

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073019\  
 Data File : VW011567.D  
 Acq On : 30 Jul 2019 09:56  
 Operator : SY/VA  
 Sample : VSTD00506  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00506

Quant Time: Jul 30 11:21:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM073019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 30 11:14:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 383526   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 334753   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 158897   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 27678  | 5.41  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 19137  | 5.13  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 60746  | 5.24  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 23407  | 10.74 | ug/L | 0.01 |
| 24) Chloroform-d               | 7.65  | 84  | 53011  | 5.40  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 31458  | 5.39  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 108041 | 5.40  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 34972  | 5.39  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 94049  | 5.24  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 14690  | 5.24  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 15195  | 10.80 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 28614  | 5.52  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 31373  | 5.26  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 18791  | 4.016 ug/L   | 94     |
| 3) Chloromethane               | 2.21  | 50  | 26971  | 4.751 ug/L   | 100    |
| 5) Vinyl chloride              | 2.36  | 62  | 35521  | 5.313 ug/L   | 97     |
| 6) Bromomethane                | 2.78  | 94  | 16577  | 5.136 ug/L   | 94     |
| 8) Chloroethane                | 2.92  | 64  | 18080  | 5.079 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 16575  | 5.213 ug/L   | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 25990  | 5.093 ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 26581  | 5.218 ug/L   | 96     |
| 13) Acetone                    | 4.13  | 43  | 24276  | 10.524 ug/L  | 97     |
| 14) Carbon disulfide           | 4.39  | 76  | 84060  | 5.089 ug/L   | 98     |
| 15) Methyl Acetate             | 4.67  | 43  | 19808  | 5.593 ug/L   | 99     |
| 16) Methylene chloride         | 4.92  | 84  | 29343  | 5.256 ug/L   | 96     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 43948  | 5.457 ug/L # | 89     |
| 18) trans-1,2-Dichloroethene   | 5.43  | 96  | 26811  | 5.104 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 6.22  | 63  | 54452  | 5.218 ug/L   | 97     |
| 21) 2-Butanone                 | 7.18  | 43  | 29016  | 9.788 ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 28700  | 5.157 ug/L   | 95     |
| 23) Bromochloromethane         | 7.52  | 128 | 11830  | 5.086 ug/L   | 92     |
| 25) Chloroform                 | 7.68  | 83  | 51204  | 5.327 ug/L   | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 37406  | 5.339 ug/L   | 100    |
| 30) Cyclohexane                | 7.95  | 56  | 54559  | 5.004 ug/L   | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 39380  | 5.285 ug/L   | 100    |
| 32) Carbon tetrachloride       | 8.07  | 117 | 36480  | 5.268 ug/L   | 100    |
| 34) Benzene                    | 8.32  | 78  | 115816 | 5.330 ug/L   | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 28898  | 5.232 ug/L   | 98     |
| 36) Methylcyclohexane          | 9.34  | 83  | 50624  | 5.041 ug/L   | 99     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 30646  | 5.249 ug/L   | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 34764  | 5.093 ug/L   | 100    |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 43372  | 4.945 ug/L   | 98     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 51707  | 10.346 ug/L  | 99     |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00506

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM073019S.M  
 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                     | 10.39 | 91   | 115082   | 5.163  | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 36401    | 5.050  | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 20657    | 5.286  | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.86 | 164  | 22536    | 5.319  | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 38875    | 10.304 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 21499    | 4.970  | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 19829    | 5.247  | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 70933    | 5.277  | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 127043   | 5.065  | ug/L  | 97       |
| 54) m,p-Xylene                  | 11.84 | 106  | 46195    | 5.028  | ug/L  | 91       |
| 55) o-xylene                    | 12.16 | 106  | 43413    | 5.014  | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 73346    | 5.035  | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.46 | 105  | 118620   | 5.029  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 27582    | 5.433  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 21084    | 5.436  | ug/L  | 96       |
| 62) Bromoform                   | 12.35 | 173  | 12841    | 5.106  | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 52495    | 5.217  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 52667    | 5.153  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 46888    | 5.064  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 4410     | 4.997  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 37804    | 4.925  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 29120    | 4.578  | ug/L  | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 52655    | 4.066  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 27274    | 4.733  | ug/L  | 98       |

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

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