

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041019\  
 Data File : VV010213.D  
 Acq On : 10 Apr 2019 13:32  
 Operator : SY/MD  
 Sample : VSTD05091  
 Misc : 5.00G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:04:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 10 13:55:42 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 302644   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 295227   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 157026   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 164832 | 40.68 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 145007 | 28.81 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 431016 | 42.17 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.93  | 46  | 98406  | 85.35 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 347496 | 45.58 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 195456 | 45.82 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 698458 | 45.62 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 203909 | 45.13 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 702309 | 47.61 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 95309  | 49.35 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 79267  | 87.47 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 190036 | 42.65 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 280860 | 45.92 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 238027 | 54.378 | ug/L 97  |
| 3) Chloromethane               | 1.25 | 50  | 195715 | 50.173 | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 211884 | 49.870 | ug/L 99  |
| 6) Bromomethane                | 1.51 | 94  | 191102 | 39.762 | ug/L 100 |
| 8) Chloroethane                | 1.59 | 64  | 129412 | 34.843 | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 420393 | 48.003 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 217905 | 44.744 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 198946 | 48.082 | ug/L 98  |
| 13) Acetone                    | 2.19 | 43  | 81610  | 71.596 | ug/L 98  |
| 14) Carbon disulfide           | 2.31 | 76  | 510894 | 59.496 | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 83628  | 45.851 | ug/L 97  |
| 16) Methylene chloride         | 2.53 | 84  | 223483 | 42.030 | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 448154 | 50.573 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 190297 | 52.654 | ug/L 93  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 312842 | 50.947 | ug/L 98  |
| 21) 2-Butanone                 | 4.01 | 43  | 112243 | 89.913 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 207400 | 51.682 | ug/L 95  |
| 23) Bromochloromethane         | 4.30 | 128 | 105344 | 54.103 | ug/L 97  |
| 25) Chloroform                 | 4.42 | 83  | 360737 | 52.422 | ug/L 99  |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 237386 | 50.572 | ug/L 99  |
| 30) Cyclohexane                | 4.72 | 56  | 275588 | 51.712 | ug/L 99  |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 313890 | 52.133 | ug/L 98  |
| 32) Carbon tetrachloride       | 4.87 | 117 | 292812 | 54.410 | ug/L 100 |
| 34) Benzene                    | 5.15 | 78  | 738849 | 51.177 | ug/L 100 |
| 35) Trichloroethene            | 5.96 | 95  | 214331 | 51.578 | ug/L 98  |
| 36) Methylcyclohexane          | 6.18 | 83  | 333030 | 53.496 | ug/L 98  |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 180249 | 49.413 | ug/L 100 |
| 41) Bromodichloromethane       | 6.55 | 83  | 254297 | 53.605 | ug/L 99  |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 301957 | 57.185 | ug/L 100 |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 241871 | 89.617 | ug/L 99  |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 44) Toluene                    | 7.43  | 91   | 852825   | 52.633 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 256417   | 57.097 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 156788   | 48.473 | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 189371   | 54.443 | ug/L  | 97       |
| 49) 2-Hexanone                 | 8.18  | 43   | 164804   | 85.490 | ug/L  | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 205166   | 56.584 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 161346   | 50.475 | ug/L  | 97       |
| 52) Chlorobenzene              | 8.92  | 112  | 580351   | 52.511 | ug/L  | 98       |
| 53) Ethylbenzene               | 9.05  | 91   | 942239   | 53.031 | ug/L  | 100      |
| 54) m,p-Xylene                 | 9.18  | 106  | 383177   | 55.408 | ug/L  | 100      |
| 55) o-xylene                   | 9.59  | 106  | 367540   | 54.858 | ug/L  | 96       |
| 56) Styrene                    | 9.60  | 104  | 622311   | 56.151 | ug/L  | 100      |
| 57) Isopropylbenzene           | 9.97  | 105  | 957169   | 54.172 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 192312   | 46.292 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 138770   | 46.584 | ug/L  | 97       |
| 62) Bromoform                  | 9.77  | 173  | 122032   | 55.255 | ug/L  | 96       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 476150   | 51.661 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 483245   | 50.333 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 454859   | 50.237 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 26759    | 43.587 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 363497   | 53.109 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 271485   | 51.798 | ug/L  | 96       |
| 69) Naphthalene                | 13.55 | 128  | 411873   | 47.234 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 250124   | 51.116 | ug/L  | 99       |
| -----                          |       |      |          |        |       |          |

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

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