

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN053119\  
 Data File : BN005972.D  
 Acq On : 31 May 2019 09:16  
 Operator : JU/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 SSTD02004

Manual Integrations  
 APPROVED

mohammad  
 6/5/2019 6:10:24 AM

Quant Time: May 31 14:03:15 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 02:28:30 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 539441   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.52 | 136  | 2387211  | 20.00 | ng/ul | 0.01     |
| 35) Acenaphthene-d10      | 14.39 | 164  | 1321253  | 20.00 | ng/ul | 0.02     |
| 61) Phenanthrene-d10      | 17.14 | 188  | 2595051  | 20.00 | ng/ul | 0.03     |
| 77) Chrysene-d12          | 21.36 | 240  | 1795281  | 20.00 | ng/ul | 0.03     |
| 85) Perylene-d12          | 23.64 | 264  | 1977095  | 20.00 | ng/ul | 0.05     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 96687   | 7.89  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 954861  | 19.97 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.07  | 67  | 545297  | 19.99 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.27  | 132 | 745964  | 20.48 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.44  | 113 | 754652  | 19.55 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.89  | 128 | 362967  | 23.69 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.61  | 143 | 387807  | 27.18 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.14 | 165 | 730107  | 21.67 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.66 | 131 | 944092  | 21.37 | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.79 | 166 | 1967357 | 20.20 | ng/ul | 0.01 |
| 46) Acenaphthylene-d8          | 14.08 | 160 | 2566439 | 21.06 | ng/ul | 0.02 |
| 51) 4-Nitrophenol-d4           | 14.59 | 143 | 353760  | 19.96 | ng/ul | 0.03 |
| 57) Fluorene-d10               | 15.38 | 176 | 1653568 | 20.24 | ng/ul | 0.02 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 251705  | 23.80 | ng/ul | 0.03 |
| 70) Anthracene-d10             | 17.24 | 188 | 2362727 | 21.39 | ng/ul | 0.02 |
| 78) Pyrene-d10                 | 19.55 | 212 | 2180599 | 24.05 | ng/ul | 0.03 |
| 89) Benzo(a)pyrene-d12         | 23.49 | 264 | 1845129 | 20.91 | ng/ul | 0.04 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.29  | 88  | 106122  | 8.173  | ng/uL 94  |
| 4) Benzaldehyde                | 6.88  | 77  | 643119  | 19.483 | ng/ul 97  |
| 6) Phenol                      | 6.92  | 94  | 979903  | 19.891 | ng/ul 91  |
| 8) Bis(2-Chloroethyl)ether     | 7.16  | 93  | 761863  | 20.026 | ng/ul 92  |
| 10) 2-Chlorophenol             | 7.29  | 128 | 759391  | 20.510 | ng/ul 94  |
| 11) 2-Methylphenol             | 8.17  | 108 | 746180  | 19.658 | ng/ul 95  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.25  | 45  | 994524  | 19.630 | ng/ul# 92 |
| 14) Acetophenone               | 8.55  | 105 | 1152629 | 19.806 | ng/ul 95  |
| 15) N-Nitroso-di-n-propylamine | 8.54  | 70  | 595055  | 19.109 | ng/ul 87  |
| 16) 4-Methylphenol             | 8.49  | 108 | 809949  | 19.437 | ng/ul 96  |
| 17) Hexachloroethane           | 8.81  | 117 | 306512  | 20.758 | ng/ul 94  |
| 20) Nitrobenzene               | 8.93  | 77  | 857874  | 21.935 | ng/ul 91  |
| 21) Isophorone                 | 9.45  | 82  | 1689214 | 19.839 | ng/ul 98  |
| 23) 2-Nitrophenol              | 9.64  | 139 | 422276  | 25.282 | ng/ul 93  |
| 24) 2,4-Dimethylphenol         | 9.70  | 107 | 874769  | 20.903 | ng/ul 96  |
| 25) Bis(2-Chloroethoxy)methane | 9.94  | 93  | 1060039 | 20.454 | ng/ul 99  |
| 27) 2,4-Dichlorophenol         | 10.17 | 162 | 713663  | 21.396 | ng/ul 99  |
| 28) Naphthalene                | 10.57 | 128 | 2386936 | 21.068 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.68 | 127 | 954475  | 21.539 | ng/ul 99  |
| 31) Hexachlorobutadiene        | 10.86 | 225 | 420982  | 22.712 | ng/ul 99  |
| 32) Caprolactam                | 11.44 | 113 | 243753  | 18.310 | ng/ul# 72 |
| 33) 4-Chloro-3-methylphenol    | 11.81 | 107 | 802259  | 19.948 | ng/ul 96  |
| 34) 2-Methylnaphthalene        | 12.19 | 142 | 1703638 | 20.413 | ng/ul 97  |

