

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\  
 Data File : VN064601.D  
 Acq On : 13 Nov 2020 00:31  
 Operator : JC/MD  
 Sample : VN1112WBSD02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1112WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 11/13/2020 11:43:10 AM

Quant Time: Nov 13 04:12:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 12:09:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 274774   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 519360   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 475946   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 211780   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 253382   | 52.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.88% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 173121   | 48.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.92%  |      |
| 50) Toluene-d8            | 10.06  | 98  | 638250   | 46.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.40%  |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 230455   | 44.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.18%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 65982  | 18.447  | ug/l   | 93     |
| 3) Chloromethane              | 2.04 | 50  | 79924  | 18.396  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.17 | 62  | 88818  | 19.908  | ug/l   | 98     |
| 5) Bromomethane               | 2.54 | 94  | 60256  | 21.141  | ug/l   | 99     |
| 6) Chloroethane               | 2.68 | 64  | 55900  | 19.570  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 138480 | 21.079  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 49394  | 21.291  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 60844  | 19.503  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.91 | 142 | 70711  | 19.507  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 4.75 | 59  | 54673  | 103.584 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 56279  | 19.151  | ug/l   | 99     |
| 13) Acrolein                  | 3.57 | 56  | 22393  | 68.398  | ug/l   | 89     |
| 14) Allyl chloride            | 4.28 | 41  | 102260 | 17.789  | ug/l   | 100    |
| 15) Acrylonitrile             | 4.94 | 53  | 159238 | 108.363 | ug/l   | 98     |
| 16) Acetone                   | 3.78 | 43  | 156577 | 85.884  | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.01 | 76  | 156545 | 17.814  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 96653  | 26.966  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 200476 | 18.955  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.50 | 84  | 69189  | 19.128  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 64920  | 19.457  | ug/l   | 99     |
| 22) Diisopropyl ether         | 5.91 | 45  | 230311 | 18.874  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.85 | 43  | 883910 | 89.042  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 133107 | 19.850  | ug/l   | 98     |
| 25) 2-Butanone                | 6.80 | 43  | 228680 | 98.445  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 92279  | 15.202  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 73346  | 18.971  | ug/l   | 95     |
| 28) Bromochloromethane        | 7.15 | 49  | 63057  | 19.132  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 149861 | 105.153 | ug/l   | 99     |
| 30) Chloroform                | 7.33 | 83  | 143808 | 20.403  | ug/l   | 95     |
| 31) Cyclohexane               | 7.62 | 56  | 96997  | 16.672  | ug/l # | 91     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 125748 | 20.115  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 95103  | 17.333  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 93872  | 17.363  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 110815 | 18.898  | ug/l   | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 77163    | 15.689  | ug/l   | 92       |
| 40) Benzene                    | 8.00  | 78   | 281820   | 17.480  | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.13  | 41   | 40846    | 16.792  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 120224   | 18.478  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 162287   | 18.252  | ug/l   | 98       |
| 44) Trichloroethene            | 8.80  | 130  | 72010    | 17.703  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.09  | 63   | 78021    | 18.136  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 54905    | 19.388  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.37  | 83   | 114595   | 18.820  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 81265    | 18.112  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 24847    | 420.447 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 522326   | 100.731 | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 178024   | 18.104  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 113108   | 17.521  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 117922   | 17.085  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 72420    | 18.884  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 95059    | 16.352  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 124432   | 18.589  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.67  | 63   | 263969   | 102.447 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.72 | 43   | 378618   | 92.128  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.87 | 129  | 83910    | 19.543  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 73971    | 19.016  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 65752    | 17.935  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 188194   | 18.037  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 73936    | 18.995  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 325653   | 17.547  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 234364   | 34.821  | ug/l   | 97       |
| 69) o-Xylene                   | 11.92 | 106  | 111867   | 17.200  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 192161   | 17.558  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 52798    | 18.879  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.22 | 105  | 293338   | 17.426  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 129103   | 16.644  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 102999   | 19.921  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 100458m  | 19.578  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 73562    | 17.900  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.57 | 91   | 337928   | 17.609  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 218863   | 17.981  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 250887   | 18.067  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 31699    | 17.249  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 225831   | 17.717  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 190389   | 17.554  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 247409   | 17.723  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 253697   | 18.470  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 226943   | 18.368  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 129117   | 18.175  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 131708   | 17.940  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 179803   | 16.926  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 47680    | 20.005  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 129701   | 18.980  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 23690    | 23.014  | ug/l   | 94       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 52420    | 17.267 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 29152    | 20.953 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 167248   | 16.978 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 54575    | 18.454 | ug/l  | 99       |

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

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