

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110624\  
 Data File : VN084702.D  
 Acq On : 06 Nov 2024 11:11  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 07 00:14:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2024  
 Supervised By :Mahesh Dadoda 11/07/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 191071   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 316478   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 275366   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 145388   | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.571  | 65    | 117025   | 42.405   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 74 - 125 | Recovery | =    | 84.800% |
| 35) Dibromofluoromethane  | 8.159  | 113   | 95920    | 44.777   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | =    | 89.560% |
| 50) Toluene-d8            | 10.565 | 98    | 353079   | 44.744   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 86 - 113 | Recovery | =    | 89.480% |
| 62) 4-Bromofluorobenzene  | 12.847 | 95    | 134887   | 45.738   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 77 - 121 | Recovery | =    | 91.480% |

#### Target Compounds

|                              |       |     |         |         |      | Qvalue |
|------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 2.124 | 85  | 98186   | 44.701  | ug/l | 95     |
| 3) Chloromethane             | 2.359 | 50  | 108550  | 41.698  | ug/l | 98     |
| 4) Vinyl Chloride            | 2.512 | 62  | 106203  | 44.954  | ug/l | 100    |
| 5) Bromomethane              | 2.901 | 94  | 54394   | 43.456  | ug/l | 98     |
| 6) Chloroethane              | 3.077 | 64  | 66999   | 45.694  | ug/l | 96     |
| 7) Trichlorofluoromethane    | 3.471 | 101 | 177624  | 45.642  | ug/l | 95     |
| 8) Diethyl Ether             | 3.953 | 74  | 63157   | 46.005  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluo... | 4.359 | 101 | 103359  | 47.003  | ug/l | 98     |
| 10) Methyl Iodide            | 4.577 | 142 | 137266  | 46.706  | ug/l | 100    |
| 11) Tert butyl alcohol       | 5.530 | 59  | 82860   | 227.466 | ug/l | 100    |
| 12) 1,1-Dichloroethene       | 4.324 | 96  | 99295   | 45.634  | ug/l | 97     |
| 13) Acrolein                 | 4.171 | 56  | 109433  | 301.266 | ug/l | 96     |
| 14) Allyl chloride           | 5.012 | 41  | 164249  | 46.546  | ug/l | 92     |
| 15) Acrylonitrile            | 5.712 | 53  | 240703  | 228.250 | ug/l | 97     |
| 16) Acetone                  | 4.424 | 43  | 203058  | 254.776 | ug/l | 95     |
| 17) Carbon Disulfide         | 4.700 | 76  | 266749  | 39.808  | ug/l | 99     |
| 18) Methyl Acetate           | 5.018 | 43  | 123186  | 41.635  | ug/l | 98     |
| 19) Methyl tert-butyl Ether  | 5.789 | 73  | 322955  | 48.424  | ug/l | 99     |
| 20) Methylene Chloride       | 5.265 | 84  | 110178  | 45.393  | ug/l | 90     |
| 21) trans-1,2-Dichloroethene | 5.777 | 96  | 99955   | 44.737  | ug/l | 98     |
| 22) Diisopropyl ether        | 6.665 | 45  | 336299  | 47.963  | ug/l | 98     |
| 23) Vinyl Acetate            | 6.594 | 43  | 1164228 | 240.775 | ug/l | 98     |
| 24) 1,1-Dichloroethane       | 6.559 | 63  | 195531  | 46.448  | ug/l | 98     |
| 25) 2-Butanone               | 7.477 | 43  | 293489  | 227.954 | ug/l | 99     |
| 26) 2,2-Dichloropropane      | 7.483 | 77  | 180916  | 49.377  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene   | 7.483 | 96  | 122226  | 46.850  | ug/l | 97     |
| 28) Bromochloromethane       | 7.806 | 49  | 86221   | 51.409  | ug/l | 92     |
| 29) Tetrahydrofuran          | 7.835 | 42  | 193566  | 226.620 | ug/l | 96     |
| 30) Chloroform               | 7.965 | 83  | 203309  | 47.450  | ug/l | 99     |
| 31) Cyclohexane              | 8.253 | 56  | 167052  | 43.845  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane    | 8.165 | 97  | 182724  | 46.855  | ug/l | 96     |
| 36) 1,1-Dichloropropene      | 8.365 | 75  | 138580  | 46.645  | ug/l | 98     |
| 37) Ethyl Acetate            | 7.553 | 43  | 122863  | 45.581  | ug/l | 99     |
| 38) Carbon Tetrachloride     | 8.359 | 117 | 160475  | 48.325  | ug/l | 96     |
| 39) Methylcyclohexane        | 9.600 | 83  | 157981  | 52.270  | ug/l | 99     |
| 40) Benzene                  | 8.600 | 78  | 443671  | 46.501  | ug/l | 98     |

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 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 07 00:14:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2024  
 Supervised By : Mahesh Dadoda 11/07/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 68727    | 47.413  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 145342   | 47.037  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.682  | 43   | 222782   | 44.634  | ug/l   | 98       |
| 44) Trichloroethene           | 9.347  | 130  | 102087   | 46.395  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 107205   | 47.899  | ug/l   | 98       |
| 46) Dibromomethane            | 9.706  | 93   | 72925    | 46.175  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.882  | 83   | 157956   | 47.447  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 101528   | 48.396  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 34946    | 940.040 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 613328   | 238.684 | ug/l   | 97       |
| 52) Toluene                   | 10.629 | 92   | 273122   | 48.946  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 162767   | 47.234  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 175729   | 48.182  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 100740   | 47.927  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 161447   | 53.101  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 172508   | 47.820  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 386409   | 271.604 | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 465927   | 249.107 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.359 | 129  | 123197   | 51.427  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 99969    | 46.444  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.100 | 164  | 88483    | 48.308  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.888 | 112  | 292343   | 47.455  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 107520   | 50.177  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.959 | 91   | 522483   | 50.810  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 397572   | 102.123 | ug/l   | 100      |
| 69) o-Xylene                  | 12.394 | 106  | 193404   | 53.106  | ug/l   | 100      |
| 70) Styrene                   | 12.412 | 104  | 328162   | 51.655  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 81992    | 50.851  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.694 | 105  | 493937   | 48.480  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 199640   | 46.038  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 144653   | 42.535  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 139007m  | 47.831  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 121945   | 44.522  | ug/l   | 92       |
| 78) n-propylbenzene           | 13.035 | 91   | 575458   | 48.199  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 359083   | 46.030  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 425064   | 50.337  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 54595m   | 44.567  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 370425   | 45.119  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 367104   | 52.528  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 433552   | 49.745  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 494029   | 50.043  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 421377   | 52.046  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 230134   | 43.054  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 230181   | 46.868  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 361313   | 47.708  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.329 | 117  | 80578    | 44.628  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 226489   | 44.094  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 27706    | 40.215  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 119088   | 42.358  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 53543    | 43.368  | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 366519   | 43.555  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 117406   | 43.019  | ug/l   | 98       |

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Acq On : 06 Nov 2024 11:11  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2024  
Supervised By :Mahesh Dadoda 11/07/2024

Quant Time: Nov 07 00:14:12 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 31 18:45:38 2024  
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

