

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111120\  
 Data File : VN064548.D  
 Acq On : 11 Nov 2020 12:24  
 Operator : JC/MD  
 Sample : VN1111WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1111WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 11/12/2020 9:12:23 AM

Quant Time: Nov 12 01:59:36 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  | 295476   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 516068   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 493946   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 218679   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 252755   | 49.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.22%  |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 175808   | 50.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.06% |      |
| 50) Toluene-d8            | 10.06  | 98  | 641640   | 47.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.50%  |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 235061   | 45.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.54%  |      |

## Target Compounds

|                               |      |     |        |         | Qvalue    |
|-------------------------------|------|-----|--------|---------|-----------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 71189  | 18.508  | ug/l 98   |
| 3) Chloromethane              | 2.04 | 50  | 80116  | 17.148  | ug/l 99   |
| 4) Vinyl Chloride             | 2.17 | 62  | 86036  | 17.933  | ug/l 97   |
| 5) Bromomethane               | 2.54 | 94  | 58720  | 19.159  | ug/l 91   |
| 6) Chloroethane               | 2.68 | 64  | 55703  | 18.135  | ug/l 98   |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 132249 | 18.720  | ug/l 97   |
| 8) Diethyl Ether              | 3.37 | 74  | 50781  | 20.355  | ug/l 97   |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 62519  | 18.636  | ug/l 98   |
| 10) Methyl Iodide             | 3.90 | 142 | 73260  | 18.794  | ug/l 99   |
| 11) Tert butyl alcohol        | 4.75 | 59  | 55903  | 98.494  | ug/l 99   |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 57152  | 18.086  | ug/l 99   |
| 13) Acrolein                  | 3.57 | 56  | 29157  | 82.818  | ug/l 98   |
| 14) Allyl chloride            | 4.28 | 41  | 108186 | 17.501  | ug/l 97   |
| 15) Acrylonitrile             | 4.94 | 53  | 159959 | 101.227 | ug/l 99   |
| 16) Acetone                   | 3.78 | 43  | 176229 | 89.890  | ug/l 99   |
| 17) Carbon Disulfide          | 4.01 | 76  | 166118 | 17.578  | ug/l 99   |
| 18) Methyl Acetate            | 4.29 | 43  | 78385  | 20.337  | ug/l 99   |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 207571 | 18.251  | ug/l 99   |
| 20) Methylene Chloride        | 4.50 | 84  | 71956  | 18.499  | ug/l 97   |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 61343  | 17.097  | ug/l 97   |
| 22) Diisopropyl ether         | 5.91 | 45  | 238528 | 18.178  | ug/l 99   |
| 23) Vinyl Acetate             | 5.85 | 43  | 973391 | 91.186  | ug/l 98   |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 133355 | 18.494  | ug/l 98   |
| 25) 2-Butanone                | 6.79 | 43  | 233999 | 93.677  | ug/l 96   |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 117187 | 17.953  | ug/l 98   |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 78453  | 18.870  | ug/l 93   |
| 28) Bromochloromethane        | 7.15 | 49  | 59501  | 16.788  | ug/l 99   |
| 29) Tetrahydrofuran           | 7.17 | 42  | 140615 | 91.753  | ug/l 97   |
| 30) Chloroform                | 7.33 | 83  | 143072 | 18.876  | ug/l 98   |
| 31) Cyclohexane               | 7.61 | 56  | 101454 | 16.216  | ug/l # 93 |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 123872 | 18.426  | ug/l 98   |
| 36) 1,1-Dichloropropene       | 7.76 | 75  | 94267  | 17.291  | ug/l 96   |
| 37) Ethyl Acetate             | 6.89 | 43  | 95526  | 17.763  | ug/l 98   |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 107162 | 18.391  | ug/l 99   |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 85291    | 17.452  | ug/l   | 95       |
| 40) Benzene                    | 8.00  | 78   | 288563   | 18.012  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.13  | 41   | 49824m   | 20.613  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 124340   | 19.232  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 165427   | 18.723  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 70944    | 17.552  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 77328    | 18.090  | ug/l   | 97       |
| 46) Dibromomethane             | 9.17  | 93   | 54377    | 19.324  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.37  | 83   | 118526   | 19.589  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 83058    | 18.630  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 23495    | 400.105 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 508826   | 98.754  | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 179295   | 18.349  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 118722   | 18.508  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 126685   | 18.472  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 74151    | 19.459  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 100305   | 17.250  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 127667   | 19.194  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 271677   | 105.341 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 360398   | 88.424  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 84329    | 19.766  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 76009    | 19.665  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.60 | 164  | 67661    | 17.783  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.41 | 112  | 190142   | 17.560  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 75318    | 18.645  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.49 | 91   | 328841   | 17.073  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 246327   | 35.264  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 116252   | 17.223  | ug/l   | 100      |
| 70) Styrene                    | 11.94 | 104  | 197108   | 17.354  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 53139    | 18.347  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.23 | 105  | 303207   | 17.444  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.05 | 43   | 133574   | 16.675  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 103471   | 19.381  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 99081m   | 18.700  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 74188    | 17.483  | ug/l   | 93       |
| 78) n-propylbenzene            | 12.57 | 91   | 352706   | 17.799  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 223562   | 17.788  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 258571   | 18.033  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 32244    | 16.992  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 239603   | 18.204  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 196811   | 17.574  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 256373   | 17.786  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 260645   | 18.377  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 228782   | 17.933  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 132997   | 18.131  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 131596   | 17.359  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 190636   | 17.380  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 46807    | 19.020  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 135278   | 19.172  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 22534    | 21.200  | ug/l   | 96       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 53368    | 17.062 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 27906    | 19.425 | ug/l  | 100      |
| 95) Naphthalene            | 15.11 | 128  | 167400   | 16.569 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.29 | 180  | 56283    | 18.434 | ug/l  | 99       |

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

