

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082622\  
 Data File : VN074131.D  
 Acq On : 26 Aug 2022 12:08  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 27 00:19:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 06:44:47 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 08/27/2022  
 Supervised By :Semsettin Yesilyurt 08/27/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 512107              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 766385              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.686         | 117  | 705904              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.610         | 152  | 366130              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 292623              | 58.667  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 117.340% |         |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 263191              | 58.070  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 116.140% |         |        |          |
| 50) Toluene-d8               | 10.380         | 98   | 953140              | 54.300  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 108.600% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.669         | 95   | 348418              | 59.808  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 119.620% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 224637              | 55.321  | ug/l   | 99       |
| 3) Chloromethane             | 2.269          | 50   | 177099              | 39.220  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.404          | 62   | 261880              | 45.176  | ug/l   | 95       |
| 5) Bromomethane              | 2.781          | 94   | 156764              | 43.306  | ug/l   | 100      |
| 6) Chloroethane              | 2.951          | 64   | 177733              | 43.400  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.304          | 101  | 394523              | 52.759  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.763          | 74   | 151249              | 54.487  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.134          | 101  | 223529              | 51.457  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.346          | 142  | 203737              | 39.066  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.293          | 59   | 307523              | 275.628 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.110          | 96   | 205190              | 50.768  | ug/l   | 94       |
| 13) Acrolein                 | 3.975          | 56   | 139399              | 178.498 | ug/l   | 100      |
| 14) Allyl chloride           | 4.757          | 41   | 335576              | 56.062  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.469          | 53   | 842505              | 309.298 | ug/l   | 99       |
| 16) Acetone                  | 4.222          | 43   | 651667              | 276.925 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.451          | 76   | 503547              | 52.397  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.769          | 43   | 363762              | 62.485  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.528          | 73   | 783913              | 53.853  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.010          | 84   | 253885              | 51.128  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.510          | 96   | 226044              | 50.764  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.410          | 45   | 736292              | 58.015  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.345          | 43   | 3252653             | 299.067 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.298          | 63   | 433923              | 54.928  | ug/l   | 99       |
| 25) 2-Butanone               | 7.257          | 43   | 1111667             | 297.931 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 340804              | 45.918  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.251          | 96   | 282484              | 51.418  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.581          | 49   | 170962              | 58.676  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 710815              | 296.972 | ug/l   | 98       |
| 30) Chloroform               | 7.745          | 83   | 463785              | 52.502  | ug/l   | 99       |
| 31) Cyclohexane              | 8.022          | 56   | 367096              | 52.794  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 390222              | 49.813  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.145          | 75   | 322283              | 51.195  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.334          | 43   | 405382              | 53.154  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.133          | 117  | 339761              | 47.218  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.392          | 83   | 414506              | 52.549  | ug/l   | 96       |
| 40) Benzene                  | 8.386          | 78   | 1030003             | 51.840  | ug/l   | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 27 00:19:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 06:44:47 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 08/27/2022  
 Supervised By :Semsettin Yesilyurt 08/27/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 190555   | 55.288   | ug/l  | 95       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 350016   | 51.234   | ug/l  | 98       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 590640   | 54.363   | ug/l  | 97       |
| 44) Trichloroethene           | 9.145  | 130  | 273207   | 47.608   | ug/l  | 98       |
| 45) 1,2-Dichloropropane       | 9.428  | 63   | 260351   | 54.669   | ug/l  | 100      |
| 46) Dibromomethane            | 9.510  | 93   | 186557   | 51.525   | ug/l  | 96       |
| 47) Bromodichloromethane      | 9.698  | 83   | 364313   | 52.644   | ug/l  | 99       |
| 48) Methyl methacrylate       | 9.498  | 41   | 263298   | 56.637   | ug/l  | 91       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 157623   | 1140.147 | ug/l  | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 2114447  | 287.849  | ug/l  | 99       |
| 52) Toluene                   | 10.439 | 92   | 663687   | 48.714   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 384354   | 52.928   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 422468   | 53.171   | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 279971   | 52.827   | ug/l  | 99       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 448418   | 59.323   | ug/l  | 92       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 466889   | 54.182   | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.980  | 63   | 900109   | 254.667  | ug/l  | 100      |
| 59) 2-Hexanone                | 11.027 | 43   | 1650268  | 291.913  | ug/l  | 98       |
| 60) Dibromochloromethane      | 11.180 | 129  | 305362   | 52.102   | ug/l  | 100      |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 293248   | 51.733   | ug/l  | 98       |
| 64) Tetrachloroethene         | 10.916 | 164  | 246002   | 44.153   | ug/l  | 98       |
| 65) Chlorobenzene             | 11.710 | 112  | 737651   | 49.169   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 277630   | 48.870   | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.786 | 91   | 1281512  | 51.365   | ug/l  | 99       |
| 68) m/p-Xylenes               | 11.892 | 106  | 1009135  | 99.548   | ug/l  | 100      |
| 69) o-Xylene                  | 12.221 | 106  | 504631   | 49.641   | ug/l  | 98       |
| 70) Styrene                   | 12.233 | 104  | 832554   | 52.312   | ug/l  | 99       |
| 71) Bromoform                 | 12.398 | 173  | 251422   | 49.570   | ug/l  | 100      |
| 73) Isopropylbenzene          | 12.521 | 105  | 1305423  | 48.965   | ug/l  | 100      |
| 74) N-amyl acetate            | 12.327 | 43   | 496695   | 49.282   | ug/l  | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.769 | 83   | 456803   | 51.059   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane    | 12.821 | 75   | 375288m  | 49.315   | ug/l  |          |
| 77) Bromobenzene              | 12.798 | 156  | 331745   | 45.971   | ug/l  | 97       |
| 78) n-propylbenzene           | 12.857 | 91   | 1496721  | 52.667   | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 886995   | 50.085   | ug/l  | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 1097186  | 50.596   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 142575   | 53.287   | ug/l  | 96       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 868780   | 51.650   | ug/l  | 97       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 981045   | 49.163   | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 1099694  | 50.782   | ug/l  | 99       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 1361259  | 52.626   | ug/l  | 99       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 1181028  | 53.595   | ug/l  | 98       |
| 87) 1,3-Dichlorobenzene       | 13.551 | 146  | 604659   | 48.316   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 603096   | 47.552   | ug/l  | 99       |
| 89) n-Butylbenzene            | 13.880 | 91   | 929066   | 53.229   | ug/l  | 100      |
| 90) Hexachloroethane          | 14.151 | 117  | 198431   | 49.263   | ug/l  | 94       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 612489   | 47.394   | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.539 | 75   | 103062   | 48.789   | ug/l  | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 379875   | 48.297   | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.298 | 225  | 194607   | 46.937   | ug/l  | 99       |
| 95) Naphthalene               | 15.433 | 128  | 1272979  | 49.643   | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 397092   | 48.844   | 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 :Krupa Patel 08/27/2022  
Supervised By :Semsettin Yesilyurt 08/27/2022

Quant Time: Aug 27 00:19:08 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 26 06:44:47 2022  
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

