

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM071918\  
 Data File : BM016011.D  
 Acq On : 20 Jul 2018 03:58  
 Operator : SJ/JU  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02044

Manual Integrations  
 APPROVED

Sohil  
 7/20/2018 4:05:04 PM

Quant Time: Jul 20 08:38:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM071318MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 20 01:21:23 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.25  | 152  | 58026    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.07 | 136  | 291855   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.87 | 164  | 187313   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.61 | 188  | 437822m  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 527312   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.11 | 264  | 494852   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.49  | 96  | 9537   | 7.24  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.41  | 99  | 100518 | 18.95 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.57  | 67  | 62747  | 18.81 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.78  | 132 | 87126  | 20.23 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.97  | 113 | 89426  | 19.69 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.44  | 128 | 42625  | 20.34 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.16 | 143 | 50229  | 21.09 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.70 | 165 | 96313  | 20.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.22 | 131 | 128158 | 22.83 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.28 | 166 | 324817 | 19.02 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.57 | 160 | 389927 | 20.02 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.09 | 143 | 54540  | 18.43 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.86 | 176 | 276144 | 19.07 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.00 | 200 | 49129  | 16.81 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 428032 | 19.10 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.96 | 212 | 488681 | 19.99 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.96 | 264 | 530070 | 19.48 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Ovalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.53  | 88  | 10025  | 7.798  | ng/uL# | 77 |
| 4) Benzaldehyde                | 7.39  | 77  | 71580  | 21.002 | ng/ul  | 89 |
| 6) Phenol                      | 7.43  | 94  | 102414 | 19.234 | ng/ul# | 69 |
| 8) Bis(2-Chloroethyl)ether     | 7.67  | 93  | 74808  | 19.026 | ng/ul# | 86 |
| 10) 2-Chlorophenol             | 7.81  | 128 | 85865  | 20.079 | ng/ul  | 92 |
| 11) 2-Methylphenol             | 8.70  | 108 | 78925  | 19.273 | ng/ul  | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.77  | 45  | 115517 | 18.497 | ng/ul# | 91 |
| 14) Acetophenone               | 9.09  | 105 | 144837 | 19.195 | ng/ul# | 79 |
| 15) N-Nitroso-di-n-propylamine | 9.07  | 70  | 76864  | 20.364 | ng/ul# | 66 |
| 16) 4-Methylphenol             | 9.03  | 108 | 90558  | 20.024 | ng/ul  | 95 |
| 17) Hexachloroethane           | 9.33  | 117 | 39364  | 20.452 | ng/ul  | 93 |
| 20) Nitrobenzene               | 9.48  | 77  | 116176 | 19.613 | ng/ul# | 87 |
| 21) Isophorone                 | 10.00 | 82  | 209448 | 20.266 | ng/ul# | 97 |
| 23) 2-Nitrophenol              | 10.19 | 139 | 53548  | 20.940 | ng/ul# | 67 |
| 24) 2,4-Dimethylphenol         | 10.24 | 107 | 121440 | 20.764 | ng/ul  | 93 |
| 25) Bis(2-Chloroethoxy)methane | 10.47 | 93  | 115414 | 19.193 | ng/ul  | 99 |
| 27) 2,4-Dichlorophenol         | 10.73 | 162 | 92732  | 20.525 | ng/ul  | 97 |
| 28) Naphthalene                | 11.13 | 128 | 299624 | 19.371 | ng/ul  | 99 |
| 30) 4-Chloroaniline            | 11.25 | 127 | 127244 | 22.731 | ng/ul  | 98 |
| 31) Hexachlorobutadiene        | 11.39 | 225 | 63433  | 19.986 | ng/ul  | 97 |
| 32) Caprolactam                | 12.04 | 113 | 30794  | 20.221 | ng/ul# | 69 |
| 33) 4-Chloro-3-methylphenol    | 12.36 | 107 | 110853 | 20.897 | ng/ul  | 98 |
| 34) 2-Methylnaphthalene        | 12.72 | 142 | 224830 | 19.590 | ng/ul  | 95 |

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Manual Integrations  
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Sohil  
 7/20/2018 4:05:04 PM

