

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\  
 Data File : VN064269.D  
 Acq On : 22 Oct 2020 22:49  
 Operator : JC/MD  
 Sample : VN1022WBSD02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1022WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 10/23/2020 3:36:27 PM

Quant Time: Oct 23 03:29:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102120W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 21 12:48:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 258208   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 423900   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 380243   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 177906   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 200368   | 52.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.50% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 142898   | 50.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.40% |      |
| 50) Toluene-d8            | 10.06  | 98  | 507516   | 49.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.28%  |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 201247   | 48.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.12%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 57794  | 18.819  | ug/l   | 90     |
| 3) Chloromethane              | 2.04 | 50  | 58942  | 19.751  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.16 | 62  | 58671  | 19.830  | ug/l   | 96     |
| 5) Bromomethane               | 2.53 | 94  | 37314  | 19.348  | ug/l   | 99     |
| 6) Chloroethane               | 2.68 | 64  | 34392  | 19.095  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 99777  | 20.507  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.37 | 74  | 31735  | 19.717  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 47768  | 18.985  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.91 | 142 | 64994  | 18.165  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 51257  | 99.858  | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 45997  | 19.007  | ug/l   | 99     |
| 13) Acrolein                  | 3.57 | 56  | 27034  | 83.901  | ug/l   | 99     |
| 14) Allyl chloride            | 4.28 | 41  | 88103  | 18.190  | ug/l   | 96     |
| 15) Acrylonitrile             | 4.93 | 53  | 101891 | 95.996  | ug/l   | 98     |
| 16) Acetone                   | 3.77 | 43  | 106140 | 96.740  | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.01 | 76  | 131252 | 19.014  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 55371  | 19.805  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 160184 | 19.253  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.51 | 84  | 53554  | 18.305  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 51659  | 19.358  | ug/l   | 95     |
| 22) Diisopropyl ether         | 5.90 | 45  | 168233 | 18.684  | ug/l   | 95     |
| 23) Vinyl Acetate             | 5.85 | 43  | 770274 | 95.928  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 102438 | 19.639  | ug/l   | 97     |
| 25) 2-Butanone                | 6.78 | 43  | 168632 | 96.740  | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 88551  | 17.053  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 59071  | 19.008  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.15 | 49  | 53359  | 21.534  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 106645 | 102.277 | ug/l   | 99     |
| 30) Chloroform                | 7.33 | 83  | 107984 | 19.408  | ug/l   | 97     |
| 31) Cyclohexane               | 7.61 | 56  | 83074  | 18.275  | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 102596 | 19.684  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 78411  | 18.554  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.88 | 43  | 74011  | 19.289  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.74 | 117 | 89646  | 18.644  | ug/l   | 97     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 69287    | 18.031  | ug/l   | 95       |
| 40) Benzene                    | 8.00  | 78   | 218861   | 18.761  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.12  | 41   | 39038    | 19.395  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 95506    | 19.111  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 137550   | 19.235  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 59577    | 18.741  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 56845    | 18.253  | ug/l   | 98       |
| 46) Dibromomethane             | 9.18  | 93   | 40926    | 19.571  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 90905    | 19.676  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.16  | 41   | 68278    | 18.278  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 16498    | 377.467 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 378738   | 99.099  | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 136764   | 18.322  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 92569    | 18.037  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 99285    | 18.373  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 54352    | 19.279  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 83070    | 19.057  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 95976    | 19.599  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 207835   | 92.590  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 271488   | 97.269  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 67517    | 18.500  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 58029    | 19.506  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 59092    | 19.304  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.41 | 112  | 152129   | 19.328  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 58184    | 18.624  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 272498   | 18.839  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 198940   | 37.121  | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 98175    | 18.941  | ug/l   | 100      |
| 70) Styrene                    | 11.94 | 104  | 159941   | 18.409  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 46084    | 19.095  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.22 | 105  | 257869   | 19.005  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 114908   | 19.599  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 71895    | 19.967  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 70449m   | 18.784  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 64889    | 20.257  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.57 | 91   | 287643   | 18.802  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 183170   | 19.493  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 220911   | 19.258  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 26050    | 17.536  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 191893   | 19.577  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 178495   | 18.979  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 223968   | 19.617  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.14 | 105  | 229340   | 19.343  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 209289   | 19.384  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 108061   | 18.959  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.33 | 146  | 109202   | 18.718  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.59 | 91   | 179005   | 18.495  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 36231    | 18.528  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 108498   | 19.403  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 18972    | 21.120  | ug/l   | 94       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 59866    | 19.089 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 33602    | 19.865 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 184816   | 19.678 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 57620    | 18.550 | ug/l  | 98       |

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

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