

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101121\  
 Data File : VD070669.D  
 Acq On : 11 Oct 2021 19:29  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 10/15/2021 1:18:17 AM

Quant Time: Oct 12 05:43:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100521S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 298109             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 538925             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.637         | 117  | 530896             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 259685             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 182750             | 52.09  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 104.18% |        |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 186304             | 52.00  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 104.00% |        |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 709046             | 51.76  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 103.52% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 249121             | 54.42  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 108.84% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 156599             | 43.07  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 217860             | 48.26  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.344          | 62   | 236102             | 47.20  | ug/l   | 96       |
| 5) Bromomethane              | 2.761          | 94   | 161873             | 53.54  | ug/l   | 96       |
| 6) Chloroethane              | 2.914          | 64   | 146775             | 45.95  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 304791             | 47.01  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.708          | 74   | 91701              | 54.36  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 180706             | 45.99  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 177568             | 44.30  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 46632              | 268.32 | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 4.061          | 96   | 169413             | 48.43  | ug/l   | 94       |
| 13) Acrolein                 | 3.926          | 56   | 39845              | 238.79 | ug/l   | 98       |
| 14) Allyl chloride           | 4.714          | 41   | 242850             | 49.87  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 213500             | 291.73 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 149991             | 251.76 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.408          | 76   | 596171             | 46.68  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.714          | 43   | 142438             | 61.96  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 417233             | 59.87  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.961          | 84   | 266668             | 62.57  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 211553             | 51.41  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.361          | 45   | 570539             | 57.03  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.302          | 43   | 1255986            | 276.15 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 376515             | 51.10  | ug/l   | 98       |
| 25) 2-Butanone               | 7.208          | 43   | 226410             | 290.26 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.202          | 77   | 297940             | 48.86  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 234829             | 54.31  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.549          | 49   | 141992             | 55.35  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 149910             | 298.17 | ug/l   | 99       |
| 30) Chloroform               | 7.708          | 83   | 401310             | 52.36  | ug/l   | 99       |
| 31) Cyclohexane              | 7.985          | 56   | 295616             | 45.51  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 333446             | 50.51  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 283949             | 49.61  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 101025             | 53.13  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 295724             | 49.37  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.349          | 83   | 317227             | 48.20  | ug/l   | 98       |
| 40) Benzene                  | 8.349          | 78   | 870753             | 51.62  | ug/l   | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 57616    | 58.75   | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 228053   | 52.27   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 188658   | 54.14   | ug/l   | 95       |
| 44) Trichloroethene           | 9.108  | 130  | 208514   | 50.12   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 223866   | 52.00   | ug/l   | 96       |
| 46) Dibromomethane            | 9.467  | 93   | 118739   | 53.74   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.655  | 83   | 299351   | 52.50   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.449  | 41   | 89739    | 54.94   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 26900    | 1198.02 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 535596   | 297.94  | ug/l   | 98       |
| 52) Toluene                   | 10.396 | 92   | 561089   | 54.14   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 258303   | 51.76   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 305434   | 50.83   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 167307   | 55.58   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 194848   | 54.08   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 281203   | 54.91   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 443890   | 306.05  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 369067   | 283.73  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.132 | 129  | 197914   | 54.58   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 154191   | 55.01   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.873 | 164  | 172775   | 50.75   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.661 | 112  | 571310   | 50.47   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 216749   | 51.47   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.737 | 91   | 1021628  | 52.30   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.843 | 106  | 817143   | 106.21  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 372128   | 54.38   | ug/l   | 98       |
| 70) Styrene                   | 12.185 | 104  | 669990   | 55.57   | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 109458   | 55.36   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 955584   | 50.47   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 188255   | 52.77   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 188078   | 50.81   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 119173m  | 50.70   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 214412   | 50.66   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.808 | 91   | 1218783  | 50.87   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 724791   | 51.57   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 858590   | 53.17   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 48727    | 46.03   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 757828   | 51.58   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 682643   | 51.15   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 857012   | 53.35   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 1041375  | 50.34   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 872620   | 51.64   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 448483   | 50.46   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.584 | 146  | 444762   | 50.47   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 811154   | 50.29   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.096 | 117  | 174410   | 47.74   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 396010   | 52.25   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 28436    | 53.21   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 214995   | 52.69   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 129277   | 50.14   | ug/l   | 99       |
| 95) Naphthalene               | 15.384 | 128  | 415700   | 50.46   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 190097   | 52.89   | ug/l   | 97       |

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 ALS Vial : 19 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 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

