

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031521\  
 Data File : VN066204.D  
 Acq On : 15 Mar 2021 17:35  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 3/16/2021 4:37:37 PM

Quant Time: Mar 16 02:11:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 12 13:00:23 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.587          | 168  | 419234     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.515          | 114  | 680133     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.347         | 117  | 671670     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.284         | 152  | 332734     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.949          | 65   | 305963     | 45.23   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 90.46%  |        |          |
| 35) Dibromofluoromethane     | 7.509          | 113  | 222736     | 48.54   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 97.08%  |        |          |
| 50) Toluene-d8               | 10.028         | 98   | 867379     | 46.67   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 93.34%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.342         | 95   | 349090     | 51.06   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 102.12% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.818          | 85   | 202566     | 44.99   | ug/l   | 98       |
| 3) Chloromethane             | 2.022          | 50   | 329054     | 46.37   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.148          | 62   | 307734     | 49.71   | ug/l   | 99       |
| 5) Bromomethane              | 2.510          | 94   | 188188     | 52.22   | ug/l   | 94       |
| 6) Chloroethane              | 2.650          | 64   | 188456     | 52.47   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 2.964          | 101  | 380696     | 52.47   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.347          | 74   | 158206     | 55.08   | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 3.682          | 101  | 199054     | 53.29   | ug/l   | 98       |
| 10) Methyl Iodide            | 3.870          | 142  | 280386     | 56.71   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.709          | 59   | 265810     | 256.13  | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 3.661          | 96   | 206979     | 53.17   | ug/l   | 97       |
| 13) Acrolein                 | 3.532          | 56   | 267812     | 232.84  | ug/l   | 99       |
| 14) Allyl chloride           | 4.229          | 41   | 553735     | 52.96   | ug/l   | 97       |
| 15) Acrylonitrile            | 4.884          | 53   | 818505     | 267.16  | ug/l   | 100      |
| 16) Acetone                  | 3.739          | 43   | 687023     | 239.95  | ug/l   | 98       |
| 17) Carbon Disulfide         | 3.964          | 76   | 586706     | 49.97   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.237          | 43   | 460200     | 55.18   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 4.945          | 73   | 832848     | 54.62   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.455          | 84   | 256514     | 51.16   | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 4.935          | 96   | 234112     | 53.00   | ug/l   | 97       |
| 22) Diisopropyl ether        | 5.860          | 45   | 1087418    | 53.16   | ug/l   | 99       |
| 23) Vinyl Acetate            | 5.798          | 43   | 4482608    | 264.04  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 5.747          | 63   | 522234     | 52.32   | ug/l   | 100      |
| 25) 2-Butanone               | 6.745          | 43   | 1177118    | 230.78  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.726          | 77   | 417570     | 47.84   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.734          | 96   | 282030     | 52.37   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.104          | 49   | 274138     | 48.93   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.126          | 42   | 824559     | 242.98  | ug/l   | 97       |
| 30) Chloroform               | 7.287          | 83   | 471015     | 49.30   | ug/l   | 98       |
| 31) Cyclohexane              | 7.571          | 56   | 472957     | 47.65   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.485          | 97   | 396727     | 48.69   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.711          | 75   | 359578     | 50.04   | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.842          | 43   | 479549     | 47.84   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.692          | 117  | 321207     | 47.92   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.011          | 83   | 398852     | 47.86   | ug/l   | 96       |
| 40) Benzene                  | 7.963          | 78   | 1088374    | 50.05   | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Fri Mar 12 13:00:23 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.086  | 41   | 245373   | 45.97   | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.046  | 62   | 386981   | 46.31   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.091  | 43   | 797992   | 47.20   | ug/l   | 98       |
| 44) Trichloroethene           | 8.767  | 130  | 261790   | 49.39   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.049  | 63   | 318324   | 47.39   | ug/l   | 100      |
| 46) Dibromomethane            | 9.140  | 93   | 177029   | 47.68   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.336  | 83   | 374006   | 46.56   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.135  | 41   | 376639   | 47.19   | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.135  | 88   | 86095    | 1008.48 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 9.921  | 43   | 2466126  | 241.09  | ug/l   | 98       |
| 52) Toluene                   | 10.092 | 92   | 643356   | 49.13   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.320 | 75   | 444943   | 48.98   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.776  | 75   | 481598   | 48.90   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.503 | 97   | 261940   | 48.74   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.371 | 69   | 445780   | 46.50   | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.647 | 76   | 471130   | 48.23   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.631  | 63   | 591339   | 203.59  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.693 | 43   | 1799610  | 227.67  | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.843 | 129  | 268759   | 48.25   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 10.945 | 107  | 263483   | 48.54   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.572 | 164  | 269024   | 46.23   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.374 | 112  | 694535   | 50.44   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.449 | 131  | 255529   | 48.00   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.452 | 91   | 1311788  | 52.47   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.562 | 106  | 966913   | 104.31  | ug/l   | 99       |
| 69) o-Xylene                  | 11.889 | 106  | 474421   | 52.70   | ug/l   | 99       |
| 70) Styrene                   | 11.905 | 104  | 805493   | 48.09   | ug/l   | 98       |
| 71) Bromoform                 | 12.069 | 173  | 209820   | 45.95   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.192 | 105  | 1281929  | 51.07   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.015 | 43   | 598004   | 43.75   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.447 | 83   | 431063   | 47.45   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.495 | 75   | 430148m  | 54.85   | ug/l   |          |
| 77) Bromobenzene              | 12.466 | 156  | 726379   | 115.53  | ug/l # | 29       |
| 78) n-propylbenzene           | 12.533 | 91   | 1532284  | 52.89   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.616 | 91   | 905212   | 49.85   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.678 | 105  | 1102619  | 52.66   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.243 | 75   | 161830   | 54.35   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.715 | 91   | 920770   | 51.40   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 12.935 | 119  | 927225   | 52.52   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 12.983 | 105  | 1104427  | 53.25   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.115 | 105  | 1271500  | 53.96   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.233 | 119  | 1131041  | 54.43   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.225 | 146  | 554853   | 50.98   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.305 | 146  | 555024   | 49.71   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.557 | 91   | 1037634  | 56.00   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.815 | 117  | 162927   | 48.83   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.595 | 146  | 543701   | 50.74   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.212 | 75   | 86823    | 46.28   | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 14.847 | 180  | 352593   | 49.75   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 14.947 | 225  | 167557   | 45.42   | ug/l   | 100      |
| 95) Naphthalene               | 15.067 | 128  | 1100747  | 53.40   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.247 | 180  | 358236   | 50.69   | 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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