

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102319\  
 Data File : VV013295.D  
 Acq On : 23 Oct 2019 11:02  
 Operator : SY/MD  
 Sample : VSTD05061  
 Misc : 5.00ML/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05061

Quant Time: Oct 24 02:26:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 24 02:21:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 1287832  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 1210806  | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 637379   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 417539  | 51.81 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 316144  | 48.69 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 622027  | 42.51 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.95  | 46  | 546105  | 92.82 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 903210  | 56.74 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 534938  | 55.04 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.09  | 84  | 1876348 | 57.32 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.11  | 67  | 563144  | 55.40 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 1731216 | 58.76 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 254697  | 55.17 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.13  | 63  | 342468  | 89.87 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 751150  | 56.85 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 697282  | 55.25 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 541383  | 53.203 | ug/L | 100    |
| 3) Chloromethane               | 1.25 | 50  | 413354  | 38.422 | ug/L | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 425044  | 40.731 | ug/L | 100    |
| 6) Bromomethane                | 1.53 | 94  | 213513  | 39.266 | ug/L | 100    |
| 8) Chloroethane                | 1.60 | 64  | 228924  | 37.584 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 568648  | 42.234 | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 332812  | 42.077 | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 321470  | 41.944 | ug/L | 100    |
| 13) Acetone                    | 2.22 | 43  | 378407  | 71.867 | ug/L | 100    |
| 14) Carbon disulfide           | 2.31 | 76  | 1122171 | 48.663 | ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 414774  | 43.136 | ug/L | 100    |
| 16) Methylene chloride         | 2.53 | 84  | 472475  | 49.754 | ug/L | 100    |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 438088  | 50.623 | ug/L | 100    |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 1283053 | 49.279 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 799104  | 49.213 | ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 485101  | 49.632 | ug/L | 100    |
| 22) 2-Butanone                 | 4.04 | 43  | 572520  | 84.522 | ug/L | 100    |
| 23) Bromochloromethane         | 4.30 | 128 | 259737  | 51.724 | ug/L | 100    |
| 25) Chloroform                 | 4.42 | 83  | 812047  | 49.475 | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 599184  | 48.158 | ug/L | 100    |
| 29) Cyclohexane                | 4.72 | 56  | 729252  | 50.733 | ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 4.65 | 97  | 696640  | 51.633 | ug/L | 100    |
| 31) Carbon tetrachloride       | 4.87 | 117 | 627617  | 52.202 | ug/L | 100    |
| 33) Benzene                    | 5.14 | 78  | 1861012 | 50.695 | ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 472878  | 48.530 | ug/L | 100    |
| 35) Methylcyclohexane          | 6.17 | 83  | 761995  | 51.510 | ug/L | 100    |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 468829  | 49.567 | ug/L | 100    |
| 38) Bromodichloromethane       | 6.55 | 83  | 610636  | 50.404 | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 706777  | 50.563 | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.27 | 43  | 1162546 | 95.402 | ug/L | 100    |

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Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05061

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 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 24 02:21:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 1955336  | 51.785  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 601540   | 49.713  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 451458   | 50.085  | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.02  | 164  | 422643   | 53.600  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.18  | 43   | 993487   | 103.518 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 513314   | 51.811  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 482313   | 50.883  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.92  | 112  | 1271300  | 50.973  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.05  | 91   | 2095848  | 51.932  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.18  | 106  | 823199   | 53.898  | ug/L  | 100      |
| 54) o-xylene                   | 9.58  | 106  | 792905   | 52.127  | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 1380865  | 54.796  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.97  | 105  | 2061131  | 52.734  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 696970   | 52.651  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 569988   | 49.448  | ug/L  | 100      |
| 61) Bromoform                  | 9.77  | 173  | 401227   | 50.143  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 1026407  | 49.881  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 1036125  | 50.037  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 1037490  | 49.552  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 141687   | 47.148  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 758089   | 51.257  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 642225   | 50.765  | ug/L  | 100      |
| 69) Naphthalene                | 13.55 | 128  | 1884089  | 54.160  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 708332   | 52.286  | ug/L  | 100      |

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

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