

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\  
 Data File : VD067034.D  
 Acq On : 02 Oct 2020 14:37  
 Operator : VA/SY  
 Sample : L4213-02MS  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-15(3-4)MS

Manual Integrations  
 APPROVED

MMDadoda  
 10/5/2020 5:34:28 PM

Quant Time: Oct 03 05:07:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 268372   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 427730   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 387722   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 172291   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 168926   | 65.35 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 130.70% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 165639   | 59.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 118.30% |      |
| 50) Toluene-d8              | 10.34  | 98  | 567047   | 55.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.14% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 182076   | 52.56 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.12% |      |

| Target Compounds              |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.98 | 85  | 115984 | 54.090  | ug/l | 93     |
| 3) Chloromethane              | 2.21 | 50  | 103748 | 48.542  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 99562  | 46.458  | ug/l | 100    |
| 5) Bromomethane               | 2.77 | 94  | 79301  | 58.111  | ug/l | 98     |
| 6) Chloroethane               | 2.93 | 64  | 64040  | 49.069  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 3.28 | 101 | 229625 | 48.228  | ug/l | 98     |
| 8) Diethyl Ether              | 3.71 | 74  | 74444  | 63.051  | ug/l | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 129483 | 48.114  | ug/l | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 132044 | 50.497  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 43693  | 297.681 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 119896 | 47.392  | ug/l | 97     |
| 13) Acrolein                  | 3.93 | 56  | 49605  | 286.589 | ug/l | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 169356 | 51.530  | ug/l | 99     |
| 15) Acrylonitrile             | 5.43 | 53  | 154715 | 356.036 | ug/l | 97     |
| 16) Acetone                   | 4.16 | 43  | 149632 | 379.205 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.41 | 76  | 339795 | 43.765  | ug/l | 100    |
| 18) Methyl Acetate            | 4.72 | 43  | 86030  | 86.746  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 314230 | 68.040  | ug/l | 95     |
| 20) Methylene Chloride        | 4.97 | 84  | 171237 | 63.052  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 140622 | 48.842  | ug/l | 96     |
| 22) Diisopropyl ether         | 6.37 | 45  | 375350 | 62.558  | ug/l | 93     |
| 23) Vinyl Acetate             | 6.31 | 43  | 999161 | 293.871 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 252398 | 54.508  | ug/l | 97     |
| 25) 2-Butanone                | 7.21 | 43  | 190420 | 340.374 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 210438 | 53.430  | ug/l | 96     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 166501 | 54.149  | ug/l | 98     |
| 28) Bromochloromethane        | 7.54 | 49  | 115065 | 64.345  | ug/l | 97     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 116276 | 361.471 | ug/l | 96     |
| 30) Chloroform                | 7.71 | 83  | 281284 | 55.998  | ug/l | 98     |
| 31) Cyclohexane               | 7.98 | 56  | 164620 | 42.405  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 238299 | 51.189  | ug/l | 97     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 181039 | 45.408  | ug/l | 98     |
| 37) Ethyl Acetate             | 7.29 | 43  | 90736  | 65.695  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 213275 | 49.440  | ug/l | 99     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 160288   | 38.027   | ug/l   | 95       |
| 40) Benzene                    | 8.35  | 78   | 579647   | 52.344   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 45391m   | 60.832   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 188132   | 60.798   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 171232   | 67.297   | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 158118   | 47.817   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 150814   | 57.962   | ug/l   | 97       |
| 46) Dibromomethane             | 9.47  | 93   | 93294    | 62.385   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.66  | 83   | 229141   | 58.945   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 88548    | 67.929   | ug/l   | 90       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 21837    | 1399.098 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 455739   | 359.593  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 374115   | 52.445   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 205249   | 59.077   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 243918   | 57.494   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 131928   | 63.453   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 149978   | 69.868   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 216291   | 64.151   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 434199   | 363.419  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 308373   | 364.551  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 170117   | 61.388   | ug/l   | 94       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 130704   | 65.434   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 137129   | 48.649   | ug/l   | 91       |
| 65) Chlorobenzene              | 11.67 | 112  | 387313   | 50.227   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 168200   | 57.342   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 653424   | 49.455   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 518641   | 100.724  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 242493   | 52.663   | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 414756   | 52.456   | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 97186    | 63.828   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.48 | 105  | 602688   | 51.517   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 141422   | 67.246   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 139456   | 70.751   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 108634m  | 72.388   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 163514   | 57.885   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.82 | 91   | 659398   | 47.693   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 412319   | 52.123   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 511229   | 51.722   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 41015    | 68.138   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 411924   | 48.943   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 419638   | 50.417   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 517419   | 52.455   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 510172   | 43.525   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 467545   | 43.024   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 261140   | 47.460   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 264025   | 47.990   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 351460   | 35.388   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 90963    | 47.786   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 247849   | 51.578   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 21417    | 67.405   | ug/l   | 97       |

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10/5/2020 5:34:28 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 120539   | 38.780 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 46569    | 24.396 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 278274   | 53.675 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 110357   | 40.900 | ug/l  | 99       |

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

