

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030921\  
 Data File : VD068572.D  
 Acq On : 09 Mar 2021 11:51  
 Operator : VA/SY  
 Sample : VD0309SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0309SBS01

Manual Integrations  
 APPROVED

SAM  
 3/10/2021 3:12:34 PM

Quant Time: Mar 10 00:00:05 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 26 14:04:14 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 264726     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 446906     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 414215     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 194320     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 128294     | 48.50   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.00%  |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 139096     | 51.67   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 103.34% |        |          |
| 50) Toluene-d8               | 10.343         | 98   | 519789     | 48.47   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 96.94%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 170944     | 49.46   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 98.92%  |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 50249      | 19.56   | ug/l   | 95       |
| 3) Chloromethane             | 2.215          | 50   | 59685      | 18.38   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.350          | 62   | 74089      | 19.22   | ug/l   | 96       |
| 5) Bromomethane              | 2.762          | 94   | 55499      | 20.22   | ug/l   | 96       |
| 6) Chloroethane              | 2.920          | 64   | 46879      | 18.81   | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 91124      | 20.72   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.714          | 74   | 25165      | 19.22   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 54523      | 20.35   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.303          | 142  | 53159      | 18.34   | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 15610      | 110.54  | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 51128      | 19.23   | ug/l   | 95       |
| 13) Acrolein                 | 3.932          | 56   | 17795      | 88.17   | ug/l   | 98       |
| 14) Allyl chloride           | 4.720          | 41   | 66332      | 19.32   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.426          | 53   | 63661      | 115.20  | ug/l   | 95       |
| 16) Acetone                  | 4.161          | 43   | 41505      | 98.79   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.414          | 76   | 163961     | 18.82   | ug/l   | 96       |
| 18) Methyl Acetate           | 4.720          | 43   | 21412      | 19.77   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 130183     | 22.59   | ug/l   | 94       |
| 20) Methylene Chloride       | 4.967          | 84   | 66737      | 18.63   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 73218      | 23.07   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.361          | 45   | 145813     | 19.29   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.308          | 43   | 363655     | 92.73   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.273          | 63   | 102967     | 19.87   | ug/l   | 99       |
| 25) 2-Butanone               | 7.214          | 43   | 58732      | 97.25   | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 88976      | 20.61   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.220          | 96   | 66467      | 19.07   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.544          | 49   | 39354      | 19.46   | ug/l   | 82       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 37845      | 96.50   | ug/l   | 98       |
| 30) Chloroform               | 7.714          | 83   | 108547     | 19.84   | ug/l   | 92       |
| 31) Cyclohexane              | 7.985          | 56   | 88941      | 18.49   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 95280      | 20.40   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.120          | 75   | 85355      | 20.09   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.291          | 43   | 26787      | 19.00   | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 8.102          | 117  | 80613      | 20.20   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.355          | 83   | 103448     | 19.75   | ug/l   | 96       |
| 40) Benzene                  | 8.355          | 78   | 243033     | 19.94   | ug/l   | 95       |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
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Manual Integrations  
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SAM  
 3/10/2021 3:12:34 PM

Quant Time: Mar 10 00:00:05 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 26 14:04:14 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 12221    | 14.94  | ug/l # | 61       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 64245    | 20.05  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 53918    | 20.81  | ug/l   | 98       |
| 44) Trichloroethene           | 9.114  | 130  | 68854    | 20.58  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 59010    | 20.26  | ug/l   | 96       |
| 46) Dibromomethane            | 9.479  | 93   | 32836    | 20.72  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.661  | 83   | 85928    | 20.96  | ug/l   | 91       |
| 48) Methyl methacrylate       | 9.461  | 41   | 26784    | 19.40  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 6959     | 385.05 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 133110   | 98.20  | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 158264   | 20.34  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 76290    | 20.14  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 91778    | 19.85  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 45928    | 20.94  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 50673    | 20.10  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 76197    | 19.90  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 121936   | 96.42  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.985 | 43   | 92840    | 102.75 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.143 | 129  | 57648    | 21.23  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 44749    | 20.85  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 54714    | 20.23  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.673 | 112  | 169265   | 20.07  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 59233    | 20.20  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.743 | 91   | 295903   | 19.65  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.849 | 106  | 226507   | 39.61  | ug/l   | 98       |
| 69) o-Xylene                  | 12.179 | 106  | 103698   | 19.69  | ug/l   | 94       |
| 70) Styrene                   | 12.190 | 104  | 180234   | 20.01  | ug/l   | 99       |
| 71) Bromoform                 | 12.361 | 173  | 31516    | 21.16  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.479 | 105  | 286553   | 19.88  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.290 | 43   | 48361    | 19.70  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 50267    | 20.27  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.785 | 75   | 33403m   | 19.36  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 66893    | 20.34  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.820 | 91   | 346915   | 20.14  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 189827   | 19.86  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 238853   | 20.22  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 14090    | 19.06  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 201074   | 19.99  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 205798   | 20.46  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 240636   | 20.34  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 287678   | 20.25  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 258324   | 20.03  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 128563   | 20.24  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 130488   | 20.73  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.837 | 91   | 248369   | 19.97  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.108 | 117  | 52383    | 20.44  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.884 | 146  | 112096   | 20.57  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.508 | 75   | 7899     | 18.07  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 84563    | 20.09  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 47835    | 20.48  | ug/l   | 98       |
| 95) Naphthalene               | 15.396 | 128  | 146144   | 19.18  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 71801    | 19.71  | ug/l   | 98       |

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Sample : VD0309SBSD01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0309SBSD01

Manual Integrations  
APPROVED

SAM  
3/10/2021 3:12:34 PM

Quant Time: Mar 10 00:00:05 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 26 14:04:14 2021  
Response via : Initial Calibration

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

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

