

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122821\  
 Data File : VD071516.D  
 Acq On : 28 Dec 2021 21:19  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Dec 28 21:28:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 369827   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 624413   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 566559   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 282903   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 265960   | 54.149   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 108.300% |      |
| 35) Dibromofluoromethane    | 7.914  | 113   | 236284   | 56.304   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 112.600% |      |
| 50) Toluene-d8              | 10.338 | 98    | 831251   | 52.416   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 104.840% |      |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 306609   | 54.408   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 108.820% |      |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.991 | 85  | 204158  | 52.683  | ug/l   | 98  |
| 3) Chloromethane             | 2.209 | 50  | 276498  | 55.722  | ug/l   | 98  |
| 4) Vinyl Chloride            | 2.350 | 62  | 282457  | 47.501  | ug/l   | 98  |
| 5) Bromomethane              | 2.773 | 94  | 184967  | 44.464  | ug/l   | 96  |
| 6) Chloroethane              | 2.926 | 64  | 185244  | 46.941  | ug/l   | 95  |
| 7) Trichlorofluoromethane    | 3.279 | 101 | 407414  | 55.967  | ug/l   | 97  |
| 8) Diethyl Ether             | 3.709 | 74  | 119185  | 57.190  | ug/l   | 94  |
| 9) 1,1,2-Trichlorotrifluo... | 4.103 | 101 | 230255  | 54.368  | ug/l   | 96  |
| 10) Methyl Iodide            | 4.303 | 142 | 201522  | 48.930  | ug/l   | 93  |
| 11) Tert butyl alcohol       | 5.220 | 59  | 72270   | 181.613 | ug/l   | 98  |
| 12) 1,1-Dichloroethene       | 4.073 | 96  | 204055  | 52.960  | ug/l # | 78  |
| 13) Acrolein                 | 3.926 | 56  | 46655   | 196.637 | ug/l   | 100 |
| 14) Allyl chloride           | 4.715 | 41  | 416950  | 57.213  | ug/l # | 79  |
| 15) Acrylonitrile            | 5.420 | 53  | 279166  | 272.010 | ug/l   | 98  |
| 16) Acetone                  | 4.156 | 43  | 325024  | 263.456 | ug/l # | 85  |
| 17) Carbon Disulfide         | 4.415 | 76  | 559313  | 44.553  | ug/l   | 97  |
| 18) Methyl Acetate           | 4.715 | 43  | 203231  | 53.372  | ug/l   | 93  |
| 19) Methyl tert-butyl Ether  | 5.473 | 73  | 558239  | 56.125  | ug/l   | 96  |
| 20) Methylene Chloride       | 4.967 | 84  | 284757  | 62.632  | ug/l # | 84  |
| 21) trans-1,2-Dichloroethene | 5.473 | 96  | 231069  | 51.778  | ug/l # | 84  |
| 22) Diisopropyl ether        | 6.367 | 45  | 858036  | 57.835  | ug/l   | 94  |
| 23) Vinyl Acetate            | 6.303 | 43  | 2108806 | 275.730 | ug/l   | 96  |
| 24) 1,1-Dichloroethane       | 6.267 | 63  | 471056  | 55.384  | ug/l   | 99  |
| 25) 2-Butanone               | 7.214 | 43  | 370510  | 251.433 | ug/l   | 89  |
| 26) 2,2-Dichloropropane      | 7.209 | 77  | 386007  | 55.235  | ug/l   | 94  |
| 27) cis-1,2-Dichloroethene   | 7.209 | 96  | 267996  | 54.293  | ug/l   | 90  |
| 28) Bromochloromethane       | 7.544 | 49  | 179942  | 51.628  | ug/l   | 89  |
| 29) Tetrahydrofuran          | 7.561 | 42  | 225714  | 255.113 | ug/l   | 93  |
| 30) Chloroform               | 7.709 | 83  | 476283  | 55.499  | ug/l   | 95  |
| 31) Cyclohexane              | 7.985 | 56  | 378443  | 45.357  | ug/l   | 94  |
| 32) 1,1,1-Trichloroethane    | 7.903 | 97  | 417203  | 54.815  | ug/l   | 94  |
| 36) 1,1-Dichloropropene      | 8.114 | 75  | 346141  | 51.628  | ug/l   | 97  |
| 37) Ethyl Acetate            | 7.291 | 43  | 161450  | 52.160  | ug/l # | 91  |
| 38) Carbon Tetrachloride     | 8.097 | 117 | 351266  | 53.104  | ug/l   | 98  |
| 39) Methylcyclohexane        | 9.355 | 83  | 380019  | 48.420  | ug/l   | 96  |
| 40) Benzene                  | 8.350 | 78  | 953747  | 52.916  | ug/l   | 96  |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 107340   | 58.384  | ug/l # | 72       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 324210   | 55.163  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 315677   | 51.391  | ug/l # | 89       |
| 44) Trichloroethene           | 9.108  | 130  | 243997   | 51.949  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 247415   | 52.901  | ug/l   | 96       |
| 46) Dibromomethane            | 9.473  | 93   | 132917   | 51.441  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.655  | 83   | 358222   | 54.606  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.450  | 41   | 158329   | 52.087  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 25691    | 879.872 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 798009   | 246.932 | ug/l   | 91       |
| 52) Toluene                   | 10.397 | 92   | 600012   | 52.406  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 312319   | 50.983  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 370621   | 52.356  | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 175175   | 53.411  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 229276   | 53.123  | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 312004   | 51.936  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 537389   | 259.935 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 568482   | 248.862 | ug/l   | 87       |
| 60) Dibromochloromethane      | 11.132 | 129  | 222473   | 53.961  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 171188   | 52.698  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 200045   | 50.810  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.661 | 112  | 626223   | 53.885  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 236857   | 55.789  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1179709  | 54.545  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 884257   | 107.614 | ug/l   | 93       |
| 69) o-Xylene                  | 12.173 | 106  | 424706   | 56.545  | ug/l   | 94       |
| 70) Styrene                   | 12.185 | 104  | 726366   | 55.669  | ug/l   | 95       |
| 71) Bromoform                 | 12.349 | 173  | 121523   | 52.896  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.467 | 105  | 1147007  | 52.589  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.279 | 43   | 290053   | 49.568  | ug/l   | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 193881   | 49.168  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 167269m  | 49.762  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 244997   | 50.480  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.814 | 91   | 1405298  | 51.404  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 797769   | 52.216  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 973395   | 54.108  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 51907    | 43.632  | ug/l # | 72       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 836568   | 52.788  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 820124   | 53.350  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 969732   | 54.465  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1253811  | 53.500  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 1044089  | 53.693  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 497925   | 50.943  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 490791   | 51.210  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.832 | 91   | 1017906  | 53.333  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.096 | 117  | 188183   | 51.086  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 426436   | 51.407  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 32854    | 48.044  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 270139   | 53.440  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 143490   | 52.988  | ug/l   | 98       |
| 95) Naphthalene               | 15.385 | 128  | 510753   | 53.082  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 231794   | 53.015  | ug/l   | 97       |

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QLast Update : Thu Dec 23 08:20:24 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

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