

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112020\  
 Data File : VD067716.D  
 Acq On : 20 Nov 2020 11:03  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 11/23/2020 1:41:26 PM

Quant Time: Nov 21 00:47:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 272857   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 388244   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 341077   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 175375   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 110052   | 46.13 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.26% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 110908   | 47.41 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.82% |      |
| 50) Toluene-d8            | 10.34  | 98  | 383634   | 46.67 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.34% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 135838   | 47.86 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.72% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 113552 | 51.552  | ug/l   | 95     |
| 3) Chloromethane              | 2.21 | 50  | 69890  | 41.133  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 84549  | 44.631  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94  | 73086  | 47.600  | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64  | 54767  | 46.893  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.28 | 101 | 260059 | 53.019  | ug/l   | 91     |
| 8) Diethyl Ether              | 3.71 | 74  | 50781  | 51.379  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 126019 | 50.898  | ug/l   | 96     |
| 10) Methyl Iodide             | 4.30 | 142 | 140521 | 52.954  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.21 | 59  | 33822  | 335.901 | ug/l # | 95     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 117613 | 51.643  | ug/l   | 98     |
| 13) Acrolein                  | 3.92 | 56  | 22252  | 214.652 | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 120220 | 49.323  | ug/l   | 95     |
| 15) Acrylonitrile             | 5.42 | 53  | 93395  | 255.631 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 104998 | 294.090 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.41 | 76  | 311927 | 44.698  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.71 | 43  | 36842  | 49.936  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 253280 | 56.382  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.97 | 84  | 125920 | 49.929  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 134396 | 50.666  | ug/l   | 95     |
| 22) Diisopropyl ether         | 6.36 | 45  | 243998 | 51.370  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.30 | 43  | 672050 | 270.303 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 196387 | 50.540  | ug/l   | 97     |
| 25) 2-Butanone                | 7.21 | 43  | 102075 | 267.567 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 232723 | 56.748  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 148257 | 53.848  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 64833  | 46.906  | ug/l   | 93     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 58424  | 255.667 | ug/l   | 96     |
| 30) Chloroform                | 7.71 | 83  | 246570 | 53.189  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 163323 | 47.199  | ug/l # | 88     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 260306 | 54.423  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 182002 | 54.765  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 48294  | 55.974  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 259599 | 60.122  | ug/l   | 98     |

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 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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Quant Time: Nov 21 00:47:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 217959   | 55.723   | ug/l   | 96       |
| 40) Benzene                    | 8.36  | 78   | 491291   | 54.575   | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.53  | 41   | 22410m   | 43.453   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 155552   | 55.927   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 94418    | 55.334   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 162233   | 54.810   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 101958   | 52.385   | ug/l   | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 68707    | 55.520   | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.67  | 83   | 188992   | 56.188   | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 43316    | 49.166   | ug/l # | 82       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 13506    | 1075.071 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 227236   | 278.455  | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 338005   | 56.058   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 166331   | 57.739   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 191366   | 55.911   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 90076    | 55.012   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 98189    | 58.070   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 146068   | 55.437   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 203619   | 258.235  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 169221   | 296.572  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 136047   | 56.168   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 87233    | 53.083   | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.88 | 164  | 142657   | 56.476   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 373281   | 56.815   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 152478   | 58.884   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 659787   | 58.686   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 508823   | 116.332  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 234423   | 60.030   | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 398545   | 58.568   | ug/l   | 98       |
| 71) Bromoform                  | 12.37 | 173  | 77063    | 58.352   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.48 | 105  | 674849   | 59.541   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 83369    | 55.900   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 84157    | 54.451   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 50949m   | 48.158   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 156029   | 56.054   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.83 | 91   | 753000   | 58.082   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 432343   | 58.708   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 580805   | 59.987   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 27802    | 53.353   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 459235   | 58.143   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 511384   | 62.320   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 572264   | 59.377   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 664955   | 60.028   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 639854   | 59.816   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 301211   | 56.711   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 303266   | 56.389   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.84 | 91   | 552860   | 59.835   | ug/l   | 98       |
| 90) Hexachloroethane           | 14.11 | 117  | 118902   | 59.025   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 261923   | 56.979   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 17329    | 63.327   | ug/l   | 94       |

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Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 189131   | 60.620 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 124367   | 59.560 | ug/l  | 97       |
| 95) Naphthalene            | 15.40 | 128  | 308834   | 64.142 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 160114   | 59.929 | ug/l  | 99       |

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

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