

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022420\  
 Data File : BN009862.D  
 Acq On : 24 Feb 2020 10:51  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 SSTD02057

Manual Integrations  
 APPROVED

mohammad  
 2/25/2020 3:39:38 PM

Quant Time: Feb 24 14:17:19 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 24 14:00:16 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 105755   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.13 | 136  | 438479   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.03 | 164  | 283448   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.79 | 188  | 624231   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.00 | 240  | 584450   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.10 | 264  | 629314   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.03  | 96  | 20858  | 8.11  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.59  | 99  | 168839 | 18.77 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.75  | 67  | 123898 | 19.96 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.93  | 132 | 134630 | 19.88 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.10  | 113 | 137205 | 19.17 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.53  | 128 | 65434  | 20.40 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.24  | 143 | 69769  | 19.88 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.77  | 165 | 136573 | 20.24 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.29 | 131 | 154481 | 20.38 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.45 | 166 | 406077 | 19.18 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.71 | 160 | 496707 | 19.92 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.27 | 143 | 68368  | 17.68 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.03 | 176 | 364995 | 19.97 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.19 | 200 | 66450  | 17.14 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.89 | 188 | 563646 | 19.70 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.19 | 212 | 624602 | 20.45 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 22.97 | 264 | 624098 | 19.86 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue   |
|--------------------------------|-------|-----|---------|--------|----------|
| 2) 1,4-Dioxane                 | 3.06  | 88  | 23979   | 8.118  | ng/uL 93 |
| 4) Benzaldehyde                | 6.55  | 77  | 126878  | 21.210 | ng/ul 89 |
| 6) Phenol                      | 6.62  | 94  | 179813  | 18.654 | ng/ul 93 |
| 8) Bis(2-Chloroethyl)ether     | 6.83  | 93  | 145547  | 19.211 | ng/ul 93 |
| 10) 2-Chlorophenol             | 6.96  | 128 | 141866  | 19.888 | ng/ul 98 |
| 11) 2-Methylphenol             | 7.84  | 108 | 136985  | 19.420 | ng/ul 95 |
| 12) 2,2'-oxybis(1-Chloropropan | 7.91  | 45  | 417202  | 22.463 | ng/ul 98 |
| 14) Acetophenone               | 8.20  | 105 | 226860  | 19.457 | ng/ul 97 |
| 15) N-Nitroso-di-n-propylamine | 8.19  | 70  | 124341  | 20.409 | ng/ul 90 |
| 16) 4-Methylphenol             | 8.16  | 108 | 147224  | 19.021 | ng/ul 91 |
| 17) Hexachloroethane           | 8.43  | 117 | 65942   | 20.319 | ng/ul 97 |
| 20) Nitrobenzene               | 8.57  | 77  | 196450  | 20.783 | ng/ul 99 |
| 21) Isophorone                 | 9.09  | 82  | 332941  | 20.013 | ng/ul 99 |
| 23) 2-Nitrophenol              | 9.27  | 139 | 77356   | 19.700 | ng/ul 97 |
| 24) 2,4-Dimethylphenol         | 9.35  | 107 | 173230  | 20.318 | ng/ul 97 |
| 25) Bis(2-Chloroethoxy)methane | 9.58  | 93  | 203888  | 20.053 | ng/ul 97 |
| 27) 2,4-Dichlorophenol         | 9.80  | 162 | 134967m | 19.829 | ng/ul    |
| 28) Naphthalene                | 10.18 | 128 | 473968  | 20.045 | ng/ul 99 |
| 30) 4-Chloroaniline            | 10.31 | 127 | 157365  | 20.273 | ng/ul 96 |
| 31) Hexachlorobutadiene        | 10.47 | 225 | 88226   | 19.382 | ng/ul 91 |
| 32) Caprolactam                | 11.09 | 113 | 38609   | 16.914 | ng/ul 81 |
| 33) 4-Chloro-3-methylphenol    | 11.45 | 107 | 158975  | 20.426 | ng/ul 98 |
| 34) 2-Methylnaphthalene        | 11.80 | 142 | 327309  | 19.935 | ng/ul 96 |