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 02:28:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.57 | 216  | 816859   | 23.149 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.54 | 237  | 449041   | 21.860 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.81 | 196  | 539954   | 23.255 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.88 | 196  | 583081   | 22.970 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.21 | 154  | 2144575  | 21.884 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.25 | 162  | 1629696  | 21.957 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.46 | 65   | 479626   | 24.429 | ng/ul  | 87       |
| 44) Dimethylphthalate          | 13.85 | 163  | 1958757  | 20.120 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.97 | 165  | 402108   | 23.961 | ng/ul  | 93       |
| 47) Acenaphthylene             | 14.11 | 152  | 2527549  | 21.154 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.29 | 138  | 411928   | 22.610 | ng/ul# | 91       |
| 49) Acenaphthene               | 14.45 | 153  | 1700185  | 20.946 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.50 | 184  | 149775   | 20.055 | ng/ul  | 90       |
| 52) 4-Nitrophenol              | 14.60 | 109  | 271701   | 19.554 | ng/ul  | 86       |
| 53) Dibenzofuran               | 14.79 | 168  | 2384057  | 20.806 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.75 | 165  | 553968   | 22.145 | ng/ul  | 94       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.02 | 232  | 455386   | 21.826 | ng/ul  | 99       |
| 56) Diethylphthalate           | 15.22 | 149  | 1961654  | 19.359 | ng/ul  | 100      |
| 58) Fluorene                   | 15.44 | 166  | 1842321  | 20.471 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.44 | 204  | 898361   | 20.949 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.46 | 138  | 453881   | 20.573 | ng/ul  | 89       |
| 63) 4,6-Dinitro-2-methylphenol | 15.52 | 198  | 266447   | 22.905 | ng/ul  | 95       |
| 64) N-Nitrosodiphenylamine     | 15.65 | 169  | 1633463  | 22.578 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.34 | 248  | 547199   | 22.705 | ng/ul  | 98       |
| 66) Hexachlorobenzene          | 16.45 | 284  | 586372   | 22.644 | ng/ul  | 99       |
| 67) Atrazine                   | 16.61 | 200  | 546029   | 21.335 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.79 | 266  | 331347   | 21.751 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.18 | 178  | 2723564  | 21.183 | ng/ul  | 99       |
| 71) Anthracene                 | 17.28 | 178  | 2791604  | 21.386 | ng/ul  | 100      |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.18 | 216  | 834059   | 25.900 | ng/uL  | 99       |
| 73) Pentachlorobenzene         | 14.71 | 250  | 732673   | 24.565 | ng/uL  | 100      |
| 74) Carbazole                  | 17.54 | 167  | 2478426  | 21.076 | ng/ul  | 100      |
| 75) Di-n-butylphthalate        | 18.12 | 149  | 3055178  | 19.879 | ng/ul  | 99       |
| 76) Fluoranthene               | 19.21 | 202  | 2764524  | 20.141 | ng/ul# | 94       |
| 79) Pvrene                     | 19.58 | 202  | 2793738  | 24.566 | ng/ul  | 96       |
| 80) Butylbenzylphthalate       | 20.49 | 149  | 1197424  | 23.430 | ng/ul  | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.28 | 252  | 766248   | 21.492 | ng/ul  | 98       |
| 82) Benzo(a)anthracene         | 21.34 | 228  | 2381819  | 21.105 | ng/ul  | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.28 | 149  | 1687713  | 22.783 | ng/ul  | 99       |
| 84) Chrysene                   | 21.39 | 228  | 2235708  | 21.241 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 22.18 | 149  | 2894607  | 24.813 | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.95 | 252  | 2272373  | 20.463 | ng/ul  | 99       |
| 88) Benzo(k)fluoranthene       | 23.00 | 252  | 2199533m | 21.543 | ng/ul  |          |
| 90) Benzo(a)pyrene             | 23.54 | 252  | 2205782  | 21.063 | ng/ul  | 98       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.94 | 276  | 2653614  | 21.595 | ng/ul# | 95       |
| 92) Dibenzo(a,h)anthracene     | 25.96 | 278  | 2235110  | 21.847 | ng/ul  | 98       |
| 93) Benzo(g,h,i)perylene       | 26.65 | 276  | 2265049  | 21.886 | ng/ul  | 97       |

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

