

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\  
 Data File : VD061929.D  
 Acq On : 20 Apr 2019 4:00  
 Operator : VA/AP  
 Sample : VD9419SBS02  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD9419SBS02

Manual Integrations  
 APPROVED

MMDadoda  
 4/23/2019 6:56:26 AM

Quant Time: Apr 20 05:29:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 480178   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 788089   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 687370   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 310218   | 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   | 247629     | 61.53   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 123.06% |       |          |
| 35) Dibromofluoromethane    | 6.94  | 113  | 337200     | 56.63   | ug/l  | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery = | 113.26% |       |          |
| 50) Toluene-d8              | 10.42 | 98   | 787887     | 55.85   | ug/l  | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery = | 111.70% |       |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 316264     | 55.31   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 110.62% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 84964    | 18.129  | ug/l  | 99     |
| 3) Chloromethane              | 1.75 | 50   | 79489    | 21.282  | ug/l  | 94     |
| 4) Vinyl Chloride             | 1.85 | 62   | 68179    | 18.393  | ug/l  | 98     |
| 5) Bromomethane               | 2.14 | 94   | 17325    | 18.569  | ug/l  | 91     |
| 6) Chloroethane               | 2.26 | 64   | 21010    | 16.614  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 2.53 | 101  | 109387   | 18.195  | ug/l  | 95     |
| 8) Diethyl Ether              | 2.88 | 74   | 27547    | 17.484  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101  | 95128    | 17.746  | ug/l  | 97     |
| 10) Methyl Iodide             | 3.31 | 142  | 127720   | 17.390  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 4.07 | 59   | 27991    | 117.944 | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 3.13 | 96   | 79770    | 17.701  | ug/l  | 95     |
| 13) Acrolein                  | 3.04 | 56   | 16212    | 70.563  | ug/l  | 93     |
| 14) Allyl chloride            | 3.62 | 41   | 112947   | 18.387  | ug/l  | 97     |
| 15) Acrylonitrile             | 4.20 | 53   | 79634    | 106.883 | ug/l  | 100    |
| 16) Acetone                   | 3.22 | 43   | 90345    | 91.087  | ug/l  | 100    |
| 17) Carbon Disulfide          | 3.38 | 76   | 225352   | 15.476  | ug/l  | 97     |
| 18) Methyl Acetate            | 3.64 | 43   | 45585    | 22.930  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73   | 178260   | 21.196  | ug/l  | 98     |
| 20) Methylene Chloride        | 3.83 | 84   | 115041   | 20.641  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 4.23 | 96   | 87947    | 17.758  | ug/l  | 99     |
| 22) Diisopropyl ether         | 5.12 | 45   | 302323   | 23.024  | ug/l  | 96     |
| 23) Vinyl Acetate             | 5.07 | 43   | 824904   | 117.522 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.00 | 63   | 172700   | 21.693  | ug/l  | 99     |
| 25) 2-Butanone                | 6.07 | 43   | 132376   | 117.231 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 6.03 | 77   | 135611   | 19.708  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 6.05 | 96   | 119058   | 22.176  | ug/l  | 94     |
| 28) Bromochloromethane        | 6.44 | 49   | 73088    | 24.170  | ug/l  | 89     |
| 29) Tetrahydrofuran           | 6.46 | 42   | 71453    | 129.904 | ug/l  | 97     |
| 30) Chloroform                | 6.67 | 83   | 204764   | 23.060  | ug/l  | 99     |
| 31) Cyclohexane               | 6.97 | 56   | 112953   | 18.534  | ug/l  | 92     |
| 32) 1,1,1-Trichloroethane     | 6.89 | 97   | 159760   | 20.296  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 7.16 | 75   | 131794   | 20.465  | ug/l  | 97     |
| 37) Ethyl Acetate             | 6.20 | 43   | 62687    | 22.744  | ug/l  | 96     |
| 38) Carbon Tetrachloride      | 7.12 | 117  | 159752m  | 19.645  | ug/l  |        |

