

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062723\  
 Data File : VN078427.D  
 Acq On : 27 Jun 2023 19:29  
 Operator : JC\MD  
 Sample : 03376-05MS  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TW-1MS

Quant Time: Jun 28 07:15:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 06/28/2023  
 Supervised By : Mahesh Dadoda 06/28/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.229          | 168  | 403016              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 729160              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 631405              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 251053              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 277170              | 51.582  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 103.160% |         |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 247488              | 53.681  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 107.360% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 887738              | 49.947  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 99.900%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 284623              | 51.512  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 103.020% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 175322              | 38.484  | ug/l   | 93       |
| 3) Chloromethane             | 2.371          | 50   | 218922              | 51.121  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.518          | 62   | 303939              | 50.950  | ug/l   | 100      |
| 5) Bromomethane              | 2.947          | 94   | 208574              | 46.264  | ug/l   | 99       |
| 6) Chloroethane              | 3.118          | 64   | 205960              | 50.647  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 390558              | 48.279  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.971          | 74   | 137360              | 48.325  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 211732              | 49.594  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.594          | 142  | 298187              | 49.388  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.530          | 59   | 177721              | 239.529 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.347          | 96   | 210883              | 47.918  | ug/l   | 92       |
| 13) Acrolein                 | 4.183          | 56   | 242678              | 296.768 | ug/l   | 98       |
| 14) Allyl chloride           | 5.036          | 41   | 297578              | 55.392  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.730          | 53   | 512014              | 267.665 | ug/l   | 98       |
| 16) Acetone                  | 4.441          | 43   | 402036              | 259.936 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.718          | 76   | 527141              | 46.536  | ug/l   | 100      |
| 18) Methyl Acetate           | 5.036          | 43   | 354568              | 49.793  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 717510              | 51.099  | ug/l   | 100      |
| 20) Methylene Chloride       | 5.283          | 84   | 248213              | 48.564  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 229995              | 48.454  | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.683          | 45   | 682607              | 54.018  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.618          | 43   | 1972326             | 262.563 | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 438576              | 52.611  | ug/l   | 98       |
| 25) 2-Butanone               | 7.494          | 43   | 644409              | 270.937 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 327977              | 53.285  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 281145              | 49.655  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.824          | 49   | 198855              | 51.955  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 427114              | 268.624 | ug/l   | 85       |
| 30) Chloroform               | 7.971          | 83   | 510261              | 56.844  | ug/l   | 90       |
| 31) Cyclohexane              | 8.265          | 56   | 312713              | 45.367  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 423071              | 53.684  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 340585              | 51.502  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.571          | 43   | 276586              | 53.539  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 369537              | 52.921  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.606          | 83   | 284888              | 41.569  | ug/l   | 92       |
| 40) Benzene                  | 8.612          | 78   | 1032871             | 52.316  | ug/l   | 100      |

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Quant Time: Jun 28 07:15:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

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 Supervised By : Mahesh Dadoda 06/28/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 142574   | 50.916   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 352806   | 52.119   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 480116   | 48.595   | ug/l   | 94       |
| 44) Trichloroethene           | 9.359  | 130  | 265170   | 50.859   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.629  | 63   | 263766   | 53.698   | ug/l   | 97       |
| 46) Dibromomethane            | 9.718  | 93   | 188202   | 52.018   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.894  | 83   | 377346   | 56.148   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.688  | 41   | 230369   | 55.562   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 90081    | 1033.706 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1429404  | 274.744  | ug/l   | 94       |
| 52) Toluene                   | 10.635 | 92   | 651186   | 52.241   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 382975   | 54.717   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 408952   | 52.857   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 265198   | 56.241   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 370202   | 53.918   | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 433351   | 54.445   | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 1005066  | 277.445  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.365 | 129  | 289751   | 56.155   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 263528   | 53.255   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 315077   | 74.799   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.900 | 112  | 686947   | 50.803   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 267286   | 53.744   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.970 | 91   | 1210029  | 51.862   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 928638   | 104.438  | ug/l   | 99       |
| 69) o-Xylene                  | 12.406 | 106  | 462374   | 52.952   | ug/l   | 100      |
| 70) Styrene                   | 12.417 | 104  | 731018   | 53.178   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 183841   | 57.280   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1092048  | 46.000   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.500 | 43   | 370197   | 47.353   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 361111   | 55.577   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 290773m  | 48.993   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 264983   | 48.082   | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 1203632  | 46.665   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 768488   | 46.157   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 873389   | 45.440   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 102011   | 52.807   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 729335   | 46.936   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 720199   | 43.106   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 882349   | 47.350   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 883327   | 40.393   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 735789   | 41.462   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 421841   | 45.252   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 399238   | 44.384   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 542434   | 38.753   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 138164   | 43.872   | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 414773   | 45.527   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 53889    | 45.827   | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 114938   | 35.409   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 59648    | 36.779   | ug/l   | 95       |
| 95) Naphthalene               | 15.647 | 128  | 373845   | 34.238   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 127135   | 35.019   | ug/l   | 94       |

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Manual Integrations  
APPROVED

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Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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