

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG103015\  
 Data File : BG019428.D  
 Acq On : 30 Oct 2015 9:55  
 Operator : UM/NP  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02021

Quant Time: Oct 31 00:25:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG102815.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 30 04:25:10 2015  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 152#  | 0.00     |
| 2    | 1,4-Dioxane                 | 0.476 | 0.460 | 3.4    | 180#  | 0.00     |
| 3 S  | 1,4-Dioxane-d8              | 0.418 | 0.382 | 8.6    | 160#  | 0.00     |
| 4    | Benzaldehyde                | 1.194 | 1.466 | -22.8# | 162#  | 0.01     |
| 5 S  | Phenol-d5                   | 1.836 | 2.080 | -13.3  | 181#  | 0.01     |
| 6    | Phenol                      | 1.956 | 2.211 | -13.0  | 175#  | 0.00     |
| 7 S  | Bis-(2-Chloroethyl)ether-d8 | 1.164 | 1.262 | -8.4   | 170#  | 0.00     |
| 8    | Bis(2-Chloroethyl)ether     | 1.344 | 1.450 | -7.9   | 166#  | 0.00     |
| 9 S  | 2-Chlorophenol-d4           | 1.146 | 1.265 | -10.4  | 174#  | 0.00     |
| 10   | 2-Chlorophenol              | 1.180 | 1.298 | -10.0  | 173#  | 0.01     |
| 11   | 2-Methylphenol              | 1.446 | 1.532 | -5.9   | 168#  | 0.01     |
| 12   | 2,2'-oxybis(1-Chloropropane | 1.077 | 1.159 | -7.6   | 171#  | 0.00     |
| 13 S | 4-Methylphenol-d8           | 1.462 | 1.624 | -11.1  | 172#  | 0.00     |
| 14   | Acetophenone                | 2.455 | 2.591 | -5.5   | 160#  | 0.00     |
| 15 P | N-Nitroso-di-n-propylamine  | 1.609 | 1.611 | -0.1   | 162#  | 0.01     |
| 16   | 4-Methylphenol              | 1.580 | 1.766 | -11.8  | 173#  | 0.00     |
| 17   | Hexachloroethane            | 0.616 | 0.547 | 11.2   | 154#  | 0.01     |
| 18 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 163#  | 0.01     |
| 19 S | Nitrobenzene-d5             | 0.147 | 0.150 | -2.0   | 171#  | 0.01     |
| 20   | Nitrobenzene                | 0.575 | 0.585 | -1.7   | 169#  | 0.00     |
| 21   | Isophorone                  | 1.041 | 0.937 | 10.0   | 152#  | 0.00     |
| 22 S | 2-Nitrophenol-d4            | 0.174 | 0.179 | -2.9   | 165#  | 0.01     |
| 23 C | 2-Nitrophenol               | 0.198 | 0.197 | 0.5    | 168#  | 0.01     |
| 24   | 2,4-Dimethylphenol          | 0.518 | 0.514 | 0.8    | 166#  | 0.00     |
| 25   | Bis(2-Chloroethoxy)methane  | 0.493 | 0.500 | -1.4   | 168#  | 0.01     |
| 26 S | 2,4-Dichlorophenol-d3       | 0.379 | 0.406 | -7.1   | 176#  | 0.01     |
| 27 C | 2,4-Dichlorophenol          | 0.362 | 0.362 | 0.0    | 159#  | 0.00     |
| 28   | Naphthalene                 | 1.001 | 0.995 | 0.6    | 163#  | 0.01     |
| 29 S | 4-Chloroaniline-d4          | 0.383 | 0.431 | -12.5  | 160#  | 0.01     |
| 30   | 4-Chloroaniline             | 0.401 | 0.425 | -6.0   | 154#  | 0.00     |
| 31 C | Hexachlorobutadiene         | 0.370 | 0.338 | 8.6    | 149   | 0.01     |
| 32   | Caprolactam                 | 0.130 | 0.122 | 6.2    | 153#  | 0.00     |
| 33 C | 4-Chloro-3-methylphenol     | 0.486 | 0.506 | -4.1   | 169#  | 0.01     |
| 34   | 2-Methylnaphthalene         | 0.804 | 0.788 | 2.0    | 160#  | 0.01     |
| 35   | 1-Methylnaphthalene         | 0.761 | 0.757 | 0.5    | 159#  | 0.00     |
| 36 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 153#  | 0.01     |
| 37   | 1,2,4,5-Tetrachlorobenzene  | 0.824 | 0.854 | -3.6   | 158#  | 0.01     |
| 38   | Hexachlorocyclopentadiene   | 0.612 | 0.352 | 42.5#  | 88    | 0.00     |
| 39 C | 2,4,6-Trichlorophenol       | 0.487 | 0.514 | -5.5   | 160#  | 0.00     |
| 40   | 2,4,5-Trichlorophenol       | 0.535 | 0.550 | -2.8   | 161#  | 0.01     |
| 41   | 1,1'-Biphenyl               | 1.414 | 1.449 | -2.5   | 154#  | 0.01     |
| 42   | 2-Chloronaphthalene         | 1.103 | 1.149 | -4.2   | 159#  | 0.01     |
| 43   | 2-Nitroaniline              | 0.472 | 0.493 | -4.4   | 157#  | 0.00     |
| 44 S | Dimethylphthalate-d6        | 1.649 | 1.562 | 5.3    | 145   | 0.01     |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG103015\  
 Data File : BG019428.D  
 Acq On : 30 Oct 2015 9:55  
 Operator : UM/NP  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02021

