

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100518\  
 Data File : VU027441.D  
 Acq On : 05 Oct 2018 09:24  
 Operator : MD/SY  
 Sample : VSTD05053  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05053

Quant Time: Oct 06 04:12:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 06 04:10:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 234224   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 218433   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 109940   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 93950  | 50.97  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 72043  | 50.73  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.27  | 63  | 176613 | 51.08  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.18  | 46  | 152650 | 102.58 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.65  | 84  | 153646 | 52.11  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 102717 | 49.72  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.34  | 84  | 323236 | 51.63  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.33  | 67  | 110683 | 51.62  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.57  | 98  | 287675 | 51.41  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 52076  | 50.40  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.31  | 63  | 113283 | 104.60 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 143629 | 51.22  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.86 | 152 | 104271 | 48.48  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |         | Qvalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 114686 | 49.375  | ug/L 100 |
| 3) Chloromethane               | 1.33 | 50  | 132059 | 49.478  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 129266 | 49.563  | ug/L 100 |
| 6) Bromomethane                | 1.63 | 94  | 54851  | 48.125  | ug/L 100 |
| 8) Chloroethane                | 1.70 | 64  | 73214  | 46.841  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 134005 | 51.330  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 78292  | 50.515  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 76890  | 50.820  | ug/L 100 |
| 13) Acetone                    | 2.32 | 43  | 121839 | 99.827  | ug/L 100 |
| 14) Carbon disulfide           | 2.48 | 76  | 265763 | 47.819  | ug/L 100 |
| 15) Methyl Acetate             | 2.62 | 43  | 122703 | 50.170  | ug/L 100 |
| 16) Methylene chloride         | 2.70 | 84  | 91947  | 50.036  | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 82279  | 49.108  | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 281284 | 50.493  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 175315 | 50.675  | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 92776  | 49.917  | ug/L 100 |
| 22) 2-Butanone                 | 4.26 | 43  | 174217 | 99.717  | ug/L 100 |
| 23) Bromochloromethane         | 4.55 | 128 | 43515  | 51.340  | ug/L 100 |
| 25) Chloroform                 | 4.67 | 83  | 164620 | 49.258  | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 134916 | 50.266  | ug/L 100 |
| 29) Cyclohexane                | 5.00 | 56  | 171190 | 51.669  | ug/L 100 |
| 30) 1,1,1-Trichloroethane      | 4.92 | 97  | 130974 | 50.115  | ug/L 100 |
| 31) Carbon tetrachloride       | 5.14 | 117 | 112383 | 51.125  | ug/L 100 |
| 33) Benzene                    | 5.39 | 78  | 364439 | 50.772  | ug/L 100 |
| 34) Trichloroethene            | 6.19 | 95  | 86487  | 50.101  | ug/L 100 |
| 35) Methylcyclohexane          | 6.42 | 83  | 153980 | 51.337  | ug/L 100 |
| 37) 1,2-Dichloropropane        | 6.43 | 63  | 106534 | 51.227  | ug/L 100 |
| 38) Bromodichloromethane       | 6.76 | 83  | 119771 | 50.681  | ug/L 100 |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 157743 | 51.621  | ug/L 100 |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 312669 | 102.671 | ug/L 100 |

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 MSVOA\_U  
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 VSTD05053

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 06 04:10:10 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.64  | 91   | 371369   | 51.563  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 144414   | 50.913  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 84287    | 50.489  | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.23  | 164  | 64652    | 50.393  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.36  | 43   | 245940   | 102.276 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.48  | 129  | 88528    | 50.857  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 88719    | 50.092  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.12  | 112  | 223925   | 49.179  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.25  | 91   | 405398   | 50.694  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.38  | 106  | 148044   | 50.579  | ug/L  | 100      |
| 54) o-xylene                   | 9.78  | 106  | 143548   | 50.908  | ug/L  | 100      |
| 55) Styrene                    | 9.79  | 104  | 252400   | 52.271  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.17 | 105  | 386101   | 52.249  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 148711   | 50.841  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 118689   | 50.410  | ug/L  | 100      |
| 61) Bromoform                  | 9.96  | 173  | 62782    | 50.258  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 169176   | 49.443  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 173792   | 48.693  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 169595   | 48.690  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 32030    | 49.605  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 129944   | 49.154  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 118668   | 48.812  | ug/L  | 100      |
| 69) Naphthalene                | 13.74 | 128  | 390135   | 52.043  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 121955   | 49.330  | ug/L  | 100      |

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

