

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU050818\  
 Data File : VU023727.D  
 Acq On : 08 May 2018 10:47  
 Operator : MD/SY  
 Sample : VSTD00553  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 01:35:30 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050818WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 09 01:35:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 337343   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 323869   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 165806   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 14554 | 6.04  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 10970 | 5.98  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.28  | 63  | 26879 | 5.80  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.18  | 46  | 19439 | 11.57 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.65  | 84  | 22652 | 5.69  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.32  | 65  | 15462 | 5.67  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.35  | 84  | 49270 | 5.67  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.34  | 67  | 16401 | 5.65  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.57  | 98  | 44508 | 5.56  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.86  | 79  | 6340  | 5.09  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.32  | 63  | 11713 | 10.27 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44 | 84  | 21436 | 5.66  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.87 | 152 | 18918 | 5.83  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |       |      | Qvalue |
|--------------------------------|------|-----|-------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 18199 | 5.18  | ug/L | 99     |
| 3) Chloromethane               | 1.33 | 50  | 16582 | 4.51  | ug/L | 98     |
| 5) Vinyl chloride              | 1.40 | 62  | 18774 | 5.26  | ug/L | # 51   |
| 6) Bromomethane                | 1.63 | 94  | 5818  | 3.20  | ug/L | 87     |
| 8) Chloroethane                | 1.70 | 64  | 11694 | 5.38  | ug/L | 92     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 22379 | 5.51  | ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 14653 | 5.72  | ug/L | 97     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 13031 | 5.42  | ug/L | 93     |
| 13) Acetone                    | 2.32 | 43  | 25687 | 10.81 | ug/L | 100    |
| 14) Carbon disulfide           | 2.48 | 76  | 43926 | 5.35  | ug/L | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 18518 | 5.74  | ug/L | 94     |
| 16) Methylene chloride         | 2.71 | 84  | 16392 | 5.46  | ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 14848 | 5.63  | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 43301 | 5.51  | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 28474 | 5.45  | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 16581 | 5.64  | ug/L | 95     |
| 22) 2-Butanone                 | 4.27 | 43  | 27793 | 10.37 | ug/L | 98     |
| 23) Bromochloromethane         | 4.55 | 128 | 8017  | 5.42  | ug/L | 98     |
| 25) Chloroform                 | 4.68 | 83  | 29554 | 5.55  | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.41 | 62  | 21924 | 5.51  | ug/L | 99     |
| 29) Cyclohexane                | 5.00 | 56  | 23358 | 5.01  | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.92 | 97  | 22261 | 5.51  | ug/L | 99     |
| 31) Carbon tetrachloride       | 5.14 | 117 | 18581 | 5.29  | ug/L | 99     |
| 33) Benzene                    | 5.40 | 78  | 60636 | 5.42  | ug/L | 100    |
| 34) Trichloroethene            | 6.19 | 95  | 15703 | 5.44  | ug/L | 99     |
| 35) Methylcyclohexane          | 6.42 | 83  | 23423 | 5.25  | ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.44 | 63  | 17265 | 5.36  | ug/L | 100    |
| 38) Bromodichloromethane       | 6.76 | 83  | 19704 | 5.41  | ug/L | 96     |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 21956 | 4.95  | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 42214 | 10.59 | ug/L | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| -----                          |       |      |          |      |       |          |
| 42) Toluene                    | 7.64  | 91   | 61310    | 5.28 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.89  | 75   | 19280    | 4.88 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.08  | 97   | 15015    | 5.45 | ug/L  | 96       |
| 46) Tetrachloroethene          | 8.23  | 164  | 13359    | 5.71 | ug/L  | 95       |
| 48) 2-Hexanone                 | 8.37  | 43   | 33866    | 9.83 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.48  | 129  | 14979    | 5.17 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 15026    | 5.38 | ug/L  | 95       |
| 51) Chlorobenzene              | 9.12  | 112  | 42792    | 5.50 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.26  | 91   | 66983    | 5.30 | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.38  | 106  | 25240    | 5.25 | ug/L  | 99       |
| 54) o-xylene                   | 9.79  | 106  | 24998    | 5.47 | ug/L  | 91       |
| 55) Styrene                    | 9.80  | 104  | 39272    | 4.91 | ug/L  | 97       |
| 56) Isopropylbenzene           | 10.17 | 105  | 63620    | 5.28 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 25547    | 5.62 | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 20538    | 5.69 | ug/L  | 99       |
| 61) Bromoform                  | 9.96  | 173  | 11469    | 5.52 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 32783    | 5.53 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 35536    | 5.77 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.89 | 146  | 34054    | 5.62 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 5150     | 5.78 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 27786    | 5.63 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 21320    | 5.08 | ug/L  | 100      |
| 69) Naphthalene                | 13.75 | 128  | 55011    | 4.99 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 22822    | 5.34 | ug/L  | 98       |
| -----                          |       |      |          |      |       |          |

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

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