

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU080919\  
 Data File : VU033693.D  
 Acq On : 09 Aug 2019 18:59  
 Operator : JC/SP  
 Sample : VSTD20036  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD20036

Quant Time: Aug 10 03:54:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 10 03:47:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 436567   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 421396   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 228687   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 665844  | 145.75 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.66  | 69  | 975412  | 248.66 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.25  | 63  | 1125388 | 151.94 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.15  | 46  | 890880  | 272.21 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.62  | 84  | 1006130 | 134.29 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.28  | 65  | 612314  | 127.95 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.31  | 84  | 2073470 | 143.85 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 642261  | 140.41 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.55  | 98  | 1958026 | 146.75 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.83  | 79  | 336102  | 150.05 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.30  | 63  | 729861  | 316.67 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 952774  | 133.42 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 800922  | 138.74 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 622657  | 162.755 ug/L | 99     |
| 3) Chloromethane               | 1.32 | 50  | 641452  | 154.282 ug/L | 100    |
| 5) Vinyl chloride              | 1.39 | 62  | 726030  | 161.533 ug/L | 98     |
| 6) Bromomethane                | 1.62 | 94  | 731662  | 238.952 ug/L | 100    |
| 8) Chloroethane                | 1.68 | 64  | 847648  | 293.451 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 976575  | 163.394 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 517144  | 167.579 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 509829  | 172.016 ug/L | 97     |
| 13) Acetone                    | 2.31 | 43  | 676579  | 289.828 ug/L | 98     |
| 14) Carbon disulfide           | 2.46 | 76  | 1427435 | 162.494 ug/L | 100    |
| 15) Methyl Acetate             | 2.60 | 43  | 664491  | 174.607 ug/L | 99     |
| 16) Methylene chloride         | 2.68 | 84  | 579395  | 164.491 ug/L | 100    |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 540803  | 174.533 ug/L | 99     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 1806283 | 184.474 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 1015533 | 169.007 ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 633452  | 181.100 ug/L | 99     |
| 22) 2-Butanone                 | 4.24 | 43  | 1039533 | 353.064 ug/L | 99     |
| 23) Bromochloromethane         | 4.52 | 128 | 329320  | 177.885 ug/L | 98     |
| 25) Chloroform                 | 4.65 | 83  | 1053697 | 167.911 ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.38 | 62  | 815340  | 167.148 ug/L | 100    |
| 29) Cyclohexane                | 4.97 | 56  | 892052  | 189.541 ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 904179  | 177.634 ug/L | 99     |
| 31) Carbon tetrachloride       | 5.11 | 117 | 821187  | 182.917 ug/L | 98     |
| 33) Benzene                    | 5.36 | 78  | 2268963 | 177.234 ug/L | 100    |
| 34) Trichloroethene            | 6.16 | 95  | 606162  | 183.624 ug/L | 99     |
| 35) Methylcyclohexane          | 6.40 | 83  | 966791  | 192.173 ug/L | 100    |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 617828  | 178.145 ug/L | 100    |
| 38) Bromodichloromethane       | 6.73 | 83  | 810897  | 180.810 ug/L | 98     |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 1043404 | 202.932 ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.44 | 43  | 1949892 | 387.376 ug/L | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.62  | 91   | 2533366  | 184.141 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 932275   | 191.906 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 597815   | 180.277 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.21  | 164  | 508268   | 188.676 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.35  | 43   | 1549989  | 375.937 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.46  | 129  | 703035   | 186.243 | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 676008   | 187.660 | ug/L  | 100      |
| 51) Chlorobenzene              | 9.10  | 112  | 1645209  | 181.841 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.23  | 91   | 2843426  | 191.847 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 1087958  | 193.912 | ug/L  | 99       |
| 54) o-xylene                   | 9.76  | 106  | 1094797  | 196.575 | ug/L  | 100      |
| 55) Styrene                    | 9.77  | 104  | 1929667  | 204.067 | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.15 | 105  | 2882777  | 200.507 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 1066193  | 175.123 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 828634   | 175.647 | ug/L  | 98       |
| 61) Bromoform                  | 9.94  | 173  | 578391   | 194.612 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 1376862  | 184.086 | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 1386345  | 179.217 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 1381079  | 182.796 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 267035   | 189.305 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 1118978  | 195.859 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 1058603  | 219.888 | ug/L  | 98       |
| 69) Naphthalene                | 13.73 | 128  | 3288241  | 233.250 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 1047961  | 210.030 | ug/L  | 99       |

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

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