

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072718\  
 Data File : VW004228.D  
 Acq On : 26 Jul 2018 13:40  
 Operator : SY/AP  
 Sample : VSTD10089  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10089

Quant Time: Jul 26 14:02:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jul 26 13:44:32 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 411005   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 384739   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 197241   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 384112  | 94.47  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.88  | 69  | 304423  | 103.89 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 996334  | 102.15 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.08  | 46  | 487447  | 204.47 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 1058565 | 108.52 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 644527  | 109.70 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 2151538 | 120.57 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 707157  | 118.80 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 2069002 | 129.02 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 342336  | 130.88 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 413557  | 258.12 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 696346  | 106.78 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 761299  | 120.03 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |        |      | Qvalue |
|--------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 321915  | 122.33 | ug/L | 99     |
| 3) Chloromethane               | 2.21  | 50  | 329960  | 78.43  | ug/L | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 478157  | 75.48  | ug/L | 95     |
| 6) Bromomethane                | 2.76  | 94  | 288996  | 85.93  | ug/L | 99     |
| 8) Chloroethane                | 2.92  | 64  | 280493  | 84.46  | ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 221904  | 70.31  | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.05  | 101 | 493718  | 87.97  | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 486805  | 88.98  | ug/L | 97     |
| 13) Acetone                    | 4.12  | 43  | 421199  | 162.51 | ug/L | 99     |
| 14) Carbon disulfide           | 4.37  | 76  | 1533966 | 86.67  | ug/L | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 374748  | 84.75  | ug/L | 100    |
| 16) Methylene chloride         | 4.91  | 84  | 504440  | 63.98  | ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 1041915 | 98.47  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 519493  | 92.23  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 977046  | 91.18  | ug/L | 97     |
| 21) 2-Butanone                 | 7.18  | 43  | 572466  | 178.01 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 585986  | 97.33  | ug/L | 99     |
| 23) Bromochloromethane         | 7.51  | 128 | 268209  | 94.75  | ug/L | 97     |
| 25) Chloroform                 | 7.68  | 83  | 1001074 | 91.48  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 731492  | 90.70  | ug/L | 100    |
| 30) Cyclohexane                | 7.95  | 56  | 969444  | 103.31 | ug/L | 99     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 755540  | 86.35  | ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 764948  | 90.61  | ug/L | 100    |
| 34) Benzene                    | 8.32  | 78  | 2268866 | 96.20  | ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 590515  | 93.58  | ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 1069278 | 102.53 | ug/L | 98     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 614027  | 96.04  | ug/L | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 759076  | 96.43  | ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 973112  | 108.02 | ug/L | 98     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 1138418 | 202.55 | ug/L | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.39 | 91   | 2418200  | 97.85  | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 868049   | 104.47 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 468653   | 94.32  | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.87 | 164  | 467290   | 91.82  | ug/L  | 95       |
| 49) 2-Hexanone                 | 10.98 | 43   | 857993   | 197.18 | ug/L  | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 558470   | 100.33 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 460772   | 94.95  | ug/L  | 94       |
| 52) Chlorobenzene              | 11.66 | 112  | 1495830  | 94.40  | ug/L  | 99       |
| 53) Ethylbenzene               | 11.74 | 91   | 2686988  | 100.45 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 1011226  | 102.57 | ug/L  | 96       |
| 55) o-xylene                   | 12.17 | 106  | 984387   | 104.38 | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 1712674  | 105.13 | ug/L  | 96       |
| 57) Isopropylbenzene           | 12.47 | 105  | 2701013  | 104.47 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 655922   | 92.36  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 494699   | 89.98  | ug/L  | 98       |
| 62) Bromoform                  | 12.35 | 173  | 367524   | 98.73  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 1191824  | 98.11  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.59 | 146  | 1212710  | 93.10  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 1140166  | 96.31  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 119271   | 86.42  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.64 | 180  | 898732   | 93.56  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 788264   | 102.32 | ug/L  | 99       |
| 69) Naphthalene                | 15.38 | 128  | 1877659  | 108.25 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 719833   | 98.21  | ug/L  | 99       |

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

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