

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM120817\  
 Data File : BM013296.D  
 Acq On : 09 Dec 2017 07:43  
 Operator : SJ/JU  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02025

Manual Integrations  
 APPROVED

Sohil  
 12/11/2017 6:16:26 PM

Quant Time: Dec 11 02:55:53 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 08 23:45:50 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 183371   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 809618   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.33 | 164  | 510026   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.08 | 188  | 1247812  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1451205  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.50 | 264  | 1334872  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 26355   | 7.12  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.87  | 99  | 304218  | 19.17 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 174026  | 19.23 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.23  | 132 | 247397  | 19.95 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.40  | 113 | 265267  | 19.57 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.85  | 128 | 130823  | 20.38 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 141349  | 20.57 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165 | 279520  | 19.74 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.61 | 131 | 319433  | 24.54 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.75 | 166 | 866225  | 19.09 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 1090812 | 19.48 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 155601  | 19.73 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.33 | 176 | 738339  | 18.92 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 142489  | 18.15 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.18 | 188 | 1218832 | 19.50 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.48 | 212 | 1427152 | 19.74 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.36 | 264 | 1322910 | 19.46 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         | Ovalue |           |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 29698m  | 7.145  | ng/uL     |
| 4) Benzaldehyde                | 6.85  | 77  | 161798  | 20.610 | ng/ul# 83 |
| 6) Phenol                      | 6.90  | 94  | 312580  | 19.930 | ng/ul# 81 |
| 8) Bis(2-Chloroethyl)ether     | 7.13  | 93  | 231313  | 19.289 | ng/ul 94  |
| 10) 2-Chlorophenol             | 7.26  | 128 | 239567  | 19.707 | ng/ul 98  |
| 11) 2-Methylphenol             | 8.13  | 108 | 237964  | 19.618 | ng/ul 94  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.22  | 45  | 256303m | 20.356 | ng/ul     |
| 14) Acetophenone               | 8.51  | 105 | 401183  | 19.463 | ng/ul 88  |
| 15) N-Nitroso-di-n-propylamine | 8.50  | 70  | 200038  | 19.267 | ng/ul# 69 |
| 16) 4-Methylphenol             | 8.46  | 108 | 258397  | 19.920 | ng/ul 96  |
| 17) Hexachloroethane           | 8.76  | 117 | 102376  | 19.343 | ng/ul# 77 |
| 20) Nitrobenzene               | 8.89  | 77  | 305738  | 18.903 | ng/ul 94  |
| 21) Isophorone                 | 9.41  | 82  | 562828  | 19.776 | ng/ul# 93 |
| 23) 2-Nitrophenol              | 9.59  | 139 | 145287  | 20.394 | ng/ul# 78 |
| 24) 2,4-Dimethylphenol         | 9.66  | 107 | 299489  | 19.275 | ng/ul# 86 |
| 25) Bis(2-Chloroethoxy)methane | 9.89  | 93  | 325879  | 19.565 | ng/ul 96  |
| 27) 2,4-Dichlorophenol         | 10.12 | 162 | 260942  | 19.950 | ng/ul 94  |
| 28) Naphthalene                | 10.52 | 128 | 809745  | 19.440 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.63 | 127 | 310389  | 24.634 | ng/ul 93  |
| 31) Hexachlorobutadiene        | 10.80 | 225 | 177563  | 18.741 | ng/ul 97  |
| 32) Caprolactam                | 11.42 | 113 | 92084m  | 22.028 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.77 | 107 | 286609  | 19.975 | ng/ul 96  |
| 34) 2-Methylnaphthalene        | 12.14 | 142 | 607781  | 19.410 | ng/ul 95  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.51 | 216  | 347214   | 18.867 | ng/ul  | 96       |
| 37) Hexachlorocyclopentadiene  | 12.49 | 237  | 176339   | 14.558 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 12.76 | 196  | 227092   | 19.793 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.83 | 196  | 242900   | 19.931 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.16 | 154  | 821911   | 19.068 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.20 | 162  | 649040   | 19.192 | ng/ul  | 100      |
| 42) 2-Nitroaniline             | 13.42 | 65   | 195482   | 19.730 | ng/ul  | 87       |
| 44) Dimethylphthalate          | 13.80 | 163  | 830832   | 19.140 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 13.92 | 165  | 175558   | 19.830 | ng/ul  | 98       |
| 47) Acenaphthylene             | 14.05 | 152  | 1000217  | 19.298 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.24 | 138  | 173257   | 21.894 | ng/ul  | 89       |
| 49) Acenaphthene               | 14.40 | 153  | 675038   | 19.119 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.46 | 184  | 85452    | 17.442 | ng/ul  | 92       |
| 52) 4-Nitrophenol              | 14.56 | 109  | 150079   | 19.400 | ng/ul# | 81       |
| 53) Dibenzofuran               | 14.73 | 168  | 989261   | 18.979 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.71 | 165  | 255868   | 19.867 | ng/ul  | 86       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.96 | 232  | 227483   | 20.357 | ng/ul# | 91       |
| 56) Diethylphthalate           | 15.17 | 149  | 850835   | 19.543 | ng/ul  | 96       |
| 58) Fluorene                   | 15.39 | 166  | 820308   | 19.024 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.39 | 204  | 435564   | 18.611 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 195886   | 20.980 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 143899   | 18.344 | ng/ul  | 91       |
| 64) N-Nitrosodiphenylamine     | 15.60 | 169  | 717036   | 19.507 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.27 | 248  | 280969   | 19.155 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.39 | 284  | 307003   | 18.979 | ng/ul# | 90       |
| 67) Atrazine                   | 16.56 | 200  | 291664   | 21.497 | ng/ul  | 95       |
| 68) Pentachlorophenol          | 16.73 | 266  | 183683   | 19.633 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.12 | 178  | 1363746  | 19.237 | ng/ul  | 99       |
| 71) Anthracene                 | 17.22 | 178  | 1391566  | 19.204 | ng/ul  | 99       |
| 72) Carbazole                  | 17.49 | 167  | 1218435  | 19.549 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.06 | 149  | 1538297  | 21.142 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.14 | 202  | 1705371  | 19.630 | ng/ul# | 93       |
| 77) Pyrene                     | 19.51 | 202  | 1726293  | 19.580 | ng/ul# | 93       |
| 78) Butylbenzylphthalate       | 20.42 | 149  | 731076   | 21.223 | ng/ul  | 95       |
| 79) 3,3'-Dichlorobenzidine     | 21.19 | 252  | 597811   | 19.596 | ng/ul# | 95       |
| 80) Benzo(a)anthracene         | 21.26 | 228  | 1763409  | 19.152 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 1105950  | 21.300 | ng/ul# | 97       |
| 82) Chrysene                   | 21.31 | 228  | 1638196  | 19.178 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.07 | 149  | 1780634  | 18.759 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.83 | 252  | 1758617  | 19.543 | ng/ul# | 97       |
| 86) Benzo(k)fluoranthene       | 22.87 | 252  | 1558747  | 18.407 | ng/ul# | 99       |
| 88) Benzo(a)pyrene             | 23.40 | 252  | 1556738  | 19.258 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.74 | 276  | 1617612  | 20.168 | ng/ul# | 94       |
| 90) Dibenzo(a,h)anthracene     | 25.75 | 278  | 1382874  | 20.249 | ng/ul# | 96       |
| 91) Benzo(g,h,i)perylene       | 26.42 | 276  | 1305077  | 20.629 | ng/ul# | 96       |

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

