

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050619\  
 Data File : VD062131.D  
 Acq On : 6 May 2019 15:26  
 Operator : FY/SY  
 Sample : VD0506SBS01  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0506SBS01

Quant Time: May 07 05:09:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 02 07:55:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 531766   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 853539   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 787048   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 349802   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 178701   | 42.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.88% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 263464   | 44.63 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 89.26% |          |
| 50) Toluene-d8              | 10.41 | 98   | 573602   | 40.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.68% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 269519   | 47.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.68% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 4) Vinyl Chloride             | 1.84 | 62   | 6877     | 1.880   | ug/l   | 97     |
| 5) Bromomethane               | 2.14 | 94   | 6516     | 5.322   | ug/l   | 97     |
| 6) Chloroethane               | 2.25 | 64   | 7773     | 5.879   | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 47210    | 8.536   | ug/l   | 98     |
| 8) Diethyl Ether              | 2.87 | 74   | 18957    | 12.789  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.14 | 101  | 67880    | 13.324  | ug/l   | 97     |
| 10) Methyl Iodide             | 3.30 | 142  | 45770    | 10.685  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.07 | 59   | 24041    | 102.237 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 3.12 | 96   | 45149    | 10.416  | ug/l   | 94     |
| 13) Acrolein                  | 3.04 | 56   | 15547    | 63.722  | ug/l   | 98     |
| 14) Allyl chloride            | 3.62 | 41   | 75063    | 12.682  | ug/l   | 95     |
| 15) Acrylonitrile             | 4.19 | 53   | 64128    | 88.070  | ug/l   | 87     |
| 16) Acetone                   | 3.21 | 43   | 82181    | 82.699  | ug/l   | 97     |
| 17) Carbon Disulfide          | 3.37 | 76   | 57889    | 4.622   | ug/l # | 94     |
| 18) Methyl Acetate            | 3.64 | 43   | 30462    | 15.406  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.23 | 73   | 144380   | 16.788  | ug/l   | 95     |
| 20) Methylene Chloride        | 3.81 | 84   | 71191    | 12.312  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 4.21 | 96   | 63314    | 12.733  | ug/l   | 99     |
| 22) Diisopropyl ether         | 5.11 | 45   | 212231   | 15.358  | ug/l   | 97     |
| 23) Vinyl Acetate             | 5.04 | 43   | 565013   | 78.515  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 4.98 | 63   | 119449   | 14.302  | ug/l   | 98     |
| 25) 2-Butanone                | 6.06 | 43   | 100730   | 83.605  | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 6.02 | 77   | 114211   | 15.675  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 6.03 | 96   | 81318    | 14.376  | ug/l   | 96     |
| 28) Bromochloromethane        | 6.43 | 49   | 59798    | 18.712  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 6.45 | 42   | 45477    | 76.605  | ug/l   | 94     |
| 30) Chloroform                | 6.66 | 83   | 144802   | 15.264  | ug/l   | 98     |
| 31) Cyclohexane               | 6.95 | 56   | 62764    | 10.124  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 6.87 | 97   | 124844   | 15.125  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.14 | 75   | 94595    | 14.225  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.18 | 43   | 46329    | 16.349  | ug/l # | 91     |
| 38) Carbon Tetrachloride      | 7.10 | 117  | 127361   | 15.114  | ug/l   | 92     |
| 39) Methylcyclohexane         | 8.86 | 83   | 86686    | 13.212  | ug/l   | 96     |
| 40) Benzene                   | 7.45 | 78   | 227794   | 13.837  | ug/l   | 99     |

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 ALS Vial : 9 Sample Multiplier: 1

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 ClientSampleId :  
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 02 07:55:52 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 41) Methacrylonitrile          | 6.43  | 41   | 55374    | 16.747  | ug/l # | 94       |
| 42) 1,2-Dichloroethane         | 7.57  | 62   | 93680    | 16.759  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 9.24  | 43   | 66709    | 16.111  | ug/l   | 96       |
| 44) Trichloroethene            | 8.53  | 130  | 92917    | 14.558  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 8.93  | 63   | 64424    | 15.425  | ug/l   | 99       |
| 46) Dibromomethane             | 9.06  | 93   | 47551    | 15.823  | ug/l # | 85       |
| 47) Bromodichloromethane       | 9.37  | 83   | 114710   | 16.154  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.12  | 41   | 40084    | 16.967  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.07  | 88   | 9683     | 380.176 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone       | 10.29 | 43   | 218127   | 86.141  | ug/l   | 98       |
| 52) Toluene                    | 10.51 | 92   | 168348   | 16.038  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.91 | 75   | 100812   | 16.914  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.04 | 75   | 124885   | 17.227  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 11.19 | 97   | 65122    | 18.479  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 63795    | 16.345  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 89624    | 16.466  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.85  | 63   | 188472   | 103.861 | ug/l   | 95       |
| 59) 2-Hexanone                 | 11.53 | 43   | 171299   | 90.181  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.68 | 129  | 114049   | 19.559  | ug/l   | 93       |
| 61) 1,2-Dibromoethane          | 11.80 | 107  | 76482    | 18.295  | ug/l   | 96       |
| 64) Tetrachloroethene          | 11.26 | 164  | 81379    | 14.495  | ug/l   | 95       |
| 65) Chlorobenzene              | 12.40 | 112  | 233919   | 15.728  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.52 | 131  | 100230   | 15.888  | ug/l   | 99       |
| 67) Ethyl Benzene              | 12.53 | 91   | 380068   | 15.657  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.66 | 106  | 257361   | 29.334  | ug/l   | 96       |
| 69) o-Xylene                   | 13.05 | 106  | 141486   | 17.625  | ug/l   | 98       |
| 70) Styrene                    | 13.07 | 104  | 227803   | 16.435  | ug/l   | 98       |
| 71) Bromoform                  | 13.23 | 173  | 65122    | 18.107  | ug/l # | 99       |
| 73) Isopropylbenzene           | 13.40 | 105  | 418813   | 17.948  | ug/l   | 100      |
| 74) N-amyl acetate             | 13.26 | 43   | 101828   | 16.945  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 81122    | 17.741  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 70783    | 15.935  | ug/l   | 95       |
| 77) Bromobenzene               | 13.67 | 156  | 116304   | 17.375  | ug/l   | 95       |
| 78) n-propylbenzene            | 13.78 | 91   | 474113   | 17.749  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 242746   | 15.003  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 338123   | 18.173  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 21921    | 16.285  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 308936   | 17.338  | ug/l   | 90       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 388307   | 18.016  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 332151   | 18.696  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 420680   | 18.063  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 322880   | 15.491  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 214077   | 18.263  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 197809   | 18.044  | ug/l   | 96       |
| 89) n-Butylbenzene             | 14.80 | 91   | 350016   | 18.705  | ug/l   | 97       |
| 90) Hexachloroethane           | 15.01 | 117  | 104458   | 18.534  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 182837   | 18.909  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 12183    | 19.720  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene     | 15.94 | 180  | 103621   | 19.861  | ug/l   | 91       |
| 94) Hexachlorobutadiene        | 16.04 | 225  | 72253    | 18.714  | ug/l   | 97       |

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Sample : VD0506SBSD01  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0506SBSD01

Quant Time: May 07 05:09:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 02 07:55:52 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 95) Naphthalene            | 16.12 | 128  | 170148   | 20.198 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 70931    | 23.962 | ug/l  | 95       |

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

