

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072619\  
 Data File : BF115781.D  
 Acq On : 26 Jul 2019 10:43  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 26 18:46:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 25 13:16:07 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  | 91    | 0.01     |
| 2    | 1,4-Dioxane                 | 0.610 | 0.562 | 7.9  | 87    | 0.02     |
| 3    | Pyridine                    | 1.655 | 1.560 | 5.7  | 90    | 0.03     |
| 4    | n-Nitrosodimethylamine      | 0.600 | 0.632 | -5.3 | 99    | 0.03     |
| 5 S  | 2-Fluorophenol              | 1.223 | 1.175 | 3.9  | 90    | 0.01     |
| 6    | Aniline                     | 2.159 | 2.116 | 2.0  | 92    | 0.02     |
| 7 S  | Phenol-d6                   | 1.551 | 1.523 | 1.8  | 92    | 0.02     |
| 8    | 2-Chlorophenol              | 1.406 | 1.364 | 3.0  | 90    | 0.01     |
| 9    | Benzaldehyde                | 0.970 | 0.961 | 0.9  | 100   | 0.01     |
| 10 C | Phenol                      | 1.801 | 1.771 | 1.7  | 91    | 0.01     |
| 11   | bis(2-Chloroethyl)ether     | 1.371 | 1.353 | 1.3  | 93    | 0.01     |
| 12   | 1,3-Dichlorobenzene         | 1.581 | 1.516 | 4.1  | 89    | 0.01     |
| 13 C | 1,4-Dichlorobenzene         | 1.577 | 1.515 | 3.9  | 89    | 0.01     |
| 14   | 1,2-Dichlorobenzene         | 1.442 | 1.404 | 2.6  | 90    | 0.01     |
| 15   | Benzyl Alcohol              | 1.231 | 1.200 | 2.5  | 90    | 0.01     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.805 | 1.838 | -1.8 | 94    | 0.01     |
| 17   | 2-Methylphenol              | 1.211 | 1.168 | 3.6  | 91    | 0.01     |
| 18   | Hexachloroethane            | 0.585 | 0.568 | 2.9  | 90    | 0.01     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.012 | 0.967 | 4.4  | 91    | 0.02     |
| 20   | 3+4-Methylphenols           | 1.439 | 1.340 | 6.9  | 89    | 0.01     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 95    | 0.01     |
| 22   | Acetophenone                | 0.452 | 0.424 | 6.2  | 91    | 0.02     |
| 23 S | Nitrobenzene-d5             | 0.344 | 0.333 | 3.2  | 94    | 0.01     |
| 24   | Nitrobenzene                | 0.371 | 0.365 | 1.6  | 96    | 0.01     |
| 25   | Isophorone                  | 0.688 | 0.658 | 4.4  | 95    | 0.02     |
| 26 C | 2-Nitrophenol               | 0.191 | 0.183 | 4.2  | 92    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.286 | 0.256 | 10.5 | 86    | 0.01     |
| 28   | bis(2-Chloroethoxy)methane  | 0.422 | 0.412 | 2.4  | 94    | 0.01     |
| 29 C | 2,4-Dichlorophenol          | 0.297 | 0.284 | 4.4  | 92    | 0.01     |
| 30   | 1,2,4-Trichlorobenzene      | 0.336 | 0.316 | 6.0  | 90    | 0.01     |
| 31   | Naphthalene                 | 0.969 | 0.922 | 4.9  | 91    | 0.01     |
| 32   | Benzoic acid                | 0.234 | 0.197 | 15.8 | 96    | 0.04     |
| 33   | 4-Chloroaniline             | 0.429 | 0.416 | 3.0  | 95    | 0.01     |
| 34 C | Hexachlorobutadiene         | 0.193 | 0.185 | 4.1  | 92    | 0.01     |
| 35   | Caprolactam                 | 0.092 | 0.092 | 0.0  | 99    | 0.03     |
| 36 C | 4-Chloro-3-methylphenol     | 0.308 | 0.304 | 1.3  | 97    | 0.02     |
| 37   | 2-Methylnaphthalene         | 0.642 | 0.619 | 3.6  | 94    | 0.01     |
| 38   | 1-Methylnaphthalene         | 0.610 | 0.591 | 3.1  | 94    | 0.01     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 100   | 0.01     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.602 | 0.558 | 7.3  | 94    | 0.02     |
| 41 P | Hexachlorocyclopentadiene   | 0.344 | 0.351 | -2.0 | 101   | 0.02     |
| 42 S | 2,4,6-Tribromophenol        | 0.233 | 0.211 | 9.4  | 94    | 0.02     |
| 43 C | 2,4,6-Trichlorophenol       | 0.440 | 0.389 | 11.6 | 90    | 0.01     |
| 44   | 2,4,5-Trichlorophenol       | 0.451 | 0.412 | 8.6  | 92    | 0.02     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|------|----------------------------|-------|-------|------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.143 | 1.083 | 5.2  | 92    | 0.02     |
