

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042423\  
 Data File : VN077440.D  
 Acq On : 24 Apr 2023 15:01  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Apr 25 02:05:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 01:54:53 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.230  | 168  | 687094   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.107  | 114  | 1296342  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.866 | 117  | 1150107  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.795 | 152  | 429440   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.589  | 65    | 53295    | 5.948    | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 11.900%# |
| 35) Dibromofluoromethane    | 8.172  | 113   | 45419    | 5.845    | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 11.700%# |
| 50) Toluene-d8              | 10.566 | 98    | 166437   | 5.601    | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 11.200%# |
| 62) 4-Bromofluorobenzene    | 12.848 | 95    | 52017    | 5.341    | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 10.680%# |

|                              |       |     |        |        |        |     |
|------------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds             |       |     |        | Qvalue |        |     |
| 2) Dichlorodifluoromethane   | 2.131 | 85  | 34770  | 4.249  | ug/l   | 93  |
| 3) Chloromethane             | 2.372 | 50  | 32596  | 4.733  | ug/l   | 92  |
| 4) Vinyl Chloride            | 2.519 | 62  | 45325  | 4.940  | ug/l   | 99  |
| 5) Bromomethane              | 2.937 | 94  | 44015  | 5.067  | ug/l   | 89  |
| 6) Chloroethane              | 3.113 | 64  | 37145  | 5.329  | ug/l   | 95  |
| 7) Trichlorofluoromethane    | 3.490 | 101 | 68166  | 5.055  | ug/l   | 99  |
| 8) Diethyl Ether             | 3.972 | 74  | 25555  | 5.215  | ug/l   | 97  |
| 9) 1,1,2-Trichlorotrifluo... | 4.378 | 101 | 39541  | 5.042  | ug/l   | 99  |
| 10) Methyl Iodide            | 4.590 | 142 | 46577  | 4.872  | ug/l # | 87  |
| 11) Tert butyl alcohol       | 5.537 | 59  | 40917  | 30.916 | ug/l   | 97  |
| 12) 1,1-Dichloroethene       | 4.343 | 96  | 38303  | 4.969  | ug/l   | 95  |
| 13) Acrolein                 | 4.190 | 56  | 41805  | 29.472 | ug/l   | 95  |
| 14) Allyl chloride           | 5.042 | 41  | 47069  | 5.521  | ug/l   | 95  |
| 15) Acrylonitrile            | 5.737 | 53  | 92465  | 28.318 | ug/l   | 96  |
| 16) Acetone                  | 4.442 | 43  | 79928  | 28.022 | ug/l   | 96  |
| 17) Carbon Disulfide         | 4.725 | 76  | 95692  | 4.911  | ug/l   | 97  |
| 18) Methyl Acetate           | 5.042 | 43  | 57404  | 5.211  | ug/l   | 99  |
| 19) Methyl tert-butyl Ether  | 5.807 | 73  | 134809 | 5.287  | ug/l   | 97  |
| 20) Methylene Chloride       | 5.284 | 84  | 49088  | 5.427  | ug/l   | 97  |
| 21) trans-1,2-Dichloroethene | 5.789 | 96  | 43115  | 5.200  | ug/l   | 92  |
| 22) Diisopropyl ether        | 6.689 | 45  | 99475  | 5.084  | ug/l   | 92  |
| 23) Vinyl Acetate            | 6.613 | 43  | 327012 | 26.763 | ug/l   | 97  |
| 24) 1,1-Dichloroethane       | 6.578 | 63  | 71135  | 5.136  | ug/l   | 96  |
| 25) 2-Butanone               | 7.495 | 43  | 119204 | 29.465 | ug/l   | 100 |
| 26) 2,2-Dichloropropane      | 7.495 | 77  | 70914  | 5.281  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene   | 7.489 | 96  | 52378  | 5.334  | ug/l   | 97  |
| 28) Bromochloromethane       | 7.819 | 49  | 29417  | 5.562  | ug/l   | 99  |
| 29) Tetrahydrofuran          | 7.848 | 42  | 69420  | 27.387 | ug/l   | 98  |
| 30) Chloroform               | 7.966 | 83  | 80497  | 5.157  | ug/l   | 100 |
| 31) Cyclohexane              | 8.254 | 56  | 73653  | 4.922  | ug/l # | 81  |
| 32) 1,1,1-Trichloroethane    | 8.178 | 97  | 75880  | 5.288  | ug/l   | 96  |
| 36) 1,1-Dichloropropene      | 8.378 | 75  | 56214  | 4.994  | ug/l   | 98  |
| 37) Ethyl Acetate            | 7.572 | 43  | 40971  | 4.790  | ug/l # | 94  |
| 38) Carbon Tetrachloride     | 8.360 | 117 | 63029  | 5.075  | ug/l # | 87  |
| 39) Methylcyclohexane        | 9.607 | 83  | 72688  | 4.901  | ug/l   | 99  |
| 40) Benzene                  | 8.607 | 78  | 176442 | 5.145  | ug/l   | 97  |

