

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022521\  
 Data File : VD068440.D  
 Acq On : 25 Feb 2021 10:20  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Feb 26 00:26:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 13:30:51 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 319393   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.867  | 114  | 546469   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.643 | 117  | 502112   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152  | 234326   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.332  | 65    | 170633   | 52.26    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 104.52% |
| 35) Dibromofluoromethane    | 7.914  | 113   | 175518   | 54.11    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 108.22% |
| 50) Toluene-d8              | 10.338 | 98    | 709034   | 52.74    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 105.48% |
| 62) 4-Bromofluorobenzene    | 12.632 | 95    | 224159   | 51.19    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 102.38% |

|                              |       |     |         |        |           |
|------------------------------|-------|-----|---------|--------|-----------|
| Target Compounds             |       |     |         |        | Qvalue    |
| 2) Dichlorodifluoromethane   | 1.991 | 85  | 124800  | 42.64  | ug/l 96   |
| 3) Chloromethane             | 2.209 | 50  | 159872  | 45.88  | ug/l 100  |
| 4) Vinyl Chloride            | 2.350 | 62  | 191453  | 45.90  | ug/l 100  |
| 5) Bromomethane              | 2.767 | 94  | 128190  | 42.99  | ug/l 100  |
| 6) Chloroethane              | 2.920 | 64  | 127564  | 46.82  | ug/l 97   |
| 7) Trichlorofluoromethane    | 3.273 | 101 | 240863  | 46.91  | ug/l 99   |
| 8) Diethyl Ether             | 3.708 | 74  | 74660   | 49.52  | ug/l 98   |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 153574  | 49.15  | ug/l 94   |
| 10) Methyl Iodide            | 4.297 | 142 | 132312  | 45.09  | ug/l 94   |
| 11) Tert butyl alcohol       | 5.220 | 59  | 42117   | 257.28 | ug/l # 89 |
| 12) 1,1-Dichloroethene       | 4.067 | 96  | 139740  | 46.00  | ug/l 96   |
| 13) Acrolein                 | 3.926 | 56  | 45431   | 242.70 | ug/l 99   |
| 14) Allyl chloride           | 4.714 | 41  | 190436  | 48.22  | ug/l 98   |
| 15) Acrylonitrile            | 5.426 | 53  | 167134  | 256.82 | ug/l 99   |
| 16) Acetone                  | 4.155 | 43  | 147469  | 292.74 | ug/l 97   |
| 17) Carbon Disulfide         | 4.408 | 76  | 382990  | 43.53  | ug/l 99   |
| 18) Methyl Acetate           | 4.714 | 43  | 72243   | 52.25  | ug/l 98   |
| 19) Methyl tert-butyl Ether  | 5.479 | 73  | 341664  | 49.85  | ug/l # 89 |
| 20) Methylene Chloride       | 4.967 | 84  | 172425  | 49.20  | ug/l 94   |
| 21) trans-1,2-Dichloroethene | 5.467 | 96  | 167383  | 47.61  | ug/l 98   |
| 22) Diisopropyl ether        | 6.367 | 45  | 439461  | 50.28  | ug/l # 89 |
| 23) Vinyl Acetate            | 6.302 | 43  | 1161477 | 257.38 | ug/l 96   |
| 24) 1,1-Dichloroethane       | 6.261 | 63  | 296619  | 49.60  | ug/l 99   |
| 25) 2-Butanone               | 7.214 | 43  | 188342  | 267.39 | ug/l 95   |
| 26) 2,2-Dichloropropane      | 7.208 | 77  | 257395  | 50.32  | ug/l 98   |
| 27) cis-1,2-Dichloroethene   | 7.208 | 96  | 195682  | 48.97  | ug/l 95   |
| 28) Bromochloromethane       | 7.544 | 49  | 131507  | 53.02  | ug/l # 80 |
| 29) Tetrahydrofuran          | 7.561 | 42  | 113402  | 248.90 | ug/l 98   |
| 30) Chloroform               | 7.708 | 83  | 315553  | 50.73  | ug/l 97   |
| 31) Cyclohexane              | 7.985 | 56  | 239535  | 49.28  | ug/l 94   |
| 32) 1,1,1-Trichloroethane    | 7.902 | 97  | 267287  | 49.73  | ug/l 96   |
| 36) 1,1-Dichloropropene      | 8.108 | 75  | 234353  | 48.48  | ug/l 97   |
| 37) Ethyl Acetate            | 7.297 | 43  | 85712   | 52.47  | ug/l # 95 |
| 38) Carbon Tetrachloride     | 8.091 | 117 | 228252  | 49.50  | ug/l 95   |
| 39) Methylcyclohexane        | 9.355 | 83  | 278086  | 46.90  | ug/l 98   |
| 40) Benzene                  | 8.349 | 78  | 685937  | 49.74  | ug/l 93   |

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 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 13:30:51 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 44359    | 47.17   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 183923   | 50.00   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.449  | 43   | 166446   | 53.20   | ug/l   | 97       |
| 44) Trichloroethene           | 9.114  | 130  | 185199   | 49.35   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 175567   | 52.18   | ug/l   | 97       |
| 46) Dibromomethane            | 9.473  | 93   | 89964    | 49.29   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.661  | 83   | 242437   | 51.23   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.455  | 41   | 77061    | 49.36   | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 23021    | 1079.48 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 426703   | 265.58  | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 441450   | 49.79   | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 227361   | 51.91   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.090 | 75   | 269064   | 50.28   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 132774   | 52.65   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 157262   | 52.56   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 227839   | 51.49   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.943  | 63   | 441365   | 275.49  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.985 | 43   | 300938   | 277.09  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.137 | 129  | 162357   | 51.89   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 122508   | 50.27   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 148074   | 47.92   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.673 | 112  | 479143   | 49.63   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 173510   | 51.51   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.743 | 91   | 874881   | 50.54   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.855 | 106  | 656721   | 100.39  | ug/l   | 100      |
| 69) o-Xylene                  | 12.179 | 106  | 303764   | 50.61   | ug/l   | 95       |
| 70) Styrene                   | 12.196 | 104  | 523578   | 50.15   | ug/l   | 99       |
| 71) Bromoform                 | 12.361 | 173  | 88981    | 51.41   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.479 | 105  | 835930   | 48.84   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.290 | 43   | 151886   | 50.25   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 148735   | 50.14   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.784 | 75   | 105722m  | 47.41   | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 181052   | 47.35   | ug/l   | 89       |
| 78) n-propylbenzene           | 12.820 | 91   | 1008561  | 49.22   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 543955   | 47.93   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 691225   | 49.42   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 45544    | 51.20   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 581561   | 48.47   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 600434   | 49.49   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 685053   | 49.16   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 840434   | 49.53   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 765710   | 50.26   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 364641   | 49.29   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 353301   | 48.00   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.837 | 91   | 736599   | 49.55   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.108 | 117  | 141584   | 51.19   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.884 | 146  | 317276   | 49.46   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 22003    | 50.73   | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 209897   | 49.96   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.267 | 225  | 116256   | 50.31   | ug/l   | 99       |
| 95) Naphthalene               | 15.396 | 128  | 394112   | 50.46   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 182676   | 49.85   | ug/l   | 98       |

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ALS Vial : 2 Sample Multiplier: 1

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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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