| 46   | 1,1'-Biphenyl              | 1.564 | 1.454 | 7.0  | 95    | 0.02     |
| 47   | 2-Chloronaphthalene        | 1.302 | 1.211 | 7.0  | 94    | 0.01     |
| 48   | 2-Nitroaniline             | 0.403 | 0.400 | 0.7  | 103   | 0.01     |
| 49   | Acenaphthylene             | 1.929 | 1.803 | 6.5  | 95    | 0.02     |
| 50   | Dimethylphthalate          | 1.505 | 1.461 | 2.9  | 101   | 0.02     |
| 51   | 2,6-Dinitrotoluene         | 0.342 | 0.320 | 6.4  | 96    | 0.02     |
| 52 C | Acenaphthene               | 1.245 | 1.087 | 12.7 | 89    | 0.01     |
| 53   | 3-Nitroaniline             | 0.391 | 0.381 | 2.6  | 100   | 0.02     |
| 54 P | 2,4-Dinitrophenol          | 0.176 | 0.155 | 11.9 | 89    | 0.02     |
| 55   | Dibenzofuran               | 1.769 | 1.614 | 8.8  | 97    | 0.01     |
| 56 P | 4-Nitrophenol              | 0.298 | 0.260 | 12.8 | 89    | 0.02     |
| 57   | 2,4-Dinitrotoluene         | 0.443 | 0.429 | 3.2  | 100   | 0.01     |
| 58   | Fluorene                   | 1.264 | 1.213 | 4.0  | 99    | 0.02     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.377 | 0.349 | 7.4  | 95    | 0.02     |
| 60   | Diethylphthalate           | 1.410 | 1.377 | 2.3  | 101   | 0.01     |
| 61   | 4-Chlorophenyl-phenylether | 0.701 | 0.630 | 10.1 | 99    | 0.02     |
| 62   | 4-Nitroaniline             | 0.375 | 0.389 | -3.7 | 107   | 0.02     |
| 63   | Azobenzene                 | 1.368 | 1.391 | -1.7 | 105   | 0.02     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 104   | 0.02     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.122 | 0.111 | 9.0  | 94    | 0.02     |
| 66 c | n-Nitrosodiphenylamine     | 0.622 | 0.582 | 6.4  | 99    | 0.02     |
| 67   | 4-Bromophenyl-phenylether  | 0.229 | 0.210 | 8.3  | 96    | 0.02     |
| 68   | Hexachlorobenzene          | 0.261 | 0.240 | 8.0  | 98    | 0.02     |
| 69   | Atrazine                   | 0.204 | 0.177 | 13.2 | 97    | 0.02     |
| 70 C | Pentachlorophenol          | 0.160 | 0.146 | 8.8  | 94    | 0.01     |
| 71   | Phenanthrene               | 1.025 | 0.965 | 5.9  | 99    | 0.02     |
| 72   | Anthracene                 | 1.059 | 0.976 | 7.8  | 100   | 0.02     |
| 73   | Carbazole                  | 0.929 | 0.906 | 2.5  | 103   | 0.02     |
| 74   | Di-n-butylphthalate        | 1.144 | 1.120 | 2.1  | 106   | 0.01     |
| 75 C | Fluoranthene               | 1.083 | 1.030 | 4.9  | 103   | 0.02     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 118   | 0.02     |
| 77   | Benzidine                  | 0.709 | 0.686 | 3.2  | 117   | 0.01     |
| 78   | Pyrene                     | 1.694 | 1.489 | 12.1 | 106   | 0.02     |
| 79 S | Terphenyl-d14              | 1.084 | 0.922 | 14.9 | 104   | 0.02     |
| 80   | Butylbenzylphthalate       | 0.722 | 0.690 | 4.4  | 115   | 0.01     |
| 81   | Benzo(a)anthracene         | 1.318 | 1.288 | 2.3  | 119   | 0.02     |
| 82   | 3,3'-Dichlorobenzidine     | 0.468 | 0.454 | 3.0  | 113   | 0.02     |
| 83   | Chrysene                   | 1.323 | 1.224 | 7.5  | 112   | 0.01     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.895 | 0.924 | -3.2 | 123   | 0.01     |
| 85 c | Di-n-octyl phthalate       | 1.424 | 1.418 | 0.4  | 119   | 0.01     |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.124 | 1.045 | 7.0  | 117   | 0.03     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0  | 126   | 0.02     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.288 | 1.160 | 9.9  | 123   | 0.02     |
| 89   | Benzo(k)fluoranthene   | 1.148 | 1.095 | 4.6  | 119   | 0.02     |
| 90 C | Benzo(a)pyrene         | 1.107 | 1.029 | 7.0  | 120   | 0.02     |
| 91   | Dibenzo(a,h)anthracene | 0.972 | 0.898 | 7.6  | 118   | 0.04     |
| 92   | Benzo(q,h,i)perylene   | 0.969 | 0.844 | 12.9 | 113   | 0.04     |

(#) = Out of Range

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