

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\  
 Data File : VN064962.D  
 Acq On : 8 Dec 2020 12:13  
 Operator : JC/MD  
 Sample : VN1208WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1208WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 12/10/2020 9:55:46 AM

Quant Time: Dec 08 16:27:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 196018   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 300959   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 276156   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 130130   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 7.98   | 65    | 109152   | 47.90    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 95.80%  |
| 35) Dibromofluoromethane  | 7.55   | 113   | 96484    | 53.58    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 107.16% |
| 50) Toluene-d8            | 10.06  | 98    | 362646   | 49.29    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 98.58%  |
| 62) 4-Bromofluorobenzene  | 12.37  | 95    | 128053   | 48.63    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 97.26%  |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 25528  | 15.027 | ug/l | 99     |
| 3) Chloromethane              | 2.04 | 50  | 32578  | 14.757 | ug/l | 99     |
| 4) Vinyl Chloride             | 2.17 | 62  | 35821  | 15.563 | ug/l | 97     |
| 5) Bromomethane               | 2.54 | 94  | 24836  | 16.447 | ug/l | 98     |
| 6) Chloroethane               | 2.68 | 64  | 23610  | 16.585 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 54095  | 17.003 | ug/l | 96     |
| 8) Diethyl Ether              | 3.37 | 74  | 22042  | 17.551 | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 33898  | 17.761 | ug/l | 100    |
| 10) Methyl Iodide             | 3.91 | 142 | 36791  | 14.861 | ug/l | 97     |
| 11) Tert butyl alcohol        | 4.74 | 59  | 27458  | 77.261 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 30903  | 16.258 | ug/l | 97     |
| 13) Acrolein                  | 3.57 | 56  | 18894  | 87.038 | ug/l | 96     |
| 14) Allyl chloride            | 4.28 | 41  | 51984  | 16.581 | ug/l | 99     |
| 15) Acrylonitrile             | 4.93 | 53  | 84919  | 86.495 | ug/l | 97     |
| 16) Acetone                   | 3.78 | 43  | 72935  | 97.361 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.01 | 76  | 73882  | 15.058 | ug/l | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 40180  | 17.840 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 109910 | 18.029 | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 41226  | 17.562 | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 35154  | 16.654 | ug/l | 96     |
| 22) Diisopropyl ether         | 5.90 | 45  | 116826 | 18.618 | ug/l | 99     |
| 23) Vinyl Acetate             | 5.84 | 43  | 442342 | 88.151 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 65527  | 17.473 | ug/l | 98     |
| 25) 2-Butanone                | 6.78 | 43  | 105735 | 87.071 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 55904  | 17.188 | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 42044  | 17.701 | ug/l | 100    |
| 28) Bromochloromethane        | 7.15 | 49  | 30407  | 17.724 | ug/l | 95     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 67880  | 80.977 | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 69417  | 17.950 | ug/l | 98     |
| 31) Cyclohexane               | 7.61 | 56  | 51321  | 16.158 | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 57755  | 17.388 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 48808  | 17.496 | ug/l | 100    |
| 37) Ethyl Acetate             | 6.88 | 43  | 45235  | 16.834 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 51424  | 17.717 | ug/l | 97     |

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 12/10/2020 9:55:46 AM

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 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 45940    | 15.298  | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 153313   | 17.935  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.13  | 41   | 22689    | 18.299  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 53060    | 18.400  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 74036    | 17.122  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 42416    | 16.817  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 40850    | 18.453  | ug/l   | 97       |
| 46) Dibromomethane             | 9.17  | 93   | 26728    | 18.073  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 53362    | 17.932  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.16  | 41   | 35361    | 17.115  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 12178    | 311.856 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 219215   | 84.448  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 95466    | 18.134  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 58284    | 17.585  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.80  | 75   | 64347    | 18.113  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 40182    | 18.562  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 52578    | 17.601  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 65743    | 18.411  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 142006   | 86.419  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 159294   | 85.266  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 44163    | 18.353  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.97 | 107  | 39314    | 17.875  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.60 | 164  | 43861    | 16.325  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.40 | 112  | 107034   | 18.048  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 39946    | 18.329  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 174377   | 17.601  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 136793   | 36.469  | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 64739    | 18.188  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 110979   | 18.469  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 29952    | 17.207  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 172001   | 19.003  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.04 | 43   | 59760    | 16.777  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 51530    | 19.423  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 49751m   | 17.753  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 45377    | 18.595  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.56 | 91   | 190491   | 18.474  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 116941   | 18.347  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.70 | 105  | 143704   | 19.101  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 16785    | 16.415  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 122929   | 18.400  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 117750   | 18.672  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 146500   | 19.259  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 148991   | 17.794  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 138668   | 18.191  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 79718    | 18.387  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 81094    | 17.687  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 112989   | 16.878  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 23929    | 18.070  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 77846    | 18.287  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 9026     | 15.120  | ug/l   | 95       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 40200    | 15.265 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 21455    | 18.330 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 115310   | 14.616 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 38906    | 16.506 | ug/l  | 99       |

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

