

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042220\  
 Data File : VN061128.D  
 Acq On : 22 Apr 2020 14:21  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/24/2020 1:34:58 PM

Quant Time: Apr 22 14:58:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 22 14:48:06 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.40  | 168  | 194414   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.35  | 114  | 318282   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.21 | 117  | 294060   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.15 | 152  | 144931   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.77  | 65   | 126218   | 50.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.20% |          |
| 35) Dibromofluoromethane    | 7.31  | 113  | 89359    | 48.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.18%  |          |
| 50) Toluene-d8              | 9.88  | 98   | 380543   | 52.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.36% |          |
| 62) 4-Bromofluorobenzene    | 12.21 | 95   | 142534   | 50.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.80% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.72 | 85   | 98049    | 44.558  | ug/l  | 100    |
| 3) Chloromethane              | 1.91 | 50   | 113811   | 35.151  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.03 | 62   | 138106   | 48.631  | ug/l  | 100    |
| 5) Bromomethane               | 2.38 | 94   | 67155    | 47.357  | ug/l  | 100    |
| 6) Chloroethane               | 2.52 | 64   | 72806    | 45.284  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 2.82 | 101  | 142341   | 41.506  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.18 | 74   | 65401    | 46.903  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.50 | 101  | 98703    | 47.525  | ug/l  | 100    |
| 10) Methyl Iodide             | 3.68 | 142  | 140248   | 68.698  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 4.44 | 59   | 87822    | 206.688 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 3.49 | 96   | 96796    | 46.202  | ug/l  | 100    |
| 13) Acrolein                  | 3.36 | 56   | 64056    | 181.192 | ug/l  | 100    |
| 14) Allyl chloride            | 4.03 | 41   | 133840   | 35.049  | ug/l  | 100    |
| 15) Acrylonitrile             | 4.64 | 53   | 272085   | 232.328 | ug/l  | 100    |
| 16) Acetone                   | 3.55 | 43   | 232627   | 220.105 | ug/l  | 100    |
| 17) Carbon Disulfide          | 3.78 | 76   | 296963   | 45.343  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.02 | 43   | 154692   | 46.093  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 4.69 | 73   | 346691   | 47.242  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.24 | 84   | 111520   | 47.187  | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 4.70 | 96   | 110748   | 48.859  | ug/l  | 100    |
| 22) Diisopropyl ether         | 5.61 | 45   | 364529   | 44.606  | ug/l  | 100    |
| 23) Vinyl Acetate             | 5.55 | 43   | 1503828  | 233.448 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.51 | 63   | 203495   | 45.844  | ug/l  | 100    |
| 25) 2-Butanone                | 6.51 | 43   | 372969   | 227.865 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 6.50 | 77   | 179679   | 48.262  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 6.51 | 96   | 125533   | 48.377  | ug/l  | 100    |
| 28) Bromochloromethane        | 6.89 | 49   | 86021    | 42.883  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 6.90 | 42   | 252318   | 226.430 | ug/l  | 100    |
| 30) Chloroform                | 7.08 | 83   | 205355   | 49.012  | ug/l  | 100    |
| 31) Cyclohexane               | 7.38 | 56   | 194464   | 42.984  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 7.29 | 97   | 180341   | 49.614  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 7.52 | 75   | 157830   | 48.420  | ug/l  | 100    |
| 37) Ethyl Acetate             | 6.61 | 43   | 160670   | 45.760  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 7.50 | 117  | 141752   | 52.033  | ug/l  | 100    |

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 Quant Title : SW846 8260  
 QLast Update : Wed Apr 22 14:48:06 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.85  | 83   | 194513   | 49.787  | ug/l   | 100      |
| 40) Benzene                    | 7.78  | 78   | 465406   | 48.129  | ug/l   | 100      |
| 41) Methacrylonitrile          | 6.87  | 41   | 77698m   | 52.216  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 7.87  | 62   | 164958   | 49.831  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.92  | 43   | 270643   | 47.300  | ug/l   | 100      |
| 44) Trichloroethene            | 8.60  | 130  | 133769   | 53.703  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 8.89  | 63   | 122065   | 46.910  | ug/l   | 100      |
| 46) Dibromomethane             | 8.98  | 93   | 80739    | 52.926  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.18  | 83   | 161130   | 50.427  | ug/l   | 100      |
| 48) Methyl methacrylate        | 8.98  | 41   | 128605   | 50.493  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 8.98  | 88   | 28244    | 913.710 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 9.78  | 43   | 815415   | 246.442 | ug/l   | 100      |
| 52) Toluene                    | 9.95  | 92   | 293187   | 50.253  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.18 | 75   | 190356   | 51.217  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.63  | 75   | 201717   | 49.930  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.36 | 97   | 113597   | 51.345  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.23 | 69   | 180632   | 52.217  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.51 | 76   | 192574   | 49.121  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.49  | 63   | 453597   | 276.247 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.56 | 43   | 604865   | 252.795 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.71 | 129  | 121121   | 53.060  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.81 | 107  | 119007   | 52.484  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.43 | 164  | 149156   | 62.805  | ug/l   | 100      |
| 65) Chlorobenzene              | 11.24 | 112  | 304089   | 50.045  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.32 | 131  | 110542   | 50.765  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.32 | 91   | 569765   | 49.957  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.43 | 106  | 428115   | 103.228 | ug/l   | 100      |
| 69) o-Xylene                   | 11.76 | 106  | 205261   | 51.471  | ug/l   | 100      |
| 70) Styrene                    | 11.77 | 104  | 343612   | 53.536  | ug/l   | 100      |
| 71) Bromoform                  | 11.93 | 173  | 86531    | 53.279  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.06 | 105  | 551398   | 47.672  | ug/l   | 100      |
| 74) N-amyl acetate             | 11.89 | 43   | 252226   | 47.223  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.32 | 83   | 148421   | 42.935  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.36 | 75   | 168453m  | 52.001  | ug/l   |          |
| 77) Bromobenzene               | 12.33 | 156  | 134492   | 49.403  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.40 | 91   | 652071   | 48.342  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.48 | 91   | 374468   | 47.346  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.55 | 105  | 468040   | 48.986  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.11 | 75   | 65162    | 50.251  | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 12.58 | 91   | 392698   | 47.843  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.81 | 119  | 396559   | 49.183  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 12.85 | 105  | 467125   | 49.426  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.99 | 105  | 534266   | 49.080  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.10 | 119  | 483798   | 49.775  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.09 | 146  | 238450   | 49.378  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.17 | 146  | 240680   | 49.429  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.43 | 91   | 446188   | 49.561  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.68 | 117  | 44598    | 31.995  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.46 | 146  | 224970   | 48.910  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.08 | 75   | 32919    | 48.683  | ug/l   | 100      |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.72 | 180  | 147650   | 53.766 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 14.82 | 225  | 63993    | 46.274 | ug/l  | 100      |
| 95) Naphthalene            | 14.93 | 128  | 464476   | 57.201 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.10 | 180  | 141947   | 53.605 | ug/l  | 100      |

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

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