

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\  
 Data File : VN064363.D  
 Acq On : 28 Oct 2020 19:31  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 10/29/2020 12:01:44 PM

Quant Time: Oct 29 03:56:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 12:23:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 264937   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 432453   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 398757   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 177330   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 203087   | 47.70 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.40% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 143031   | 49.60 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.20% |      |
| 50) Toluene-d8            | 10.06  | 98  | 501189   | 46.98 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.96% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 194699   | 46.81 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.62% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 144948  | 47.595  | ug/l | 98     |
| 3) Chloromethane              | 2.04 | 50  | 148132  | 44.996  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.16 | 62  | 152154  | 47.782  | ug/l | 99     |
| 5) Bromomethane               | 2.51 | 94  | 66776   | 32.454  | ug/l | 99     |
| 6) Chloroethane               | 2.66 | 64  | 94246   | 49.532  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 249104  | 46.696  | ug/l | 95     |
| 8) Diethyl Ether              | 3.37 | 74  | 86138   | 51.043  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 125135  | 46.671  | ug/l | 97     |
| 10) Methyl Iodide             | 3.91 | 142 | 111667  | 31.210  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 122923  | 198.890 | ug/l | 95     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 125227  | 49.474  | ug/l | 99     |
| 13) Acrolein                  | 3.56 | 56  | 28922   | 218.072 | ug/l | 96     |
| 14) Allyl chloride            | 4.27 | 41  | 247307  | 47.850  | ug/l | 99     |
| 15) Acrylonitrile             | 4.93 | 53  | 323501  | 243.400 | ug/l | 97     |
| 16) Acetone                   | 3.78 | 43  | 305722  | 209.434 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.01 | 76  | 339858  | 45.382  | ug/l | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 153884  | 48.115  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 488426  | 50.222  | ug/l | 98     |
| 20) Methylene Chloride        | 4.50 | 84  | 144870  | 47.980  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 136142  | 48.215  | ug/l | 95     |
| 22) Diisopropyl ether         | 5.90 | 45  | 500699  | 49.564  | ug/l | 99     |
| 23) Vinyl Acetate             | 5.84 | 43  | 2197842 | 257.160 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 272972  | 48.289  | ug/l | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 487286  | 227.949 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 240555  | 43.481  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 161953  | 50.117  | ug/l | 98     |
| 28) Bromochloromethane        | 7.15 | 49  | 132315  | 49.128  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 325519  | 234.561 | ug/l | 100    |
| 30) Chloroform                | 7.33 | 83  | 297070  | 49.234  | ug/l | 99     |
| 31) Cyclohexane               | 7.61 | 56  | 196005  | 39.667  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 271067  | 46.784  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 207190  | 47.472  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 202295  | 45.887  | ug/l | 96     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 249453  | 49.300  | ug/l | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 12:23:17 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 166218   | 38.409  | ug/l   | 99       |
| 40) Benzene                    | 8.00  | 78   | 581669   | 47.880  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.12  | 41   | 97929    | 44.749  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 259768   | 49.500  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 384231   | 50.986  | ug/l # | 89       |
| 44) Trichloroethene            | 8.80  | 130  | 155364   | 48.819  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 156141   | 47.996  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 112922   | 49.617  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 241469   | 47.875  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.16  | 41   | 191580   | 49.273  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 38903    | 678.837 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 1089369  | 248.682 | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 369834   | 48.243  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 268413   | 50.331  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 269391   | 49.072  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 153477   | 50.719  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 235839   | 51.485  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 261431   | 50.647  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 569614   | 227.878 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 793791   | 246.038 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 187518   | 52.411  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 160034   | 51.903  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.60 | 164  | 134041   | 40.899  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 397900   | 49.220  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 162375   | 49.694  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 699313   | 46.529  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.59 | 106  | 518225   | 93.042  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 255563   | 47.626  | ug/l   | 96       |
| 70) Styrene                    | 11.94 | 104  | 440448   | 50.062  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 129301   | 50.420  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.22 | 105  | 628670   | 47.334  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 331542   | 56.713  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 205576   | 53.250  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 203334m  | 47.882  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 169187   | 52.021  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.57 | 91   | 699525   | 46.522  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 460300   | 47.888  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 524263   | 46.650  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 76326    | 51.773  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 479241   | 48.942  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 414449   | 44.942  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 525355   | 46.785  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 511848   | 42.891  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 472219   | 43.923  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 278579   | 48.929  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 274507   | 47.338  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 404040   | 42.660  | ug/l   | 97       |
| 90) Hexachloroethane           | 13.85 | 117  | 89782    | 44.466  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 275519   | 48.674  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 48979    | 51.130  | ug/l   | 94       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 134643   | 41.735 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 66278    | 38.155 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 415362   | 41.844 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 127202   | 40.976 | ug/l  | 96       |

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

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