

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD113021\  
 Data File : VD071082.D  
 Acq On : 30 Nov 2021 12:23  
 Operator : VA/SY  
 Sample : VD1130SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1130SBS01

Quant Time: Dec 01 03:31:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin  
 Yesilyurt  
 12/01/2021  
 Supervised By : Mahesh  
 Dadoda  
 12/01/2021

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 300538   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 505944   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.643 | 117  | 462002   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 212018   | 50.000 | ug/l  | 0.00     |

### System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.332  | 65    | 167045   | 47.369   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 94.740% |
| 35) Dibromofluoromethane  | 7.914  | 113   | 157649   | 48.932   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 97.860% |
| 50) Toluene-d8            | 10.337 | 98    | 579867   | 47.295   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 94.600% |
| 62) 4-Bromofluorobenzene  | 12.625 | 95    | 205290   | 48.304   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 96.600% |

### Target Compounds

|                              |       |     |        |         |        | Qvalue |
|------------------------------|-------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.991 | 85  | 53520  | 20.883  | ug/l   | 94     |
| 3) Chloromethane             | 2.214 | 50  | 69028  | 20.359  | ug/l   | 99     |
| 4) Vinyl Chloride            | 2.355 | 62  | 75716  | 20.016  | ug/l   | 98     |
| 5) Bromomethane              | 2.767 | 94  | 57142  | 20.955  | ug/l   | 93     |
| 6) Chloroethane              | 2.926 | 64  | 51152  | 19.661  | ug/l   | 89     |
| 7) Trichlorofluoromethane    | 3.279 | 101 | 99414  | 19.400  | ug/l   | 98     |
| 8) Diethyl Ether             | 3.714 | 74  | 26213  | 18.869  | ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluo... | 4.108 | 101 | 56536  | 18.700  | ug/l   | 95     |
| 10) Methyl Iodide            | 4.302 | 142 | 49181  | 17.278  | ug/l   | 95     |
| 11) Tert butyl alcohol       | 5.196 | 59  | 43297  | 169.755 | ug/l # | 79     |
| 12) 1,1-Dichloroethene       | 4.073 | 96  | 51737  | 18.544  | ug/l   | 90     |
| 13) Acrolein                 | 3.926 | 56  | 27645  | 114.716 | ug/l   | 99     |
| 14) Allyl chloride           | 4.714 | 41  | 100191 | 18.906  | ug/l # | 80     |
| 15) Acrylonitrile            | 5.420 | 53  | 65106  | 96.365  | ug/l   | 97     |
| 16) Acetone                  | 4.155 | 43  | 60918  | 87.837  | ug/l   | 89     |
| 17) Carbon Disulfide         | 4.420 | 76  | 159387 | 19.512  | ug/l   | 95     |
| 18) Methyl Acetate           | 4.708 | 43  | 52780  | 20.285  | ug/l   | 91     |
| 19) Methyl tert-butyl Ether  | 5.467 | 73  | 129671 | 18.964  | ug/l   | 95     |
| 20) Methylene Chloride       | 4.967 | 84  | 70767  | 17.142  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene | 5.473 | 96  | 59614  | 18.981  | ug/l   | 92     |
| 22) Diisopropyl ether        | 6.361 | 45  | 198149 | 18.662  | ug/l   | 92     |
| 23) Vinyl Acetate            | 6.302 | 43  | 450378 | 97.118  | ug/l   | 96     |
| 24) 1,1-Dichloroethane       | 6.267 | 63  | 117053 | 19.167  | ug/l   | 98     |
| 25) 2-Butanone               | 7.208 | 43  | 85463  | 98.417  | ug/l # | 87     |
| 26) 2,2-Dichloropropane      | 7.214 | 77  | 98341  | 17.709  | ug/l   | 94     |
| 27) cis-1,2-Dichloroethene   | 7.214 | 96  | 66930  | 18.837  | ug/l   | 94     |
| 28) Bromochloromethane       | 7.543 | 49  | 57295  | 21.600  | ug/l   | 93     |
| 29) Tetrahydrofuran          | 7.561 | 42  | 56382  | 100.688 | ug/l # | 90     |
| 30) Chloroform               | 7.708 | 83  | 114044 | 18.607  | ug/l   | 98     |
| 31) Cyclohexane              | 7.985 | 56  | 110874 | 18.484  | ug/l # | 92     |
| 32) 1,1,1-Trichloroethane    | 7.896 | 97  | 101905 | 18.519  | ug/l   | 93     |
| 36) 1,1-Dichloropropene      | 8.108 | 75  | 89798  | 18.990  | ug/l   | 96     |
| 37) Ethyl Acetate            | 7.290 | 43  | 38730  | 18.961  | ug/l   | 94     |
| 38) Carbon Tetrachloride     | 8.096 | 117 | 89688  | 19.241  | ug/l   | 95     |
| 39) Methylcyclohexane        | 9.355 | 83  | 104673 | 18.404  | ug/l   | 98     |
| 40) Benzene                  | 8.349 | 78  | 240890 | 18.754  | ug/l   | 100    |

