

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM082416\  
 Data File : BM007280.D  
 Acq On : 24 Aug 2016 16:06  
 Operator : UM/SJ  
 Sample : MDL-05-W  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-05-W

Quant Time: Aug 24 16:50:08 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 24 13:51:40 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 118267   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 600619   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.43 | 164  | 446561   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 1245263  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 1898404  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.63 | 264  | 2142336  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.31  | 96  | 7583    | 3.28  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.96  | 99  | 352304  | 31.53 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.13  | 67  | 207992  | 35.43 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 275928  | 33.42 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 310671  | 31.89 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 148701  | 33.72 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 172103  | 33.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 321012  | 31.31 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.72 | 131 | 455353  | 35.61 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.84 | 166 | 1354797 | 35.17 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.12 | 160 | 1513334 | 33.89 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 247729  | 34.06 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.43 | 176 | 1158411 | 34.77 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 246660  | 31.50 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.27 | 188 | 1990750 | 34.22 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.57 | 212 | 2586645 | 32.58 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.49 | 264 | 3303463 | 33.48 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |       |             | Qvalue |
|--------------------------------|-------|-----|-------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 1581  | 0.61 ng/uL# | 84     |
| 4) Benzaldehyde                | 6.95  | 77  | 23465 | 3.69 ng/ul  | 95     |
| 6) Phenol                      | 6.99  | 94  | 32078 | 2.77 ng/ul# | 88     |
| 8) Bis(2-Chloroethyl)ether     | 7.23  | 93  | 24846 | 3.08 ng/ul  | 97     |
| 10) 2-Chlorophenol             | 7.36  | 128 | 23153 | 2.74 ng/ul# | 87     |
| 11) 2-Methylphenol             | 8.24  | 108 | 24998 | 2.76 ng/ul  | 89     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.33  | 45  | 27912 | 3.07 ng/ul# | 91     |
| 14) Acetophenone               | 8.62  | 105 | 46637 | 3.12 ng/ul  | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.60  | 70  | 22709 | 2.86 ng/ul# | 97     |
| 16) 4-Methylphenol             | 8.56  | 108 | 27471 | 2.70 ng/ul  | 99     |
| 17) Hexachloroethane           | 8.87  | 117 | 10045 | 3.05 ng/ul  | 94     |
| 20) Nitrobenzene               | 8.99  | 77  | 35185 | 3.11 ng/ul  | 97     |
| 21) Isophorone                 | 9.52  | 82  | 67267 | 2.92 ng/ul  | 99     |
| 23) 2-Nitrophenol              | 9.70  | 139 | 15705 | 2.81 ng/ul  | 93     |
| 24) 2,4-Dimethylphenol         | 9.76  | 107 | 35388 | 2.87 ng/ul  | 98     |
| 25) Bis(2-Chloroethoxy)methane | 10.00 | 93  | 36187 | 2.78 ng/ul  | 97     |
| 27) 2,4-Dichlorophenol         | 10.23 | 162 | 28698 | 2.82 ng/ul# | 82     |
| 28) Naphthalene                | 10.63 | 128 | 90262 | 3.02 ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.75 | 127 | 39887 | 3.03 ng/ul  | 99     |
| 31) Hexachlorobutadiene        | 10.92 | 225 | 20445 | 2.97 ng/ul  | 94     |
| 32) Caprolactam                | 11.53 | 113 | 9021  | 2.20 ng/ul  | 89     |
| 33) 4-Chloro-3-methylphenol    | 11.87 | 107 | 32134 | 2.55 ng/ul  | 96     |
| 34) 2-Methylnaphthalene        | 12.25 | 142 | 71099 | 2.91 ng/ul  | 96     |

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 Quant Title : SVOA CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.62 | 216  | 44061    | 2.96 | ng/ul  | 95       |
| 37) Hexachlorocyclopentadiene  | 12.59 | 237  | 18980    | 2.12 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 12.86 | 196  | 27124    | 2.58 | ng/ul  | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.93 | 196  | 28009    | 2.55 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.26 | 154  | 102239   | 2.95 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.30 | 162  | 79340    | 2.92 | ng/ul  | 96       |
| 42) 2-Nitroaniline             | 13.51 | 65   | 21728    | 2.45 | ng/ul  | 93       |
| 44) Dimethylphthalate          | 13.89 | 163  | 120558   | 3.14 | ng/ul# | 99       |
| 45) 2,6-Dinitrotoluene         | 14.01 | 165  | 20765    | 2.65 | ng/ul  | 96       |
| 47) Acenaphthylene             | 14.15 | 152  | 137652   | 3.00 | ng/ul  | 96       |
| 48) 3-Nitroaniline             | 14.34 | 138  | 20837    | 2.60 | ng/ul  | 96       |
| 49) Acenaphthene               | 14.49 | 153  | 87119    | 2.91 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 8748     | 1.64 | ng/ul  | 87       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 24523    | 3.17 | ng/ul# | 86       |
| 53) Dibenzofuran               | 14.83 | 168  | 136372   | 3.05 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 14.80 | 165  | 33142    | 2.76 | ng/ul# | 98       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.06 | 232  | 30315    | 2.70 | ng/ul  | 96       |
| 56) Diethylphthalate           | 15.25 | 149  | 118983   | 2.97 | ng/ul  | 99       |
| 58) Fluorene                   | 15.48 | 166  | 114661   | 3.11 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.47 | 204  | 60686    | 3.15 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.50 | 138  | 25203    | 2.77 | ng/ul  | 89       |
| 63) 4,6-Dinitro-2-methylphenol | 15.56 | 198  | 23821    | 2.85 | ng/ul# | 59       |
| 64) N-Nitrosodiphenylamine     | 15.69 | 169  | 100955   | 2.90 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.37 | 248  | 40568    | 2.89 | ng/ul  | 96       |
| 66) Hexachlorobenzene          | 16.48 | 284  | 46533    | 2.96 | ng/ul  | 96       |
| 67) Atrazine                   | 16.63 | 200  | 40631    | 2.77 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.83 | 266  | 21708    | 2.14 | ng/ul  | 92       |
| 69) Phenanthrene               | 17.22 | 178  | 201243   | 3.01 | ng/ul  | 100      |
| 71) Anthracene                 | 17.30 | 178  | 205079   | 2.97 | ng/ul  | 99       |
| 72) Carbazole                  | 17.58 | 167  | 182372   | 3.04 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.14 | 149  | 204959   | 2.72 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.23 | 202  | 271183   | 3.23 | ng/ul  | 97       |
| 77) Pyrene                     | 19.59 | 202  | 297454   | 2.92 | ng/ul  | 96       |
| 78) Butylbenzylphthalate       | 20.49 | 149  | 93846    | 2.21 | ng/ul  | 92       |
| 79) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 104321   | 2.77 | ng/ul  | 96       |
| 80) Benzo(a)anthracene         | 21.34 | 228  | 334940   | 2.99 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.27 | 149  | 151764   | 2.47 | ng/ul  | 97       |
| 82) Chrysene                   | 21.39 | 228  | 305709   | 3.02 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.16 | 149  | 268385   | 2.52 | ng/ul  | 99       |
| 85) Benzo(b)fluoranthene       | 22.94 | 252  | 365804   | 2.89 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.99 | 252  | 355545   | 3.04 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.53 | 252  | 376684   | 3.11 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.91 | 276  | 453927   | 3.05 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.93 | 278  | 383750   | 3.10 | ng/ul  | 96       |
| 91) Benzo(g,h,i)perylene       | 26.61 | 276  | 381366   | 3.02 | ng/ul  | 96       |

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

