

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072723\  
 Data File : VN078653.D  
 Acq On : 27 Jul 2023 10:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/27/2023  
 Supervised By : Semsettin Yesilyurt 07/28/2023

Quant Time: Jul 27 15:59:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 485187     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 791472     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 710873     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 298920     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 319350     | 49.097   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.200%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 289267     | 53.840   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 107.680% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 1017960    | 50.154   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 100.300% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 332742     | 53.223   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 106.440% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 305764     | 51.400   | ug/l   | 95       |
| 3) Chloromethane             | 2.371          | 50   | 369655     | 57.172   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.524          | 62   | 464184     | 55.498   | ug/l   | 98       |
| 5) Bromomethane              | 2.942          | 94   | 296844     | 56.786   | ug/l   | 99       |
| 6) Chloroethane              | 3.112          | 64   | 291842     | 57.989   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 495770     | 49.586   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.971          | 74   | 179248     | 53.810   | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 270291     | 51.069   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.595          | 142  | 395477     | 54.377   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 259347     | 258.570  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 258794     | 50.550   | ug/l   | 92       |
| 13) Acrolein                 | 4.189          | 56   | 290151     | 294.026  | ug/l   | 99       |
| 14) Allyl chloride           | 5.030          | 41   | 343586     | 49.114   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.730          | 53   | 662329     | 261.355  | ug/l   | 99       |
| 16) Acetone                  | 4.436          | 43   | 525183     | 259.204  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.718          | 76   | 720639     | 48.678   | ug/l   | 100      |
| 18) Methyl Acetate           | 5.036          | 43   | 441847     | 51.515   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 911399     | 54.031   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.289          | 84   | 315203     | 54.342   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 292293     | 50.665   | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.683          | 45   | 865482     | 55.252   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.612          | 43   | 2776470    | 278.809  | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 535018     | 50.688   | ug/l   | 99       |
| 25) 2-Butanone               | 7.494          | 43   | 852654     | 267.339  | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 457234     | 52.964   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 352792     | 52.861   | ug/l   | 94       |
| 28) Bromochloromethane       | 7.824          | 49   | 244367     | 49.154   | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 556124     | 265.733  | ug/l   | 85       |
| 30) Chloroform               | 7.971          | 83   | 578239     | 52.620   | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 424958     | 48.343   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 511186     | 51.885   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 420868     | 54.251   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.565          | 43   | 360949     | 55.814   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 469231     | 55.652   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.606          | 83   | 405759     | 57.300   | ug/l   | 93       |
| 40) Benzene                  | 8.612          | 78   | 1266129    | 55.090   | ug/l   | 97       |

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 Sample : VSTDC0050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC0050

Quant Time: Jul 27 15:59:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 07/27/2023  
 Supervised By :Semsettin Yesilyurt 07/28/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 186433   | 56.550   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 434686   | 55.605   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 635988   | 59.733   | ug/l   | 93       |
| 44) Trichloroethene           | 9.359  | 130  | 329093   | 53.128   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 331394   | 56.931   | ug/l   | 98       |
| 46) Dibromomethane            | 9.718  | 93   | 238331   | 58.172   | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.894  | 83   | 461510   | 56.195   | ug/l   | 92       |
| 48) Methyl methacrylate       | 9.688  | 41   | 278713   | 56.503   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 124169   | 1154.276 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1819155  | 287.249  | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 814663   | 57.192   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 494944   | 58.826   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 530270   | 59.126   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 322661   | 57.493   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 473602   | 60.368   | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 530533   | 55.597   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 747169   | 267.244  | ug/l   | 93       |
| 59) 2-Hexanone                | 11.200 | 43   | 1291681  | 286.979  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.365 | 129  | 362191   | 58.458   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 331149   | 57.279   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.112 | 164  | 278900   | 52.184   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.900 | 112  | 859644   | 54.101   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 335044   | 54.811   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.971 | 91   | 1516433  | 56.459   | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.076 | 106  | 1160735  | 116.886  | ug/l   | 98       |
| 69) o-Xylene                  | 12.406 | 106  | 569525   | 56.780   | ug/l   | 98       |
| 70) Styrene                   | 12.418 | 104  | 905294   | 57.691   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 250855   | 60.594   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1406272  | 50.067   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 490177   | 50.640   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 438749   | 56.318   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 354604m  | 49.078   | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 350092   | 57.549   | ug/l   | 92       |
| 78) n-propylbenzene           | 13.041 | 91   | 1568986  | 52.233   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 969734   | 49.286   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 1151810  | 51.900   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 138613   | 50.413   | ug/l # | 85       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 939405   | 51.181   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 964472   | 51.187   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1139117  | 52.843   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 1219346  | 51.199   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 1020283  | 53.352   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 568261   | 52.701   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 553379   | 50.951   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 759756   | 55.526   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.341 | 117  | 196204   | 55.918   | ug/l   | 80       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 545837   | 50.867   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 70251    | 52.334   | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 175527   | 51.252   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 106937   | 61.294   | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 542915   | 46.371   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 198765   | 50.474   | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/27/2023  
Supervised By :Semsettin Yesilyurt 07/28/2023

Quant Time: Jul 27 15:59:51 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
Response via : Initial Calibration

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

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

