

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122717\  
 Data File : BM013549.D  
 Acq On : 27 Dec 2017 09:47  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02004

Manual Integrations  
 APPROVED

Sohil  
 12/27/2017 4:45:24 PM

Quant Time: Dec 27 14:32:07 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 27 03:26:43 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 134627   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 589326   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.31 | 164  | 382699   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 902493   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.25 | 240  | 794396   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.47 | 264  | 657486   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 20879  | 7.68  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.85  | 99  | 214515 | 18.41 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.01  | 67  | 127758 | 19.23 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 175768 | 19.31 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.37  | 113 | 184059 | 18.50 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 95465  | 20.43 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.54  | 143 | 97048  | 19.40 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165 | 204428 | 19.83 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.59 | 131 | 223430 | 23.59 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 622795 | 18.29 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 803294 | 19.11 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.53 | 143 | 75497  | 12.76 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.30 | 176 | 571497 | 19.51 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.44 | 200 | 90794  | 15.99 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 887675 | 19.64 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.46 | 212 | 891720 | 22.53 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.33 | 264 | 647181 | 19.32 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        | Ovalue |           |
|--------------------------------|-------|-----|--------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.25  | 88  | 22782  | 7.465  | ng/uL# 64 |
| 4) Benzaldehyde                | 6.82  | 77  | 116956 | 20.292 | ng/ul# 87 |
| 6) Phenol                      | 6.87  | 94  | 219545 | 19.067 | ng/ul# 85 |
| 8) Bis(2-Chloroethyl)ether     | 7.10  | 93  | 163073 | 18.523 | ng/ul 94  |
| 10) 2-Chlorophenol             | 7.23  | 128 | 173791 | 19.472 | ng/ul 98  |
| 11) 2-Methylphenol             | 8.11  | 108 | 168517 | 18.922 | ng/ul 96  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.19  | 45  | 179120 | 19.377 | ng/ul# 78 |
| 14) Acetophenone               | 8.49  | 105 | 283358 | 18.724 | ng/ul 90  |
| 15) N-Nitroso-di-n-propylamine | 8.47  | 70  | 142795 | 18.733 | ng/ul# 70 |
| 16) 4-Methylphenol             | 8.44  | 108 | 178431 | 18.736 | ng/ul 98  |
| 17) Hexachloroethane           | 8.73  | 117 | 69357  | 17.849 | ng/ul# 73 |
| 20) Nitrobenzene               | 8.86  | 77  | 229384 | 19.484 | ng/ul 95  |
| 21) Isophorone                 | 9.39  | 82  | 382248 | 18.452 | ng/ul# 93 |
| 23) 2-Nitrophenol              | 9.57  | 139 | 100535 | 19.387 | ng/ul# 82 |
| 24) 2,4-Dimethylphenol         | 9.63  | 107 | 213041 | 18.837 | ng/ul# 91 |
| 25) Bis(2-Chloroethoxy)methane | 9.87  | 93  | 230842 | 19.040 | ng/ul 95  |
| 27) 2,4-Dichlorophenol         | 10.10 | 162 | 191500 | 20.114 | ng/ul 93  |
| 28) Naphthalene                | 10.49 | 128 | 591928 | 19.523 | ng/ul 98  |
| 30) 4-Chloroaniline            | 10.61 | 127 | 215102 | 23.453 | ng/ul 92  |
| 31) Hexachlorobutadiene        | 10.77 | 225 | 134931 | 19.565 | ng/ul 97  |
| 32) Caprolactam                | 11.39 | 113 | 52311m | 17.191 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.75 | 107 | 198193 | 18.976 | ng/ul 90  |
| 34) 2-Methylnaphthalene        | 12.11 | 142 | 448559 | 19.680 | ng/ul 93  |

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 Data File : BM013549.D  
 Acq On : 27 Dec 2017 09:47  
 Operator : SJ/JU  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02004

