

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062822\  
 Data File : VN073201.D  
 Acq On : 28 Jun 2022 13:46  
 Operator : JC\MD  
 Sample : VSTDICC040  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC040

Quant Time: Jun 28 14:23:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 12:50:38 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2022  
 Supervised By :Semsettin Yesilyurt 06/30/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 267840     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 462263     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680         | 117  | 418346     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.610         | 152  | 201159     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 147047     | 36.859   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 73.720%# |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 115832     | 37.293   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 74.580%# |        |          |
| 50) Toluene-d8               | 10.375         | 98   | 408483     | 36.882   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 73.760%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.669         | 95   | 166061     | 38.152   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 76.300%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 161283     | 40.794   | ug/l   | 93       |
| 3) Chloromethane             | 2.269          | 50   | 143475     | 37.113   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.405          | 62   | 126634     | 38.206   | ug/l   | 99       |
| 5) Bromomethane              | 2.793          | 94   | 59011      | 47.327   | ug/l   | 97       |
| 6) Chloroethane              | 2.957          | 64   | 71549      | 36.953   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.316          | 101  | 220436     | 38.623   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.763          | 74   | 88764      | 38.314   | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.140          | 101  | 125715     | 37.791   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.351          | 142  | 135622     | 36.327   | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.293          | 59   | 188337     | 37.990   | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.110          | 96   | 125722     | 39.155   | ug/l   | 97       |
| 13) Acrolein                 | 3.981          | 56   | 119209     | 38.016   | ug/l   | 99       |
| 14) Allyl chloride           | 4.763          | 41   | 257194     | 37.643   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.475          | 53   | 482170     | 38.476   | ug/l   | 99       |
| 16) Acetone                  | 4.222          | 43   | 422249     | 37.558   | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.451          | 76   | 327451     | 38.803   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.775          | 43   | 233846     | 37.424   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.528          | 73   | 461728     | 39.270   | ug/l   | 99       |
| 20) Methylene Chloride       | 5.016          | 84   | 143597     | 37.030   | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.510          | 96   | 130213     | 38.981   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.410          | 45   | 502563     | 39.490   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.351          | 43   | 2268831    | 39.663   | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.304          | 63   | 258188     | 39.477   | ug/l   | 99       |
| 25) 2-Butanone               | 7.257          | 43   | 690381     | 38.400   | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 227672     | 38.034   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.245          | 96   | 154989     | 38.260   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.581          | 49   | 113918     | 40.603   | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 463954     | 37.825   | ug/l   | 89       |
| 30) Chloroform               | 7.739          | 83   | 254340     | 38.459   | ug/l   | 97       |
| 31) Cyclohexane              | 8.022          | 56   | 234452     | 37.019   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 234125     | 39.694   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.145          | 75   | 188949     | 39.640   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.334          | 43   | 276063     | 38.052   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.134          | 117  | 197111     | 39.627   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.392          | 83   | 235307     | 39.822   | ug/l   | 96       |
| 40) Benzene                  | 8.387          | 78   | 578905     | 39.312   | ug/l   | 99       |

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 Sample : VSTDICC040  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC040

Quant Time: Jun 28 14:23:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 12:50:38 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2022  
 Supervised By :Semsettin Yesilyurt 06/30/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 124714   | 36.213 | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 207836   | 38.892 | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 412977   | 39.279 | ug/l   | 94       |
| 44) Trichloroethene           | 9.145  | 130  | 146356   | 38.957 | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.428  | 63   | 145803   | 38.916 | ug/l   | 99       |
| 46) Dibromomethane            | 9.510  | 93   | 100069   | 39.292 | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.698  | 83   | 202879   | 40.625 | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.492  | 41   | 190173   | 38.872 | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 72718    | 39.285 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 1327515  | 39.809 | ug/l   | 91       |
| 52) Toluene                   | 10.439 | 92   | 366841   | 40.465 | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 223350   | 40.446 | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 237450   | 40.073 | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.833 | 97   | 143574   | 38.245 | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 249468   | 40.326 | ug/l # | 86       |
| 57) 1,3-Dichloropropane       | 10.980 | 76   | 249975   | 38.823 | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.975  | 63   | 587859   | 42.143 | ug/l   | 96       |
| 59) 2-Hexanone                | 11.022 | 43   | 1021002  | 40.029 | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.175 | 129  | 150974   | 41.285 | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.280 | 107  | 152736   | 40.267 | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.910 | 164  | 133231   | 39.580 | ug/l   | 97       |
| 65) Chlorobenzene             | 11.710 | 112  | 366096   | 38.740 | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 139906   | 40.175 | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.780 | 91   | 689106   | 40.116 | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.892 | 106  | 525225   | 40.462 | ug/l   | 97       |
| 69) o-Xylene                  | 12.216 | 106  | 262311   | 39.573 | ug/l   | 97       |
| 70) Styrene                   | 12.233 | 104  | 421049   | 40.670 | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 109412   | 41.471 | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.516 | 105  | 675920   | 39.075 | ug/l   | 100      |
| 74) N-amyl acetate            | 12.327 | 43   | 343142   | 38.860 | ug/l   | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.763 | 83   | 219582   | 37.982 | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.822 | 75   | 188479m  | 35.692 | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 156325   | 38.887 | ug/l   | 88       |
| 78) n-propylbenzene           | 12.857 | 91   | 780405   | 40.283 | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 472624   | 38.670 | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 566376   | 40.156 | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 79432    | 39.615 | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.039 | 91   | 459155   | 38.902 | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.257 | 119  | 496804   | 39.346 | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 556530   | 39.715 | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 683112   | 40.026 | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.551 | 119  | 560884   | 40.672 | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.551 | 146  | 277075   | 38.532 | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.627 | 146  | 277754   | 38.488 | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.880 | 91   | 463966   | 39.757 | ug/l   | 99       |
| 90) Hexachloroethane          | 14.145 | 117  | 105087   | 40.239 | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.921 | 146  | 287625   | 38.990 | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.539 | 75   | 57297    | 39.267 | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 155391   | 39.809 | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.298 | 225  | 64868    | 37.844 | ug/l   | 96       |
| 95) Naphthalene               | 15.433 | 128  | 611523   | 38.702 | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.621 | 180  | 157574   | 39.119 | ug/l   | 98       |

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Sample : VSTDICC040  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC040

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/30/2022  
Supervised By :Semsettin Yesilyurt 06/30/2022

Quant Time: Jun 28 14:23:57 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 28 12:50:38 2022  
Response via : Initial Calibration

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

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