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 Sample : VD1130SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1130SBS01

Quant Time: Dec 01 03:31:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin  
 Yesilyurt  
 12/01/2021

Supervised By :Mahesh  
 Dadoda  
 12/01/2021

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 20939    | 22.715  | ug/l   | 88       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 73949    | 18.861  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 77419    | 20.649  | ug/l   | 90       |
| 44) Trichloroethene           | 9.108  | 130  | 63358    | 18.500  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.384  | 63   | 62256    | 18.431  | ug/l   | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 33214    | 18.952  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.655  | 83   | 85772    | 18.507  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.455  | 41   | 38468    | 19.240  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 6582     | 389.076 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 188884   | 102.602 | ug/l   | 92       |
| 52) Toluene                   | 10.396 | 92   | 152147   | 18.669  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 80074    | 18.792  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.084 | 75   | 94645    | 18.699  | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 44758    | 19.468  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 52728    | 19.999  | ug/l # | 71       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 78796    | 19.510  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.937  | 63   | 171551   | 109.657 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 129526   | 98.884  | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.137 | 129  | 52958    | 18.534  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 42827    | 19.396  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.873 | 164  | 53279    | 18.165  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 156413   | 18.247  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.737 | 131  | 58455    | 18.676  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.737 | 91   | 289839   | 17.961  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.849 | 106  | 219350   | 36.004  | ug/l   | 98       |
| 69) o-Xylene                  | 12.173 | 106  | 103875   | 18.141  | ug/l   | 99       |
| 70) Styrene                   | 12.190 | 104  | 171911   | 17.814  | ug/l   | 97       |
| 71) Bromoform                 | 12.355 | 173  | 30448    | 18.778  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.473 | 105  | 275169   | 17.924  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.284 | 43   | 66242    | 19.664  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.725 | 83   | 47761    | 18.892  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 36010m   | 17.827  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 60656    | 18.241  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 347142   | 18.158  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 194207   | 18.099  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 227327   | 17.957  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 13943    | 20.053  | ug/l # | 77       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 199035   | 17.867  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 198494   | 18.258  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 223291   | 18.066  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 296565   | 17.860  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 243307   | 17.915  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 122552   | 18.514  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.584 | 146  | 120571   | 18.385  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.831 | 91   | 233769   | 17.632  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 45025    | 17.488  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.878 | 146  | 104647   | 18.590  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 7543     | 18.321  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 62987    | 17.939  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 37202    | 18.726  | ug/l   | 95       |
| 95) Naphthalene               | 15.384 | 128  | 113958   | 18.411  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.578 | 180  | 56596    | 18.978  | ug/l   | 99       |

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ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 01 03:31:30 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1130SBS01

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt  
12/01/2021  
Supervised By :Mahesh  
Dadoda  
12/01/2021

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

