

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\  
 Data File : VD066679.D  
 Acq On : 14 Sep 2020 18:48  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/15/2020 2:27:57 PM

Quant Time: Sep 15 04:06:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 04 01:57:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 392502   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 637195   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 574117   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 271300   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 248379   | 52.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.60% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 226924   | 52.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.58% |      |
| 50) Toluene-d8            | 10.34  | 98  | 811146   | 52.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.60% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 280440   | 55.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.10% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.98 | 85  | 172778  | 53.591  | ug/l | 88     |
| 3) Chloromethane              | 2.21 | 50  | 237291  | 47.805  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 269286  | 48.913  | ug/l | 99     |
| 5) Bromomethane               | 2.77 | 94  | 187204  | 54.165  | ug/l | 82     |
| 6) Chloroethane               | 2.92 | 64  | 173181  | 49.525  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 411098  | 50.547  | ug/l | 94     |
| 8) Diethyl Ether              | 3.71 | 74  | 106021  | 51.768  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 225032  | 51.125  | ug/l | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 214056  | 53.048  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 80331   | 274.981 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 203426  | 51.442  | ug/l | 95     |
| 13) Acrolein                  | 3.92 | 56  | 46438   | 239.155 | ug/l | 98     |
| 14) Allyl chloride            | 4.71 | 41  | 349255  | 53.890  | ug/l | 98     |
| 15) Acrylonitrile             | 5.42 | 53  | 241000  | 273.936 | ug/l | 100    |
| 16) Acetone                   | 4.16 | 43  | 217605  | 249.038 | ug/l | 95     |
| 17) Carbon Disulfide          | 4.41 | 76  | 622648  | 47.896  | ug/l | 98     |
| 18) Methyl Acetate            | 4.72 | 43  | 113282  | 54.386  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 533233  | 57.501  | ug/l | 97     |
| 20) Methylene Chloride        | 4.97 | 84  | 276975  | 59.410  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 245734  | 52.329  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.36 | 45  | 736323  | 55.248  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.30 | 43  | 2149344 | 283.395 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 446008  | 53.216  | ug/l | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 315577  | 269.044 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 409742  | 53.298  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 275358  | 54.528  | ug/l | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 169106  | 52.409  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 202257  | 276.872 | ug/l | 99     |
| 30) Chloroform                | 7.71 | 83  | 475950  | 53.679  | ug/l | 97     |
| 31) Cyclohexane               | 7.98 | 56  | 377202  | 48.688  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 441152  | 52.919  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 358329  | 54.036  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.28 | 43  | 148358  | 56.184  | ug/l | 96     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 391381  | 55.838  | ug/l | 97     |

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Quant Time: Sep 15 04:06:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 04 01:57:04 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 406597   | 54.910   | ug/l   | 99       |
| 40) Benzene                    | 8.34  | 78   | 961621   | 52.948   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.51  | 41   | 53182m   | 41.608   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 316621   | 53.806   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 291189   | 57.544   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 258126   | 54.183   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 246190   | 53.903   | ug/l   | 95       |
| 46) Dibromomethane             | 9.47  | 93   | 135238   | 53.670   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.66  | 83   | 377305   | 55.344   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.45  | 41   | 143327   | 56.014   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 29713    | 1074.826 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 737283   | 288.897  | ug/l   | 97       |
| 52) Toluene                    | 10.40 | 92   | 621125   | 54.028   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 341296   | 56.710   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 400749   | 55.450   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 179146   | 55.294   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 217790   | 57.734   | ug/l # | 93       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 308545   | 54.370   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 449141   | 260.306  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.98 | 43   | 494943   | 288.393  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 240277   | 56.083   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 172633   | 54.769   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 205909   | 53.268   | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 638703   | 53.902   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 249470   | 55.164   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1204706  | 55.370   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 902919   | 111.765  | ug/l   | 96       |
| 69) o-Xylene                   | 12.18 | 106  | 409349   | 56.539   | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 717897   | 57.035   | ug/l   | 97       |
| 71) Bromoform                  | 12.36 | 173  | 127658   | 56.012   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1163507  | 57.924   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 261973   | 57.584   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 192644   | 54.286   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 130089m  | 49.858   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 252299   | 56.339   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.82 | 91   | 1394067  | 57.251   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 785066   | 57.470   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 984871   | 58.254   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 62378    | 55.815   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 820143   | 56.143   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 821960   | 59.537   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 982035   | 58.342   | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 1168187  | 58.730   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1064135  | 59.439   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 497185   | 55.924   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 486590   | 54.530   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 1002930  | 57.487   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 208141   | 53.957   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 424452   | 54.621   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 32935    | 54.635   | ug/l   | 95       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 270344   | 57.968 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 157758   | 56.306 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 508899   | 62.446 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 235220   | 59.159 | ug/l  | 100      |

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

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