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 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Apr 25 02:05:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 01:54:53 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.778  | 41   | 22565    | 5.065   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.678  | 62   | 61211    | 5.197   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 80691    | 5.453   | ug/l   | 98       |
| 44) Trichloroethene           | 9.354  | 130  | 46836    | 5.334   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 43473    | 5.412   | ug/l   | 99       |
| 46) Dibromomethane            | 9.707  | 93   | 33335    | 5.114   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.895  | 83   | 65151    | 5.168   | ug/l # | 96       |
| 48) Methyl methacrylate       | 9.683  | 41   | 35381    | 5.253   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.701  | 88   | 18878    | 111.732 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 237743   | 27.391  | ug/l   | 97       |
| 52) Toluene                   | 10.630 | 92   | 121058   | 5.389   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 65946    | 5.166   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 74372    | 5.352   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 44936    | 4.974   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 65385    | 5.165   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 78826    | 5.478   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.166 | 63   | 133123   | 31.093  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.201 | 43   | 177011   | 28.056  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.360 | 129  | 46816    | 4.993   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 47408    | 5.140   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.107 | 164  | 34333    | 4.987   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.895 | 112  | 130705   | 5.371   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 44646    | 5.042   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.966 | 91   | 223075   | 5.207   | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.071 | 106  | 175134   | 10.518  | ug/l   | 96       |
| 69) o-Xylene                  | 12.401 | 106  | 84577    | 5.164   | ug/l   | 100      |
| 70) Styrene                   | 12.413 | 104  | 130997   | 5.114   | ug/l   | 98       |
| 71) Bromoform                 | 12.583 | 173  | 29277    | 5.054   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.695 | 105  | 217359   | 5.454   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.495 | 43   | 63727    | 5.402   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 66048    | 5.275   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 82532    | 8.088   | ug/l   | 68       |
| 77) Bromobenzene              | 12.983 | 156  | 45879    | 5.283   | ug/l   | 95       |
| 78) n-propylbenzene           | 13.036 | 91   | 234309   | 5.318   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 143687   | 5.289   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 159557   | 5.392   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 17746    | 5.162   | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 132550   | 5.221   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 153187   | 5.330   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.489 | 105  | 142492   | 5.156   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 200371   | 5.079   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 155412   | 5.120   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 81636    | 5.285   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 81709    | 5.362   | ug/l   | 94       |
| 89) n-Butylbenzene            | 14.060 | 91   | 118740   | 5.055   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.336 | 117  | 35567    | 5.304   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 79032    | 5.159   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 13149    | 5.679   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.365 | 180  | 18143    | 6.269   | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.465 | 225  | 16972    | 5.482   | ug/l   | 98       |
| 95) Naphthalene               | 15.595 | 128  | 60389    | 6.072   | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.759 | 180  | 17982    | 6.376   | ug/l   | 97       |

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Operator : JC\MD  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Quant Time: Apr 25 02:05:51 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 25 01:54:53 2023  
Response via : Initial Calibration

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

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

