

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081522\  
 Data File : VN073893.D  
 Acq On : 15 Aug 2022 13:44  
 Operator : JC\MD  
 Sample : VSTDIC075  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC075

Quant Time: Aug 15 14:03:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 14:02:41 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/16/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 671205               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.898          | 114  | 943838               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680         | 117  | 874713               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.616         | 152  | 462373               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 487721               | 74.873  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 149.740%# |         |        |          |
| 35) Dibromofluoromethane     | 7.945          | 113  | 434623               | 79.018  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 158.040%# |         |        |          |
| 50) Toluene-d8               | 10.375         | 98   | 1715061              | 80.637  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 161.280%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.669         | 95   | 604745               | 85.885  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 171.780%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 372677               | 69.839  | ug/l   | 97       |
| 3) Chloromethane             | 2.269          | 50   | 375957               | 63.022  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.405          | 62   | 512305               | 66.996  | ug/l   | 99       |
| 5) Bromomethane              | 2.781          | 94   | 289816               | 63.346  | ug/l   | 97       |
| 6) Chloroethane              | 2.946          | 64   | 349779               | 64.809  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.304          | 101  | 664303               | 67.449  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.763          | 74   | 243657               | 66.353  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.134          | 101  | 389823               | 68.602  | ug/l   | 92       |
| 10) Methyl Iodide            | 4.346          | 142  | 522406               | 75.290  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.281          | 59   | 508707               | 338.469 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.104          | 96   | 359791               | 67.493  | ug/l   | 91       |
| 13) Acrolein                 | 3.975          | 56   | 309083               | 288.791 | ug/l   | 99       |
| 14) Allyl chloride           | 4.757          | 41   | 530342               | 67.003  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.463          | 53   | 1204630              | 332.858 | ug/l   | 100      |
| 16) Acetone                  | 4.216          | 43   | 955144               | 303.843 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.451          | 76   | 869927               | 68.538  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.763          | 43   | 549934               | 54.251  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.528          | 73   | 1325951              | 69.010  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.010          | 84   | 418573               | 63.893  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.504          | 96   | 395318               | 67.322  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.404          | 45   | 1159624              | 69.188  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.345          | 43   | 5127730              | 356.630 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.298          | 63   | 693389               | 66.480  | ug/l   | 98       |
| 25) 2-Butanone               | 7.251          | 43   | 1632322              | 328.488 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 671095               | 69.369  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.245          | 96   | 486343               | 67.148  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.581          | 49   | 267783               | 69.389  | ug/l # | 82       |
| 29) Tetrahydrofuran          | 7.604          | 42   | 1062264              | 333.737 | ug/l   | 95       |
| 30) Chloroform               | 7.739          | 83   | 773755               | 66.354  | ug/l   | 99       |
| 31) Cyclohexane              | 8.016          | 56   | 612151               | 67.192  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 714454               | 69.297  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.145          | 75   | 560264               | 72.627  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.334          | 43   | 641150               | 68.096  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.134          | 117  | 634054               | 71.784  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.392          | 83   | 753360               | 78.696  | ug/l   | 92       |
| 40) Benzene                  | 8.386          | 78   | 1709022              | 69.963  | ug/l   | 99       |

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 Sample : VSTDIC075  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC075

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/16/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

Quant Time: Aug 15 14:03:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 14:02:41 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 320006   | 76.588   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.457  | 62   | 586048   | 69.747   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 972767   | 72.483   | ug/l   | 97       |
| 44) Trichloroethene           | 9.145  | 130  | 512663   | 72.973   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.422  | 63   | 416371   | 71.116   | ug/l   | 99       |
| 46) Dibromomethane            | 9.510  | 93   | 315748   | 70.830   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.698  | 83   | 624263   | 73.439   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.492  | 41   | 425325   | 74.125   | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 248168   | 1442.348 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 3255969  | 358.417  | ug/l   | 99       |
| 52) Toluene                   | 10.439 | 92   | 1152506  | 68.860   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 699711   | 78.720   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 731582   | 75.036   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 472803   | 72.744   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 736512   | 79.053   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 766163   | 72.269   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.981  | 63   | 1574076  | 356.964  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.028 | 43   | 2540180  | 362.508  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.175 | 129  | 552614   | 76.897   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 511537   | 73.430   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.916 | 164  | 483577   | 70.608   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.710 | 112  | 1310928  | 70.862   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 506559   | 72.127   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.786 | 91   | 2240960  | 72.808   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.892 | 106  | 1806395  | 144.300  | ug/l   | 96       |
| 69) o-Xylene                  | 12.222 | 106  | 897922   | 71.462   | ug/l   | 94       |
| 70) Styrene                   | 12.233 | 104  | 1474431  | 74.958   | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 466704   | 74.378   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.516 | 105  | 2334471  | 69.499   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.327 | 43   | 851506   | 66.813   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.769 | 83   | 712775   | 62.731   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.822 | 75   | 706656m  | 68.057   | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 615006   | 67.518   | ug/l   | 89       |
| 78) n-propylbenzene           | 12.857 | 91   | 2621376  | 73.409   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 1546599  | 69.341   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 1956728  | 71.682   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 254535   | 75.608   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 1511991  | 71.318   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 1779225  | 70.823   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 1964413  | 72.043   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 2462416  | 75.706   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 2156098  | 77.942   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 1121823  | 71.195   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 1117699  | 70.092   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.880 | 91   | 1730511  | 79.325   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.151 | 117  | 367110   | 72.564   | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 1110146  | 68.137   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 177736   | 66.188   | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 763923   | 77.583   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 379323   | 73.019   | ug/l   | 98       |
| 95) Naphthalene               | 15.433 | 128  | 2354844  | 72.604   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 752735   | 73.714   | ug/l   | 99       |

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Sample : VSTDICC075  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC075

Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 08/16/2022

Quant Time: Aug 15 14:03:03 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 15 14:02:41 2022  
Response via : Initial Calibration

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

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

