

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051723\  
 Data File : VN077704.D  
 Acq On : 17 May 2023 11:03  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/18/2023  
 Supervised By : Mahesh Dadoda 05/18/2023

Quant Time: May 18 01:36:48 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        | 8.230          | 168  | 434665              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 794714              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 696610              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 311035              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 338405              | 52.033  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 104.060% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 277414              | 53.532  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 107.060% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 1061815             | 53.232  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.460% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 370754              | 52.628  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 105.260% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130          | 85   | 234107              | 47.325  | ug/l   | 98       |
| 3) Chloromethane             | 2.365          | 50   | 237681              | 45.143  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.518          | 62   | 278292              | 44.621  | ug/l   | 99       |
| 5) Bromomethane              | 2.959          | 94   | 200325              | 43.429  | ug/l   | 99       |
| 6) Chloroethane              | 3.124          | 64   | 191289              | 42.559  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 403558              | 46.430  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.971          | 74   | 146340              | 46.119  | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 226422              | 47.072  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.595          | 142  | 302300              | 52.698  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 192198              | 214.131 | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 217669              | 47.612  | ug/l   | 89       |
| 13) Acrolein                 | 4.183          | 56   | 145302              | 261.540 | ug/l   | 95       |
| 14) Allyl chloride           | 5.030          | 41   | 297430              | 44.287  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.724          | 53   | 547635              | 228.374 | ug/l   | 99       |
| 16) Acetone                  | 4.436          | 43   | 432421              | 211.334 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.718          | 76   | 531882              | 43.179  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.030          | 43   | 391083              | 45.560  | ug/l   | 89       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 775402              | 46.858  | ug/l   | 97       |
| 20) Methylene Chloride       | 5.283          | 84   | 260178              | 48.806  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 237761              | 46.299  | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.683          | 45   | 740817              | 47.060  | ug/l # | 94       |
| 23) Vinyl Acetate            | 6.606          | 43   | 2224770             | 228.102 | ug/l # | 88       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 457336              | 47.421  | ug/l   | 98       |
| 25) 2-Butanone               | 7.489          | 43   | 710119              | 221.857 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 388846              | 47.458  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 290794              | 47.226  | ug/l   | 90       |
| 28) Bromochloromethane       | 7.818          | 49   | 211158              | 50.626  | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 467260              | 222.945 | ug/l # | 83       |
| 30) Chloroform               | 7.971          | 83   | 504313              | 47.536  | ug/l   | 93       |
| 31) Cyclohexane              | 8.265          | 56   | 386679              | 43.745  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 429801              | 47.651  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 362376              | 47.808  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.565          | 43   | 301157              | 44.576  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 375554              | 49.066  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.606          | 83   | 450995              | 48.600  | ug/l   | 90       |
| 40) Benzene                  | 8.612          | 78   | 1075153             | 48.067  | ug/l   | 99       |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: May 18 01:36:48 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

### Manual Integrations APPROVED

Reviewed By :John Carlone 05/18/2023  
 Supervised By :Mahesh Dadoda 05/18/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 163691   | 45.496  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 381556   | 46.959  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 506688   | 45.916  | ug/l   | 96       |
| 44) Trichloroethene           | 9.359  | 130  | 276216   | 48.769  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 278177   | 48.757  | ug/l   | 93       |
| 46) Dibromomethane            | 9.718  | 93   | 192321   | 47.107  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.894  | 83   | 388896   | 49.755  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.688  | 41   | 251122   | 47.997  | ug/l   | 85       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 89759    | 908.324 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1535148  | 234.036 | ug/l   | 93       |
| 52) Toluene                   | 10.635 | 92   | 680343   | 48.857  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 409653   | 49.493  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 447081   | 49.015  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 266337   | 48.170  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 407423   | 48.735  | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 457632   | 48.280  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 1044758  | 254.027 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.200 | 43   | 1098638  | 226.441 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.365 | 129  | 291753   | 51.113  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.477 | 107  | 270506   | 49.041  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.112 | 164  | 255293   | 52.405  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.900 | 112  | 721851   | 47.799  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 269560   | 51.587  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.971 | 91   | 1321031  | 48.813  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.076 | 106  | 1016164  | 99.095  | ug/l   | 98       |
| 69) o-Xylene                  | 12.406 | 106  | 500732   | 49.653  | ug/l   | 98       |
| 70) Styrene                   | 12.418 | 104  | 804115   | 50.194  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 182545   | 52.514  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1300836  | 48.518  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 434570   | 43.851  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83   | 370878   | 44.965  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 323874m  | 41.579  | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 279293   | 45.647  | ug/l   | 97       |
| 78) n-propylbenzene           | 13.041 | 91   | 1519304  | 48.066  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 888924   | 47.129  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105  | 1080767  | 47.962  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.747 | 75   | 116906   | 47.974  | ug/l # | 83       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 873554   | 46.549  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 940387   | 47.804  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1077823  | 48.634  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.623 | 105  | 1347335  | 48.193  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 1113763  | 49.971  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 531630   | 46.983  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 528189   | 47.040  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.065 | 91   | 986450   | 48.119  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.341 | 117  | 190403   | 52.001  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 514529   | 48.675  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 69927    | 43.790  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 284968   | 46.131  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.512 | 225  | 123630   | 48.203  | ug/l   | 98       |
| 95) Naphthalene               | 15.653 | 128  | 923889   | 43.452  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 277645   | 45.906  | ug/l   | 98       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/18/2023  
Supervised By :Mahesh Dadoda 05/18/2023

Quant Time: May 18 01:36:48 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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

