

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021821\  
 Data File : VN065930.D  
 Acq On : 18 Feb 2021 9:51  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/19/2021 12:29:18 PM

Quant Time: Feb 19 00:12:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 17 15:48:13 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.624          | 168  | 159686             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.550          | 114  | 265064             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.376         | 117  | 258776             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.312         | 152  | 121841             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.987          | 65   | 115931             | 51.92  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 103.84% |        |        |          |
| 35) Dibromofluoromethane     | 7.550          | 113  | 89735              | 54.70  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 109.40% |        |        |          |
| 50) Toluene-d8               | 10.058         | 98   | 363496             | 53.98  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 107.96% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.370         | 95   | 141678             | 56.05  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 112.10% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.843          | 85   | 103919             | 49.71  | ug/l   | 97       |
| 3) Chloromethane             | 2.049          | 50   | 125222             | 47.80  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.174          | 62   | 125894             | 48.79  | ug/l   | 98       |
| 5) Bromomethane              | 2.528          | 94   | 79348              | 50.19  | ug/l   | 97       |
| 6) Chloroethane              | 2.676          | 64   | 70550              | 48.46  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 2.994          | 101  | 156645             | 48.75  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.386          | 74   | 56795              | 48.17  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.717          | 101  | 84592              | 49.77  | ug/l   | 97       |
| 10) Methyl Iodide            | 3.910          | 142  | 128212             | 48.30  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.772          | 59   | 69745              | 224.62 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.698          | 96   | 84021              | 46.85  | ug/l   | 94       |
| 13) Acrolein                 | 3.576          | 56   | 68132              | 239.77 | ug/l   | 97       |
| 14) Allyl chloride           | 4.277          | 41   | 144057             | 47.05  | ug/l   | 93       |
| 15) Acrylonitrile            | 4.942          | 53   | 212277             | 246.54 | ug/l   | 99       |
| 16) Acetone                  | 3.788          | 43   | 191055             | 272.50 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.007          | 76   | 235543             | 46.11  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.293          | 43   | 87319              | 47.32  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.007          | 73   | 274212             | 47.52  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.502          | 84   | 96434              | 46.57  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 4.991          | 96   | 88071              | 46.72  | ug/l   | 91       |
| 22) Diisopropyl ether        | 5.913          | 45   | 289531             | 47.28  | ug/l   | 97       |
| 23) Vinyl Acetate            | 5.852          | 43   | 1182365            | 246.13 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.798          | 63   | 165667             | 46.82  | ug/l   | 99       |
| 25) 2-Butanone               | 6.798          | 43   | 276436             | 250.08 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.778          | 77   | 137705             | 49.61  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.782          | 96   | 102059             | 47.53  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.151          | 49   | 81550              | 50.00  | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.174          | 42   | 180510             | 237.20 | ug/l   | 97       |
| 30) Chloroform               | 7.328          | 83   | 165105             | 47.23  | ug/l   | 99       |
| 31) Cyclohexane              | 7.611          | 56   | 151232             | 45.42  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.528          | 97   | 140423             | 47.89  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.749          | 75   | 127678             | 48.85  | ug/l   | 98       |
| 37) Ethyl Acetate            | 6.891          | 43   | 113855             | 48.24  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.733          | 117  | 121057             | 49.84  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.045          | 83   | 145701             | 49.61  | ug/l   | 96       |
| 40) Benzene                  | 8.000          | 78   | 389102             | 48.52  | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Feb 17 15:48:13 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.126  | 41   | 52911    | 46.31   | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.084  | 62   | 132052   | 50.11   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.129  | 43   | 187648   | 49.89   | ug/l # | 92       |
| 44) Trichloroethene           | 8.798  | 130  | 99939    | 50.39   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.084  | 63   | 101573   | 49.46   | ug/l   | 99       |
| 46) Dibromomethane            | 9.174  | 93   | 64243    | 51.35   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.367  | 83   | 131587   | 51.67   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.167  | 41   | 97111    | 50.95   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.171  | 88   | 33320    | 1026.09 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 9.952  | 43   | 576789   | 252.01  | ug/l   | 100      |
| 52) Toluene                   | 10.122 | 92   | 246547   | 50.06   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.351 | 75   | 151836   | 48.27   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.804  | 75   | 165683   | 52.46   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.531 | 97   | 93091    | 50.51   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.399 | 69   | 144992   | 52.32   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.675 | 76   | 166403   | 51.22   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.662  | 63   | 338844   | 256.11  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.720 | 43   | 425324   | 260.88  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.871 | 129  | 99426    | 52.78   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 10.974 | 107  | 97166    | 51.90   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.598 | 164  | 93830    | 46.96   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.402 | 112  | 263367   | 48.67   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.479 | 131  | 94187    | 50.67   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.479 | 91   | 477430   | 48.75   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.592 | 106  | 360924   | 98.75   | ug/l   | 96       |
| 69) o-Xylene                  | 11.916 | 106  | 171491   | 48.66   | ug/l   | 93       |
| 70) Styrene                   | 11.933 | 104  | 295528   | 50.94   | ug/l   | 98       |
| 71) Bromoform                 | 12.096 | 173  | 65288    | 46.27   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.219 | 105  | 462414   | 46.50   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.042 | 43   | 171194   | 49.63   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.473 | 83   | 134878   | 45.97   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.524 | 75   | 133514m  | 45.61   | ug/l   |          |
| 77) Bromobenzene              | 12.495 | 156  | 109678   | 48.20   | ug/l   | 86       |
| 78) n-propylbenzene           | 12.560 | 91   | 536555   | 47.44   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.643 | 91   | 323930   | 45.70   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.704 | 105  | 403754   | 47.79   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.270 | 75   | 45749    | 49.81   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.743 | 91   | 342487   | 47.85   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 12.965 | 119  | 327605   | 46.93   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.010 | 105  | 405420   | 47.81   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.141 | 105  | 436708   | 48.19   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.257 | 119  | 400996   | 48.74   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.254 | 146  | 195268   | 48.49   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.334 | 146  | 195425   | 47.51   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.585 | 91   | 340644   | 49.11   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.842 | 117  | 66354    | 47.63   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.624 | 146  | 194312   | 48.12   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.238 | 75   | 28007    | 48.46   | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 14.878 | 180  | 102829   | 47.33   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 14.977 | 225  | 47184    | 50.34   | ug/l   | 99       |
| 95) Naphthalene               | 15.100 | 128  | 320712   | 45.66   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.276 | 180  | 102658   | 47.30   | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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