

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080319\  
 Data File : BF115970.D  
 Acq On : 3 Aug 2019 10:07  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 05 01:14:37 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 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                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 120   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.604 | 0.581 | 3.8  | 118   | 0.00     |
| 3    | Pyridine                    | 1.686 | 1.549 | 8.1  | 111   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.665 | 0.653 | 1.8  | 119   | 0.01     |
| 5 S  | 2-Fluorophenol              | 1.195 | 1.199 | -0.3 | 118   | 0.00     |
| 6    | Aniline                     | 2.159 | 2.116 | 2.0  | 115   | 0.00     |
| 7 S  | Phenol-d6                   | 1.507 | 1.522 | -1.0 | 120   | 0.00     |
| 8    | 2-Chlorophenol              | 1.321 | 1.375 | -4.1 | 123   | 0.00     |
| 9    | Benzaldehyde                | 1.040 | 0.976 | 6.2  | 111   | 0.00     |
| 10 C | Phenol                      | 1.775 | 1.787 | -0.7 | 120   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.305 | 1.373 | -5.2 | 125   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.527 | 1.521 | 0.4  | 118   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.529 | 1.527 | 0.1  | 118   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.408 | 1.412 | -0.3 | 116   | 0.00     |
| 15   | Benzyl Alcohol              | 1.144 | 1.205 | -5.3 | 122   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.780 | 1.843 | -3.5 | 121   | 0.00     |
| 17   | 2-Methylphenol              | 1.119 | 1.153 | -3.0 | 125   | 0.00     |
| 18   | Hexachloroethane            | 0.563 | 0.575 | -2.1 | 120   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.934 | 0.973 | -4.2 | 125   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.324 | 1.343 | -1.4 | 118   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 126   | 0.00     |
| 22   | Acetophenone                | 0.439 | 0.425 | 3.2  | 121   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.346 | 0.337 | 2.6  | 121   | 0.00     |
| 24   | Nitrobenzene                | 0.374 | 0.371 | 0.8  | 124   | 0.00     |
| 25   | Isophorone                  | 0.663 | 0.673 | -1.5 | 127   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.176 | 0.184 | -4.5 | 130   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.265 | 0.258 | 2.6  | 121   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.411 | 0.419 | -1.9 | 128   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.280 | 0.282 | -0.7 | 123   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.319 | 0.316 | 0.9  | 122   | 0.00     |
| 31   | Naphthalene                 | 0.941 | 0.937 | 0.4  | 122   | 0.00     |
| 32   | Benzoic acid                | 0.187 | 0.153 | 18.2 | 112   | 0.02     |
| 33   | 4-Chloroaniline             | 0.421 | 0.417 | 1.0  | 123   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.184 | 0.183 | 0.5  | 123   | 0.00     |
| 35   | Caprolactam                 | 0.091 | 0.092 | -1.1 | 125   | 0.02     |
| 36 C | 4-Chloro-3-methylphenol     | 0.291 | 0.301 | -3.4 | 129   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.620 | 0.618 | 0.3  | 122   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.586 | 0.592 | -1.0 | 125   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 119   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.535 | 0.566 | -5.8 | 124   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.209 | 0.185 | 11.5 | 102   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.194 | 0.206 | -6.2 | 125   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.368 | 0.380 | -3.3 | 121   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.380 | 0.396 | -4.2 | 122   | 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                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.068 | 1.090 | -2.1  | 119   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.412 | 1.468 | -4.0  | 122   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.175 | 1.218 | -3.7  | 122   | 0.00     |
| 48   | 2-Nitroaniline             | 0.388 | 0.413 | -6.4  | 126   | 0.00     |
| 49   | Acenaphthylene             | 1.715 | 1.830 | -6.7  | 124   | 0.00     |
| 50   | Dimethylphthalate          | 1.362 | 1.500 | -10.1 | 130   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.296 | 0.324 | -9.5  | 129   | 0.00     |
| 52 C | Acenaphthene               | 1.052 | 1.096 | -4.2  | 121   | 0.00     |
| 53   | 3-Nitroaniline             | 0.366 | 0.383 | -4.6  | 124   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.126 | 0.126 | 0.0   | 116   | 0.01     |
| 55   | Dibenzofuran               | 1.530 | 1.605 | -4.9  | 121   | 0.00     |
| 56 P | 4-Nitrophenol              | 0.234 | 0.228 | 2.6   | 114   | 0.01     |
| 57   | 2,4-Dinitrotoluene         | 0.394 | 0.427 | -8.4  | 126   | 0.00     |
| 58   | Fluorene                   | 1.177 | 1.265 | -7.5  | 125   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.320 | 0.338 | -5.6  | 125   | 0.00     |
| 60   | Diethylphthalate           | 1.271 | 1.394 | -9.7  | 128   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.596 | 0.642 | -7.7  | 124   | 0.00     |
| 62   | 4-Nitroaniline             | 0.378 | 0.394 | -4.2  | 123   | 0.01     |
| 63   | Azobenzene                 | 1.308 | 1.438 | -9.9  | 129   | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 131   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.106 | 0.104 | 1.9   | 124   | 0.01     |
| 66 c | n-Nitrosodiphenylamine     | 0.602 | 0.591 | 1.8   | 128   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.214 | 0.214 | 0.0   | 129   | 0.00     |
| 68   | Hexachlorobenzene          | 0.248 | 0.239 | 3.6   | 125   | 0.00     |
| 69   | Atrazine                   | 0.198 | 0.165 | 16.7  | 108   | 0.00     |
| 70 C | Pentachlorophenol          | 0.120 | 0.105 | 12.5  | 111   | 0.00     |
| 71   | Phenanthrene               | 1.022 | 0.984 | 3.7   | 124   | 0.00     |
| 72   | Anthracene                 | 1.035 | 1.000 | 3.4   | 126   | 0.00     |
| 73   | Carbazole                  | 0.939 | 0.916 | 2.4   | 126   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.095 | 1.134 | -3.6  | 130   | 0.00     |
| 75 C | Fluoranthene               | 1.070 | 1.034 | 3.4   | 125   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 122   | 0.00     |
| 77   | Benzidine                  | 0.676 | 0.674 | 0.3   | 113   | 0.00     |
| 78   | Pyrene                     | 1.508 | 1.512 | -0.3  | 124   | 0.00     |
| 79 S | Terphenyl-d14              | 0.949 | 0.945 | 0.4   | 123   | 0.00     |
| 80   | Butylbenzylphthalate       | 0.638 | 0.692 | -8.5  | 130   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.278 | 1.297 | -1.5  | 123   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.444 | 0.437 | 1.6   | 116   | 0.00     |
| 83   | Chrysene                   | 1.241 | 1.238 | 0.2   | 121   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.829 | 0.941 | -13.5 | 135   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.316 | 1.433 | -8.9  | 128   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.042 | 0.999 | 4.1   | 122   | 0.02     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 119   | 0.01     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.156 | 1.174 | -1.6 | 115   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.126 | 1.114 | 1.1  | 122   | 0.01     |
| 90 C | Benzo(a)pyrene         | 1.034 | 1.033 | 0.1  | 119   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 0.895 | 0.879 | 1.8  | 121   | 0.02     |
| 92   | Benzo(g,h,i)perylene   | 0.879 | 0.846 | 3.8  | 122   | 0.02     |

(#) = Out of Range

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