

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060922\  
 Data File : VN072721.D  
 Acq On : 09 Jun 2022 09:58  
 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 06/10/2022  
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 09 15:46:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060822W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 05:17:31 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 163193     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 288269     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 311881     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.674         | 152  | 152852     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.433          | 65   | 213041     | 48.640   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 97.280%  |       |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 145332     | 50.951   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 101.900% |       |          |
| 50) Toluene-d8               | 10.439         | 98   | 587647     | 51.637   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 103.280% |       |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 215357     | 55.147   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 110.300% |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 127849     | 48.295   | ug/l  | 99       |
| 3) Chloromethane             | 2.293          | 50   | 141930     | 49.360   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.434          | 62   | 133464     | 46.040   | ug/l  | 99       |
| 5) Bromomethane              | 2.822          | 94   | 74372      | 56.188   | ug/l  | 98       |
| 6) Chloroethane              | 2.993          | 64   | 93448      | 50.800   | ug/l  | 98       |
| 7) Trichlorofluoromethane    | 3.357          | 101  | 225664     | 48.909   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.816          | 74   | 89067      | 47.478   | ug/l  | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.204          | 101  | 126531     | 50.080   | ug/l  | 89       |
| 10) Methyl Iodide            | 4.410          | 142  | 115223     | 48.910   | ug/l  | # 86     |
| 11) Tert butyl alcohol       | 5.357          | 59   | 221994     | 212.467  | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 4.175          | 96   | 111661     | 47.420   | ug/l  | 88       |
| 13) Acrolein                 | 4.034          | 56   | 116446     | 269.848  | ug/l  | 96       |
| 14) Allyl chloride           | 4.834          | 41   | 253221     | 46.578   | ug/l  | 90       |
| 15) Acrylonitrile            | 5.545          | 53   | 508003     | 229.475  | ug/l  | 99       |
| 16) Acetone                  | 4.275          | 43   | 544653     | 259.510  | ug/l  | 91       |
| 17) Carbon Disulfide         | 4.522          | 76   | 256728     | 47.253   | ug/l  | 98       |
| 18) Methyl Acetate           | 4.845          | 43   | 248910     | 45.581   | ug/l  | 92       |
| 19) Methyl tert-butyl Ether  | 5.604          | 73   | 517897     | 48.625   | ug/l  | 100      |
| 20) Methylene Chloride       | 5.093          | 84   | 145064     | 48.416   | ug/l  | # 82     |
| 21) trans-1,2-Dichloroethene | 5.587          | 96   | 123301     | 47.553   | ug/l  | 93       |
| 22) Diisopropyl ether        | 6.487          | 45   | 532916     | 48.365   | ug/l  | 97       |
| 23) Vinyl Acetate            | 6.422          | 43   | 2447270    | 242.594  | ug/l  | # 93     |
| 24) 1,1-Dichloroethane       | 6.381          | 63   | 282590     | 49.390   | ug/l  | 98       |
| 25) 2-Butanone               | 7.328          | 43   | 784497     | 232.364  | ug/l  | 90       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 264803     | 51.185   | ug/l  | 94       |
| 27) cis-1,2-Dichloroethene   | 7.316          | 96   | 157176     | 47.658   | ug/l  | 87       |
| 28) Bromochloromethane       | 7.651          | 49   | 140215     | 51.886   | ug/l  | # 74     |
| 29) Tetrahydrofuran          | 7.675          | 42   | 468848     | 224.739  | ug/l  | 89       |
| 30) Chloroform               | 7.810          | 83   | 290051     | 48.630   | ug/l  | 99       |
| 31) Cyclohexane              | 8.092          | 56   | 230573     | 49.718   | ug/l  | 90       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 255623     | 48.498   | ug/l  | 96       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 202239     | 51.080   | ug/l  | 95       |
| 37) Ethyl Acetate            | 7.404          | 43   | 291071     | 47.319   | ug/l  | 96       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 220359     | 52.081   | ug/l  | 94       |
| 39) Methylcyclohexane        | 9.457          | 83   | 238357     | 51.879   | ug/l  | 90       |
| 40) Benzene                  | 8.457          | 78   | 593305     | 49.381   | ug/l  | 99       |

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 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 06/10/2022  
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 09 15:46:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060822W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 05:17:31 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.634  | 41   | 142290   | 68.623  | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 248928   | 49.970  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 471737   | 49.244  | ug/l   | 93       |
| 44) Trichloroethene           | 9.210  | 130  | 143628   | 51.347  | ug/l   | 85       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 166656   | 51.331  | ug/l   | 94       |
| 46) Dibromomethane            | 9.575  | 93   | 112268   | 49.465  | ug/l # | 83       |
| 47) Bromodichloromethane      | 9.757  | 83   | 244290   | 52.359  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.557  | 41   | 221980   | 48.976  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 80225    | 968.322 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 1535088  | 246.058 | ug/l   | 91       |
| 52) Toluene                   | 10.504 | 92   | 390841   | 52.101  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 272944   | 52.663  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 274065   | 51.177  | ug/l # | 83       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 159076   | 49.140  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 293188   | 51.208  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 291075   | 50.354  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 616312   | 270.095 | ug/l   | 92       |
| 59) 2-Hexanone                | 11.080 | 43   | 1185982  | 258.523 | ug/l   | 88       |
| 60) Dibromochloromethane      | 11.233 | 129  | 177597   | 52.857  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.345 | 107  | 165466   | 49.874  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.974 | 164  | 124297   | 47.338  | ug/l   | 90       |
| 65) Chlorobenzene             | 11.769 | 112  | 415749   | 50.025  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 161475   | 48.843  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.839 | 91   | 788658   | 50.469  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.951 | 106  | 574937   | 103.530 | ug/l   | 89       |
| 69) o-Xylene                  | 12.274 | 106  | 290075   | 51.963  | ug/l   | 91       |
| 70) Styrene                   | 12.292 | 104  | 473227   | 53.936  | ug/l   | 95       |
| 71) Bromoform                 | 12.457 | 173  | 120757   | 51.931  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.574 | 105  | 777432   | 47.417  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.386 | 43   | 375404   | 49.264  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 255808   | 44.946  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 227691m  | 46.162  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 153639   | 47.535  | ug/l   | 71       |
| 78) n-propylbenzene           | 12.916 | 91   | 911571   | 50.922  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 538162   | 47.921  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 637630   | 49.082  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 90400    | 47.932  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 514368   | 49.592  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 558001   | 48.904  | ug/l   | 89       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 629814   | 50.668  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 781667   | 50.770  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 630602   | 52.068  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 275831   | 50.246  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 271545   | 50.490  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.939 | 91   | 546703   | 53.579  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.210 | 117  | 130366   | 49.733  | ug/l   | 73       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 266684   | 49.563  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.604 | 75   | 57766    | 42.018  | ug/l   | 74       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180  | 134121   | 51.814  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.368 | 225  | 60979    | 52.589  | ug/l   | 98       |
| 95) Naphthalene               | 15.504 | 128  | 492493   | 49.038  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 132102   | 51.250  | ug/l   | 97       |

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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 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022

Quant Time: Jun 09 15:46:15 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060822W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 09 05:17:31 2022  
Response via : Initial Calibration

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

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

