

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013023\  
 Data File : VN076447.D  
 Acq On : 30 Jan 2023 10:57  
 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 01/31/2023  
 Supervised By : Semsettin Yesilyurt 01/31/2023

Quant Time: Jan 31 00:33:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 385523              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 618371              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 561302              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 333610              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 230801              | 53.468  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 106.940% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 197092              | 50.952  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 101.900% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 722512              | 50.576  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 101.160% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 262650              | 56.319  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 112.640% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 178532              | 45.190  | ug/l   | 98       |
| 3) Chloromethane             | 2.377          | 50   | 219544              | 53.673  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.530          | 62   | 289434              | 57.707  | ug/l   | 98       |
| 5) Bromomethane              | 2.953          | 94   | 198720              | 48.381  | ug/l   | 98       |
| 6) Chloroethane              | 3.124          | 64   | 192506              | 51.185  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 394579              | 57.183  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.977          | 74   | 132808              | 57.382  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 211856              | 54.235  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.600          | 142  | 301118              | 50.466  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 136109              | 235.736 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 187596              | 50.803  | ug/l   | 83       |
| 13) Acrolein                 | 4.194          | 56   | 200672              | 290.622 | ug/l   | 100      |
| 14) Allyl chloride           | 5.036          | 41   | 219734              | 51.063  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.730          | 53   | 397313              | 241.816 | ug/l   | 99       |
| 16) Acetone                  | 4.442          | 43   | 464438              | 335.654 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.724          | 76   | 419293              | 45.603  | ug/l   | 97       |
| 18) Methyl Acetate           | 5.042          | 43   | 227354              | 48.480  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 618037              | 51.412  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.289          | 84   | 199213              | 48.635  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 187475              | 46.865  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.683          | 45   | 559744              | 55.158  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.612          | 43   | 1776278             | 270.834 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 347004              | 51.299  | ug/l   | 99       |
| 25) 2-Butanone               | 7.488          | 43   | 540134              | 255.569 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 312466              | 54.807  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 233310              | 50.005  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.818          | 49   | 148205              | 54.055  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 326783              | 250.525 | ug/l   | 97       |
| 30) Chloroform               | 7.971          | 83   | 396974              | 53.037  | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 287737              | 43.392  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 363682              | 53.220  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 275484              | 50.119  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.565          | 43   | 209853              | 47.601  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 320298              | 52.255  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.606          | 83   | 342857              | 51.079  | ug/l   | 97       |
| 40) Benzene                  | 8.612          | 78   | 826718              | 50.300  | ug/l   | 100      |

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 Acq On : 30 Jan 2023 10:57  
 Operator : JC\MD  
 Sample : VSTDC0050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC0050

Quant Time: Jan 31 00:33:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 01/31/2023  
 Supervised By :Semsettin Yesilyurt 01/31/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 120402   | 52.158  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 296530   | 52.731  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 370124   | 51.606  | ug/l   | 99       |
| 44) Trichloroethene           | 9.359  | 130  | 220750   | 47.488  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 202041   | 51.344  | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 147828   | 49.757  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.888  | 83   | 312397   | 54.214  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 181255   | 53.382  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 68602    | 957.521 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1103618  | 262.121 | ug/l   | 99       |
| 52) Toluene                   | 10.629 | 92   | 546909   | 49.759  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 315337   | 57.406  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 343389   | 54.337  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 215652   | 51.331  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 307454   | 56.686  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 355601   | 52.085  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 462609   | 252.648 | ug/l   | 98       |
| 59) 2-Hexanone                | 11.200 | 43   | 821908   | 269.385 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 247992   | 56.075  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 215145   | 51.305  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 225585   | 44.565  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.894 | 112  | 590025   | 49.727  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 229194   | 51.917  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.965 | 91   | 1081074  | 53.236  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.070 | 106  | 856360   | 105.167 | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 413310   | 51.686  | ug/l   | 95       |
| 70) Styrene                   | 12.412 | 104  | 692357   | 54.225  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 171431   | 53.772  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1108602  | 42.955  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 325735   | 43.878  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 294659   | 39.716  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 275939m  | 45.314  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 255287   | 42.222  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 1288324  | 44.241  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 760659   | 42.568  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 954844   | 44.163  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 88367    | 44.072  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 760659   | 42.568  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 871320   | 45.311  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1041382  | 48.034  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 1356549  | 50.839  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 1245667  | 56.771  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 604652   | 49.708  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 581351   | 50.240  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 1004814  | 57.688  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 184487   | 48.716  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 565262   | 46.656  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 55661    | 43.160  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 246547   | 42.320  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 130188   | 40.493  | ug/l   | 97       |
| 95) Naphthalene               | 15.641 | 128  | 686034   | 39.962  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 233129   | 41.968  | ug/l   | 99       |

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

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 01/31/2023  
Supervised By :Semsettin Yesilyurt 01/31/2023

Quant Time: Jan 31 00:33:54 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 17 03:59:22 2023  
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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## Manual Integrations

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