Manual Integrations  
 APPROVED

Sohil  
 12/27/2017 4:45:24 PM

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.49 | 216  | 267931   | 19.402 | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.46 | 237  | 123219   | 13.557 | ng/ul  | 94       |
| 38) 2,4,6-Trichlorophenol      | 12.73 | 196  | 165533   | 19.228 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.81 | 196  | 169519   | 18.537 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.14 | 154  | 605534   | 18.722 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.18 | 162  | 490723   | 19.339 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.39 | 65   | 136304   | 18.334 | ng/ul  | 98       |
| 44) Dimethylphthalate          | 13.77 | 163  | 602624   | 18.501 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.90 | 165  | 121511   | 18.291 | ng/ul# | 94       |
| 47) Acenaphthylene             | 14.03 | 152  | 750765   | 19.304 | ng/ul  | 96       |
| 48) 3-Nitroaniline             | 14.23 | 138  | 107433   | 18.093 | ng/ul  | 92       |
| 49) Acenaphthene               | 14.37 | 153  | 507007   | 19.137 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.44 | 184  | 45242    | 12.307 | ng/ul# | 88       |
| 52) 4-Nitrophenol              | 14.54 | 109  | 81427    | 14.028 | ng/ul# | 82       |
| 53) Dibenzofuran               | 14.71 | 168  | 758556   | 19.395 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.69 | 165  | 177616   | 18.380 | ng/ul  | 99       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.94 | 232  | 158127   | 18.859 | ng/ul# | 90       |
| 56) Diethylphthalate           | 15.14 | 149  | 600583   | 18.384 | ng/ul  | 96       |
| 58) Fluorene                   | 15.36 | 166  | 616968   | 19.069 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.36 | 204  | 339495   | 19.332 | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.39 | 138  | 95028    | 13.564 | ng/ul# | 88       |
| 63) 4,6-Dinitro-2-methylphenol | 15.46 | 198  | 86584    | 15.261 | ng/ul  | 98       |
| 64) N-Nitrosodiphenylamine     | 15.57 | 169  | 523525   | 19.692 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.26 | 248  | 210265   | 19.819 | ng/ul  | 97       |
| 66) Hexachlorobenzene          | 16.36 | 284  | 223901   | 19.137 | ng/ul# | 89       |
| 67) Atrazine                   | 16.53 | 200  | 186376   | 18.993 | ng/ul  | 94       |
| 68) Pentachlorophenol          | 16.72 | 266  | 104991   | 15.516 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.10 | 178  | 990281   | 19.314 | ng/ul  | 98       |
| 71) Anthracene                 | 17.19 | 178  | 999732   | 19.076 | ng/ul  | 99       |
| 72) Carbazole                  | 17.47 | 167  | 791347   | 17.555 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.03 | 149  | 1001791  | 19.036 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.12 | 202  | 1103942  | 17.569 | ng/ul# | 92       |
| 77) Pyrene                     | 19.49 | 202  | 1104288  | 22.881 | ng/ul# | 93       |
| 78) Butylbenzylphthalate       | 20.39 | 149  | 403387   | 21.392 | ng/ul  | 95       |
| 79) 3,3'-Dichlorobenzidine     | 21.17 | 252  | 251730   | 15.074 | ng/ul  | 95       |
| 80) Benzo(a)anthracene         | 21.24 | 228  | 960950   | 19.066 | ng/ul  | 97       |
| 81) Bis(2-ethylhexyl)phthalate | 21.17 | 149  | 591119   | 20.797 | ng/ul# | 97       |
| 82) Chrysene                   | 21.29 | 228  | 892229   | 19.081 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.04 | 149  | 890727   | 19.051 | ng/ul# | 100      |
| 85) Benzo(b)fluoranthene       | 22.80 | 252  | 850593   | 19.191 | ng/ul# | 97       |
| 86) Benzo(k)fluoranthene       | 22.85 | 252  | 816760   | 19.582 | ng/ul# | 97       |
| 88) Benzo(a)pyrene             | 23.37 | 252  | 779513   | 19.579 | ng/ul# | 95       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.70 | 276  | 770801   | 19.512 | ng/ul# | 94       |
| 90) Dibenzo(a,h)anthracene     | 25.71 | 278  | 637792   | 18.960 | ng/ul# | 98       |
| 91) Benzo(g,h,i)perylene       | 26.37 | 276  | 606993   | 19.479 | ng/ul# | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

