.6   | 96    | 0.01     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.708 | -4.3  | 104   | 0.01     |
| 60   | Diethylphthalate           | 40.000 | 38.002 | 5.0   | 96    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 40.607 | -1.5  | 99    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 39.643 | 0.9   | 100   | 0.01     |
| 63   | Azobenzene                 | 40.000 | 37.013 | 7.5   | 93    | 0.01     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 105   | 0.01     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 41.949 | -4.9  | 111   | 0.02     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 37.892 | 5.3   | 95    | 0.01     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.538 | 1.2   | 99    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 39.640 | 0.9   | 100   | 0.01     |
| 69   | Atrazine                   | 40.000 | 39.141 | 2.1   | 98    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 37.265 | 6.8   | 92    | 0.01     |
| 71   | Phenanthrene               | 40.000 | 37.010 | 7.5   | 96    | 0.00     |
| 72   | Anthracene                 | 40.000 | 37.411 | 6.5   | 96    | 0.01     |
| 73   | Carbazole                  | 40.000 | 38.432 | 3.9   | 96    | 0.01     |
| 74   | Di-n-butylphthalate        | 40.000 | 39.369 | 1.6   | 98    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 39.162 | 2.1   | 97    | 0.01     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 93    | 0.01     |
| 77   | Benzidine                  | 40.000 | 38.909 | 2.7   | 87    | 0.01     |
| 78   | Pyrene                     | 40.000 | 42.014 | -5.0  | 95    | 0.01     |
| 79 S | Terphenyl-d14              | 80.000 | 85.855 | -7.3  | 97    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 44.909 | -12.3 | 102   | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 41.680 | -4.2  | 94    | 0.01     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 44.701 | -11.8 | 98    | 0.01     |
| 83   | Chrysene                   | 40.000 | 44.127 | -10.3 | 100   | 0.02     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 42.900 | -7.2  | 97    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 45.893 | -14.7 | 103   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 44.608 | -11.5 | 98    | 0.03     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 107   | 0.01     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 36.872 | 7.8  | 92    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 38.747 | 3.1  | 107   | 0.01     |
| 90 C | Benzo(a)pyrene         | 40.000 | 38.493 | 3.8  | 98    | 0.01     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 39.372 | 1.6  | 97    | 0.03     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 40.376 | -0.9 | 99    | 0.03     |

(#) = Out of Range

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