

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011023\  
 Data File : VN076194.D  
 Acq On : 10 Jan 2023 20:00  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 01/11/2023  
 Supervised By :Semsettin Yesilyurt 01/11/2023

Quant Time: Jan 11 07:30:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 362656     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 589769     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 528515     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 257998     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 190252     | 48.222  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 96.440% |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 176511     | 48.328  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 96.660% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 612575     | 44.858  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 89.720% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 220964     | 48.854  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 97.700% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 164689     | 63.957  | ug/l   | 99       |
| 3) Chloromethane             | 2.371          | 50   | 175941     | 54.948  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.530          | 62   | 209681     | 54.898  | ug/l   | 97       |
| 5) Bromomethane              | 2.959          | 94   | 161915     | 49.881  | ug/l   | 100      |
| 6) Chloroethane              | 3.130          | 64   | 144174     | 50.973  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 288151     | 49.719  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.977          | 74   | 114310     | 54.001  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.389          | 101  | 163115     | 49.288  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.600          | 142  | 277004     | 51.576  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.536          | 59   | 132078     | 236.587 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 161213     | 50.157  | ug/l   | 98       |
| 13) Acrolein                 | 4.189          | 56   | 127216     | 185.876 | ug/l   | 99       |
| 14) Allyl chloride           | 5.036          | 41   | 195278     | 51.972  | ug/l   | 90       |
| 15) Acrylonitrile            | 5.730          | 53   | 388308     | 254.884 | ug/l   | 100      |
| 16) Acetone                  | 4.442          | 43   | 305034     | 224.283 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.730          | 76   | 352439     | 45.288  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.036          | 43   | 221049     | 54.985  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 595935     | 56.302  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.289          | 84   | 195695     | 53.838  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 172205     | 48.921  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.683          | 45   | 493443     | 54.061  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.612          | 43   | 1609275    | 261.946 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 313928     | 51.570  | ug/l   | 99       |
| 25) 2-Butanone               | 7.488          | 43   | 486893     | 255.680 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 247314     | 47.975  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 216332     | 51.386  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.818          | 49   | 127935     | 47.950  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 318391     | 266.798 | ug/l   | 99       |
| 30) Chloroform               | 7.971          | 83   | 343085     | 50.058  | ug/l   | 94       |
| 31) Cyclohexane              | 8.265          | 56   | 249120     | 44.089  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 305853     | 50.336  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 238271     | 49.110  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.565          | 43   | 204858     | 52.566  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 260352     | 47.945  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 288362     | 49.265  | ug/l   | 99       |
| 40) Benzene                  | 8.612          | 78   | 744749     | 49.751  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011023\  
 Data File : VN076194.D  
 Acq On : 10 Jan 2023 20:00  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jan 11 07:30:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 01/11/2023  
 Supervised By :Semsettin Yesilyurt 01/11/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 110310   | 54.455  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 255468   | 51.333  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.694  | 43   | 353371   | 54.968  | ug/l   | 99       |
| 44) Trichloroethene           | 9.353  | 130  | 200527   | 47.550  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 182872   | 50.202  | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 134747   | 49.873  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 265047   | 50.024  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 164266   | 56.733  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 68124    | 957.038 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1033638  | 265.868 | ug/l   | 99       |
| 52) Toluene                   | 10.635 | 92   | 487985   | 50.054  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 271899   | 52.424  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 299362   | 52.570  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 195883   | 51.190  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 282207   | 55.522  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 321958   | 51.293  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 418046   | 258.330 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 759421   | 267.850 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.365 | 129  | 215624   | 50.669  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 201667   | 52.078  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 188318   | 50.636  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.894 | 112  | 522461   | 48.163  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 200549   | 49.913  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 922600   | 50.393  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.070 | 106  | 729516   | 100.674 | ug/l   | 99       |
| 69) o-Xylene                  | 12.400 | 106  | 367312   | 51.222  | ug/l   | 100      |
| 70) Styrene                   | 12.412 | 104  | 605993   | 53.148  | ug/l   | 100      |
| 71) Bromoform                 | 12.582 | 173  | 154002   | 52.674  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 945320   | 50.704  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 304221   | 55.621  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 273997   | 47.539  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 242083m  | 46.549  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 232699   | 49.318  | ug/l   | 97       |
| 78) n-propylbenzene           | 13.035 | 91   | 1050915  | 51.106  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 633338   | 49.340  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 798960   | 51.202  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 87966    | 60.884  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 633338   | 49.340  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.441 | 119  | 703370   | 51.125  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 810235   | 52.341  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 979167   | 51.565  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 839487   | 53.130  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 428730   | 49.190  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 423073   | 47.516  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 670857   | 52.409  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.335 | 117  | 137562   | 48.671  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 432571   | 50.387  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 49781    | 48.676  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 224084   | 52.723  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 107650   | 46.423  | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 681471   | 48.598  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 215201   | 54.173  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011023\  
Data File : VN076194.D  
Acq On : 10 Jan 2023 20:00  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 01/11/2023  
Supervised By :Semsettin Yesilyurt 01/11/2023

Quant Time: Jan 11 07:30:32 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 14 13:03:41 2022  
Response via : Initial Calibration

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

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

