

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111820\  
 Data File : VN064703.D  
 Acq On : 18 Nov 2020 13:01  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 11/19/2020 2:10:03 PM

Quant Time: Nov 18 14:01:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 18 13:40:14 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 283783   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 499078   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 472319   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 232012   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 239580   | 48.41 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 96.82% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 137484   | 41.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 83.44% |          |
| 50) Toluene-d8              | 10.06 | 98   | 627812   | 47.92 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 95.84% |          |
| 62) 4-Bromofluorobenzene    | 12.37 | 95   | 237392   | 48.12 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 96.24% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85   | 172034   | 47.615  | ug/l  | 100    |
| 3) Chloromethane              | 2.04 | 50   | 188211   | 43.320  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.17 | 62   | 200702   | 44.854  | ug/l  | 100    |
| 5) Bromomethane               | 2.53 | 94   | 146102   | 50.230  | ug/l  | 100    |
| 6) Chloroethane               | 2.68 | 64   | 138952   | 47.866  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 2.99 | 101  | 361564   | 53.173  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.37 | 74   | 117273   | 49.474  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101  | 157032   | 49.218  | ug/l  | 100    |
| 10) Methyl Iodide             | 3.91 | 142  | 195166   | 52.569  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 4.74 | 59   | 123141   | 234.940 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 3.70 | 96   | 150301   | 50.064  | ug/l  | 100    |
| 13) Acrolein                  | 3.56 | 56   | 31994    | 108.181 | ug/l  | 100    |
| 14) Allyl chloride            | 4.28 | 41   | 266375   | 46.189  | ug/l  | 100    |
| 15) Acrylonitrile             | 4.93 | 53   | 366439   | 248.563 | ug/l  | 100    |
| 16) Acetone                   | 3.78 | 43   | 294709   | 169.193 | ug/l  | 100    |
| 17) Carbon Disulfide          | 4.01 | 76   | 437833   | 49.051  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.28 | 43   | 174370   | 47.682  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 4.99 | 73   | 540812   | 50.317  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.50 | 84   | 178845   | 48.336  | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96   | 169198   | 49.794  | ug/l  | 100    |
| 22) Diisopropyl ether         | 5.90 | 45   | 578709   | 47.336  | ug/l  | 100    |
| 23) Vinyl Acetate             | 5.85 | 43   | 2387602  | 241.100 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63   | 327432   | 48.273  | ug/l  | 100    |
| 25) 2-Butanone                | 6.79 | 43   | 499186   | 218.834 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 6.78 | 77   | 315356   | 50.813  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96   | 191444   | 48.829  | ug/l  | 100    |
| 28) Bromochloromethane        | 7.15 | 49   | 157875   | 46.048  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.17 | 42   | 344938   | 241.137 | ug/l  | 100    |
| 30) Chloroform                | 7.33 | 83   | 357069   | 49.818  | ug/l  | 100    |
| 31) Cyclohexane               | 7.61 | 56   | 258692   | 44.586  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97   | 321886   | 50.405  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 7.75 | 75   | 258921   | 49.986  | ug/l  | 100    |
| 37) Ethyl Acetate             | 6.88 | 43   | 231046   | 50.708  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 7.73 | 117  | 284837   | 51.076  | ug/l  | 100    |

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 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
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MMDadoda  
 11/19/2020 2:10:03 PM

Quant Time: Nov 18 14:01:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 18 13:40:14 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 227875   | 49.298  | ug/l  | 100      |
| 40) Benzene                    | 8.00  | 78   | 732928   | 48.232  | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.13  | 41   | 102801   | 44.615  | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 312672   | 50.643  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 417085   | 49.850  | ug/l  | 100      |
| 44) Trichloroethene            | 8.80  | 130  | 198251   | 51.120  | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 196783   | 48.664  | ug/l  | 100      |
| 46) Dibromomethane             | 9.17  | 93   | 140612   | 51.989  | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.37  | 83   | 294196   | 50.866  | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.16  | 41   | 207441   | 49.250  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.16  | 88   | 49469    | 904.520 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 1224348  | 252.338 | ug/l  | 100      |
| 52) Toluene                    | 10.12 | 92   | 468727   | 50.506  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 320427   | 52.513  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 323956   | 49.915  | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 186039   | 51.137  | ug/l  | 100      |
| 56) Ethyl methacrylate         | 10.40 | 69   | 274847   | 52.406  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 317996   | 50.249  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 744738   | 281.733 | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 891761   | 254.327 | ug/l  | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 213586   | 52.460  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 10.97 | 107  | 194725   | 52.695  | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.60 | 164  | 210421   | 56.931  | ug/l  | 100      |
| 65) Chlorobenzene              | 11.40 | 112  | 510233   | 49.900  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 189809   | 49.937  | ug/l  | 100      |
| 67) Ethyl Benzene              | 11.48 | 91   | 922703   | 51.079  | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.59 | 106  | 686863   | 104.530 | ug/l  | 100      |
| 69) o-Xylene                   | 11.92 | 106  | 326184   | 51.438  | ug/l  | 100      |
| 70) Styrene                    | 11.94 | 104  | 570714   | 53.390  | ug/l  | 100      |
| 71) Bromoform                  | 12.10 | 173  | 135373   | 52.866  | ug/l  | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 851141   | 47.391  | ug/l  | 100      |
| 74) N-amyl acetate             | 12.04 | 43   | 400897   | 51.122  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 231507   | 42.330  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 258883m  | 47.233  | ug/l  |          |
| 77) Bromobenzene               | 12.50 | 156  | 207109   | 46.897  | ug/l  | 100      |
| 78) n-propylbenzene            | 12.56 | 91   | 998876   | 48.684  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 616726   | 47.190  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.70 | 105  | 730174   | 49.076  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 94276    | 48.301  | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 663809   | 48.537  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 566430   | 48.651  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 740127   | 49.582  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.14 | 105  | 747346   | 50.657  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 690452   | 51.877  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 379802   | 49.606  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.33 | 146  | 378816   | 47.851  | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.59 | 91   | 622419   | 54.037  | ug/l  | 100      |
| 90) Hexachloroethane           | 13.85 | 117  | 111596   | 44.427  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.62 | 146  | 364111   | 49.584  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 59164    | 53.009  | ug/l  | 100      |

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Sample : VSTDICCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
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MMDadoda  
11/19/2020 2:10:03 PM

Quant Time: Nov 18 14:01:18 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 18 13:40:14 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 188588   | 61.275 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 78825    | 51.890 | ug/l  | 100      |
| 95) Naphthalene            | 15.10 | 128  | 658052   | 64.869 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 185193   | 60.293 | ug/l  | 100      |

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

