

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081116\  
 Data File : BG023645.D  
 Acq On : 12 Aug 2016 6:42  
 Operator : UM/SJ  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02028

Quant Time: Aug 12 07:26:33 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 12 04:34:52 2016  
 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   | 161#  | 0.00     |
| 2    | 1,4-Dioxane                 | 0.494 | 0.476 | 3.6   | 136   | 0.00     |
| 3 S  | 1,4-Dioxane-d8              | 0.470 | 0.438 | 6.8   | 134   | 0.00     |
| 4    | Benzaldehyde                | 1.228 | 1.298 | -5.7  | 148   | 0.00     |
| 5 S  | Phenol-d5                   | 2.015 | 1.956 | 2.9   | 146   | 0.00     |
| 6    | Phenol                      | 2.098 | 2.080 | 0.9   | 151#  | 0.00     |
| 7 S  | Bis-(2-Chloroethyl)ether-d8 | 1.291 | 1.283 | 0.6   | 152#  | 0.00     |
| 8    | Bis(2-Chloroethyl)ether     | 1.523 | 1.549 | -1.7  | 153#  | 0.00     |
| 9 S  | 2-Chlorophenol-d4           | 1.374 | 1.396 | -1.6  | 153#  | 0.00     |
| 10   | 2-Chlorophenol              | 1.400 | 1.415 | -1.1  | 153#  | 0.00     |
| 11   | 2-Methylphenol              | 1.580 | 1.514 | 4.2   | 147   | 0.00     |
| 12   | 2,2'-oxybis(1-Chloropropane | 2.084 | 2.168 | -4.0  | 157#  | 0.00     |
| 13 S | 4-Methylphenol-d8           | 1.573 | 1.539 | 2.2   | 152#  | 0.00     |
| 14   | Acetophenone                | 2.523 | 2.400 | 4.9   | 140   | 0.00     |
| 15 P | N-Nitroso-di-n-propylamine  | 1.518 | 1.432 | 5.7   | 142   | 0.00     |
| 16   | 4-Methylphenol              | 1.771 | 1.640 | 7.4   | 141   | 0.00     |
| 17   | Hexachloroethane            | 0.604 | 0.602 | 0.3   | 155#  | 0.00     |
| 18 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 144   | 0.00     |
| 19 S | Nitrobenzene-d5             | 0.158 | 0.170 | -7.6  | 146   | 0.00     |
| 20   | Nitrobenzene                | 0.462 | 0.487 | -5.4  | 142   | 0.00     |
| 21   | Isophorone                  | 0.850 | 0.885 | -4.1  | 137   | 0.00     |
| 22 S | 2-Nitrophenol-d4            | 0.181 | 0.205 | -13.3 | 151#  | 0.00     |
| 23 C | 2-Nitrophenol               | 0.195 | 0.212 | -8.7  | 150#  | 0.00     |
| 24   | 2,4-Dimethylphenol          | 0.429 | 0.447 | -4.2  | 139   | 0.00     |
| 25   | Bis(2-Chloroethoxy)methane  | 0.490 | 0.512 | -4.5  | 141   | 0.00     |
| 26 S | 2,4-Dichlorophenol-d3       | 0.342 | 0.365 | -6.7  | 143   | 0.00     |
| 27 C | 2,4-Dichlorophenol          | 0.344 | 0.367 | -6.7  | 143   | 0.00     |
| 28   | Naphthalene                 | 1.015 | 1.058 | -4.2  | 138   | 0.00     |
| 29 S | 4-Chloroaniline-d4          | 0.401 | 0.445 | -11.0 | 137   | 0.00     |
| 30   | 4-Chloroaniline             | 0.398 | 0.423 | -6.3  | 133   | 0.00     |
| 31 C | Hexachlorobutadiene         | 0.229 | 0.253 | -10.5 | 151#  | 0.00     |
| 32   | Caprolactam                 | 0.143 | 0.138 | 3.5   | 127   | 0.00     |
| 33 C | 4-Chloro-3-methylphenol     | 0.443 | 0.442 | 0.2   | 135   | 0.00     |
| 34   | 2-Methylnaphthalene         | 0.823 | 0.813 | 1.2   | 131   | 0.00     |
| 35 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 128   | 0.00     |
| 36   | 1,2,4,5-Tetrachlorobenzene  | 0.614 | 0.682 | -11.1 | 133   | 0.00     |
| 37   | Hexachlorocyclopentadiene   | 0.340 | 0.283 | 16.8  | 108   | 0.00     |
| 38 C | 2,4,6-Trichlorophenol       | 0.425 | 0.469 | -10.4 | 131   | 0.00     |
| 39   | 2,4,5-Trichlorophenol       | 0.456 | 0.502 | -10.1 | 135   | 0.00     |
| 40   | 1,1'-Biphenyl               | 1.470 | 1.551 | -5.5  | 127   | 0.00     |
| 41   | 2-Chloronaphthalene         | 1.143 | 1.216 | -6.4  | 129   | 0.00     |
| 42   | 2-Nitroaniline              | 0.467 | 0.501 | -7.3  | 126   | 0.00     |
| 43 S | Dimethylphthalate-d6        | 1.638 | 1.610 | 1.7   | 117   | 0.00     |
| 44   | Dimethylphthalate           | 1.622 | 1.586 | 2.2   | 116   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