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 Quant Title : SVOA CALIBRATION  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.03 | 142  | 325069   | 19.752 | ng/uL  | 99       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.19 | 216  | 164149   | 19.538 | ng/uL  | 95       |
| 38) Hexachlorocyclopentadiene  | 12.16 | 237  | 58690    | 16.146 | ng/uL  | 97       |
| 39) 2,4,6-Trichlorophenol      | 12.44 | 196  | 104181   | 19.538 | ng/uL  | 95       |
| 40) 2,4,5-Trichlorophenol      | 12.52 | 196  | 113129   | 19.776 | ng/uL  | 99       |
| 41) 1,1'-Biphenyl              | 12.85 | 154  | 433921   | 19.932 | ng/uL  | 95       |
| 42) 2-Chloronaphthalene        | 12.89 | 162  | 342492   | 19.809 | ng/uL  | 98       |
| 43) 2-Nitroaniline             | 13.11 | 65   | 132273   | 20.920 | ng/uL  | 98       |
| 45) Dimethylphthalate          | 13.50 | 163  | 439301   | 19.885 | ng/uL  | 99       |
| 46) 2,6-Dinitrotoluene         | 13.62 | 165  | 86904    | 20.094 | ng/uL  | 95       |
| 48) Acenaphthylene             | 13.74 | 152  | 550003   | 20.379 | ng/uL  | 99       |
| 49) 3-Nitroaniline             | 13.96 | 138  | 76735    | 19.218 | ng/uL  | 99       |
| 50) Acenaphthene               | 14.09 | 153  | 365189   | 19.738 | ng/uL  | 96       |
| 51) 2,4-Dinitrophenol          | 14.19 | 184  | 38219    | 15.393 | ng/uL  | 99       |
| 53) 4-Nitrophenol              | 14.29 | 109  | 68562    | 19.651 | ng/uL  | 84       |
| 54) Dibenzofuran               | 14.43 | 168  | 523254   | 20.150 | ng/uL  | 97       |
| 55) 2,4-Dinitrotoluene         | 14.43 | 165  | 130484   | 20.357 | ng/uL# | 87       |
| 56) 2,3,4,6-Tetrachlorophenol  | 14.67 | 232  | 97154    | 19.753 | ng/uL  | 97       |
| 57) Diethylphthalate           | 14.89 | 149  | 455651   | 20.086 | ng/uL  | 98       |
| 59) Fluorene                   | 15.09 | 166  | 436385   | 20.024 | ng/uL  | 94       |
| 60) 4-Chlorophenyl-phenylether | 15.09 | 204  | 208674   | 19.414 | ng/uL  | 99       |
| 61) 4-Nitroaniline             | 15.13 | 138  | 86757    | 17.818 | ng/uL  | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 15.20 | 198  | 74234    | 17.771 | ng/uL  | 98       |
| 65) N-Nitrosodiphenylamine     | 15.31 | 169  | 369032   | 19.925 | ng/uL  | 99       |
| 66) 4-Bromophenyl-phenylether  | 15.99 | 248  | 122276   | 19.576 | ng/uL  | 97       |
| 67) Hexachlorobenzene          | 16.10 | 284  | 135476   | 19.601 | ng/uL  | 92       |
| 68) Atrazine                   | 16.28 | 200  | 134924   | 19.204 | ng/uL  | 95       |
| 69) Pentachlorophenol          | 16.45 | 266  | 66983    | 16.770 | ng/uL  | 88       |
| 70) Phenanthrene               | 16.83 | 178  | 706535   | 19.833 | ng/uL  | 99       |
| 72) Anthracene                 | 16.92 | 178  | 725938   | 19.933 | ng/uL  | 98       |
| 73) 1,2,3,4-Tetrachlorobenzene | 12.81 | 216  | 170938   | 18.744 | ng/uL  | 98       |
| 74) Pentachlorobenzene         | 14.36 | 250  | 170996   | 19.443 | ng/uL  | 98       |
| 75) Carbazole                  | 17.20 | 167  | 616859   | 19.234 | ng/uL  | 99       |
| 76) Di-n-butylphthalate        | 17.78 | 149  | 787214   | 19.887 | ng/uL  | 99       |
| 77) Fluoranthene               | 18.86 | 202  | 803801   | 19.262 | ng/uL  | 99       |
| 80) Pvrene                     | 19.22 | 202  | 845934   | 20.076 | ng/uL  | 98       |
| 81) Butylbenzylphthalate       | 20.16 | 149  | 348414   | 20.114 | ng/uL  | 99       |
| 82) 3,3'-Dichlorobenzidine     | 20.93 | 252  | 237422   | 18.632 | ng/uL# | 97       |
| 83) Benzo(a)anthracene         | 20.99 | 228  | 801511   | 19.956 | ng/uL  | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 20.95 | 149  | 543827   | 20.564 | ng/uL  | 98       |
| 85) Chrysene                   | 21.04 | 228  | 793031   | 20.056 | ng/uL  | 99       |
| 87) Di-n-octyl phthalate       | 21.80 | 149  | 909207   | 19.089 | ng/uL  | 100      |
| 88) Benzo(b)fluoranthene       | 22.49 | 252  | 799710   | 19.600 | ng/uL  | 98       |
| 89) Benzo(k)fluoranthene       | 22.53 | 252  | 770526   | 19.944 | ng/uL  | 98       |
| 91) Benzo(a)pyrene             | 23.01 | 252  | 741833   | 20.215 | ng/uL  | 100      |
| 92) Indeno(1,2,3-cd)pyrene     | 25.14 | 276  | 863436   | 19.817 | ng/uL  | 98       |
| 93) Dibenzo(a,h)anthracene     | 25.14 | 278  | 727412   | 19.516 | ng/uL  | 98       |
| 94) Benzo(a,h,i)perylene       | 25.76 | 276  | 722297   | 19.771 | ng/uL  | 98       |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

