

Data Path : Z:\HPCHEM1\BNA N\DATA\BN032318\  
 Data File : BN000613.D  
 Acq On : 24 Mar 2018 11:27  
 Operator : JU/SJ  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD02033

Quant Time: Mar 26 01:28:47 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN031918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Mar 26 01:26:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.41  | 152  | 184801   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.25 | 136  | 812879   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 15.04 | 164  | 449599   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.76 | 188  | 945306   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.89 | 240  | 669050   | 20.00 | ng/ul | 0.01     |
| 83) Perylene-d12          | 24.37 | 264  | 594401   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 33782  | 6.53  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.56  | 99  | 339296 | 19.68 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.72  | 67  | 191788 | 19.29 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.94  | 132 | 255864 | 19.63 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.13  | 113 | 273610 | 20.37 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.60  | 128 | 125903 | 19.07 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.33 | 143 | 134507 | 19.67 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.87 | 165 | 247839 | 20.22 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.38 | 131 | 320943 | 25.50 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.42 | 166 | 703282 | 19.80 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.74 | 160 | 925777 | 19.76 | ng/ul | 0.01 |
| 51) 4-Nitrophenol-d4           | 15.22 | 143 | 123465 | 18.72 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 16.02 | 176 | 604853 | 19.98 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.14 | 200 | 71282  | 13.17 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.86 | 188 | 884552 | 19.47 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.12 | 212 | 845819 | 22.90 | ng/ul | 0.01 |
| 87) Benzo(a)pyrene-d12         | 24.21 | 264 | 553647 | 19.73 | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |        |        | Ovalue |     |
|--------------------------------|-------|-----|--------|--------|--------|-----|
| 2) 1,4-Dioxane                 | 3.63  | 88  | 35498  | 6.372  | ng/uL# | 87  |
| 4) Benzaldehyde                | 7.53  | 77  | 145077 | 20.639 | ng/ul  | 93  |
| 6) Phenol                      | 7.58  | 94  | 345534 | 19.644 | ng/ul  | 95  |
| 8) Bis(2-Chloroethyl)ether     | 7.81  | 93  | 268799 | 19.258 | ng/ul  | 95  |
| 10) 2-Chlorophenol             | 7.97  | 128 | 259402 | 19.489 | ng/ul  | 97  |
| 11) 2-Methylphenol             | 8.86  | 108 | 260848 | 20.220 | ng/ul  | 95  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.94  | 45  | 285982 | 19.011 | ng/ul# | 92  |
| 14) Acetophenone               | 9.25  | 105 | 411932 | 20.635 | ng/ul  | 97  |
| 15) N-Nitroso-di-n-propylamine | 9.22  | 70  | 204826 | 19.617 | ng/ul  | 93  |
| 16) 4-Methylphenol             | 9.19  | 108 | 280093 | 20.280 | ng/ul  | 98  |
| 17) Hexachloroethane           | 9.51  | 117 | 107912 | 19.432 | ng/ul# | 76  |
| 20) Nitrobenzene               | 9.64  | 77  | 311932 | 19.140 | ng/ul  | 96  |
| 21) Isophorone                 | 10.16 | 82  | 595551 | 19.170 | ng/ul  | 99  |
| 23) 2-Nitrophenol              | 10.35 | 139 | 144314 | 19.619 | ng/ul  | 92  |
| 24) 2,4-Dimethylphenol         | 10.40 | 107 | 308258 | 19.454 | ng/ul  | 97  |
| 25) Bis(2-Chloroethoxy)methane | 10.63 | 93  | 366860 | 18.697 | ng/ul  | 99  |
| 27) 2,4-Dichlorophenol         | 10.90 | 162 | 240348 | 20.199 | ng/ul# | 95  |
| 28) Naphthalene                | 11.31 | 128 | 833225 | 19.519 | ng/ul  | 99  |
| 30) 4-Chloroaniline            | 11.41 | 127 | 321577 | 25.176 | ng/ul  | 98  |
| 31) Hexachlorobutadiene        | 11.57 | 225 | 138503 | 21.006 | ng/ul  | 97  |
| 32) Caprolactam                | 12.16 | 113 | 91001  | 20.921 | ng/ul  | 85  |
| 33) 4-Chloro-3-methylphenol    | 12.51 | 107 | 293033 | 20.948 | ng/ul  | 96  |
| 34) 2-Methylnaphthalene        | 12.88 | 142 | 576299 | 20.221 | ng/ul  | 100 |

