

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122419\  
 Data File : BN009151.D  
 Acq On : 25 Dec 2019 06:30  
 Operator : JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD02059

Manual Integrations  
 APPROVED

mohammad  
 12/26/2019 4:05:28 PM

Quant Time: Dec 25 07:39:39 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN122419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 25 01:06:45 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 298543   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.28 | 136  | 1379141  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.16 | 164  | 965165   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.90 | 188  | 2108274  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.12 | 240  | 1994056  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.25 | 264  | 1992625  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 49824   | 7.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.72  | 99  | 537768  | 18.95 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.88  | 67  | 344582  | 18.95 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.06  | 132 | 397356  | 19.55 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.23  | 113 | 447212  | 19.52 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.66  | 128 | 208280  | 20.05 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.38  | 143 | 231900  | 20.00 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.91  | 165 | 445722  | 20.36 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.42 | 131 | 564407  | 21.40 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.58 | 166 | 1415696 | 19.53 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.85 | 160 | 1697679 | 19.98 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.37 | 143 | 278625  | 19.33 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.16 | 176 | 1223555 | 19.38 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.29 | 200 | 236174  | 17.96 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.00 | 188 | 1927573 | 19.66 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.30 | 212 | 2034364 | 19.55 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.12 | 264 | 1934026 | 19.26 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.17  | 88  | 52568   | 7.414  | ng/uL 92  |
| 4) Benzaldehyde                | 6.68  | 77  | 383774  | 21.568 | ng/ul 97  |
| 6) Phenol                      | 6.74  | 94  | 562458  | 19.162 | ng/ul 99  |
| 8) Bis(2-Chloroethyl)ether     | 6.96  | 93  | 439491  | 19.473 | ng/ul 98  |
| 10) 2-Chlorophenol             | 7.10  | 128 | 400206  | 19.301 | ng/ul 95  |
| 11) 2-Methylphenol             | 7.97  | 108 | 423388  | 19.198 | ng/ul 95  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.06  | 45  | 908047  | 18.973 | ng/ul 98  |
| 14) Acetophenone               | 8.34  | 105 | 695450  | 19.808 | ng/ul 98  |
| 15) N-Nitroso-di-n-propylamine | 8.33  | 70  | 387597  | 19.912 | ng/ul 95  |
| 16) 4-Methylphenol             | 8.30  | 108 | 479286  | 19.775 | ng/ul 97  |
| 17) Hexachloroethane           | 8.59  | 117 | 172002  | 19.615 | ng/ul 99  |
| 20) Nitrobenzene               | 8.70  | 77  | 547319  | 19.400 | ng/ul 98  |
| 21) Isophorone                 | 9.23  | 82  | 1102240 | 20.296 | ng/ul 98  |
| 23) 2-Nitrophenol              | 9.41  | 139 | 251550  | 20.268 | ng/ul 94  |
| 24) 2,4-Dimethylphenol         | 9.48  | 107 | 530926  | 19.946 | ng/ul 98  |
| 25) Bis(2-Chloroethoxy)methane | 9.72  | 93  | 650231  | 19.571 | ng/ul 100 |
| 27) 2,4-Dichlorophenol         | 9.94  | 162 | 433105  | 20.146 | ng/ul 96  |
| 28) Naphthalene                | 10.33 | 128 | 1420655 | 19.301 | ng/ul 100 |
| 30) 4-Chloroaniline            | 10.45 | 127 | 559669  | 21.129 | ng/ul 99  |
| 31) Hexachlorobutadiene        | 10.63 | 225 | 263584  | 19.483 | ng/ul 99  |
| 32) Caprolactam                | 11.22 | 113 | 169347m | 20.113 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.58 | 107 | 545214  | 20.543 | ng/ul 96  |
| 34) 2-Methylnaphthalene        | 11.95 | 142 | 1041372 | 19.625 | ng/ul 96  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.33 | 216  | 526935   | 19.349 | ng/ul | 99       |