Quant Time: Jul 20 08:38:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM071318MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 20 01:21:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.08 | 216  | 115499   | 19.867 | ng/ul# | 95       |
| 37) Hexachlorocyclopentadiene  | 13.04 | 237  | 36369    | 13.195 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.33 | 196  | 79711    | 21.234 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 13.40 | 196  | 82023    | 20.567 | ng/ul  | 97       |
| 40) 1,1'-Biphenyl              | 13.72 | 154  | 304007   | 19.166 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.76 | 162  | 237631   | 19.410 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.98 | 65   | 82211    | 20.985 | ng/ul# | 74       |
| 44) Dimethylphthalate          | 14.33 | 163  | 323047   | 19.106 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 14.47 | 165  | 61934    | 20.499 | ng/ul# | 65       |
| 47) Acenaphthylene             | 14.60 | 152  | 377670   | 19.803 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.80 | 138  | 64278    | 20.662 | ng/ul  | 95       |
| 49) Acenaphthene               | 14.94 | 153  | 265548   | 19.171 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 15.02 | 184  | 24282    | 14.544 | ng/ul# | 1        |
| 52) 4-Nitrophenol              | 15.10 | 109  | 69505    | 19.708 | ng/ul# | 73       |
| 53) Dibenzofuran               | 15.27 | 168  | 374563   | 18.949 | ng/ul  | 88       |
| 54) 2,4-Dinitrotoluene         | 15.26 | 165  | 95936    | 19.784 | ng/ul# | 50       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.50 | 232  | 74477    | 20.501 | ng/ul# | 82       |
| 56) Diethylphthalate           | 15.67 | 149  | 352436   | 19.177 | ng/ul  | 97       |
| 58) Fluorene                   | 15.92 | 166  | 307343   | 19.191 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.90 | 204  | 153689   | 19.257 | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.96 | 138  | 69512    | 20.371 | ng/ul# | 59       |
| 63) 4,6-Dinitro-2-methylphenol | 16.02 | 198  | 50160    | 16.762 | ng/ul# | 78       |
| 64) N-Nitrosodiphenylamine     | 16.12 | 169  | 264321   | 19.490 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.79 | 248  | 91002    | 19.287 | ng/ul  | 93       |
| 66) Hexachlorobenzene          | 16.91 | 284  | 100541   | 19.085 | ng/ul# | 90       |
| 67) Atrazine                   | 17.06 | 200  | 103713   | 19.162 | ng/ul  | 96       |
| 68) Pentachlorophenol          | 17.26 | 266  | 53105    | 18.751 | ng/ul  | 100      |
| 69) Phenanthrene               | 17.65 | 178  | 491304m  | 18.980 | ng/ul  |          |
| 71) Anthracene                 | 17.74 | 178  | 509412   | 19.086 | ng/ul  | 98       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.69 | 216  | 122549   | 20.008 | ng/ul  | 99       |
| 73) Pentachlorobenzene         | 15.19 | 250  | 115426   | 19.263 | ng/ul  | 99       |
| 74) Carbazole                  | 18.01 | 167  | 453495   | 18.748 | ng/ul  | 97       |
| 75) Di-n-butylphthalate        | 18.53 | 149  | 610484   | 19.754 | ng/ul# | 98       |
| 76) Fluoranthene               | 19.63 | 202  | 594882   | 18.311 | ng/ul# | 95       |
| 79) Pvrene                     | 19.99 | 202  | 609229   | 19.598 | ng/ul# | 93       |
| 80) Butylbenzylphthalate       | 20.84 | 149  | 307887   | 20.588 | ng/ul  | 86       |
| 81) 3,3'-Dichlorobenzidine     | 21.63 | 252  | 219506   | 18.924 | ng/ul  | 98       |
| 82) Benzo(a)anthracene         | 21.71 | 228  | 670223   | 19.659 | ng/ul  | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 456745   | 20.827 | ng/ul  | 94       |
| 84) Chrysene                   | 21.76 | 228  | 609193   | 19.103 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 22.50 | 149  | 805654   | 20.786 | ng/ul# | 83       |
| 87) Benzo(b)fluoranthene       | 23.38 | 252  | 635662   | 20.025 | ng/ul  | 98       |
| 88) Benzo(k)fluoranthene       | 23.43 | 252  | 620509   | 20.449 | ng/ul  | 98       |
| 90) Benzo(a)pyrene             | 24.00 | 252  | 592032   | 19.397 | ng/ul  | 98       |
| 91) Indeno(1,2,3-cd)pyrene     | 26.55 | 276  | 593620   | 15.819 | ng/ul# | 93       |
| 92) Dibenzo(a,h)anthracene     | 26.55 | 278  | 508587   | 16.004 | ng/ul  | 96       |
| 93) Benzo(g,h,i)perylene       | 27.30 | 276  | 456096   | 15.200 | ng/ul# | 93       |

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