Quant Time: Oct 31 00:25:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG102815.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 30 04:25:10 2015  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 45   | Dimethylphthalate           | 1.686 | 1.598 | 5.2    | 147   | 0.01     |
| 46   | 2,6-Dinitrotoluene          | 0.341 | 0.358 | -5.0   | 160#  | 0.01     |
| 47 S | Acenaphthylene-d8           | 1.826 | 1.861 | -1.9   | 155#  | 0.00     |
| 48   | Acenaphthylene              | 1.871 | 1.893 | -1.2   | 155#  | 0.00     |
| 49   | 3-Nitroaniline              | 0.294 | 0.311 | -5.8   | 154#  | 0.00     |
| 50 C | Acenaphthene                | 1.263 | 1.267 | -0.3   | 154#  | 0.00     |
| 51   | 2,4-Dinitrophenol           | 0.257 | 0.225 | 12.5   | 141   | 0.01     |
| 52 S | 4-Nitrophenol-d4            | 0.262 | 0.257 | 1.9    | 148   | 0.00     |
| 53   | 4-Nitrophenol               | 0.409 | 0.387 | 5.4    | 142   | 0.00     |
| 54   | Dibenzofuran                | 1.861 | 1.873 | -0.6   | 153#  | 0.00     |
| 55   | 2,4-Dinitrotoluene          | 0.539 | 0.500 | 7.2    | 144   | 0.00     |
| 56   | 2,3,4,6-Tetrachlorophenol   | 0.559 | 0.575 | -2.9   | 156#  | 0.00     |
| 57   | Diethylphthalate            | 1.665 | 1.504 | 9.7    | 139   | 0.00     |
| 58 S | Fluorene-d10                | 1.525 | 1.472 | 3.5    | 145   | 0.01     |
| 59   | Fluorene                    | 1.623 | 1.572 | 3.1    | 148   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether  | 0.965 | 0.937 | 2.9    | 149   | 0.01     |
| 61   | 4-Nitroaniline              | 0.338 | 0.316 | 6.5    | 140   | 0.00     |
| 62 I | Phenanthrene-d10            | 1.000 | 1.000 | 0.0    | 139   | 0.00     |
| 63 S | 4,6-Dinitro-2-methylphenol- | 0.129 | 0.123 | 4.7    | 134   | 0.01     |
| 64   | 4,6-Dinitro-2-methylphenol  | 0.140 | 0.129 | 7.9    | 130   | 0.01     |
| 65   | N-Nitrosodiphenylamine      | 0.517 | 0.540 | -4.4   | 145   | 0.00     |
| 66   | 4-Bromophenyl-phenylether   | 0.238 | 0.248 | -4.2   | 144   | 0.00     |
| 67   | Hexachlorobenzene           | 0.252 | 0.256 | -1.6   | 141   | 0.00     |
| 68   | Atrazine                    | 0.256 | 0.238 | 7.0    | 128   | 0.00     |
| 69 C | Pentachlorophenol           | 0.149 | 0.148 | 0.7    | 145   | 0.00     |
| 70   | Phenanthrene                | 1.009 | 0.980 | 2.9    | 136   | 0.01     |