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|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 45   | 2,6-Dinitrotoluene          | 0.352 | 0.363 | -3.1   | 121   | 0.00     |
| 46 S | Acenaphthylene-d8           | 1.843 | 1.949 | -5.8   | 126   | 0.00     |
| 47   | Acenaphthylene              | 1.928 | 1.992 | -3.3   | 123   | 0.00     |
| 48   | 3-Nitroaniline              | 0.331 | 0.381 | -15.1  | 136   | 0.00     |
| 49 C | Acenaphthene                | 1.313 | 1.347 | -2.6   | 123   | 0.00     |
| 50   | 2,4-Dinitrophenol           | 0.217 | 0.159 | 26.7#  | 97    | 0.00     |
| 51 S | 4-Nitrophenol-d4            | 0.280 | 0.282 | -0.7   | 126   | 0.00     |
| 52   | 4-Nitrophenol               | 0.280 | 0.275 | 1.8    | 118   | 0.00     |
| 53   | Dibenzofuran                | 1.946 | 1.970 | -1.2   | 121   | 0.00     |
| 54   | 2,4-Dinitrotoluene          | 0.533 | 0.527 | 1.1    | 116   | 0.00     |
| 55   | 2,3,4,6-Tetrachlorophenol   | 0.468 | 0.479 | -2.4   | 122   | 0.00     |
| 56   | Diethylphthalate            | 1.695 | 1.645 | 2.9    | 114   | 0.00     |
| 57 S | Fluorene-d10                | 1.513 | 1.501 | 0.8    | 119   | 0.00     |
| 58   | Fluorene                    | 1.621 | 1.585 | 2.2    | 117   | 0.00     |
| 59   | 4-Chlorophenyl-phenylether  | 0.815 | 0.800 | 1.8    | 117   | 0.00     |
| 60   | 4-Nitroaniline              | 0.383 | 0.396 | -3.4   | 120   | 0.00     |
| 61 I | Phenanthrene-d10            | 1.000 | 1.000 | 0.0    | 115   | 0.00     |
| 62 S | 4,6-Dinitro-2-methylphenol- | 0.128 | 0.125 | 2.3    | 110   | 0.00     |
| 63   | 4,6-Dinitro-2-methylphenol  | 0.135 | 0.130 | 3.7    | 107   | 0.00     |
| 64   | N-Nitrosodiphenylamine      | 0.559 | 0.615 | -10.0  | 116   | 0.00     |
| 65   | 4-Bromophenyl-phenylether   | 0.229 | 0.240 | -4.8   | 115   | 0.00     |
| 66   | Hexachlorobenzene           | 0.244 | 0.254 | -4.1   | 116   | 0.00     |
| 67   | Atrazine                    | 0.231 | 0.252 | -9.1   | 114   | 0.00     |
| 68 C | Pentachlorophenol           | 0.135 | 0.136 | -0.7   | 117   | 0.00     |
| 69   | Phenanthrene                | 1.036 | 1.093 | -5.5   | 111   | 0.00     |
| 70 S | Anthracene-d10              | 0.901 | 0.945 | -4.9   | 112   | 0.00     |
| 71   | Anthracene                  | 1.057 | 1.120 | -6.0   | 111   | 0.00     |
| 72   | Carbazole                   | 0.852 | 0.983 | -15.4  | 109   | 0.00     |
| 73   | Di-n-butylphthalate         | 1.067 | 1.223 | -14.6  | 118   | 0.00     |
| 74 C | Fluoranthene                | 1.060 | 1.250 | -17.9  | 109   | 0.00     |
| 75 I | Chrysene-d12                | 1.000 | 1.000 | 0.0    | 117   | 0.00     |
| 76 S | Pyrene-d10                  | 1.012 | 0.976 | 3.6    | 107   | 0.00     |
| 77   | Pyrene                      | 1.236 | 1.212 | 1.9    | 106   | 0.00     |
| 78   | Butylbenzylphthalate        | 0.474 | 0.533 | -12.4  | 122   | 0.00     |
| 79   | 3,3'-Dichlorobenzidine      | 0.352 | 0.440 | -25.0# | 133   | 0.00     |
| 80   | Benzo(a)anthracene          | 1.126 | 1.195 | -6.1   | 114   | 0.00     |
| 81   | Bis(2-ethylhexyl)phthalate  | 0.631 | 0.768 | -21.7# | 130   | 0.00     |
| 82   | Chrysene                    | 1.024 | 1.081 | -5.6   | 116   | 0.00     |
| 83 I | Perylene-d12                | 1.000 | 1.000 | 0.0    | 124   | 0.00     |
| 84   | Di-n-octyl phthalate        | 1.010 | 1.281 | -26.8# | 134   | 0.00     |
| 85   | Benzo(b)fluoranthene        | 1.138 | 1.179 | -3.6   | 117   | 0.00     |
| 86   | Benzo(k)fluoranthene        | 1.120 | 1.106 | 1.3    | 116   | 0.00     |
| 87 S | Benzo(a)pyrene-d12          | 0.905 | 0.936 | -3.4   | 120   | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88 C | Benzo(a)pyrene         | 1.098 | 1.134 | -3.3 | 118   | 0.00     |
| 89   | Indeno(1,2,3-cd)pyrene | 1.291 | 1.338 | -3.6 | 122   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.101 | 1.147 | -4.2 | 121   | 0.01     |
| 91   | Benzo(g,h,i)perylene   | 1.070 | 1.113 | -4.0 | 121   | 0.03     |

(#) = Out of Range

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