

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021319\  
 Data File : VV009294.D  
 Acq On : 13 Feb 2019 14:44  
 Operator : SY/MD  
 Sample : VSTD10065  
 Misc : 5.00G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10065

Quant Time: Feb 13 15:04:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM021319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 13 14:20:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 308828   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 307901   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 160038   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 439018  | 83.16  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.56  | 69  | 342983  | 101.93 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 882351  | 81.31  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.93  | 46  | 387689  | 163.91 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 897112  | 94.22  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 541879  | 96.43  | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 1770507 | 92.60  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 556398  | 93.61  | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 1708794 | 98.55  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 279710  | 105.74 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 281837  | 195.44 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 561556  | 95.68  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 619379  | 98.60  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |         | Qvalue   |
|--------------------------------|------|-----|---------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 415037  | 72.397  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 481693  | 77.962  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 471530  | 76.505  | ug/L 97  |
| 6) Bromomethane                | 1.51 | 94  | 195308  | 66.386  | ug/L 97  |
| 8) Chloroethane                | 1.58 | 64  | 279159  | 84.652  | ug/L 97  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 681636  | 79.776  | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 383904  | 77.911  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 340187  | 75.689  | ug/L 88  |
| 13) Acetone                    | 2.19 | 43  | 424517  | 126.447 | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 1370197 | 79.635  | ug/L 100 |
| 15) Methyl Acetate             | 2.46 | 43  | 302574  | 74.336  | ug/L 99  |
| 16) Methylene chloride         | 2.53 | 84  | 443322  | 68.290  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 1132922 | 93.376  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 420717  | 82.274  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 831372  | 85.405  | ug/L 97  |
| 21) 2-Butanone                 | 4.01 | 43  | 497242  | 146.006 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 471260  | 89.722  | ug/L 98  |
| 23) Bromochloromethane         | 4.30 | 128 | 206707  | 87.721  | ug/L 95  |
| 25) Chloroform                 | 4.43 | 83  | 842727  | 87.569  | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 624299  | 90.392  | ug/L 100 |
| 30) Cyclohexane                | 4.73 | 56  | 806360  | 82.682  | ug/L 98  |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 723661  | 80.909  | ug/L 98  |
| 32) Carbon tetrachloride       | 4.88 | 117 | 633648  | 80.131  | ug/L 99  |
| 34) Benzene                    | 5.15 | 78  | 1783524 | 84.545  | ug/L 100 |
| 35) Trichloroethene            | 5.96 | 95  | 475304  | 83.087  | ug/L 98  |
| 36) Methylcyclohexane          | 6.18 | 83  | 798856  | 83.554  | ug/L 98  |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 481857  | 86.723  | ug/L 100 |
| 41) Bromodichloromethane       | 6.56 | 83  | 628181  | 87.463  | ug/L 98  |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 775161  | 95.545  | ug/L 100 |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 848804  | 159.712 | ug/L 99  |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 7.43  | 91   | 1978963  | 89.408  | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 698041   | 96.552  | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 367393   | 86.881  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 357776   | 82.952  | ug/L  | 99       |
| 49) 2-Hexanone                 | 8.18  | 43   | 739138   | 162.187 | ug/L  | 99       |
| 50) Dibromochloromethane       | 8.29  | 129  | 454402   | 93.584  | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 368587   | 86.954  | ug/L  | 99       |
| 52) Chlorobenzene              | 8.93  | 112  | 1245151  | 89.035  | ug/L  | 98       |
| 53) Ethylbenzene               | 9.06  | 91   | 2256873  | 92.031  | ug/L  | 98       |
| 54) m,p-Xylene                 | 9.18  | 106  | 856688   | 94.871  | ug/L  | 99       |
| 55) o-xylene                   | 9.59  | 106  | 820943   | 96.082  | ug/L  | 96       |
| 56) Styrene                    | 9.61  | 104  | 1449822  | 100.787 | ug/L  | 99       |
| 57) Isopropylbenzene           | 9.98  | 105  | 2236358  | 95.376  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 530759   | 86.000  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 397462   | 82.302  | ug/L  | 99       |
| 62) Bromoform                  | 9.78  | 173  | 290590   | 91.651  | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 991163   | 87.384  | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 1005502  | 87.715  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 943910   | 88.882  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 100837   | 75.149  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 744443   | 88.394  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 629024   | 95.861  | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 1365266  | 103.168 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 582024   | 97.603  | ug/L  | 99       |

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

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