

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062920\  
 Data File : VD065883.D  
 Acq On : 29 Jun 2020 13:47  
 Operator : VA/SY  
 Sample : VD0629SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0629SBS01

Quant Time: Jun 30 04:28:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 19:16:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 178318   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 286600   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 255531   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 121565   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 86642    | 46.77 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.54% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 84801    | 47.87 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.74% |      |
| 50) Toluene-d8            | 10.34  | 98  | 315837   | 47.40 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.80% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 104755   | 47.99 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.98% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 35962  | 21.091  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 50331  | 21.240  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.35 | 62  | 50892  | 19.361  | ug/l   | 94     |
| 5) Bromomethane               | 2.76 | 94  | 31642  | 18.404  | ug/l   | 98     |
| 6) Chloroethane               | 2.91 | 64  | 30915  | 18.650  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 70990  | 21.424  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.70 | 74  | 16537  | 18.983  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 37919  | 20.307  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.29 | 142 | 34577  | 18.953  | ug/l # | 94     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 14211  | 148.816 | ug/l # | 82     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 35864  | 20.606  | ug/l   | 97     |
| 13) Acrolein                  | 3.91 | 56  | 13133  | 97.545  | ug/l   | 94     |
| 14) Allyl chloride            | 4.71 | 41  | 57476  | 20.935  | ug/l   | 94     |
| 15) Acrylonitrile             | 5.43 | 53  | 36116  | 97.530  | ug/l   | 98     |
| 16) Acetone                   | 4.15 | 43  | 37374  | 102.969 | ug/l   | 94     |
| 17) Carbon Disulfide          | 4.41 | 76  | 119962 | 20.401  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.71 | 43  | 15322  | 19.038  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 75458  | 19.772  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.96 | 84  | 49423  | 23.198  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 39789  | 19.964  | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.36 | 45  | 114258 | 19.955  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.30 | 43  | 321746 | 97.224  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 67440  | 19.743  | ug/l   | 94     |
| 25) 2-Butanone                | 7.21 | 43  | 48768  | 100.681 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 64309  | 20.515  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 41459  | 18.801  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.54 | 49  | 24203  | 18.854  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 30081  | 97.765  | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83  | 71406  | 19.524  | ug/l   | 98     |
| 31) Cyclohexane               | 7.98 | 56  | 67870  | 20.452  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 68942  | 20.542  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 57437  | 20.552  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.28 | 43  | 22699  | 21.242  | ug/l # | 96     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 63042  | 20.890  | ug/l # | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 19:16:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 67754    | 20.404  | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 153886   | 19.847  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 13477    | 22.988  | ug/l # | 53       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 46442    | 20.304  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 42691    | 20.617  | ug/l   | 95       |
| 44) Trichloroethene            | 9.11  | 130  | 41219    | 19.624  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 37918    | 20.416  | ug/l   | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 19843    | 19.273  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.66  | 83   | 55389    | 20.246  | ug/l # | 98       |
| 48) Methyl methacrylate        | 9.46  | 41   | 22272    | 21.943  | ug/l   | 89       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 4561     | 433.078 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 101486   | 95.082  | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 99460    | 19.730  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 51095    | 19.566  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 58859    | 19.195  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 26697    | 19.567  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 32143    | 18.973  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 46073    | 19.251  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 74692    | 100.585 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 73498    | 98.238  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 34530    | 18.529  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 26933    | 20.169  | ug/l   | 94       |
| 64) Tetrachloroethene          | 10.87 | 164  | 34447    | 20.644  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.67 | 112  | 100195   | 19.768  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 36906    | 19.546  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.75 | 91   | 184067   | 19.553  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 138618   | 38.675  | ug/l   | 96       |
| 69) o-Xylene                   | 12.18 | 106  | 63306    | 19.655  | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 105845   | 18.794  | ug/l   | 98       |
| 71) Bromoform                  | 12.37 | 173  | 18061    | 18.012  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 177125   | 20.343  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 38373    | 19.948  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 27891    | 19.461  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 19959m   | 18.763  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 39489    | 20.172  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.82 | 91   | 215286   | 20.524  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 115841   | 20.050  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 144532   | 19.857  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 8721     | 17.613  | ug/l # | 85       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 125044   | 20.252  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 126439   | 20.642  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 145450   | 20.286  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.40 | 105  | 177216   | 20.302  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 157656   | 19.884  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 75661    | 19.894  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 76894    | 20.096  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 159548   | 20.637  | ug/l   | 97       |
| 90) Hexachloroethane           | 14.11 | 117  | 34092    | 21.070  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 66106    | 19.840  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 4962     | 22.351  | ug/l   | 94       |

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Sample : VD0629SBS01  
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ALS Vial : 4 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Fri Jun 26 19:16:07 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 43744    | 20.709 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 25057    | 20.798 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 74969    | 19.768 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 35641    | 20.221 | ug/l  | 99       |

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

