

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121423\  
 Data File : VN080493.D  
 Acq On : 14 Dec 2023 19:24  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2023  
 Supervised By : Mahesh Dadoda 12/15/2023

Quant Time: Dec 15 00:33:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 13 01:57:14 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 261406   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 410255   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 368792   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 173750   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.576  | 65    | 188116   | 56.343   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 112.680% |      |
| 35) Dibromofluoromethane    | 8.165  | 113   | 143068   | 55.001   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 110.000% |      |
| 50) Toluene-d8              | 10.570 | 98    | 511112   | 52.686   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 105.380% |      |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 189638   | 51.480   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 102.960% |      |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.124 | 85  | 164093  | 49.121  | ug/l   | 97  |
| 3) Chloromethane             | 2.359 | 50  | 149795  | 42.404  | ug/l   | 97  |
| 4) Vinyl Chloride            | 2.512 | 62  | 123796  | 43.393  | ug/l   | 100 |
| 5) Bromomethane              | 2.947 | 94  | 54770   | 42.582  | ug/l   | 100 |
| 6) Chloroethane              | 3.118 | 64  | 83840   | 45.735  | ug/l   | 98  |
| 7) Trichlorofluoromethane    | 3.500 | 101 | 286026  | 49.431  | ug/l   | 97  |
| 8) Diethyl Ether             | 3.953 | 74  | 84747   | 46.499  | ug/l   | 89  |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 131746  | 48.037  | ug/l   | 96  |
| 10) Methyl Iodide            | 4.583 | 142 | 96165   | 39.863  | ug/l   | 92  |
| 11) Tert butyl alcohol       | 5.512 | 59  | 89128   | 226.666 | ug/l   | 97  |
| 12) 1,1-Dichloroethene       | 4.336 | 96  | 127444  | 45.351  | ug/l   | 86  |
| 13) Acrolein                 | 4.177 | 56  | 89233   | 207.218 | ug/l   | 98  |
| 14) Allyl chloride           | 5.018 | 41  | 157542  | 45.311  | ug/l   | 92  |
| 15) Acrylonitrile            | 5.712 | 53  | 263057  | 236.765 | ug/l   | 99  |
| 16) Acetone                  | 4.418 | 43  | 189298  | 319.761 | ug/l   | 96  |
| 17) Carbon Disulfide         | 4.712 | 76  | 341044  | 42.823  | ug/l   | 100 |
| 18) Methyl Acetate           | 5.018 | 43  | 187759  | 49.291  | ug/l   | 97  |
| 19) Methyl tert-butyl Ether  | 5.794 | 73  | 462968  | 49.380  | ug/l   | 98  |
| 20) Methylene Chloride       | 5.271 | 84  | 145264  | 45.851  | ug/l   | 97  |
| 21) trans-1,2-Dichloroethene | 5.783 | 96  | 140812  | 46.212  | ug/l   | 85  |
| 22) Diisopropyl ether        | 6.665 | 45  | 364806  | 48.614  | ug/l   | 95  |
| 23) Vinyl Acetate            | 6.600 | 43  | 1004262 | 233.012 | ug/l   | 93  |
| 24) 1,1-Dichloroethane       | 6.571 | 63  | 256250  | 48.944  | ug/l   | 98  |
| 25) 2-Butanone               | 7.477 | 43  | 293844  | 257.659 | ug/l   | 92  |
| 26) 2,2-Dichloropropane      | 7.488 | 77  | 248983  | 46.507  | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene   | 7.488 | 96  | 160491  | 46.532  | ug/l   | 88  |
| 28) Bromochloromethane       | 7.812 | 49  | 102625  | 51.052  | ug/l   | 99  |
| 29) Tetrahydrofuran          | 7.835 | 42  | 189318  | 231.824 | ug/l   | 94  |
| 30) Chloroform               | 7.965 | 83  | 289985  | 49.898  | ug/l   | 93  |
| 31) Cyclohexane              | 8.259 | 56  | 196154  | 43.202  | ug/l   | 94  |
| 32) 1,1,1-Trichloroethane    | 8.171 | 97  | 285439  | 50.164  | ug/l   | 99  |
| 36) 1,1-Dichloropropene      | 8.371 | 75  | 207620  | 48.816  | ug/l   | 95  |
| 37) Ethyl Acetate            | 7.559 | 43  | 126649  | 47.553  | ug/l   | 98  |
| 38) Carbon Tetrachloride     | 8.359 | 117 | 256116  | 50.397  | ug/l   | 97  |
| 39) Methylcyclohexane        | 9.606 | 83  | 201897  | 45.696  | ug/l   | 92  |
| 40) Benzene                  | 8.606 | 78  | 582681  | 47.444  | ug/l   | 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121423\  
 Data File : VN080493.D  
 Acq On : 14 Dec 2023 19:24  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 12/15/2023  
 Supervised By :Mahesh Dadoda 12/15/2023

Quant Time: Dec 15 00:33:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 13 01:57:14 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 75375    | 49.091  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 233003   | 51.232  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 233704   | 48.803  | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 152673   | 46.112  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.623  | 63   | 136729   | 47.401  | ug/l   | 98       |
| 46) Dibromomethane            | 9.706  | 93   | 101697   | 49.093  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.888  | 83   | 225149   | 50.714  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.682  | 41   | 136205   | 47.663  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 37856    | 873.977 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 643972   | 244.176 | ug/l   | 98       |
| 52) Toluene                   | 10.629 | 92   | 372844   | 48.056  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 235340   | 48.994  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 247053   | 48.120  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 136219   | 48.794  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 152305   | 49.277  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 235987   | 48.221  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 454873   | 233.121 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 467118   | 239.916 | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.365 | 129  | 162262   | 49.050  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 138299   | 47.865  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 126505   | 44.428  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.894 | 112  | 385790   | 47.025  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 157809   | 49.023  | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.965 | 91   | 720687   | 47.776  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.070 | 106  | 527900   | 94.705  | ug/l   | 88       |
| 69) o-Xylene                  | 12.400 | 106  | 254948   | 46.761  | ug/l   | 87       |
| 70) Styrene                   | 12.412 | 104  | 382757   | 48.737  | ug/l   | 93       |
| 71) Bromoform                 | 12.576 | 173  | 108868   | 46.376  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.694 | 105  | 674227   | 48.305  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 190628   | 46.769  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 171167   | 45.764  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 161271m  | 46.526  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 160795   | 46.830  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.035 | 91   | 747939   | 48.601  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 480832   | 47.858  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 585934   | 48.742  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 57073    | 43.231  | ug/l # | 80       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 483019   | 46.772  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 469856   | 47.726  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 585902   | 48.993  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 600214   | 47.660  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 543370   | 47.785  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 277736   | 45.910  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.811 | 146  | 280018   | 45.854  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 452866   | 47.690  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 87512    | 48.459  | ug/l   | 71       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 266359   | 46.367  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 37554    | 47.735  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 152513   | 47.817  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 78535    | 43.251  | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 447640   | 46.219  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 143697   | 46.688  | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121423\  
Data File : VN080493.D  
Acq On : 14 Dec 2023 19:24  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/15/2023  
Supervised By :Mahesh Dadoda 12/15/2023

Quant Time: Dec 15 00:33:18 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 13 01:57:14 2023  
Response via : Initial Calibration

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

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

