

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052422\  
 Data File : VN072594.D  
 Acq On : 24 May 2022 18:30  
 Operator : JC\MD  
 Sample : VN0524WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0524WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/25/2022  
 Supervised By : Mahesh Dadoda 05/25/2022

Quant Time: May 25 09:20:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N052422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 25 09:15:20 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 130221              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 209768              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 193737              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 88852               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.428          | 65   | 75582               | 51.025 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 102.040% |        |        |          |
| 35) Dibromofluoromethane     | 8.010          | 113  | 67604               | 49.725 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 99.440%  |        |        |          |
| 50) Toluene-d8               | 10.433         | 98   | 251687              | 48.483 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 96.960%  |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 90454               | 53.574 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 107.140% |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.063          | 85   | 17652               | 14.387 | ug/l   | 95       |
| 3) Chloromethane             | 2.293          | 50   | 26988               | 18.806 | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.434          | 62   | 22111               | 18.239 | ug/l   | 95       |
| 5) Bromomethane              | 2.810          | 94   | 13816               | 21.134 | ug/l   | 97       |
| 6) Chloroethane              | 2.987          | 64   | 15225               | 20.130 | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 3.357          | 101  | 27910               | 13.608 | ug/l   | 100      |
| 8) Diethyl Ether             | 3.816          | 74   | 13326               | 16.590 | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.198          | 101  | 16774               | 13.533 | ug/l   | 99       |
| 10) Methyl Iodide            | 4.410          | 142  | 20057               | 13.749 | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.357          | 59   | 22865               | 81.973 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.175          | 96   | 15625               | 13.620 | ug/l   | 97       |
| 13) Acrolein                 | 4.034          | 56   | 13360               | 81.099 | ug/l   | 97       |
| 14) Allyl chloride           | 4.834          | 41   | 33407               | 15.641 | ug/l   | 94       |
| 15) Acrylonitrile            | 5.545          | 53   | 70672               | 79.677 | ug/l   | 98       |
| 16) Acetone                  | 4.275          | 43   | 60067               | 82.500 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.522          | 76   | 40089               | 13.789 | ug/l   | 99       |
| 18) Methyl Acetate           | 4.840          | 43   | 34498               | 17.082 | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.598          | 73   | 67569               | 16.645 | ug/l   | 100      |
| 20) Methylene Chloride       | 5.081          | 84   | 22911               | 15.558 | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.587          | 96   | 17828               | 14.361 | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.481          | 45   | 77584               | 17.095 | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.422          | 43   | 333253              | 86.459 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.375          | 63   | 38931               | 15.904 | ug/l   | 99       |
| 25) 2-Butanone               | 7.322          | 43   | 113767              | 92.604 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.316          | 77   | 31021               | 16.458 | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.316          | 96   | 28841               | 18.416 | ug/l   | 96       |
| 28) Bromochloromethane       | 7.651          | 49   | 19319               | 19.131 | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 73585               | 96.264 | ug/l   | 93       |
| 30) Chloroform               | 7.810          | 83   | 46796               | 18.186 | ug/l   | 98       |
| 31) Cyclohexane              | 8.086          | 56   | 40123               | 17.099 | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.004          | 97   | 36247               | 16.819 | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 31348               | 16.297 | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.404          | 43   | 46432               | 18.466 | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.198          | 117  | 31799               | 15.662 | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.457          | 83   | 37731               | 15.919 | ug/l   | 96       |
| 40) Benzene                  | 8.451          | 78   | 103003              | 16.595 | ug/l   | 99       |

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 Sample : VN0524WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0524WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/25/2022  
 Supervised By : Mahesh Dadoda 05/25/2022

Quant Time: May 25 09:20:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N052422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 25 09:15:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 21660    | 17.121  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 35817    | 17.811  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.551  | 43   | 65742    | 18.439  | ug/l   | 98       |
| 44) Trichloroethene           | 9.210  | 130  | 25894    | 16.225  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.480  | 63   | 28513    | 17.702  | ug/l   | 97       |
| 46) Dibromomethane            | 9.569  | 93   | 19333    | 17.983  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.757  | 83   | 36977    | 17.650  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.557  | 41   | 31610    | 18.226  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 12832    | 387.672 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 226668   | 92.865  | ug/l   | 94       |
| 52) Toluene                   | 10.498 | 92   | 65259    | 16.603  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.710 | 75   | 39500    | 18.445  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 42907    | 17.793  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 29703    | 18.215  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 44297    | 17.635  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 49752    | 18.103  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.033 | 63   | 111516   | 103.758 | ug/l   | 95       |
| 59) 2-Hexanone                | 11.080 | 43   | 170024   | 98.259  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.233 | 129  | 29589    | 16.953  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 28711    | 16.888  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.975 | 164  | 23329    | 16.298  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.763 | 112  | 73689    | 16.999  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 26514    | 16.177  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.839 | 91   | 124458   | 16.867  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.951 | 106  | 93649    | 33.297  | ug/l   | 99       |
| 69) o-Xylene                  | 12.274 | 106  | 49477    | 18.198  | ug/l   | 98       |
| 70) Styrene                   | 12.286 | 104  | 82487    | 18.747  | ug/l   | 99       |
| 71) Bromoform                 | 12.457 | 173  | 24900    | 18.483  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.574 | 105  | 125442   | 15.849  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.386 | 43   | 51745    | 18.214  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 46509    | 16.640  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 39056m   | 16.190  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 33815    | 17.223  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.916 | 91   | 142650   | 16.255  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 89343    | 16.479  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 104288   | 16.940  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 13406    | 16.309  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 84988    | 17.142  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.316 | 119  | 93393    | 16.291  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 100728   | 16.685  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 126889   | 16.551  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 101039   | 16.715  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 55020    | 16.604  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 53913    | 16.583  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 75899    | 15.562  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.204 | 117  | 19618    | 16.417  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 53590    | 16.883  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 7789     | 16.348  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 28345    | 16.953  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 15421    | 15.629  | ug/l   | 98       |
| 95) Naphthalene               | 15.498 | 128  | 92482    | 16.725  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 29976    | 16.745  | ug/l   | 99       |

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Sample : VN0524WBSD01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0524WBSD01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/25/2022  
Supervised By :Mahesh Dadoda 05/25/2022

Quant Time: May 25 09:20:37 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N052422W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 25 09:15:20 2022  
Response via : Initial Calibration

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

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

