

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030619\  
 Data File : VN054118.D  
 Acq On : 6 Mar 2019 14:04  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 3/7/2019 11:39:16 AM

Quant Time: Mar 07 06:35:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 05:44:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 590092   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 974687   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 804245   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 310985   | 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   | 37445    | 5.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 10.56% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 30436    | 4.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.62%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 113097   | 4.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.40%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 34416    | 4.40 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 8.80%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 33455    | 5.899  | ug/l   | 99     |
| 3) Chloromethane              | 2.05 | 50   | 48003    | 5.907  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.19 | 62   | 44023    | 5.729  | ug/l   | 96     |
| 5) Bromomethane               | 2.57 | 94   | 30935    | 6.209  | ug/l   | 96     |
| 6) Chloroethane               | 2.70 | 64   | 26695    | 5.732  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.02 | 101  | 52098    | 5.550  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.41 | 74   | 22414    | 5.992  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101  | 33782    | 5.532  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.95 | 142  | 23093    | 3.563  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 4.77 | 59   | 9182     | 21.297 | ug/l # | 72     |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 31404    | 5.512  | ug/l   | 97     |
| 13) Acrolein                  | 3.61 | 56   | 6618     | 17.454 | ug/l   | 91     |
| 14) Allyl chloride            | 4.32 | 41   | 57131    | 5.565  | ug/l   | 98     |
| 15) Acrylonitrile             | 4.99 | 53   | 67362    | 27.680 | ug/l   | 98     |
| 16) Acetone                   | 3.82 | 43   | 65278m   | 29.772 | ug/l   |        |
| 17) Carbon Disulfide          | 4.05 | 76   | 105515   | 5.678  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.32 | 43   | 29890    | 5.347  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73   | 87672    | 5.483  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.55 | 84   | 43049    | 6.179  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96   | 34827    | 5.568  | ug/l   | 92     |
| 22) Diisopropyl ether         | 5.95 | 45   | 104426   | 5.221  | ug/l   | 90     |
| 23) Vinyl Acetate             | 5.90 | 43   | 374270   | 26.343 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 66121    | 5.525  | ug/l   | 96     |
| 25) 2-Butanone                | 6.84 | 43   | 80129    | 27.592 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 47239    | 5.477  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 38439    | 5.512  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.20 | 49   | 30312    | 5.075  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.21 | 42   | 53351    | 28.028 | ug/l   | 98     |
| 30) Chloroform                | 7.37 | 83   | 62930    | 5.488  | ug/l   | 96     |
| 31) Cyclohexane               | 7.65 | 56   | 67956    | 5.230  | ug/l # | 81     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 51941    | 5.464  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 45328    | 4.955  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.93 | 43   | 34964    | 5.331  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 45700    | 5.233  | ug/l   | 96     |

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 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
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MMDadoda  
 3/7/2019 11:39:16 AM

Quant Time: Mar 07 06:35:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 05:44:36 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 39) Methylcyclohexane          | 9.08  | 83   | 54965    | 5.206   | ug/l   | 96       |
| 40) Benzene                    | 8.04  | 78   | 146577   | 5.415   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 17372m   | 4.357   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 48035    | 5.603   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 57693    | 5.659   | ug/l # | 84       |
| 44) Trichloroethene            | 8.83  | 130  | 38756    | 5.340   | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 39501    | 5.291   | ug/l   | 96       |
| 46) Dibromomethane             | 9.21  | 93   | 23559    | 5.528   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.40  | 83   | 47195    | 5.290   | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.20  | 41   | 24724    | 4.911   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 8104     | 121.826 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 149465   | 25.591  | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 84745    | 5.285   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 42406    | 4.819   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 52564    | 5.054   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 32886    | 5.446   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 32993    | 4.654   | ug/l # | 90       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 54106    | 5.252   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 75686    | 23.327  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 97972    | 25.427  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.90 | 129  | 33081    | 5.124   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 29215    | 5.085   | ug/l   | 94       |
| 64) Tetrachloroethene          | 10.63 | 164  | 37887    | 5.740   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 90107    | 5.384   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 31693    | 5.290   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 146929   | 5.246   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.62 | 106  | 109422   | 10.353  | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 52498    | 5.162   | ug/l   | 96       |
| 70) Styrene                    | 11.96 | 104  | 78052    | 4.835   | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 20646    | 5.007   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.25 | 105  | 141718   | 5.727   | ug/l   | 98       |
| 74) N-amyl acetate             | 12.07 | 43   | 33992    | 5.187   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 38643    | 6.000   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 28943m   | 5.953   | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 35228    | 5.526   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 151520   | 5.442   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 95852    | 5.668   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 110333   | 5.485   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 7557     | 4.897   | ug/l # | 83       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 90370    | 5.361   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 102680   | 5.764   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 108900   | 5.455   | ug/l   | 96       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 137879   | 5.704   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 110792   | 5.452   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 58026    | 5.358   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 55933    | 5.205   | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.62 | 91   | 84716    | 4.937   | ug/l   | 98       |
| 90) Hexachloroethane           | 13.87 | 117  | 22101    | 5.670   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 57835    | 5.365   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 5165     | 5.721   | ug/l   | 94       |

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Sample : VSTDICC005  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Manual Integrations  
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MMDadoda  
3/7/2019 11:39:16 AM

Quant Time: Mar 07 06:35:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N030619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 07 05:44:36 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 21592    | 4.196 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 22109    | 5.730 | ug/l  | 97       |
| 95) Naphthalene            | 15.13 | 128  | 38505    | 3.628 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 22016    | 4.251 | ug/l  | 96       |

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

