

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050720\  
 Data File : VD065706.D  
 Acq On : 07 May 2020 12:01  
 Operator : VA/SY  
 Sample : VD0507SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0507SBS01

Quant Time: May 08 07:39:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050620S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 17:01:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 423649   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 636237   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 571835   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 279273   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 195682   | 46.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.22%  |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 200337   | 50.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.76% |      |
| 50) Toluene-d8            | 10.34  | 98  | 765633   | 50.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.28% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 263314   | 48.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.28%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 58156  | 17.502  | ug/l   | 100    |
| 3) Chloromethane              | 2.21 | 50  | 84888  | 20.256  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.34 | 62  | 86878  | 20.460  | ug/l   | 97     |
| 5) Bromomethane               | 2.75 | 94  | 57067  | 21.295  | ug/l   | 96     |
| 6) Chloroethane               | 2.91 | 64  | 57133  | 20.947  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 129092 | 19.059  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.71 | 74  | 41033  | 19.337  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 80651  | 19.616  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 73885  | 18.320  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 40047  | 106.540 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 78407  | 19.403  | ug/l   | 89     |
| 13) Acrolein                  | 3.92 | 56  | 37879  | 108.634 | ug/l   | 97     |
| 14) Allyl chloride            | 4.71 | 41  | 145083 | 18.010  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.43 | 53  | 94541  | 94.765  | ug/l   | 97     |
| 16) Acetone                   | 4.16 | 43  | 85066  | 93.891  | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.40 | 76  | 253969 | 19.113  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 43933  | 19.502  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 196422 | 20.047  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.96 | 84  | 89784  | 19.672  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 89296  | 19.303  | ug/l   | 95     |
| 22) Diisopropyl ether         | 6.36 | 45  | 285085 | 19.030  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.31 | 43  | 867140 | 95.838  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 155540 | 18.953  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 128777 | 95.823  | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 142234 | 19.250  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 99308  | 19.784  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.54 | 49  | 63458  | 18.540  | ug/l   | 93     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 84651  | 97.728  | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83  | 153255 | 19.407  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 153084 | 18.028  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 139457 | 19.050  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 125285 | 19.828  | ug/l   | 97     |
| 37) Ethyl Acetate             | 7.30 | 43  | 59079  | 19.418  | ug/l # | 96     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 127069 | 20.283  | ug/l   | 99     |

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Quant Time: May 08 07:39:00 2020  
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 Quant Title : SW846 8260  
 QLast Update : Wed May 06 17:01:16 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 159895   | 20.156  | ug/l   | 98       |
| 40) Benzene                    | 8.36  | 78   | 340817   | 19.750  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 37384    | 21.303  | ug/l   | 88       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 101390   | 20.419  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 119654   | 19.667  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 98321    | 20.675  | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 87366    | 19.577  | ug/l # | 89       |
| 46) Dibromomethane             | 9.48  | 93   | 46594    | 20.815  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.67  | 83   | 122029   | 20.385  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.46  | 41   | 58238    | 19.117  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 11828    | 431.057 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 296079   | 100.975 | ug/l   | 97       |
| 52) Toluene                    | 10.41 | 92   | 223550   | 20.485  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 123521   | 20.372  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 145579   | 20.380  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 64935    | 21.518  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 90558    | 20.783  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 114097   | 21.030  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 202061   | 101.013 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.99 | 43   | 207164   | 102.721 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 83920    | 20.701  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 62670    | 20.640  | ug/l   | 95       |
| 64) Tetrachloroethene          | 10.88 | 164  | 84582    | 20.784  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.67 | 112  | 234492   | 20.353  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 88329    | 20.563  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.75 | 91   | 431020   | 20.054  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 328031   | 40.939  | ug/l   | 96       |
| 69) o-Xylene                   | 12.18 | 106  | 153937   | 20.589  | ug/l   | 96       |
| 70) Styrene                    | 12.20 | 104  | 266305   | 20.716  | ug/l   | 98       |
| 71) Bromoform                  | 12.37 | 173  | 52094    | 21.553  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 419624   | 19.831  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 114249   | 18.913  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 72235    | 20.358  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 47677m   | 20.213  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 101636   | 20.946  | ug/l   | 92       |
| 78) n-propylbenzene            | 12.83 | 91   | 494466   | 19.846  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 275123   | 19.544  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 346476   | 19.944  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 26097    | 19.585  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 288748   | 19.602  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 299895   | 20.281  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 341239   | 19.719  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 412423   | 19.883  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 383519   | 20.290  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 186810   | 20.484  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 185967   | 20.668  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 366777   | 20.028  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 72218    | 19.182  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 163723   | 20.805  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 11770    | 19.734  | ug/l   | 87       |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0507SBSD01

Quant Time: May 08 07:39:00 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050620S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 17:01:16 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.18 | 180  | 125668   | 21.284 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 72007    | 21.044 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 214537   | 20.670 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 108422   | 21.588 | ug/l  | 100      |

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