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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 | 13.25 | 216  | 270898   | 20.056 | ng/ul# | 95       |
| 37) Hexachlorocyclopentadiene  | 13.21 | 237  | 89870    | 12.760 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 13.48 | 196  | 182955   | 19.969 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 13.56 | 196  | 190427   | 19.933 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.87 | 154  | 731511   | 19.113 | ng/ul# | 95       |
| 41) 2-Chloronaphthalene        | 13.92 | 162  | 571093   | 19.357 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 14.12 | 65   | 178427   | 19.960 | ng/ul  | 96       |
| 44) Dimethylphthalate          | 14.47 | 163  | 691189   | 19.673 | ng/ul# | 98       |
| 45) 2,6-Dinitrotoluene         | 14.61 | 165  | 148073   | 20.914 | ng/ul  | 95       |
| 47) Acenaphthylene             | 14.77 | 152  | 894699   | 19.490 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.94 | 138  | 163481   | 23.916 | ng/ul# | 94       |
| 49) Acenaphthene               | 15.10 | 153  | 608282   | 19.435 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 15.15 | 184  | 52322    | 15.664 | ng/ul# | 79       |
| 52) 4-Nitrophenol              | 15.24 | 109  | 101096   | 19.835 | ng/ul  | 90       |
| 53) Dibenzofuran               | 15.43 | 168  | 848585   | 19.962 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 15.39 | 165  | 211518   | 21.073 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.65 | 232  | 148273   | 20.325 | ng/ul# | 89       |
| 56) Diethylphthalate           | 15.81 | 149  | 724444   | 20.201 | ng/ul  | 95       |
| 58) Fluorene                   | 16.07 | 166  | 673510   | 19.937 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 16.05 | 204  | 319407   | 20.462 | ng/ul# | 85       |
| 60) 4-Nitroaniline             | 16.09 | 138  | 180821   | 23.546 | ng/ul  | 93       |
| 63) 4,6-Dinitro-2-methylphenol | 16.15 | 198  | 75289    | 13.173 | ng/ul# | 90       |
| 64) N-Nitrosodiphenylamine     | 16.27 | 169  | 581737   | 18.680 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.94 | 248  | 193621   | 20.095 | ng/ul# | 89       |
| 66) Hexachlorobenzene          | 17.07 | 284  | 213027   | 20.938 | ng/ul# | 86       |
| 67) Atrazine                   | 17.20 | 200  | 205217   | 21.849 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 17.41 | 266  | 119758   | 22.296 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.81 | 178  | 1043612  | 19.163 | ng/ul  | 100      |
| 71) Anthracene                 | 17.90 | 178  | 1070898  | 19.178 | ng/ul  | 97       |
| 72) Carbazole                  | 18.16 | 167  | 956337   | 19.971 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.67 | 149  | 1267351  | 19.462 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.78 | 202  | 1102341  | 20.370 | ng/ul# | 82       |
| 77) Pyrene                     | 20.15 | 202  | 1069783  | 21.892 | ng/ul# | 81       |
| 78) Butylbenzylphthalate       | 20.99 | 149  | 538947   | 22.203 | ng/ul  | 90       |
| 79) 3,3'-Dichlorobenzidine     | 21.78 | 252  | 224538   | 17.178 | ng/ul# | 96       |
| 80) Benzo(a)anthracene         | 21.87 | 228  | 839648   | 18.835 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.74 | 149  | 749123   | 21.258 | ng/ul# | 96       |
| 82) Chrysene                   | 21.92 | 228  | 780303   | 18.672 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.69 | 149  | 1195720  | 23.900 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 23.61 | 252  | 737755   | 19.643 | ng/ul# | 95       |
| 86) Benzo(k)fluoranthene       | 23.66 | 252  | 681512   | 18.796 | ng/ul# | 94       |
| 88) Benzo(a)pyrene             | 24.26 | 252  | 677247   | 19.159 | ng/ul# | 94       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.94 | 276  | 769510   | 20.189 | ng/ul# | 85       |
| 90) Dibenzo(a,h)anthracene     | 26.94 | 278  | 642298   | 20.228 | ng/ul# | 93       |
| 91) Benzo(g,h,i)perylene       | 27.73 | 276  | 643902   | 20.329 | ng/ul# | 91       |

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

