

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032123\  
 Data File : VN077082.D  
 Acq On : 21 Mar 2023 10:48  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 21 23:12:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/22/2023  
 Supervised By : Mahesh Dadoda 03/22/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 402025              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 694282              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 623541              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 289175              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 322443              | 50.212  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 100.420% |         |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 247109              | 50.823  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 101.640% |         |        |          |
| 50) Toluene-d8               | 10.566         | 98   | 933000              | 53.719  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 107.440% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.854         | 95   | 352879              | 57.497  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 115.000% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 144135              | 37.658  | ug/l   | 99       |
| 3) Chloromethane             | 2.378          | 50   | 165769              | 40.925  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.531          | 62   | 198814              | 45.472  | ug/l   | 97       |
| 5) Bromomethane              | 2.948          | 94   | 139995              | 47.404  | ug/l   | 98       |
| 6) Chloroethane              | 3.125          | 64   | 165552              | 59.840  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.507          | 101  | 461236              | 49.037  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.972          | 74   | 180877              | 51.097  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 264567              | 49.586  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.601          | 142  | 315493              | 52.500  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 210209              | 224.643 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 242491              | 49.682  | ug/l   | 96       |
| 13) Acrolein                 | 4.190          | 56   | 287610              | 248.500 | ug/l   | 97       |
| 14) Allyl chloride           | 5.031          | 41   | 444103              | 49.701  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.731          | 53   | 752578              | 239.234 | ug/l   | 99       |
| 16) Acetone                  | 4.437          | 43   | 780025              | 272.609 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.725          | 76   | 657412              | 46.192  | ug/l   | 100      |
| 18) Methyl Acetate           | 5.037          | 43   | 506115              | 46.907  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.807          | 73   | 900417              | 51.401  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.289          | 84   | 296183              | 47.695  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.801          | 96   | 265936              | 50.269  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.683          | 45   | 1004584             | 51.313  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.613          | 43   | 3134312             | 253.705 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.578          | 63   | 547223              | 48.847  | ug/l   | 99       |
| 25) 2-Butanone               | 7.489          | 43   | 1013479             | 242.127 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.495          | 77   | 448112              | 53.162  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 321259              | 53.021  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.819          | 49   | 224663              | 46.179  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 649141              | 239.325 | ug/l   | 99       |
| 30) Chloroform               | 7.972          | 83   | 545261              | 50.147  | ug/l   | 99       |
| 31) Cyclohexane              | 8.260          | 56   | 490795              | 46.713  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.172          | 97   | 480628              | 51.717  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 405637              | 53.414  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.566          | 43   | 404049              | 49.727  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 395189              | 53.425  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.607          | 83   | 501202              | 56.384  | ug/l   | 99       |
| 40) Benzene                  | 8.613          | 78   | 1207865             | 52.444  | ug/l   | 99       |

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Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 21 23:12:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/22/2023  
 Supervised By :Mahesh Dadoda 03/22/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 217956m  | 49.793  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 427384   | 51.353  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.689  | 43   | 654506   | 51.564  | ug/l   | 98       |
| 44) Trichloroethene           | 9.354  | 130  | 276572   | 52.279  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 321532   | 52.563  | ug/l   | 100      |
| 46) Dibromomethane            | 9.713  | 93   | 199797   | 51.790  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.889  | 83   | 429076   | 53.030  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.683  | 41   | 325486   | 53.638  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 97838    | 943.993 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 2006434  | 253.842 | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 751693   | 54.662  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 464393   | 58.560  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 507747   | 56.747  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 291864   | 53.823  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 465652   | 57.106  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 519617   | 52.338  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 729130   | 209.740 | ug/l   | 100      |
| 59) 2-Hexanone                | 11.195 | 43   | 1500938  | 261.804 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.360 | 129  | 303422   | 55.703  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 287587   | 53.480  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.107 | 164  | 223379   | 53.378  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.895 | 112  | 760829   | 53.031  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 288097   | 54.269  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1465295  | 56.229  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 1094647  | 113.264 | ug/l   | 99       |
| 69) o-Xylene                  | 12.401 | 106  | 537851   | 56.009  | ug/l   | 98       |
| 70) Styrene                   | 12.413 | 104  | 902764   | 60.383  | ug/l   | 99       |
| 71) Bromoform                 | 12.583 | 173  | 206679   | 57.454  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.701 | 105  | 1437552  | 55.472  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.495 | 43   | 576733   | 51.416  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 437219   | 46.569  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 342912m  | 45.844  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 301898   | 52.004  | ug/l   | 94       |
| 78) n-propylbenzene           | 13.036 | 91   | 1719895  | 57.491  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 1030505  | 54.060  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 1234810  | 57.071  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.742 | 75   | 160040   | 58.894  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 1012613  | 55.863  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.442 | 119  | 1018617  | 56.072  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 1228983  | 56.919  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 1503667  | 58.188  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 1236729  | 59.595  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 576596   | 52.552  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 579468   | 53.083  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 1117482  | 61.382  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.336 | 117  | 221817   | 52.573  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 572587   | 52.355  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 84694    | 48.683  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 304275   | 61.544  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 152725   | 56.092  | ug/l   | 98       |
| 95) Naphthalene               | 15.642 | 128  | 979474   | 50.943  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 293378   | 59.139  | ug/l   | 100      |

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Manual Integrations  
APPROVED

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

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

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