

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092420\  
 Data File : VU040268.D  
 Acq On : 24 Sep 2020 13:04  
 Operator : SY/MD  
 Sample : L4485-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 MDL-WATER-01

Quant Time: Sep 25 09:41:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM092420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 09:34:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 411042   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 394882   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 191655   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60    | 65    | 161826   | 47.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.68%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 122129   | 47.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.30%  |
| 11) 1,1-Dichloroethene-d2      | 2.58    | 63    | 243100   | 36.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.18%  |
| 21) 2-Butanone-d5              | 4.64    | 46    | 320583   | 110.70   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.70% |
| 24) Chloroform-d               | 5.08    | 84    | 282001   | 46.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.82%  |
| 26) 1,2-Dichloroethane-d4      | 5.72    | 65    | 205114   | 47.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.52%  |
| 32) Benzene-d6                 | 5.74    | 84    | 556717   | 49.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.58%  |
| 36) 1,2-Dichloropropane-d6     | 6.70    | 67    | 187380   | 49.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.00%  |
| 41) Toluene-d8                 | 7.91    | 98    | 487328   | 48.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.64%  |
| 43) trans-1,3-Dichloropropene- | 8.19    | 79    | 92742    | 48.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.36%  |
| 47) 2-Hexanone-d5              | 8.64    | 63    | 191413   | 114.12   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 114.12% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.75   | 84    | 263360   | 49.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.30%  |
| 66) 1,2-Dichlorobenzene-d4     | 12.19   | 152   | 191293   | 51.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.76% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 6214     | 2.123 | ug/L   | 93     |
| 3) Chloromethane               | 1.53 | 50   | 7207     | 2.034 | ug/L   | 94     |
| 5) Vinyl chloride              | 1.61 | 62   | 7848     | 2.219 | ug/L # | 59     |
| 6) Bromomethane                | 1.86 | 94   | 3860     | 2.113 | ug/L   | 100    |
| 8) Chloroethane                | 1.94 | 64   | 4972     | 2.189 | ug/L   | 94     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 9990     | 2.037 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 8371     | 2.682 | ug/L # | 75     |
| 12) 1,1-Dichloroethene         | 2.59 | 96   | 7608     | 2.610 | ug/L # | 1      |
| 13) Acetone                    | 2.64 | 43   | 13891    | 4.514 | ug/L   | 96     |
| 14) Carbon disulfide           | 2.81 | 76   | 20845    | 2.247 | ug/L   | 99     |
| 15) Methyl Acetate             | 2.96 | 43   | 10314    | 2.236 | ug/L   | 94     |
| 16) Methylene chloride         | 3.06 | 84   | 7495     | 2.170 | ug/L   | 96     |
| 17) trans-1,2-Dichloroethene   | 3.37 | 96   | 6231     | 2.066 | ug/L   | 97     |
| 18) Methyl tert-butyl Ether    | 3.38 | 73   | 20044    | 2.020 | ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.89 | 63   | 12807    | 2.026 | ug/L # | 85     |
| 20) cis-1,2-Dichloroethene     | 4.69 | 96   | 7173     | 2.174 | ug/L   | 97     |
| 22) 2-Butanone                 | 4.73 | 43   | 16284    | 4.460 | ug/L   | 100    |

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 Sample : L4485-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-01

Quant Time: Sep 25 09:41:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM092420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 09:34:00 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 4.99  | 128  | 3322     | 1.920 | ug/L   | 87       |
| 25) Chloroform                 | 5.11  | 83   | 19780    | 3.097 | ug/L   | 92       |
| 27) 1,2-Dichloroethane         | 5.81  | 62   | 12193    | 2.257 | ug/L   | 100      |
| 29) Cyclohexane                | 5.41  | 56   | 10833    | 1.985 | ug/L   | 93       |
| 30) 1,1,1-Trichloroethane      | 5.34  | 97   | 11731    | 2.267 | ug/L   | 96       |
| 31) Carbon tetrachloride       | 5.54  | 117  | 9359     | 2.092 | ug/L   | 98       |
| 33) Benzene                    | 5.79  | 78   | 27147    | 2.081 | ug/L   | 100      |
| 34) Trichloroethene            | 6.55  | 95   | 7187     | 2.151 | ug/L   | 95       |
| 35) Methylcyclohexane          | 6.77  | 83   | 9901     | 1.928 | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.80  | 63   | 7712     | 2.102 | ug/L # | 92       |
| 38) Bromodichloromethane       | 7.12  | 83   | 10116    | 2.173 | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene    | 7.62  | 75   | 10817    | 2.045 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 7.80  | 43   | 25127    | 4.217 | ug/L   | 96       |
| 42) Toluene                    | 7.98  | 91   | 28135    | 2.133 | ug/L   | 91       |
| 44) trans-1,3-Dichloropropene  | 8.22  | 75   | 10631    | 1.988 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 8.40  | 97   | 6544     | 2.054 | ug/L   | 95       |
| 46) Tetrachloroethene          | 8.56  | 164  | 5404     | 2.309 | ug/L   | 78       |
| 48) 2-Hexanone                 | 8.69  | 43   | 25469    | 5.337 | ug/L   | 97       |
| 49) Dibromochloromethane       | 8.81  | 129  | 6860     | 1.964 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 7185     | 2.101 | ug/L # | 97       |
| 51) Chlorobenzene              | 9.45  | 112  | 18286    | 2.102 | ug/L   | 97       |
| 52) Ethylbenzene               | 9.57  | 91   | 28528    | 1.942 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.69  | 106  | 9570     | 1.792 | ug/L   | 86       |
| 54) o-xylene                   | 10.10 | 106  | 9354     | 1.793 | ug/L   | 92       |
| 55) Styrene                    | 10.11 | 104  | 14407    | 1.614 | ug/L   | 91       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 11675    | 2.083 | ug/L # | 90       |
| 59) Bromoform                  | 10.29 | 173  | 4894     | 2.091 | ug/L # | 90       |
| 60) 1,2,3-Trichloropropane     | 10.82 | 75   | 10452    | 2.304 | ug/L # | 85       |
| 61) Isopropylbenzene           | 10.48 | 105  | 24308    | 1.831 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 18126    | 1.671 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 17824    | 1.622 | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene        | 11.74 | 146  | 12970    | 2.065 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene        | 11.83 | 146  | 14003    | 2.146 | ug/L   | 93       |
| 67) 1,2-Dichlorobenzene        | 12.20 | 146  | 14383    | 2.299 | ug/L   | 91       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 2972     | 2.324 | ug/L # | 86       |
| 69) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 8164     | 1.994 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene     | 13.83 | 180  | 6923     | 1.959 | ug/L   | 94       |
| 71) Naphthalene                | 14.08 | 128  | 17814    | 1.628 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 6727     | 1.930 | ug/L   | 95       |

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

