

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111419\  
 Data File : VY000687.D  
 Acq On : 14 Nov 2019 21:56  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5ML/MSVOA Y/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02591

Quant Time: Nov 15 10:16:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOMYLM111419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 15 10:12:16 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 374888   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 343955   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 165987   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.24    | 65    | 132797   | 45.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.18%  |
| 7) Chloroethane-d5             | 2.76    | 69    | 117051   | 48.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.42%  |
| 11) 1,1-Dichloroethene-d2      | 3.85    | 63    | 238567   | 46.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.10%  |
| 21) 2-Butanone-d5              | 6.91    | 46    | 129882   | 111.81   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.81% |
| 24) Chloroform-d               | 7.49    | 84    | 234549   | 55.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.54% |
| 26) 1,2-Dichloroethane-d4      | 8.16    | 65    | 151680   | 50.66    | ug/L | 0.01    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.32% |
| 32) Benzene-d6                 | 8.12    | 84    | 472260   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 36) 1,2-Dichloropropane-d6     | 9.13    | 67    | 154172   | 51.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.90% |
| 41) Toluene-d8                 | 10.18   | 98    | 429246   | 48.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.38%  |
| 43) trans-1,3-Dichloropropene- | 10.44   | 79    | 77951    | 52.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 105.00% |
| 47) 2-Hexanone-d5              | 10.79   | 63    | 99508    | 113.74   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 113.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.56   | 84    | 187590   | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 107.18% |
| 64) 1,2-Dichlorobenzene-d4     | 13.72   | 152   | 160241   | 49.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.80%  |

## Target Compounds

|                                |      |     |        |         | Ovalue    |
|--------------------------------|------|-----|--------|---------|-----------|
| 2) Dichlorodifluoromethane     | 1.90 | 85  | 91804  | 42.884  | ug/L 97   |
| 3) Chloromethane               | 2.12 | 50  | 142688 | 50.118  | ug/L 99   |
| 5) Vinyl chloride              | 2.25 | 62  | 137982 | 48.336  | ug/L 99   |
| 6) Bromomethane                | 2.66 | 94  | 83731  | 51.021  | ug/L 98   |
| 8) Chloroethane                | 2.80 | 64  | 90795  | 50.677  | ug/L 99   |
| 9) Trichlorofluoromethane      | 3.13 | 101 | 189422 | 44.947  | ug/L 98   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.90 | 101 | 94386  | 40.133  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 3.87 | 96  | 109608 | 46.579  | ug/L # 80 |
| 13) Acetone                    | 3.96 | 43  | 88295  | 105.575 | ug/L 97   |
| 14) Carbon disulfide           | 4.19 | 76  | 303309 | 46.729  | ug/L 99   |
| 15) Methyl Acetate             | 4.49 | 43  | 105017 | 49.963  | ug/L 100  |
| 16) Methylene chloride         | 4.72 | 84  | 128481 | 51.065  | ug/L 97   |
| 17) trans-1,2-Dichloroethene   | 5.22 | 96  | 118274 | 48.134  | ug/L 97   |
| 18) Methyl tert-butyl Ether    | 5.24 | 73  | 390776 | 52.832  | ug/L 99   |
| 19) 1,1-Dichloroethane         | 6.03 | 63  | 225134 | 50.973  | ug/L 95   |
| 20) cis-1,2-Dichloroethene     | 7.00 | 96  | 135133 | 49.066  | ug/L 92   |
| 22) 2-Butanone                 | 7.00 | 43  | 138644 | 105.355 | ug/L 100  |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 7.35  | 128  | 64879    | 51.101  | ug/L  | 94       |
| 25) Chloroform                 | 7.52  | 83   | 233020   | 46.080  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 8.25  | 62   | 179948   | 52.111  | ug/L  | 100      |
| 29) Cyclohexane                | 7.79  | 56   | 161628   | 40.259  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 7.71  | 97   | 189876   | 50.537  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 7.91  | 117  | 158660   | 47.165  | ug/L  | 99       |
| 33) Benzene                    | 8.17  | 78   | 515714   | 50.334  | ug/L  | 100      |
| 34) Trichloroethene            | 8.94  | 95   | 124761   | 48.495  | ug/L  | 98       |
| 35) Methylcyclohexane          | 9.19  | 83   | 166166   | 39.125  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 9.22  | 63   | 134541   | 52.937  | ug/L  | 99       |
| 38) Bromodichloromethane       | 9.50  | 83   | 180126   | 52.757  | ug/L  | 91       |
| 39) cis-1,3-Dichloropropene    | 9.93  | 75   | 220979   | 51.171  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 10.08 | 43   | 313516   | 107.530 | ug/L  | 99       |
| 42) Toluene                    | 10.25 | 91   | 540626   | 49.850  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 10.47 | 75   | 199936   | 52.876  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 10.64 | 97   | 124281   | 51.540  | ug/L  | 97       |
| 46) Tetrachloroethene          | 10.72 | 164  | 90807    | 45.619  | ug/L  | 95       |
| 48) 2-Hexanone                 | 10.83 | 43   | 225918   | 107.321 | ug/L  | 99       |
| 49) Dibromochloromethane       | 10.99 | 129  | 139231   | 53.307  | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 11.09 | 107  | 127824   | 52.964  | ug/L  | 98       |
| 51) Chlorobenzene              | 11.52 | 112  | 344382   | 49.288  | ug/L  | 99       |
| 52) Ethylbenzene               | 11.59 | 91   | 588294   | 47.533  | ug/L  | 100      |
| 53) m,p-Xylene                 | 11.70 | 106  | 226559   | 47.592  | ug/L  | 99       |
| 54) o-xylene                   | 12.03 | 106  | 228237   | 48.905  | ug/L  | 96       |
| 55) Styrene                    | 12.04 | 104  | 391643   | 49.389  | ug/L  | 100      |
| 56) Isopropylbenzene           | 12.33 | 105  | 554380   | 46.411  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 182407   | 53.477  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.63 | 75   | 140878   | 52.201  | ug/L  | 99       |
| 61) Bromoform                  | 12.20 | 173  | 91180    | 54.258  | ug/L  | 95       |
| 62) 1,3-Dichlorobenzene        | 13.36 | 146  | 258634   | 49.683  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 13.44 | 146  | 264151   | 49.530  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 13.73 | 146  | 262496   | 51.192  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.36 | 75   | 33087    | 53.416  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 174809   | 48.117  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene     | 15.00 | 180  | 171983   | 50.461  | ug/L  | 100      |
| 69) Naphthalene                | 15.23 | 128  | 535962   | 52.628  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 170434   | 51.958  | ug/L  | 100      |

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

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