

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081823\  
 Data File : VX037070.D  
 Acq On : 18 Aug 2023 09:26  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 19 05:04:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/21/2023  
 Supervised By :Mahesh Dadoda 08/21/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 179864              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 299377              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 269359              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 134144              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 126429              | 48.757  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 97.520%  |         |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 103949              | 52.428  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.860% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 379808              | 52.810  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 105.620% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 144847              | 51.249  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 102.500% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 116811              | 55.908  | ug/l   | 100      |
| 3) Chloromethane             | 1.295          | 50   | 90684               | 49.612  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 102874              | 51.705  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 47677               | 48.107  | ug/l   | 99       |
| 6) Chloroethane              | 1.679          | 64   | 63470               | 54.210  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 179109              | 54.956  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.130          | 74   | 62472               | 49.544  | ug/l   | 75       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 101377              | 53.319  | ug/l   | 97       |
| 10) Methyl Iodide            | 2.447          | 142  | 116712              | 50.506  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 129169              | 212.354 | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 94871               | 51.240  | ug/l   | 86       |
| 13) Acrolein                 | 2.233          | 56   | 103781              | 224.275 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 148105              | 51.680  | ug/l # | 93       |
| 15) Acrylonitrile            | 3.063          | 53   | 253571              | 233.558 | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 269505              | 265.671 | ug/l   | 91       |
| 17) Carbon Disulfide         | 2.508          | 76   | 242626              | 51.517  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 176568              | 46.228  | ug/l # | 88       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 344902              | 49.117  | ug/l   | 97       |
| 20) Methylene Chloride       | 2.788          | 84   | 102495              | 45.180  | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 105827              | 50.280  | ug/l   | 88       |
| 22) Diisopropyl ether        | 3.758          | 45   | 293062              | 49.834  | ug/l # | 86       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1136386             | 252.166 | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 184506              | 50.032  | ug/l   | 97       |
| 25) 2-Butanone               | 4.550          | 43   | 367522              | 240.615 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 181528              | 55.118  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 122768              | 49.477  | ug/l   | 91       |
| 28) Bromochloromethane       | 4.891          | 49   | 84090               | 51.044  | ug/l # | 77       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 221145              | 227.028 | ug/l # | 84       |
| 30) Chloroform               | 5.087          | 83   | 203621              | 49.187  | ug/l   | 99       |
| 31) Cyclohexane              | 5.465          | 56   | 153554              | 52.665  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 190991              | 51.484  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 148772              | 52.814  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.709          | 43   | 138759              | 48.223  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 169224              | 55.304  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.379          | 83   | 167888              | 56.728  | ug/l   | 90       |
| 40) Benzene                  | 6.032          | 78   | 420456              | 52.044  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/21/2023  
 Supervised By :Mahesh Dadoda 08/21/2023

Quant Time: Aug 19 05:04:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 74456    | 49.775  | ug/l # | 89       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 162055   | 51.151  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 232579   | 50.911  | ug/l # | 92       |
| 44) Trichloroethene           | 7.123  | 130  | 119426   | 52.133  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 104126   | 52.272  | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 80579    | 51.349  | ug/l   | 94       |
| 47) Bromodichloromethane      | 7.818  | 83   | 161975   | 53.889  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.690  | 41   | 113251   | 50.834  | ug/l # | 88       |
| 49) 1,4-Dioxane               | 7.653  | 88   | 53978    | 899.625 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 673139   | 242.659 | ug/l   | 91       |
| 52) Toluene                   | 8.714  | 92   | 278167   | 52.112  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 180157   | 56.292  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 188361   | 54.464  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 112013   | 51.535  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 174427   | 51.234  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 186694   | 50.952  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 430930   | 263.756 | ug/l   | 92       |
| 59) 2-Hexanone                | 9.427  | 43   | 520428   | 246.052 | ug/l   | 89       |
| 60) Dibromochloromethane      | 9.519  | 129  | 126733   | 54.764  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 122158   | 51.332  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 102306   | 52.064  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.080 | 112  | 296021   | 51.998  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 114686   | 54.582  | ug/l   | 100      |
| 67) Ethyl Benzene             | 10.189 | 91   | 537719   | 53.678  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 412650   | 106.669 | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 201993   | 52.923  | ug/l   | 99       |
| 70) Styrene                   | 10.653 | 104  | 334685   | 53.234  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 88961    | 56.602  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.964 | 105  | 524494   | 53.793  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.842 | 43   | 194261   | 51.275  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 161068   | 49.052  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 140532m  | 49.192  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 125440   | 52.678  | ug/l   | 93       |
| 78) n-propylbenzene           | 11.305 | 91   | 593501   | 54.665  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 361265   | 52.070  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 438764   | 53.946  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 56197    | 54.942  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 425067   | 53.074  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 419884   | 54.131  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 440322   | 53.567  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 502526   | 55.465  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 432698   | 55.477  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 231164   | 51.851  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 232384   | 50.451  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 369645   | 57.164  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 75694    | 58.145  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 225349   | 51.619  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 38966    | 51.071  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 135176   | 52.919  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 56703    | 57.460  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 488860   | 43.690  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 134963   | 53.180  | ug/l   | 99       |

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

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/21/2023  
Supervised By :Mahesh Dadoda 08/21/2023

Quant Time: Aug 19 05:04:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
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

