

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052523\  
 Data File : VN077916.D  
 Acq On : 25 May 2023 20:49  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/26/2023  
 Supervised By : Mahesh Dadoda 05/26/2023

Quant Time: May 26 04:40:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.229          | 168  | 390187     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 692264     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 607974     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 255409     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 288778     | 49.464   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.920%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 247930     | 54.923   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 109.840% |        |          |
| 50) Toluene-d8               | 10.576         | 98   | 906013     | 52.143   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 104.280% |        |          |
| 62) 4-Bromofluorobenzene     | 12.859         | 95   | 308919     | 50.340   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 100.680% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 190428     | 42.884   | ug/l   | 99       |
| 3) Chloromethane             | 2.371          | 50   | 229354     | 48.666   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.524          | 62   | 285464     | 50.988   | ug/l   | 98       |
| 5) Bromomethane              | 2.953          | 94   | 213411     | 51.540   | ug/l   | 99       |
| 6) Chloroethane              | 3.124          | 64   | 206310     | 51.133   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 397550     | 50.952   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.971          | 74   | 151654     | 53.242   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 204559     | 47.375   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.600          | 142  | 320062     | 62.154   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 187139     | 232.261  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.347          | 96   | 216557     | 52.769   | ug/l   | 94       |
| 13) Acrolein                 | 4.189          | 56   | 122820     | 244.379  | ug/l   | 94       |
| 14) Allyl chloride           | 5.030          | 41   | 321991     | 53.409   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.730          | 53   | 528737     | 245.627  | ug/l   | 98       |
| 16) Acetone                  | 4.436          | 43   | 402268     | 219.008  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.724          | 76   | 532396     | 48.147   | ug/l   | 97       |
| 18) Methyl Acetate           | 5.036          | 43   | 377126     | 48.942   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 785498     | 52.880   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.283          | 84   | 266921     | 56.072   | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 247927     | 53.781   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.683          | 45   | 734638     | 51.987   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.612          | 43   | 2196270    | 250.848  | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 472895     | 54.623   | ug/l   | 98       |
| 25) 2-Butanone               | 7.488          | 43   | 667539     | 232.327  | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 353479     | 48.059   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 303539     | 54.915   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.824          | 49   | 189071     | 50.498   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 441106     | 234.457  | ug/l   | 85       |
| 30) Chloroform               | 7.977          | 83   | 502678     | 52.783   | ug/l   | 93       |
| 31) Cyclohexane              | 8.265          | 56   | 351130     | 44.251   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 444225     | 54.864   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.382          | 75   | 356806     | 54.039   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.565          | 43   | 285563     | 48.524   | ug/l   | 94       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 385274     | 57.785   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.606          | 83   | 370937     | 45.889   | ug/l   | 93       |
| 40) Benzene                  | 8.612          | 78   | 1107711    | 56.851   | ug/l   | 98       |

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 ALS Vial : 25 Sample Multiplier: 1

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 VSTDCCC050EC

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 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 149698   | 47.764   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 381006   | 53.831   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 490264   | 51.002   | ug/l   | 96       |
| 44) Trichloroethene           | 9.359  | 130  | 284626   | 57.691   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.629  | 63   | 283638   | 57.071   | ug/l   | 96       |
| 46) Dibromomethane            | 9.712  | 93   | 197289   | 55.476   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.894  | 83   | 392910   | 57.708   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.688  | 41   | 233538   | 51.242   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 95346    | 1107.655 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1468570  | 257.020  | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 697297   | 57.486   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 414220   | 57.451   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 449612   | 56.587   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 278444   | 57.813   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 404722   | 55.576   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 469851   | 56.905   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 794431   | 221.748  | ug/l   | 94       |
| 59) 2-Hexanone                | 11.200 | 43   | 1030738  | 243.887  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.365 | 129  | 298628   | 60.061   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 282393   | 58.773   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.112 | 164  | 263071   | 61.874   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.900 | 112  | 747591   | 56.721   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 282867   | 62.025   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.970 | 91   | 1309771  | 55.453   | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.076 | 106  | 1025316  | 114.565  | ug/l   | 100      |
| 69) o-Xylene                  | 12.406 | 106  | 505960   | 57.486   | ug/l   | 98       |
| 70) Styrene                   | 12.417 | 104  | 807576   | 57.759   | ug/l   | 98       |
| 71) Bromoform                 | 12.588 | 173  | 186253   | 61.393   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.700 | 105  | 1260634  | 57.259   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 413570   | 50.820   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 361282   | 53.341   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 315242m  | 49.285   | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 287090   | 57.140   | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 1407039  | 54.209   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.135 | 91   | 877998   | 56.688   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105  | 1052907  | 56.902   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 102662   | 51.304   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 845050   | 54.837   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 876223   | 54.243   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1053591  | 57.895   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 1167812  | 50.869   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 986345   | 53.892   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 500980   | 53.917   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 492607   | 53.426   | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.064 | 91   | 792425   | 47.073   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.341 | 117  | 163623   | 54.420   | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 505108   | 58.190   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 62672    | 47.794   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 214323   | 42.252   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.511 | 225  | 88004    | 41.785   | ug/l   | 99       |
| 95) Naphthalene               | 15.647 | 128  | 707689   | 40.532   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 220037   | 44.304   | ug/l   | 98       |

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

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

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