

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011821\  
 Data File : VU042091.D  
 Acq On : 18 Jan 2021 13:19  
 Operator : SY/MD  
 Sample : L5214-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT1-2021-02

Quant Time: Jan 19 01:02:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM011221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 19 01:00:57 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.260   | 114   | 286244   | 50.00    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 276547   | 50.00    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 135740   | 50.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 126445   | 40.28    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 80.56%   |
| 7) Chloroethane-d5            | 1.919   | 69    | 100992   | 40.48    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 80.96%   |
| 11) 1,1-Dichloroethene-d2     | 2.575   | 63    | 159777   | 31.35    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 62.70%   |
| 21) 2-Butanone-d5             | 4.642   | 46    | 167308   | 70.30    | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 70.30%   |
| 24) Chloroform-d              | 5.080   | 84    | 199148   | 41.54    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 83.08%   |
| 26) 1,2-Dichloroethane-d4     | 5.716   | 65    | 129561   | 42.98    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.96%   |
| 32) Benzene-d6                | 5.742   | 84    | 408432   | 42.26    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 84.52%   |
| 36) 1,2-Dichloropropane-d6    | 6.700   | 67    | 132058   | 42.79    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 85.58%   |
| 41) Toluene-d8                | 7.903   | 98    | 371414   | 45.19    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.38%   |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 66591    | 43.70    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 87.40%   |
| 47) 2-Hexanone-d5             | 8.639   | 63    | 132117   | 79.33    | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 79.33%   |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 195084   | 43.70    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 87.40%   |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 138628   | 49.06    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.12%   |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 6819     | 2.49     | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 7037     | 2.20     | ug/L   | 98       |
| 5) Vinyl chloride             | 1.607   | 62    | 7244     | 2.20     | ug/L # | 67       |
| 6) Bromomethane               | 1.861   | 94    | 4683     | 2.33     | ug/L   | 96       |
| 8) Chloroethane               | 1.938   | 64    | 4645     | 2.31     | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.144   | 101   | 9334     | 2.27     | ug/L   | 94       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588   | 101   | 6971     | 3.04     | ug/L # | 84       |
| 12) 1,1-Dichloroethene        | 2.588   | 96    | 6496     | 2.97     | ug/L # | 1        |
| 13) Acetone                   | 2.646   | 43    | 8190     | 4.07     | ug/L   | 94       |
| 14) Carbon disulfide          | 2.803   | 76    | 16390    | 2.32     | ug/L   | 96       |
| 15) Methyl Acetate            | 2.961   | 43    | 6171     | 1.95     | ug/L   | 100      |
| 16) Methylene chloride        | 3.057   | 84    | 6493     | 2.56     | ug/L   | 92       |
| 17) trans-1,2-Dichloroethene  | 3.366   | 96    | 5597     | 2.44     | ug/L   | 87       |
| 18) Methyl tert-butyl Ether   | 3.375   | 73    | 16124    | 2.17     | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.887   | 63    | 9678     | 2.13     | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.684   | 96    | 5492     | 2.22     | ug/L   | 85       |
| 22) 2-Butanone                | 4.726   | 43    | 9515     | 3.60     | ug/L   | 96       |
| 23) Bromochloromethane        | 4.989   | 128   | 2761     | 2.32     | ug/L   | 88       |
| 25) Chloroform                | 5.102   | 83    | 12148    | 2.69     | ug/L   | 92       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011821\  
 Data File : VU042091.D  
 Acq On : 18 Jan 2021 13:19  
 Operator : SY/MD  
 Sample : L5214-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT1-2021-02

Quant Time: Jan 19 01:02:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM011221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 19 01:00:57 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.806  | 62   | 8336     | 2.41 | ug/L # | 94       |
| 29) Cyclohexane               | 5.407  | 56   | 7430     | 1.79 | ug/L # | 86       |
| 30) 1,1,1-Trichloroethane     | 5.330  | 97   | 8379     | 2.03 | ug/L   | 92       |
| 31) Carbon tetrachloride      | 5.536  | 117  | 7406     | 2.16 | ug/L   | 99       |
| 33) Benzene                   | 5.787  | 78   | 22896    | 2.23 | ug/L   | 100      |
| 34) Trichloroethene           | 6.552  | 95   | 6183     | 2.45 | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.777  | 83   | 8666     | 2.34 | ug/L   | 89       |
| 37) 1,2-Dichloropropane       | 6.796  | 63   | 6009     | 2.23 | ug/L # | 94       |
| 38) Bromodichloromethane      | 7.115  | 83   | 7216     | 2.16 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 7.613  | 75   | 8778     | 2.22 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.800  | 43   | 15884    | 3.82 | ug/L   | 99       |
| 42) Toluene                   | 7.973  | 91   | 23111    | 2.37 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 9535     | 2.51 | ug/L   | 87       |
| 45) 1,1,2-Trichloroethane     | 8.407  | 97   | 5734     | 2.44 | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.555  | 164  | 4577     | 2.89 | ug/L   | 89       |
| 48) 2-Hexanone                | 8.690  | 43   | 16383    | 4.76 | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.812  | 129  | 6291     | 2.52 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 6140     | 2.49 | ug/L # | 100      |
| 51) Chlorobenzene             | 9.449  | 112  | 15109    | 2.52 | ug/L   | 93       |
| 52) Ethylbenzene              | 9.571  | 91   | 24262    | 2.33 | ug/L   | 95       |
| 53) m,p-Xylene                | 9.697  | 106  | 8871     | 2.35 | ug/L   | 81       |
| 54) o-xylene                  | 10.099 | 106  | 8161     | 2.24 | ug/L   | 98       |
| 55) Styrene                   | 10.115 | 104  | 13293    | 2.07 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 11331    | 2.61 | ug/L   | 95       |
| 59) Bromoform                 | 10.288 | 173  | 4468     | 2.53 | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 8184     | 2.31 | ug/L   | 99       |
| 61) Isopropylbenzene          | 10.481 | 105  | 20091    | 2.11 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 15813    | 1.96 | ug/L   | 94       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 15198    | 1.88 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 10908    | 2.51 | ug/L   | 87       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 12033    | 2.77 | ug/L   | 92       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 11609    | 2.61 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.989 | 75   | 2197     | 1.95 | ug/L # | 68       |
| 69) 1,3,5-Trichlorobenzene    | 13.211 | 180  | 7454     | 2.54 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.828 | 180  | 5083     | 2.24 | ug/L   | 98       |
| 71) Naphthalene               | 14.079 | 128  | 10240    | 1.31 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.317 | 180  | 4922     | 2.12 | ug/L   | 99       |

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

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011821\  
Data File : VU042091.D  
Acq On    : 18 Jan 2021  13:19  
Operator  : SY/MD  
Sample    : L5214-02  
Misc      : 5.0mL/MSVOA_U/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
MDL-WATER-OT1-2021-02

Quant Time: Jan 19 01:02:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM011221WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jan 19 01:00:57 2021  
Response via : Initial Calibration

