

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\  
 Data File : VD063573.D  
 Acq On : 14 Aug 2019 14:55  
 Operator : JC/SY  
 Sample : VD0814SBS01  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0814SBS01

Quant Time: Aug 15 11:58:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 1081557  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 1483300  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 1266099  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 643225   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 641561   | 55.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.98% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 736440   | 58.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.90% |          |
| 50) Toluene-d8              | 10.42 | 98   | 1610260  | 58.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.26% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 658174   | 52.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.74% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 274123   | 20.949  | ug/l   | 98     |
| 3) Chloromethane              | 1.75 | 50   | 222995   | 21.812  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.85 | 62   | 217469   | 21.428  | ug/l   | 98     |
| 5) Bromomethane               | 2.15 | 94   | 87517    | 18.275  | ug/l   | 95     |
| 6) Chloroethane               | 2.26 | 64   | 92539    | 19.939  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 2.53 | 101  | 419385   | 21.067  | ug/l   | 96     |
| 8) Diethyl Ether              | 2.88 | 74   | 62469    | 22.226  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.15 | 101  | 260889   | 22.195  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.30 | 142  | 290299   | 17.454  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 4.08 | 59   | 57346    | 113.946 | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 3.13 | 96   | 184293   | 21.088  | ug/l   | 95     |
| 13) Acrolein                  | 3.04 | 56   | 43226    | 87.258  | ug/l   | 98     |
| 14) Allyl chloride            | 3.62 | 41   | 277228   | 21.101  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.20 | 53   | 144942   | 108.729 | ug/l   | 96     |
| 16) Acetone                   | 3.23 | 43   | 234534   | 99.796  | ug/l   | 93     |
| 17) Carbon Disulfide          | 3.37 | 76   | 570217   | 20.674  | ug/l   | 97     |
| 18) Methyl Acetate            | 3.65 | 43   | 96447    | 21.666  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73   | 409663   | 23.439  | ug/l # | 90     |
| 20) Methylene Chloride        | 3.82 | 84   | 210186   | 20.683  | ug/l # | 93     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96   | 203298   | 22.106  | ug/l   | 99     |
| 22) Diisopropyl ether         | 5.13 | 45   | 557901   | 20.579  | ug/l   | 93     |
| 23) Vinyl Acetate             | 5.07 | 43   | 1703494  | 108.085 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.99 | 63   | 371998   | 22.123  | ug/l # | 96     |
| 25) 2-Butanone                | 6.08 | 43   | 228421   | 98.412  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 6.03 | 77   | 361386   | 21.578  | ug/l   | 93     |
| 27) cis-1,2-Dichloroethene    | 6.05 | 96   | 219678   | 21.832  | ug/l   | 97     |
| 28) Bromochloromethane        | 6.44 | 49   | 137683   | 20.204  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 6.46 | 42   | 114637   | 105.992 | ug/l   | 97     |
| 30) Chloroform                | 6.67 | 83   | 449496   | 21.507  | ug/l   | 97     |
| 31) Cyclohexane               | 6.97 | 56   | 216048   | 20.697  | ug/l # | 88     |
| 32) 1,1,1-Trichloroethane     | 6.88 | 97   | 417158   | 20.865  | ug/l   | 93     |
| 36) 1,1-Dichloropropene       | 7.15 | 75   | 295333   | 22.523  | ug/l   | 95     |
| 37) Ethyl Acetate             | 6.19 | 43   | 120387   | 21.910  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 7.12 | 117  | 420833   | 21.295  | ug/l   | 96     |

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 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.87  | 83   | 225342   | 20.210  | ug/l   | 90       |
| 40) Benzene                    | 7.46  | 78   | 620906   | 21.517  | ug/l   | 98       |
| 41) Methacrylonitrile          | 6.46  | 41   | 157664   | 22.789  | ug/l # | 92       |
| 42) 1,2-Dichloroethane         | 7.59  | 62   | 319496   | 22.019  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.25  | 43   | 153479   | 20.856  | ug/l # | 94       |
| 44) Trichloroethene            | 8.55  | 130  | 242107   | 21.951  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 8.94  | 63   | 151396   | 22.529  | ug/l # | 87       |
| 46) Dibromomethane             | 9.07  | 93   | 120481   | 20.994  | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.39  | 83   | 301762   | 20.500  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.13  | 41   | 111024   | 22.246  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.10  | 88   | 19749    | 456.911 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone       | 10.31 | 43   | 531831   | 105.614 | ug/l   | 100      |
| 52) Toluene                    | 10.52 | 92   | 397647   | 21.395  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 10.92 | 75   | 266630   | 22.195  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.05 | 75   | 283294   | 20.914  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 137091   | 21.836  | ug/l   | 93       |
| 56) Ethyl methacrylate         | 11.05 | 69   | 142241   | 20.873  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 11.42 | 76   | 198261   | 20.891  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 390130   | 108.442 | ug/l   | 96       |
| 59) 2-Hexanone                 | 11.54 | 43   | 395977   | 108.071 | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.69 | 129  | 239621   | 20.974  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 166297   | 21.880  | ug/l   | 95       |
| 64) Tetrachloroethene          | 11.27 | 164  | 205622   | 21.038  | ug/l   | 96       |
| 65) Chlorobenzene              | 12.41 | 112  | 508198   | 21.416  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.52 | 131  | 221615   | 21.221  | ug/l   | 93       |
| 67) Ethyl Benzene              | 12.53 | 91   | 894403   | 21.677  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.68 | 106  | 613520   | 42.323  | ug/l   | 91       |
| 69) o-Xylene                   | 13.06 | 106  | 287186   | 20.584  | ug/l   | 92       |
| 70) Styrene                    | 13.08 | 104  | 517487   | 20.852  | ug/l   | 96       |
| 71) Bromoform                  | 13.24 | 173  | 143773   | 20.077  | ug/l   | 95       |
| 73) Isopropylbenzene           | 13.41 | 105  | 898370   | 21.958  | ug/l   | 97       |
| 74) N-amyl acetate             | 13.28 | 43   | 224402   | 21.850  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 154410   | 22.738  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 145500   | 19.710  | ug/l   | 99       |
| 77) Bromobenzene               | 13.68 | 156  | 255786   | 22.876  | ug/l   | 83       |
| 78) n-propylbenzene            | 13.78 | 91   | 971446   | 20.294  | ug/l   | 95       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 643592   | 23.318  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 768203   | 21.490  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 40868    | 20.598  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 13.96 | 91   | 734986   | 22.145  | ug/l   | 91       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 847025   | 22.502  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 758232   | 22.924  | ug/l   | 91       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 933216   | 23.344  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 774849   | 20.272  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 429126   | 21.217  | ug/l   | 93       |
| 88) 1,4-Dichlorobenzene        | 14.55 | 146  | 440924   | 22.723  | ug/l   | 97       |
| 89) n-Butylbenzene             | 14.80 | 91   | 810863   | 23.244  | ug/l   | 94       |
| 90) Hexachloroethane           | 15.01 | 117  | 204597   | 21.296  | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 400662   | 23.349  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 23406    | 18.305  | ug/l   | 82       |

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ALS Vial : 13 Sample Multiplier: 1

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MSVOA\_D  
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VD0814SBS01

Quant Time: Aug 15 11:58:50 2019  
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Quant Title : SW846 8260  
QLast Update : Sat Aug 10 06:42:47 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.95 | 180  | 281652   | 22.306 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 217851   | 22.638 | ug/l  | 95       |
| 95) Naphthalene            | 16.13 | 128  | 418898   | 21.891 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 213833   | 20.967 | ug/l  | 95       |

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

