

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
 Data File : VN056207.D  
 Acq On : 11 Jun 2019 8:06  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/11/2019 11:58:45 AM

Quant Time: Jun 11 09:09:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 280415   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 409181   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 373537   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 167278   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 141291   | 50.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.50% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 131110   | 52.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.46% |          |
| 50) Toluene-d8              | 10.09 | 98   | 479538   | 49.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.28%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 164639   | 50.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.24% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 143635   | 46.649  | ug/l  | 100    |
| 3) Chloromethane              | 2.06 | 50   | 153875   | 50.622  | ug/l  | 99     |
| 4) Vinyl Chloride             | 2.18 | 62   | 154343   | 50.619  | ug/l  | 99     |
| 5) Bromomethane               | 2.53 | 94   | 94350    | 48.985  | ug/l  | 100    |
| 6) Chloroethane               | 2.68 | 64   | 86951    | 49.184  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 3.00 | 101  | 193578   | 49.731  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.40 | 74   | 76946    | 48.069  | ug/l  | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101  | 118480   | 50.107  | ug/l  | 98     |
| 10) Methyl Iodide             | 3.94 | 142  | 176208   | 46.894  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 4.81 | 59   | 119002   | 245.605 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 3.72 | 96   | 118270   | 50.241  | ug/l  | 96     |
| 13) Acrolein                  | 3.60 | 56   | 49239    | 352.359 | ug/l  | 99     |
| 14) Allyl chloride            | 4.31 | 41   | 181197   | 48.746  | ug/l  | 97     |
| 15) Acrylonitrile             | 4.99 | 53   | 342888   | 290.713 | ug/l  | 99     |
| 16) Acetone                   | 3.82 | 43   | 278804   | 209.369 | ug/l  | 100    |
| 17) Carbon Disulfide          | 4.04 | 76   | 267955   | 47.540  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.33 | 43   | 156383   | 59.900  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73   | 392009   | 52.243  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.54 | 84   | 140772   | 51.311  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 5.03 | 96   | 127596   | 50.588  | ug/l  | 96     |
| 22) Diisopropyl ether         | 5.95 | 45   | 402109   | 52.331  | ug/l  | 98     |
| 23) Vinyl Acetate             | 5.90 | 43   | 1579008  | 260.946 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.84 | 63   | 232935   | 52.553  | ug/l  | 99     |
| 25) 2-Butanone                | 6.84 | 43   | 444936   | 264.452 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 95762    | 27.688  | ug/l  | 94     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 151291   | 51.028  | ug/l  | 93     |
| 28) Bromochloromethane        | 7.19 | 49   | 113196   | 54.004  | ug/l  | 97     |
| 29) Tetrahydrofuran           | 7.22 | 42   | 294939   | 283.593 | ug/l  | 99     |
| 30) Chloroform                | 7.37 | 83   | 237405   | 53.244  | ug/l  | 100    |
| 31) Cyclohexane               | 7.65 | 56   | 201665   | 45.645  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 198346   | 53.270  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 169307   | 48.121  | ug/l  | 99     |
| 37) Ethyl Acetate             | 6.93 | 43   | 175888   | 56.185  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 170643   | 52.606  | ug/l  | 98     |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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 6/11/2019 11:58:45 AM

Quant Time: Jun 11 09:09:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 196159   | 44.756   | ug/l   | 98       |
| 40) Benzene                    | 8.04  | 78   | 545541   | 51.051   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.17  | 41   | 84192    | 58.453   | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 175119   | 50.946   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 269021   | 53.031   | ug/l # | 93       |
| 44) Trichloroethene            | 8.83  | 130  | 154274   | 50.242   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 143537   | 52.440   | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 95752    | 53.495   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.40  | 83   | 182562   | 56.276   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 136857   | 55.144   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.21  | 88   | 58306    | 1088.221 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 888973   | 280.227  | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 341224   | 51.315   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 164885   | 43.671   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 194515   | 49.883   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 142725   | 54.186   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 210630   | 54.813   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 230393   | 53.806   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 348988   | 230.304  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 617577   | 268.601  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.90 | 129  | 154135   | 52.908   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 146580   | 54.435   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 169593   | 52.451   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.43 | 112  | 373216   | 50.203   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 142616   | 55.559   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 639602   | 49.479   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.62 | 106  | 490838   | 99.397   | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 243474   | 50.124   | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 406658   | 52.691   | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 114999   | 53.178   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 632164   | 53.171   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 223181   | 50.051   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 197259   | 50.797   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 156908m  | 50.977   | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 176470   | 49.274   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.59 | 91   | 668940   | 47.270   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 413818   | 52.852   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 518057   | 46.061   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 40155    | 43.445   | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 398199   | 48.096   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 462314   | 53.150   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 510503   | 47.864   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 589047   | 47.001   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 528649   | 47.133   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 278296   | 50.207   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 265833   | 49.855   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.61 | 91   | 376204   | 45.278   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 88809    | 52.503   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 282222   | 50.431   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 32278    | 58.114   | ug/l   | 94       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 56 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

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Quant Time: Jun 11 09:09:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 135105   | 44.339 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 101681   | 53.105 | ug/l  | 100      |
| 95) Naphthalene            | 15.13 | 128  | 361134   | 45.511 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 151226   | 48.232 | ug/l  | 99       |

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