| 37) Hexachlorocyclopentadiene  | 12.31 | 237  | 269841   | 16.125 | ng/ul | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.57 | 196  | 363441   | 19.958 | ng/ul | 95       |
| 39) 2,4,5-Trichlorophenol      | 12.65 | 196  | 392061   | 20.135 | ng/ul | 94       |
| 40) 1,1'-Biphenyl              | 12.98 | 154  | 1411508  | 19.741 | ng/ul | 99       |
| 41) 2-Chloronaphthalene        | 13.02 | 162  | 1111271  | 19.911 | ng/ul | 98       |
| 42) 2-Nitroaniline             | 13.23 | 65   | 412458   | 19.973 | ng/ul | 95       |
| 44) Dimethylphthalate          | 13.63 | 163  | 1433160  | 19.332 | ng/ul | 99       |
| 45) 2,6-Dinitrotoluene         | 13.74 | 165  | 303420   | 20.354 | ng/ul | 94       |
| 47) Acenaphthylene             | 13.87 | 152  | 1819983  | 19.950 | ng/ul | 100      |
| 48) 3-Nitroaniline             | 14.06 | 138  | 297704   | 20.398 | ng/ul | 98       |
| 49) Acenaphthene               | 14.22 | 153  | 1210188  | 19.772 | ng/ul | 98       |
| 50) 2,4-Dinitrophenol          | 14.28 | 184  | 161835   | 17.380 | ng/ul | 98       |
| 52) 4-Nitrophenol              | 14.39 | 109  | 218581   | 19.009 | ng/ul | 98       |
| 53) Dibenzofuran               | 14.56 | 168  | 1659423  | 19.311 | ng/ul | 97       |
| 54) 2,4-Dinitrotoluene         | 14.53 | 165  | 437536   | 20.064 | ng/ul | 96       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.79 | 232  | 345269   | 19.452 | ng/ul | 96       |
| 56) Diethylphthalate           | 15.00 | 149  | 1481041  | 18.495 | ng/ul | 99       |
| 58) Fluorene                   | 15.21 | 166  | 1398363  | 19.474 | ng/ul | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.22 | 204  | 692552   | 19.244 | ng/ul | 99       |
| 60) 4-Nitroaniline             | 15.24 | 138  | 342890   | 19.774 | ng/ul | 89       |
| 63) 4,6-Dinitro-2-methylphenol | 15.30 | 198  | 252230   | 18.197 | ng/ul | 100      |
| 64) N-Nitrosodiphenylamine     | 15.43 | 169  | 1223837  | 20.176 | ng/ul | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.11 | 248  | 420523   | 19.794 | ng/ul | 96       |
| 66) Hexachlorobenzene          | 16.22 | 284  | 460431   | 19.446 | ng/ul | 96       |
| 67) Atrazine                   | 16.39 | 200  | 449411   | 19.463 | ng/ul | 97       |
| 68) Pentachlorophenol          | 16.56 | 266  | 280726   | 18.929 | ng/ul | 91       |
| 69) Phenanthrene               | 16.95 | 178  | 2241333  | 19.282 | ng/ul | 99       |
| 71) Anthracene                 | 17.04 | 178  | 2334973  | 19.524 | ng/ul | 100      |
| 72) 1,2,3,4-Tetrachlorobenzene | 12.95 | 216  | 549553   | 19.933 | ng/uL | 97       |
| 73) Pentachlorobenzene         | 14.48 | 250  | 533975   | 19.594 | ng/uL | 89       |
| 74) Carbazole                  | 17.31 | 167  | 2041111  | 19.750 | ng/ul | 99       |
| 75) Di-n-butylphthalate        | 17.90 | 149  | 2623503  | 19.284 | ng/ul | 99       |
| 76) Fluoranthene               | 18.97 | 202  | 2714128  | 20.216 | ng/ul | 98       |
| 79) Pvrene                     | 19.34 | 202  | 2763314  | 19.981 | ng/ul | 100      |
| 80) Butylbenzylphthalate       | 20.26 | 149  | 1233266  | 20.275 | ng/ul | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.03 | 252  | 898532   | 19.576 | ng/ul | 93       |
| 82) Benzo(a)anthracene         | 21.10 | 228  | 2636261  | 19.566 | ng/ul | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 21.06 | 149  | 1865967  | 20.014 | ng/ul | 99       |
| 84) Chrysene                   | 21.15 | 228  | 2574241  | 19.881 | ng/ul | 97       |
| 86) Di-n-octyl phthalate       | 21.92 | 149  | 3206279  | 23.947 | ng/ul | 100      |
| 87) Benzo(b)fluoranthene       | 22.62 | 252  | 2462410  | 20.219 | ng/ul | 99       |
| 88) Benzo(k)fluoranthene       | 22.66 | 252  | 2495139  | 20.979 | ng/ul | 99       |
| 90) Benzo(a)pyrene             | 23.16 | 252  | 2207983  | 19.745 | ng/ul | 99       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.35 | 276  | 2232175  | 16.476 | ng/ul | 99       |
| 92) Dibenzo(a,h)anthracene     | 25.36 | 278  | 1932459  | 16.901 | ng/ul | 99       |
| 93) Benzo(g,h,i)perylene       | 25.99 | 276  | 1785872  | 15.754 | ng/ul | 99       |

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

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