

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012221\  
 Data File : VD068150.D  
 Acq On : 22 Jan 2021 12:48  
 Operator : VA/SY  
 Sample : VD0122SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0122SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/26/2021 10:42:30 AM

Quant Time: Jan 22 23:57:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 395007     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 697164     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 630585     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 284681     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 186513     | 49.36  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 98.72% |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 191413     | 49.66  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.32% |        |          |
| 50) Toluene-d8               | 10.344         | 98   | 716449     | 46.47  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 92.94% |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 258926     | 46.64  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 93.28% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 96699      | 20.61  | ug/l   | 100      |
| 3) Chloromethane             | 2.209          | 50   | 114329     | 22.63  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.350          | 62   | 127924     | 22.76  | ug/l   | 100      |
| 5) Bromomethane              | 2.762          | 94   | 88124      | 22.86  | ug/l   | 99       |
| 6) Chloroethane              | 2.920          | 64   | 80246      | 23.37  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 151726     | 20.57  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.709          | 74   | 45114      | 20.77  | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 87962      | 20.44  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.309          | 142  | 86328      | 19.92  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 42091      | 79.81  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 90120      | 20.82  | ug/l   | 95       |
| 13) Acrolein                 | 3.926          | 56   | 30890      | 103.74 | ug/l   | 98       |
| 14) Allyl chloride           | 4.720          | 41   | 135447     | 21.52  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.426          | 53   | 92531      | 107.54 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 71031      | 105.28 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.414          | 76   | 287155     | 20.60  | ug/l   | 95       |
| 18) Methyl Acetate           | 4.720          | 43   | 40183      | 22.95  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 213136     | 21.30  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.967          | 84   | 109124     | 20.83  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.485          | 96   | 106796     | 21.50  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.367          | 45   | 274469     | 21.61  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.308          | 43   | 723532     | 106.86 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.273          | 63   | 178379     | 21.67  | ug/l   | 96       |
| 25) 2-Butanone               | 7.214          | 43   | 103398     | 101.78 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 157961     | 20.28  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 118204     | 21.91  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.550          | 49   | 63480      | 22.64  | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 70910      | 107.67 | ug/l   | 91       |
| 30) Chloroform               | 7.714          | 83   | 179447     | 21.58  | ug/l   | 95       |
| 31) Cyclohexane              | 7.985          | 56   | 167491     | 20.47  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 7.908          | 97   | 157662     | 21.04  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 140966     | 20.05  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.297          | 43   | 50080      | 20.14  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.102          | 117  | 132759     | 20.17  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.355          | 83   | 175307     | 19.07  | ug/l   | 95       |
| 40) Benzene                  | 8.355          | 78   | 412806     | 21.00  | ug/l   | 96       |

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 Sample : VD0122SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0122SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/26/2021 10:42:30 AM

Quant Time: Jan 22 23:57:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 32682    | 21.78  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 111911   | 21.31  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 105573   | 20.37  | ug/l   | 95       |
| 44) Trichloroethene           | 9.114  | 130  | 110353   | 20.44  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 98879    | 20.54  | ug/l   | 99       |
| 46) Dibromomethane            | 9.479  | 93   | 51194    | 20.99  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.667  | 83   | 139229   | 21.15  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.461  | 41   | 47578    | 18.44  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 11889    | 415.93 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 249939   | 103.75 | ug/l   | 96       |
| 52) Toluene                   | 10.402 | 92   | 262103   | 20.46  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.626 | 75   | 138407   | 20.78  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 164207   | 20.71  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 70318    | 20.34  | ug/l   | 90       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 93620    | 20.33  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.949 | 76   | 127376   | 20.88  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 236625   | 111.36 | ug/l   | 91       |
| 59) 2-Hexanone                | 10.985 | 43   | 165388   | 99.04  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.143 | 129  | 87258    | 20.13  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 69174    | 20.28  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.879 | 164  | 86631    | 19.49  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.673 | 112  | 274581   | 20.49  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 95919    | 20.35  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.743 | 91   | 505910   | 20.39  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.855 | 106  | 382714   | 40.86  | ug/l   | 100      |
| 69) o-Xylene                  | 12.185 | 106  | 178517   | 20.52  | ug/l   | 97       |
| 70) Styrene                   | 12.196 | 104  | 301239   | 20.29  | ug/l   | 97       |
| 71) Bromoform                 | 12.361 | 173  | 47503    | 19.89  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.479 | 105  | 477185   | 20.14  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 97056    | 19.71  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 76625    | 20.34  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 48752m   | 17.71  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 102298   | 20.14  | ug/l   | 85       |
| 78) n-propylbenzene           | 12.820 | 91   | 566725   | 20.22  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 318646   | 20.25  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 392018   | 19.87  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 26669    | 19.61  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.008 | 91   | 332023   | 20.29  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.226 | 119  | 337441   | 20.19  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 390529   | 19.94  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 465857   | 19.92  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 422721   | 19.88  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 197119   | 20.19  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.596 | 146  | 195138   | 20.28  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.843 | 91   | 402512   | 19.72  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.108 | 117  | 77160    | 20.08  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.890 | 146  | 172495   | 20.62  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 12227    | 19.83  | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.161 | 180  | 114829   | 20.03  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.267 | 225  | 60575    | 19.06  | ug/l   | 98       |
| 95) Naphthalene               | 15.402 | 128  | 213570   | 19.87  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.596 | 180  | 94456    | 19.53  | ug/l   | 99       |

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 Acq On : 22 Jan 2021 12:48  
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 Sample : VD0122SBSD01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0122SBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 1/26/2021 10:42:30 AM

Quant Time: Jan 22 23:57:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

