

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072618\  
 Data File : VD059606.D  
 Acq On : 26 Jul 2018 15:44  
 Operator : VA/AP  
 Sample : VD0726SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0726SBS01

Quant Time: Jul 26 16:05:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072418S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 25 07:10:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 130277   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 6.67  | 114  | 170298   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 142727   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 75986    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.00  | 65   | 89180    | 54.45  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 108.90% |          |
| 35) Dibromofluoromethane    | 5.52  | 113  | 81023    | 55.46  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.92% |          |
| 50) Toluene-d8              | 8.69  | 98   | 173235   | 52.28  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.56% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 81553    | 54.64  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.28% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.31 | 85   | 38229    | 23.50  | ug/l   | 97     |
| 3) Chloromethane              | 1.45 | 50   | 16908    | 20.77  | ug/l   | 95     |
| 4) Vinyl Chloride             | 1.53 | 62   | 16168    | 19.08  | ug/l   | 97     |
| 5) Bromomethane               | 1.75 | 94   | 3940     | 24.24  | ug/l # | 73     |
| 6) Chloroethane               | 1.84 | 64   | 5477     | 22.10  | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 2.04 | 101  | 35162    | 24.32  | ug/l   | 96     |
| 8) Diethyl Ether              | 2.32 | 74   | 5227     | 20.90  | ug/l   | 70     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.51 | 101  | 17238    | 22.63  | ug/l   | 95     |
| 10) Methyl Iodide             | 2.66 | 142  | 19601    | 20.93  | ug/l   | 94     |
| 11) Tert butyl alcohol        | 3.24 | 59   | 7407     | 113.36 | ug/l # | 80     |
| 12) 1,1-Dichloroethene        | 2.50 | 96   | 11636    | 21.08  | ug/l   | 99     |
| 13) Acrolein                  | 2.45 | 56   | 3603     | 107.04 | ug/l   | 100    |
| 14) Allyl chloride            | 2.88 | 41   | 29760    | 22.23  | ug/l   | 98     |
| 15) Acrylonitrile             | 3.32 | 53   | 16425    | 115.91 | ug/l   | 95     |
| 16) Acetone                   | 2.58 | 43   | 26488    | 107.09 | ug/l   | 96     |
| 17) Carbon Disulfide          | 2.72 | 76   | 42876    | 19.55  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.91 | 43   | 9809     | 19.83  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 3.37 | 73   | 43724    | 23.63  | ug/l   | 95     |
| 20) Methylene Chloride        | 3.04 | 84   | 15293    | 21.68  | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 3.35 | 96   | 13584    | 22.82  | ug/l   | 89     |
| 22) Diisopropyl ether         | 4.04 | 45   | 74293    | 21.10  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.98 | 43   | 241321   | 108.02 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.93 | 63   | 46274    | 20.82  | ug/l   | 99     |
| 25) 2-Butanone                | 4.81 | 43   | 39144    | 103.78 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 4.77 | 77   | 51107    | 22.46  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.77 | 96   | 26463    | 22.25  | ug/l   | 92     |
| 28) Bromochloromethane        | 5.11 | 49   | 20448    | 23.25  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 5.16 | 42   | 17418    | 99.73  | ug/l   | 99     |
| 30) Chloroform                | 5.30 | 83   | 61614    | 23.18  | ug/l   | 98     |
| 31) Cyclohexane               | 5.56 | 56   | 32653    | 19.50  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97   | 54455    | 21.16  | ug/l   | 95     |
| 36) 1,1-Dichloropropene       | 5.72 | 75   | 38428    | 22.49  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.90 | 43   | 19772    | 22.49  | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 5.69 | 117  | 49602    | 21.20  | ug/l   | 98     |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD0726SBS01

Quant Time: Jul 26 16:05:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072418S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 25 07:10:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.27  | 83   | 32807    | 20.88  | ug/l   | 98       |
| 40) Benzene                    | 5.99  | 78   | 76863    | 21.93  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.09  | 41   | 9113     | 20.77  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 6.10  | 62   | 46024    | 21.80  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 7.60  | 43   | 25297    | 20.75  | ug/l   | 94       |
| 44) Trichloroethene            | 6.96  | 130  | 28375    | 22.32  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.32  | 63   | 20123    | 20.50  | ug/l   | 97       |
| 46) Dibromomethane             | 7.44  | 93   | 19070    | 22.99  | ug/l   | 93       |
| 47) Bromodichloromethane       | 7.73  | 83   | 44430    | 22.43  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.48  | 41   | 17936    | 22.19  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 7.47  | 88   | 3152     | 429.77 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone       | 8.58  | 43   | 89772    | 110.29 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 49956    | 21.50  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.17  | 75   | 35421    | 19.82  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.35  | 75   | 38160    | 21.50  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 9.44  | 97   | 18775    | 21.51  | ug/l   | 93       |
| 56) Ethyl methacrylate         | 9.30  | 69   | 22437    | 22.65  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.66  | 76   | 30130    | 21.72  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 8.17  | 63   | 49020    | 105.33 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.77  | 43   | 64783    | 100.20 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.94  | 129  | 30336    | 20.93  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 10.08 | 107  | 23597    | 22.81  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.50  | 164  | 26398    | 20.41  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.72 | 112  | 62310    | 21.30  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.84 | 131  | 27133    | 21.32  | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.85 | 91   | 109203   | 21.71  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.00 | 106  | 71519    | 42.58  | ug/l   | 100      |
| 69) o-Xylene                   | 11.40 | 106  | 36474    | 22.38  | ug/l   | 92       |
| 70) Styrene                    | 11.43 | 104  | 58465    | 21.63  | ug/l   | 97       |
| 71) Bromoform                  | 11.59 | 173  | 21021    | 20.28  | ug/l # | 95       |
| 73) Isopropylbenzene           | 11.77 | 105  | 101328   | 18.88  | ug/l   | 99       |
| 74) N-amyl acetate             | 11.64 | 43   | 33767    | 18.36  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.07 | 83   | 21314    | 19.45  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 24236    | 19.29  | ug/l   | 97       |
| 77) Bromobenzene               | 12.04 | 156  | 30846    | 19.63  | ug/l   | 81       |
| 78) n-propylbenzene            | 12.15 | 91   | 133039   | 20.40  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 79475    | 20.44  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 84234    | 19.87  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 5985     | 18.63  | ug/l # | 96       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 91390    | 20.78  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 99181    | 20.79  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 91275    | 20.26  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 108467   | 19.89  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 92558    | 20.14  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.83 | 146  | 52710    | 19.83  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 52048    | 20.33  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.19 | 91   | 84820    | 19.12  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.39 | 117  | 23919    | 19.48  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 44430    | 19.92  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 4400     | 19.91  | ug/l   | 79       |

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Sample : VD0726SBSD01  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0726SBSD01

Quant Time: Jul 26 16:05:06 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072418S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 25 07:10:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 37188    | 20.14 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 28677    | 19.69 | ug/l  | 99       |
| 95) Naphthalene            | 14.52 | 128  | 51439    | 19.59 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 33322    | 19.94 | ug/l  | 99       |

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

