

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092220\  
 Data File : VV018401.D  
 Acq On : 22 Sep 2020 17:39  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05084

Quant Time: Sep 23 05:58:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 23 05:49:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 322074   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 318061   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 177670   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 92528    | 35.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 70.50% |
| 7) Chloroethane-d5             | 1.58    | 69    | 78994    | 36.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 73.56% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 189677   | 39.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.80% |
| 21) 2-Butanone-d5              | 3.92    | 46    | 131217   | 81.68    | ug/L | 0.01   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 81.68% |
| 24) Chloroform-d               | 4.37    | 84    | 189781   | 41.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.34% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 119906   | 41.07    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.14% |
| 32) Benzene-d6                 | 5.07    | 84    | 372943   | 40.96    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.92% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 118553   | 40.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 81.96% |
| 41) Toluene-d8                 | 7.33    | 98    | 352597   | 42.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.98% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 60164    | 40.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.84% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 93308    | 85.15    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 85.15% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 152607   | 42.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 147472   | 40.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 80.84% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 101163 | 43.075  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 110986 | 43.279  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 113289 | 43.080  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 72096  | 44.854  | ug/L 99  |
| 8) Chloroethane                | 1.60 | 64  | 72080  | 43.755  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 164275 | 45.402  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 100771 | 46.366  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 93736  | 44.325  | ug/L 94  |
| 13) Acetone                    | 2.20 | 43  | 144448 | 112.283 | ug/L 98  |
| 14) Carbon disulfide           | 2.31 | 76  | 267214 | 41.295  | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 100915 | 43.650  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 111622 | 47.064  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 95984  | 44.042  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 296863 | 44.034  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 184491 | 44.773  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 103580 | 44.460  | ug/L 98  |
| 22) 2-Butanone                 | 4.00 | 43  | 161825 | 106.229 | ug/L 97  |

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 ClientSampleId :  
 VSTD05084

Quant Time: Sep 23 05:58:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 23 05:49:41 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 54531    | 44.737 | ug/L  | 94       |
| 25) Chloroform                  | 4.40  | 83   | 187459   | 44.755 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 147210   | 45.399 | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 167668   | 45.652 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 165325   | 44.789 | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.85  | 117  | 144206   | 44.430 | ug/L  | 98       |
| 33) Benzene                     | 5.12  | 78   | 409047   | 44.981 | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 110669   | 44.674 | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 172101   | 46.141 | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 108592   | 45.064 | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 138928   | 44.303 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 166030   | 44.718 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 265852   | 90.939 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 439812   | 45.701 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 163891   | 45.336 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 100372   | 44.939 | ug/L  | 97       |
| 46) Tetrachloroethene           | 8.00  | 164  | 88781    | 45.708 | ug/L  | 100      |
| 48) 2-Hexanone                  | 8.16  | 43   | 226464   | 98.259 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 111917   | 44.640 | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 105055   | 44.692 | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 284233   | 45.478 | ug/L  | 100      |
| 52) Ethylbenzene                | 9.03  | 91   | 488294   | 46.475 | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.16  | 106  | 183978   | 46.913 | ug/L  | 98       |
| 54) o-xylene                    | 9.56  | 106  | 176183   | 46.633 | ug/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 313724   | 47.775 | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 485074   | 47.639 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 148827   | 45.046 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 127770   | 45.080 | ug/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 81706    | 42.808 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 237295   | 44.915 | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 243180   | 44.782 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 234433   | 43.901 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 33347    | 44.253 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 186877   | 44.869 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 170727   | 46.032 | ug/L  | 98       |
| 69) Naphthalene                 | 13.52 | 128  | 465467   | 49.598 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 172494   | 47.220 | ug/L  | 99       |

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

