

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092121\  
 Data File : VD070398.D  
 Acq On : 21 Sep 2021 12:22  
 Operator : VA/SY  
 Sample : VD0921SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0921SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2021 11:04:02 AM

Quant Time: Sep 22 01:46:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 418605     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 764163     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 720530     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 339685     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 267438     | 49.756   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.520%  |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 268509     | 49.364   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.720%  |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 1024541    | 51.878   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 103.760% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 353860     | 51.269   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 102.540% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 95769      | 20.233   | ug/l   | 99       |
| 3) Chloromethane             | 2.209          | 50   | 121923     | 19.024   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.344          | 62   | 132164     | 20.067   | ug/l   | 99       |
| 5) Bromomethane              | 2.756          | 94   | 88930      | 19.010   | ug/l   | 99       |
| 6) Chloroethane              | 2.914          | 64   | 80325      | 17.825   | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 175564     | 20.153   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.709          | 74   | 45922      | 19.069   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 107946     | 19.949   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.303          | 142  | 82657      | 16.657   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.179          | 59   | 60006      | 98.737   | ug/l # | 100      |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 94993      | 19.492   | ug/l   | 98       |
| 13) Acrolein                 | 3.920          | 56   | 19226      | 71.954   | ug/l   | 91       |
| 14) Allyl chloride           | 4.714          | 41   | 136917     | 19.119   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.420          | 53   | 105421     | 91.878   | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 86500      | 90.140   | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.403          | 76   | 336733     | 18.727   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.714          | 43   | 52941      | 19.168   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 202489     | 19.226   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.961          | 84   | 146515     | 20.168   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 113368     | 19.542   | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.361          | 45   | 301671     | 19.681   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.303          | 43   | 643971     | 90.688   | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 203684     | 18.781   | ug/l   | 97       |
| 25) 2-Butanone               | 7.208          | 43   | 115167     | 90.157   | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 172669     | 19.697   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 120679     | 19.365   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.544          | 49   | 81406      | 18.918   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 73273      | 89.356   | ug/l   | 95       |
| 30) Chloroform               | 7.708          | 83   | 211591     | 19.030   | ug/l   | 97       |
| 31) Cyclohexane              | 7.985          | 56   | 174789     | 18.878   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 183121     | 19.567   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 153820     | 18.832   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 58389      | 19.117   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 159609     | 19.758   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.349          | 83   | 170400     | 18.674   | ug/l   | 98       |
| 40) Benzene                  | 8.350          | 78   | 470861     | 19.672   | ug/l   | 98       |

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 ALS Vial : 4 Sample Multiplier: 1

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Manual Integrations  
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MMDadoda  
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Quant Time: Sep 22 01:46:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 27346    | 17.017  | ug/l # | 91       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 124063   | 19.352  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 101582   | 17.988  | ug/l   | 98       |
| 44) Trichloroethene           | 9.108  | 130  | 111903   | 19.561  | ug/l   | 81       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 118870   | 18.929  | ug/l   | 97       |
| 46) Dibromomethane            | 9.473  | 93   | 60299    | 18.646  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 157045   | 19.036  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.449  | 41   | 49331    | 18.919  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 13023    | 402.069 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 267604   | 91.574  | ug/l   | 98       |
| 52) Toluene                   | 10.396 | 92   | 288976   | 19.981  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 140239   | 19.761  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 170544   | 19.746  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 85220    | 19.156  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 86384    | 17.787  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 143896   | 18.999  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 237859   | 101.618 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 175907   | 90.221  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.132 | 129  | 99399    | 19.199  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 78886    | 19.281  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 88267    | 20.121  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.667 | 112  | 298445   | 19.994  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 108085   | 19.771  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 505298   | 19.629  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.843 | 106  | 404714   | 40.706  | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 179761   | 20.182  | ug/l   | 97       |
| 70) Styrene                   | 12.190 | 104  | 317320   | 20.394  | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 52414    | 19.399  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.473 | 105  | 470726   | 19.760  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 94249    | 18.158  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 96662    | 18.946  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 73482m   | 21.386  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 107334   | 19.530  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.808 | 91   | 628201   | 20.318  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 356904   | 19.804  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 410523   | 19.968  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 26799    | 19.543  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 380175   | 19.996  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 331969   | 20.133  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 414437   | 20.470  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 521483   | 19.896  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 414877   | 19.701  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 230619   | 20.155  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 222826   | 19.401  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.832 | 91   | 404372   | 19.259  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 92966    | 19.285  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 193588   | 19.175  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 14164    | 18.536  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 102197   | 18.745  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 65477    | 19.580  | ug/l   | 96       |
| 95) Naphthalene               | 15.384 | 128  | 173151   | 17.476  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 87512    | 18.193  | ug/l   | 99       |

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ALS Vial : 4 Sample Multiplier: 1

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9/23/2021 11:04:02 AM

Quant Time: Sep 22 01:46:12 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

