

Data File : VU036352.D  
Acq On : 27 Dec 2019 13:06  
Operator : JC/MD  
Sample : VSTD05034  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05034

Quant Time: Dec 27 13:45:00 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Dec 25 02:22:38 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 544339   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 521696   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 252620   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 203672 | 36.26  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 170664 | 35.35  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 342152 | 44.42  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.68  | 46  | 307391 | 111.29 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.11  | 84  | 361010 | 44.06  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.75  | 65  | 234453 | 44.60  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.77  | 84  | 704148 | 48.22  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.73  | 67  | 231341 | 50.31  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 674371 | 49.70  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.21  | 79  | 125421 | 56.24  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.67  | 63  | 238460 | 129.57 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78 | 84  | 354602 | 49.28  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.21 | 152 | 250168 | 47.89  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |         |      | Qvalue |
|--------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 207072 | 38.057  | ug/L | 99     |
| 3) Chloromethane               | 1.54 | 50  | 196989 | 34.448  | ug/L | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 215496 | 35.652  | ug/L | 99     |
| 6) Bromomethane                | 1.87 | 94  | 107042 | 30.316  | ug/L | 95     |
| 8) Chloroethane                | 1.95 | 64  | 131151 | 36.763  | ug/L | 98     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 305531 | 39.324  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 153833 | 41.367  | ug/L | 89     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 150514 | 42.614  | ug/L | 94     |
| 13) Acetone                    | 2.66 | 43  | 296843 | 89.907  | ug/L | 98     |
| 14) Carbon disulfide           | 2.82 | 76  | 462815 | 41.676  | ug/L | 98     |
| 15) Methyl Acetate             | 2.99 | 43  | 212217 | 48.268  | ug/L | 96     |
| 16) Methylene chloride         | 3.08 | 84  | 185335 | 42.220  | ug/L | 92     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 166127 | 44.652  | ug/L | 99     |
| 18) Methyl tert-butyl Ether    | 3.41 | 73  | 587038 | 52.820  | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 324652 | 45.137  | ug/L | 96     |
| 20) cis-1,2-Dichloroethene     | 4.72 | 96  | 195577 | 46.961  | ug/L | # 96   |
| 22) 2-Butanone                 | 4.76 | 43  | 370749 | 106.244 | ug/L | 94     |
| 23) Bromochloromethane         | 5.02 | 128 | 95901  | 41.618  | ug/L | 88     |
| 25) Chloroform                 | 5.13 | 83  | 342335 | 44.228  | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 266003 | 44.357  | ug/L | 98     |
| 29) Cyclohexane                | 5.43 | 56  | 292809 | 57.950  | ug/L | 95     |
| 30) 1,1,1-Trichloroethane      | 5.36 | 97  | 306734 | 52.194  | ug/L | 100    |
| 31) Carbon tetrachloride       | 5.57 | 117 | 265747 | 50.647  | ug/L | 99     |
| 33) Benzene                    | 5.82 | 78  | 734196 | 49.452  | ug/L | 100    |
| 34) Trichloroethene            | 6.58 | 95  | 190530 | 50.367  | ug/L | 95     |
| 35) Methylcyclohexane          | 6.80 | 83  | 301335 | 54.998  | ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.83 | 63  | 199000 | 51.470  | ug/L | 98     |
| 38) Bromodichloromethane       | 7.14 | 83  | 279155 | 53.557  | ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.64 | 75  | 321923 | 55.299  | ug/L | 98     |
| 40) 4-Methyl-2-pentanone       | 7.83 | 43  | 658466 | 131.857 | ug/L | 96     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 8.00  | 91   | 798725   | 50.699  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 305459   | 56.186  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 188171   | 48.632  | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.58  | 164  | 135454   | 41.562  | ug/L  | 92       |
| 48) 2-Hexanone                 | 8.72  | 43   | 526706   | 126.411 | ug/L  | 91       |
| 49) Dibromochloromethane       | 8.84  | 129  | 225826   | 50.624  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 214940   | 51.440  | ug/L  | 98       |
| 51) Chlorobenzene              | 9.47  | 112  | 506295   | 47.818  | ug/L  | 97       |
| 52) Ethylbenzene               | 9.60  | 91   | 909140   | 54.659  | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.72  | 106  | 339311   | 52.812  | ug/L  | 94       |
| 54) o-xylene                   | 10.13 | 106  | 334581   | 53.941  | ug/L  | 91       |
| 55) Styrene                    | 10.14 | 104  | 575205   | 53.421  | ug/L  | 94       |
| 56) Isopropylbenzene           | 10.51 | 105  | 881998   | 54.906  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 343030   | 50.830  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 271419   | 49.256  | ug/L  | 99       |
| 61) Bromoform                  | 10.32 | 173  | 171831   | 50.813  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 379811   | 48.989  | ug/L  | 95       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 378185   | 47.477  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 384103   | 48.405  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 86531    | 61.756  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 257769   | 46.323  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 197720   | 48.443  | ug/L  | 97       |
| 69) Naphthalene                | 14.10 | 128  | 685711   | 62.927  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 207203   | 47.480  | ug/L  | 97       |

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

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