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 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.88  | 83   | 128651   | 19.238  | ug/l   | 98       |
| 40) Benzene                    | 7.47  | 78   | 350556   | 22.674  | ug/l   | 97       |
| 41) Methacrylonitrile          | 6.45  | 41   | 80450    | 24.695  | ug/l # | 96       |
| 42) 1,2-Dichloroethane         | 7.59  | 62   | 121153   | 22.500  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.25  | 43   | 103490   | 26.682  | ug/l   | 99       |
| 44) Trichloroethene            | 8.55  | 130  | 131507   | 22.095  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 8.95  | 63   | 85901    | 21.330  | ug/l   | 98       |
| 46) Dibromomethane             | 9.07  | 93   | 66925    | 23.323  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.39  | 83   | 139723   | 21.106  | ug/l   | 93       |
| 48) Methyl methacrylate        | 9.13  | 41   | 58428    | 25.627  | ug/l # | 85       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 11498    | 461.394 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.31 | 43   | 297377   | 125.372 | ug/l   | 100      |
| 52) Toluene                    | 10.52 | 92   | 210016   | 21.197  | ug/l   | 92       |
| 53) t-1,3-Dichloropropene      | 10.92 | 75   | 131391   | 22.026  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.05 | 75   | 143776   | 20.533  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 75602    | 22.645  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 11.05 | 69   | 85474    | 23.327  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 11.42 | 76   | 114817   | 22.876  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 231206   | 132.659 | ug/l   | 100      |
| 59) 2-Hexanone                 | 11.54 | 43   | 226285   | 128.446 | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.70 | 129  | 127337   | 23.310  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.82 | 107  | 93019    | 22.659  | ug/l   | 98       |
| 64) Tetrachloroethene          | 11.27 | 164  | 109345   | 21.211  | ug/l   | 95       |
| 65) Chlorobenzene              | 12.41 | 112  | 279392   | 21.825  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.52 | 131  | 114908   | 21.420  | ug/l   | 98       |
| 67) Ethyl Benzene              | 12.53 | 91   | 430763   | 21.013  | ug/l   | 97       |
| 68) m/p-Xylenes                | 12.68 | 106  | 350981   | 45.579  | ug/l   | 98       |
| 69) o-Xylene                   | 13.06 | 106  | 150141   | 20.744  | ug/l   | 97       |
| 70) Styrene                    | 13.08 | 104  | 262880   | 21.106  | ug/l   | 100      |
| 71) Bromoform                  | 13.25 | 173  | 74591    | 23.425  | ug/l # | 98       |
| 73) Isopropylbenzene           | 13.41 | 105  | 399369   | 19.851  | ug/l   | 99       |
| 74) N-amyl acetate             | 13.28 | 43   | 114591   | 21.181  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 96908    | 24.368  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 92271    | 22.649  | ug/l   | 97       |
| 77) Bromobenzene               | 13.68 | 156  | 130109   | 22.766  | ug/l   | 98       |
| 78) n-propylbenzene            | 13.78 | 91   | 503851   | 21.676  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 286525   | 21.101  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 13.95 | 105  | 369678   | 23.158  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 25913    | 21.642  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 13.96 | 91   | 349622   | 22.495  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 14.20 | 119  | 400405   | 21.362  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 362254   | 22.575  | ug/l   | 94       |
| 85) sec-Butylbenzene           | 14.38 | 105  | 447503   | 23.095  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 350477   | 19.331  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 14.47 | 146  | 217336   | 21.784  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 14.55 | 146  | 225174   | 22.832  | ug/l   | 97       |
| 89) n-Butylbenzene             | 14.80 | 91   | 328620   | 20.477  | ug/l   | 94       |
| 90) Hexachloroethane           | 15.02 | 117  | 105036   | 21.256  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 185432   | 22.189  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.39 | 75   | 13525    | 27.452  | ug/l   | 90       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.95 | 180  | 106488   | 23.200 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 69210    | 20.807 | ug/l  | 97       |
| 95) Naphthalene            | 16.13 | 128  | 204937   | 29.130 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 66467    | 25.411 | ug/l  | 95       |

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

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