

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021221\  
 Data File : VN065832.D  
 Acq On : 12 Feb 2021 12:27  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/15/2021 1:31:49 PM

Quant Time: Feb 13 00:46:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012521W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 25 13:47:28 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.621          | 168  | 169928             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.544          | 114  | 293246             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.376         | 117  | 262016             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.312         | 152  | 117145             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.984          | 65   | 96799              | 43.30  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 86.60%  |        |        |          |
| 35) Dibromofluoromethane     | 7.544          | 113  | 87783              | 50.52  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 101.04% |        |        |          |
| 50) Toluene-d8               | 10.055         | 98   | 331542             | 48.54  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 97.08%  |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.370         | 95   | 126494             | 51.43  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 102.86% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.836          | 85   | 107695             | 56.58  | ug/l   | 97       |
| 3) Chloromethane             | 2.039          | 50   | 144767             | 51.75  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.168          | 62   | 149695             | 52.85  | ug/l   | 98       |
| 5) Bromomethane              | 2.534          | 94   | 96912              | 59.11  | ug/l   | 96       |
| 6) Chloroethane              | 2.676          | 64   | 88669              | 54.11  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 2.987          | 101  | 162775             | 54.97  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.373          | 74   | 77527              | 54.92  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.711          | 101  | 103276             | 57.47  | ug/l   | 95       |
| 10) Methyl Iodide            | 3.901          | 142  | 153970             | 58.45  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 4.756          | 59   | 95324              | 227.64 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.688          | 96   | 106859             | 51.66  | ug/l   | 97       |
| 13) Acrolein                 | 3.563          | 56   | 70990              | 200.06 | ug/l   | 99       |
| 14) Allyl chloride           | 4.267          | 41   | 181425             | 47.31  | ug/l   | 91       |
| 15) Acrylonitrile            | 4.933          | 53   | 276430             | 253.39 | ug/l   | 99       |
| 16) Acetone                  | 3.775          | 43   | 224940             | 258.46 | ug/l   | 95       |
| 17) Carbon Disulfide         | 3.997          | 76   | 314896             | 48.35  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.280          | 43   | 116615             | 47.82  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 4.994          | 73   | 355363             | 51.46  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.492          | 84   | 126895             | 52.65  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 4.978          | 96   | 114693             | 52.17  | ug/l   | 94       |
| 22) Diisopropyl ether        | 5.904          | 45   | 371297             | 47.37  | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.843          | 43   | 1489334            | 237.85 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.788          | 63   | 213539             | 51.11  | ug/l   | 99       |
| 25) 2-Butanone               | 6.791          | 43   | 337499             | 247.32 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.772          | 77   | 159954             | 47.83  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.775          | 96   | 132108             | 52.44  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.145          | 49   | 75183              | 42.82  | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.171          | 42   | 220443             | 222.72 | ug/l   | 98       |
| 30) Chloroform               | 7.322          | 83   | 198667             | 51.62  | ug/l   | 99       |
| 31) Cyclohexane              | 7.605          | 56   | 196894             | 46.83  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.521          | 97   | 158511             | 50.59  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.746          | 75   | 161494             | 54.73  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.884          | 43   | 140819             | 49.74  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.727          | 117  | 131299             | 54.05  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.042          | 83   | 188280             | 52.29  | ug/l   | 100      |
| 40) Benzene                  | 7.997          | 78   | 496324             | 55.07  | ug/l   | 99       |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 2/15/2021 1:31:49 PM

Quant Time: Feb 13 00:46:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012521W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 25 13:47:28 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.122  | 41   | 70351    | 46.28   | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.081  | 62   | 148644   | 54.71   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.126  | 43   | 235826   | 46.98   | ug/l   | 94       |
| 44) Trichloroethene           | 8.794  | 130  | 124376   | 56.88   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.080  | 63   | 135271   | 54.55   | ug/l   | 99       |
| 46) Dibromomethane            | 9.171  | 93   | 78812    | 57.54   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.363  | 83   | 154739   | 52.66   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.161  | 41   | 113642   | 47.72   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.164  | 88   | 42883    | 1112.81 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 9.949  | 43   | 688057   | 248.63  | ug/l   | 96       |
| 52) Toluene                   | 10.119 | 92   | 309007   | 57.89   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.347 | 75   | 183813   | 53.72   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.804  | 75   | 209356   | 54.92   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.527 | 97   | 118684   | 58.29   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.396 | 69   | 184831   | 54.90   | ug/l # | 92       |
| 57) 1,3-Dichloropropane       | 10.672 | 76   | 206964   | 57.75   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.659  | 63   | 348920   | 224.38  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.720 | 43   | 493083   | 256.64  | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.868 | 129  | 117264   | 56.35   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 10.974 | 107  | 118648   | 58.47   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.598 | 164  | 115872   | 52.77   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.399 | 112  | 320214   | 58.42   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.476 | 131  | 108565   | 56.03   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.479 | 91   | 571270   | 55.48   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.588 | 106  | 433932   | 116.40  | ug/l   | 100      |
| 69) o-Xylene                  | 11.916 | 106  | 209618   | 58.03   | ug/l   | 99       |
| 70) Styrene                   | 11.932 | 104  | 350671   | 58.98   | ug/l   | 99       |
| 71) Bromoform                 | 12.096 | 173  | 72373    | 54.03   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.219 | 105  | 538683   | 52.52   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.039 | 43   | 203378   | 46.88   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.473 | 83   | 157420   | 51.97   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.521 | 75   | 143967m  | 47.00   | ug/l   |          |
| 77) Bromobenzene              | 12.495 | 156  | 125882   | 56.68   | ug/l   | 87       |
| 78) n-propylbenzene           | 12.559 | 91   | 614979   | 50.88   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.643 | 91   | 365497   | 50.91   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.701 | 105  | 447825   | 51.28   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.270 | 75   | 55015    | 46.00   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.743 | 91   | 380096   | 51.86   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 12.961 | 119  | 361601   | 49.65   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.006 | 105  | 460205   | 52.83   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.141 | 105  | 483787   | 49.21   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.257 | 119  | 439650   | 50.64   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.251 | 146  | 220531   | 55.70   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.331 | 146  | 219932   | 54.74   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.582 | 91   | 382290   | 49.02   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.842 | 117  | 71879    | 47.32   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.620 | 146  | 220406   | 56.12   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.238 | 75   | 28388    | 47.23   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.878 | 180  | 118393   | 49.76   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 14.977 | 225  | 48198    | 49.64   | ug/l   | 99       |
| 95) Naphthalene               | 15.096 | 128  | 382556   | 50.38   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.276 | 180  | 116197   | 49.59   | ug/l   | 100      |

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Quant Time: Feb 13 00:46:37 2021  
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Quant Title : SW846 8260  
QLast Update : Mon Jan 25 13:47:28 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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