

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100319\  
 Data File : VU034913.D  
 Acq On : 03 Oct 2019 12:22  
 Operator : JC/SP  
 Sample : VSTD05035  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05035

Quant Time: Oct 04 05:11:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 04 05:07:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 422618   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 408426   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 198840   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 165120 | 50.80  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 126877 | 46.79  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 298468 | 51.60  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.15  | 46  | 255003 | 118.64 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.62  | 84  | 279602 | 51.23  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.29  | 65  | 185866 | 52.64  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.32  | 84  | 585844 | 55.99  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 188557 | 55.91  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.54  | 98  | 545828 | 55.53  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.83  | 79  | 89115  | 54.75  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.29  | 63  | 182519 | 118.42 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 268236 | 53.31  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.84 | 152 | 198508 | 53.89  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |         | Qvalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 181487 | 43.962  | ug/L 100 |
| 3) Chloromethane               | 1.32 | 50  | 205736 | 49.348  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 194321 | 41.753  | ug/L 100 |
| 6) Bromomethane                | 1.62 | 94  | 109966 | 37.931  | ug/L 100 |
| 8) Chloroethane                | 1.69 | 64  | 112901 | 40.587  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 226074 | 37.758  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 129047 | 45.625  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 126521 | 45.656  | ug/L 100 |
| 13) Acetone                    | 2.31 | 43  | 245944 | 95.533  | ug/L 100 |
| 14) Carbon disulfide           | 2.46 | 76  | 407670 | 47.253  | ug/L 100 |
| 15) Methyl Acetate             | 2.60 | 43  | 188499 | 54.814  | ug/L 100 |
| 16) Methylene chloride         | 2.68 | 84  | 155819 | 48.136  | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 139690 | 47.799  | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 470485 | 51.399  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 280935 | 49.561  | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 158121 | 47.988  | ug/L 100 |
| 22) 2-Butanone                 | 4.23 | 43  | 301418 | 104.394 | ug/L 100 |
| 23) Bromochloromethane         | 4.52 | 128 | 79394  | 47.215  | ug/L 100 |
| 25) Chloroform                 | 4.65 | 83  | 286147 | 47.765  | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.38 | 62  | 232290 | 49.872  | ug/L 100 |
| 29) Cyclohexane                | 4.97 | 56  | 255769 | 55.239  | ug/L 100 |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 230803 | 47.878  | ug/L 100 |
| 31) Carbon tetrachloride       | 5.11 | 117 | 200759 | 47.742  | ug/L 100 |
| 33) Benzene                    | 5.37 | 78  | 631390 | 51.727  | ug/L 100 |
| 34) Trichloroethene            | 6.16 | 95  | 156971 | 49.442  | ug/L 100 |
| 35) Methylcyclohexane          | 6.39 | 83  | 252503 | 51.685  | ug/L 100 |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 171949 | 51.794  | ug/L 100 |
| 38) Bromodichloromethane       | 6.73 | 83  | 207459 | 49.190  | ug/L 100 |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 265871 | 51.839  | ug/L 100 |
| 40) 4-Methyl-2-pentanone       | 7.44 | 43  | 533361 | 116.049 | ug/L 100 |

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 Sample : VSTD05035  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05035

Quant Time: Oct 04 05:11:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 04 05:07:15 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.61  | 91   | 671615   | 51.300  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 236480   | 51.873  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.04  | 97   | 152137   | 49.122  | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.21  | 164  | 122542   | 49.853  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.34  | 43   | 430168   | 115.455 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.45  | 129  | 166059   | 48.234  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.56  | 107  | 165668   | 49.143  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.10  | 112  | 418627   | 49.222  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.23  | 91   | 737659   | 52.477  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.35  | 106  | 275095   | 51.885  | ug/L  | 100      |
| 54) o-xylene                   | 9.76  | 106  | 271746   | 51.690  | ug/L  | 100      |
| 55) Styrene                    | 9.77  | 104  | 459792   | 51.782  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.14 | 105  | 709244   | 52.268  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.43 | 83   | 274853   | 50.264  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.47 | 75   | 219821   | 50.984  | ug/L  | 100      |
| 61) Bromoform                  | 9.94  | 173  | 122061   | 49.230  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.39 | 146  | 309877   | 49.601  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.48 | 146  | 306199   | 47.352  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.85 | 146  | 312744   | 49.050  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.63 | 75   | 56746    | 46.833  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 215340   | 48.292  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.48 | 180  | 166751   | 43.776  | ug/L  | 100      |
| 69) Naphthalene                | 13.72 | 128  | 511976   | 42.558  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 171545   | 41.606  | ug/L  | 100      |

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

