

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061719\  
 Data File : VN056348.D  
 Acq On : 17 Jun 2019 18:44  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jun 18 05:44:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 18 04:23:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 353224   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 545026   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 487318   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 214331   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.02   | 65  | 204342   | 51.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.90% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 180480   | 51.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.28% |      |
| 50) Toluene-d8              | 10.09  | 98  | 691494   | 51.79 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.58% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 237460   | 53.67 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.34% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 156367  | 50.352  | ug/l | 100    |
| 3) Chloromethane              | 2.06 | 50  | 204204  | 49.040  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.18 | 62  | 203355  | 49.692  | ug/l | 99     |
| 5) Bromomethane               | 2.52 | 94  | 99432   | 41.771  | ug/l | 99     |
| 6) Chloroethane               | 2.67 | 64  | 115612m | 48.776  | ug/l |        |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 252497  | 48.312  | ug/l | 99     |
| 8) Diethyl Ether              | 3.40 | 74  | 103191  | 49.779  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 163001  | 48.222  | ug/l | 99     |
| 10) Methyl Iodide             | 3.94 | 142 | 225036  | 52.022  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.82 | 59  | 149188  | 238.714 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 159427  | 48.636  | ug/l | 98     |
| 13) Acrolein                  | 3.60 | 56  | 42521   | 237.887 | ug/l | 95     |
| 14) Allyl chloride            | 4.31 | 41  | 265200  | 48.241  | ug/l | 99     |
| 15) Acrylonitrile             | 4.99 | 53  | 455340  | 254.927 | ug/l | 99     |
| 16) Acetone                   | 3.82 | 43  | 430748  | 196.276 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.03 | 76  | 373638  | 42.599  | ug/l | 100    |
| 18) Methyl Acetate            | 4.33 | 43  | 192155  | 50.239  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 511614  | 51.177  | ug/l | 98     |
| 20) Methylene Chloride        | 4.54 | 84  | 186673  | 48.171  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 5.03 | 96  | 171695  | 49.242  | ug/l | 97     |
| 22) Diisopropyl ether         | 5.96 | 45  | 548408  | 50.747  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.90 | 43  | 2298518 | 261.429 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 5.84 | 63  | 315620  | 49.816  | ug/l | 99     |
| 25) 2-Butanone                | 6.84 | 43  | 636050  | 239.113 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 6.82 | 77  | 202973  | 44.302  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 198980  | 49.272  | ug/l | 99     |
| 28) Bromochloromethane        | 7.19 | 49  | 158203  | 49.863  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.22 | 42  | 409512  | 259.174 | ug/l | 99     |
| 30) Chloroform                | 7.37 | 83  | 310314  | 49.168  | ug/l | 99     |
| 31) Cyclohexane               | 7.65 | 56  | 297079  | 48.531  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 250577  | 47.932  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 237422  | 48.408  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.93 | 43  | 242378  | 52.147  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 209651  | 44.535  | ug/l | 99     |

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 Sample : VSTDCCC050  
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 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jun 18 05:44:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 18 04:23:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 296502   | 49.562  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 732318   | 49.222  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.18  | 41   | 111810   | 52.388  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 238107   | 48.801  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 368121   | 49.511  | ug/l   | 99       |
| 44) Trichloroethene            | 8.83  | 130  | 197476   | 48.808  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 195884   | 49.817  | ug/l   | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 125753   | 48.126  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.40  | 83   | 230026   | 46.078  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 187378   | 49.951  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.21  | 88   | 74525    | 984.838 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 1193972  | 251.962 | ug/l   | 100      |
| 52) Toluene                    | 10.16 | 92   | 454392   | 50.037  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 237773   | 47.969  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 277597   | 48.554  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 181874   | 48.732  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.43 | 69   | 279201   | 52.019  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 307776   | 48.959  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 552812   | 273.918 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 841198   | 239.356 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 178577   | 45.620  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 189148   | 49.304  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 191116   | 47.823  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 488631   | 49.388  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 171888   | 46.537  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 848894   | 49.847  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 644253   | 101.642 | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 316562   | 50.665  | ug/l   | 99       |
| 70) Styrene                    | 11.96 | 104  | 530037   | 52.544  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 122645   | 42.727  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 831506   | 52.498  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 306674   | 45.532  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 255754   | 51.512  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 207589m  | 45.332  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 218420   | 51.459  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 912553   | 47.433  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 551463   | 52.167  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 691938   | 46.274  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 60912    | 41.327  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 541338   | 47.935  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 598221   | 52.092  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 675640   | 48.523  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 785788   | 46.569  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 708140   | 49.027  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 355676   | 48.756  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 340794   | 48.616  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.61 | 91   | 552790   | 51.190  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 104984   | 42.644  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 349099   | 48.869  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 40367    | 43.588  | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Quant Time: Jun 18 05:44:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 18 04:23:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 164281   | 44.832 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 123239   | 50.329 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 448608   | 46.148 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 185018   | 47.762 | ug/l  | 100      |

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

