

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\  
 Data File : VD060979.D  
 Acq On : 8 Mar 2019 13:02  
 Operator : VA/AP  
 Sample : K1560-02L0010PPB  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2019

Quant Time: Mar 09 00:57:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 827317   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1374892  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 1107907  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 483822   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.44   | 65  | 326667   | 47.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.88%  |      |
| 35) Dibromofluoromethane  | 6.92   | 113 | 528558   | 51.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.60% |      |
| 50) Toluene-d8            | 10.41  | 98  | 1208726  | 47.17 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.34%  |      |
| 62) 4-Bromofluorobenzene  | 13.55  | 95  | 494915   | 49.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.56%  |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85  | 81320  | 9.923  | ug/l   | 98     |
| 3) Chloromethane              | 1.76 | 50  | 65492  | 9.593  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.86 | 62  | 59855  | 9.489  | ug/l   | 97     |
| 5) Bromomethane               | 2.17 | 94  | 12471  | 9.065  | ug/l   | 91     |
| 6) Chloroethane               | 2.27 | 64  | 17496  | 9.266  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 2.54 | 101 | 81340  | 8.976  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.88 | 74  | 26403  | 8.832  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101 | 96258  | 9.501  | ug/l   | 97     |
| 10) Methyl Iodide             | 3.32 | 142 | 84628  | 8.643  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.07 | 59  | 22002  | 50.186 | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 3.14 | 96  | 78968  | 9.509  | ug/l   | 94     |
| 13) Acrolein                  | 3.04 | 56  | 30074  | 47.410 | ug/l   | 91     |
| 14) Allyl chloride            | 3.62 | 41  | 124629 | 9.380  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.19 | 53  | 74679  | 48.197 | ug/l   | 99     |
| 16) Acetone                   | 3.23 | 43  | 87536  | 44.452 | ug/l   | 91     |
| 17) Carbon Disulfide          | 3.39 | 76  | 264325 | 9.435  | ug/l   | 99     |
| 18) Methyl Acetate            | 3.64 | 43  | 32387  | 8.357  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 4.23 | 73  | 139435 | 9.581  | ug/l   | 96     |
| 20) Methylene Chloride        | 3.82 | 84  | 107020 | 8.002  | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96  | 87309  | 9.713  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.12 | 45  | 262968 | 9.534  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.05 | 43  | 683525 | 48.273 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 4.98 | 63  | 138687 | 9.177  | ug/l   | 98     |
| 25) 2-Butanone                | 6.06 | 43  | 112561 | 50.373 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.02 | 77  | 114146 | 9.675  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 6.03 | 96  | 96068  | 10.073 | ug/l   | 96     |
| 28) Bromochloromethane        | 6.43 | 49  | 57550  | 8.995  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 6.45 | 42  | 50897  | 41.947 | ug/l   | 98     |
| 30) Chloroform                | 6.65 | 83  | 148929 | 9.508  | ug/l   | 100    |
| 31) Cyclohexane               | 6.95 | 56  | 117271 | 9.624  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.86 | 97  | 123322 | 9.107  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.14 | 75  | 114825 | 9.689  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.18 | 43  | 48083  | 8.646  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.11 | 117 | 119054 | 9.120  | ug/l   | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.86  | 83   | 104862   | 8.533   | ug/l   | 98       |
| 40) Benzene                    | 7.44  | 78   | 261420   | 8.828   | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.44  | 41   | 56717    | 8.866   | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 7.57  | 62   | 77982    | 9.074   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 9.23  | 43   | 64133    | 8.326   | ug/l # | 99       |
| 44) Trichloroethene            | 8.54  | 130  | 95202    | 9.318   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.93  | 63   | 70909    | 9.114   | ug/l   | 100      |
| 46) Dibromomethane             | 9.05  | 93   | 43240    | 8.762   | ug/l   | 93       |
| 47) Bromodichloromethane       | 9.36  | 83   | 101604   | 9.123   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.11  | 41   | 41788    | 9.635   | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.08  | 88   | 7616     | 173.666 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.29 | 43   | 211483   | 44.816  | ug/l   | 99       |
| 52) Toluene                    | 10.49 | 92   | 184922   | 10.042  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.90 | 75   | 94968    | 9.326   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 108442   | 8.863   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 11.18 | 97   | 58973    | 9.616   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 11.03 | 69   | 59433    | 9.259   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 87511    | 9.549   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.84  | 63   | 154279   | 45.407  | ug/l   | 99       |
| 59) 2-Hexanone                 | 11.52 | 43   | 176266   | 51.064  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.68 | 129  | 83017    | 9.198   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.79 | 107  | 65019    | 9.114   | ug/l   | 96       |
| 64) Tetrachloroethene          | 11.24 | 164  | 75422    | 10.085  | ug/l   | 98       |
| 65) Chlorobenzene              | 12.39 | 112  | 215093   | 9.903   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 12.50 | 131  | 82965    | 10.716  | ug/l   | 97       |
| 67) Ethyl Benzene              | 12.51 | 91   | 352043   | 10.887  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.66 | 106  | 262275   | 20.666  | ug/l   | 98       |
| 69) o-Xylene                   | 13.04 | 106  | 108134   | 8.668   | ug/l   | 99       |
| 70) Styrene                    | 13.06 | 104  | 200897   | 9.862   | ug/l   | 99       |
| 71) Bromoform                  | 13.23 | 173  | 48950    | 9.801   | ug/l   | 94       |
| 73) Isopropylbenzene           | 13.40 | 105  | 359984   | 10.324  | ug/l   | 99       |
| 74) N-amyl acetate             | 13.26 | 43   | 96738    | 9.853   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 64610    | 9.497   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 67843    | 9.747   | ug/l   | 98       |
| 77) Bromobenzene               | 13.66 | 156  | 87712    | 9.854   | ug/l   | 97       |
| 78) n-propylbenzene            | 13.76 | 91   | 428648   | 10.501  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 230949   | 10.277  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 14.23 | 105  | 284328   | 10.741  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 18223    | 8.880   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 269688   | 10.151  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 311151   | 10.741  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 284328   | 10.741  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 14.36 | 105  | 362259   | 10.243  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 285226   | 9.867   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 164505   | 10.350  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 140491   | 8.995   | ug/l   | 98       |
| 89) n-Butylbenzene             | 14.80 | 91   | 285674   | 10.291  | ug/l   | 96       |
| 90) Hexachloroethane           | 15.00 | 117  | 75514    | 9.251   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 136006   | 10.265  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 8048     | 9.817   | ug/l   | 78       |

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Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 61291    | 9.972 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 45099    | 9.700 | ug/l  | 96       |
| 95) Naphthalene            | 16.12 | 128  | 85537    | 9.158 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 25184    | 8.296 | ug/l  | 94       |

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