| 71 S | Anthracene-d10              | 0.912 | 0.894 | 2.0    | 138   | 0.00     |
| 72   | Anthracene                  | 1.029 | 1.010 | 1.8    | 138   | 0.00     |
| 73   | 1,2,3,4-Tetrachlorobenzene  | 0.290 | 0.323 | -11.4  | 152#  | 0.00     |
| 74   | Pentachlorobenzene          | 0.292 | 0.318 | -8.9   | 150   | 0.00     |
| 75   | Carbazole                   | 0.821 | 1.027 | -25.1# | 168#  | 0.00     |
| 76   | Di-n-butylphthalate         | 1.018 | 0.913 | 10.3   | 126   | 0.01     |
| 77 C | Fluoranthene                | 1.307 | 1.299 | 0.6    | 131   | 0.01     |
| 78 I | Chrysene-d12                | 1.000 | 1.000 | 0.0    | 136   | 0.01     |
| 79 S | Pyrene-d10                  | 0.875 | 0.825 | 5.7    | 128   | 0.00     |
| 80   | Pyrene                      | 1.122 | 1.061 | 5.4    | 128   | 0.00     |
| 81   | Butylbenzylphthalate        | 0.365 | 0.337 | 7.7    | 126   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine      | 0.392 | 0.399 | -1.8   | 129   | 0.01     |
| 83   | Benzo(a)anthracene          | 1.165 | 1.131 | 2.9    | 132   | 0.01     |
| 84   | Bis(2-ethylhexyl)phthalate  | 0.518 | 0.486 | 6.2    | 129   | 0.00     |
| 85   | Chrysene                    | 1.093 | 1.075 | 1.6    | 135   | 0.01     |
| 86 I | Perylene-d12                | 1.000 | 1.000 | 0.0    | 121   | 0.02     |
| 87   | Di-n-octyl phthalate        | 0.906 | 0.994 | -9.7   | 129   | 0.01     |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG103015\  
Data File : BG019428.D  
Acq On : 30 Oct 2015 9:55  
Operator : UM/NP  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTD02021

Quant Time: Oct 31 00:25:38 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG102815.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 30 04:25:10 2015  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.180 | 1.228 | -4.1  | 127   | 0.02     |
| 89   | Benzo(k)fluoranthene   | 1.135 | 1.264 | -11.4 | 136   | 0.01     |
| 90 S | Benzo(a)pyrene-d12     | 1.004 | 1.029 | -2.5  | 126   | 0.02     |
| 91 C | Benzo(a)pyrene         | 1.133 | 1.122 | 1.0   | 121   | 0.01     |
| 92   | Indeno(1,2,3-cd)pyrene | 1.277 | 1.040 | 18.6  | 100   | 0.03     |
| 93   | Dibenzo(a,h)anthracene | 1.066 | 0.851 | 20.2# | 99    | 0.01     |
| 94   | Benzo(g,h,i)perylene   | 0.969 | 0.974 | -0.5  | 114   | 0.02     |

(#) = Out of Range

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