Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD062318\
Data File : VD058342.D
Acq On : 23 Jun 2018 15:50
Operator : VA/AP
Sample : VD0623SBSD01
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** VD0623SBSD01

Quant Time: Jun 25 01:07:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 5.66 | 168 | 979290 | 50.00 | ug/l | | 0.03 |
| 34) 1,4-Difluorobenzene | 6.72 | 114 | 1289827 | 50.00 | ug/l | | 0.03 |
| 63) Chlorobenzene-d5 | 10.70 | 117 | 1025751 | 50.00 | ug/l | | 0.02 |
| 72) 1,4-Dichlorobenzene-d4 | 12.92 | 152 | 532875 | 50.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 6.04 | 65 | 519133 | 52.48 | ug/l | | 0.03 |
| Spiked Amount 50.000 | | | Recovery = | 104.96% | | | |
| 35) Dibromofluoromethane | 5.57 | 113 | 529158 | 50.41 | ug/l | | 0.03 |
| Spiked Amount 50.000 | | | Recovery = | 100.82% | | | |
| 50) Toluene-d8 | 8.72 | 98 | 1296569 | 51.05 | ug/l | | 0.02 |
| Spiked Amount 50.000 | | | Recovery = | 102.10% | | | |
| 62) 4-Bromofluorobenzene | 11.94 | 95 | 536950 | 51.75 | ug/l | | 0.02 |
| Spiked Amount 50.000 | | | Recovery = | 103.50% | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.36 | 85 | 234678 | 23.41 | ug/l | | 98 |
| 3) Chloromethane | 1.51 | 50 | 110152 | 23.46 | ug/l | | 98 |
| 4) Vinyl Chloride | 1.58 | 62 | 111659 | 21.77 | ug/l | | 99 |
| 5) Bromomethane | 1.81 | 94 | 38698 | 20.01 | ug/l | | 95 |
| 6) Chloroethane | 1.89 | 64 | 38891 | 19.44 | ug/l | | 94 |
| 7) Trichlorofluoromethane | 2.10 | 101 | 156425 | 22.24 | ug/l | | 89 |
| 8) Diethyl Ether | 2.36 | 74 | 31783 | 21.36 | ug/l | | 94 |
| 9) 1,1,2-Trichlorotrifluoroet | 2.57 | 101 | 104714 | 23.42 | ug/l | | 92 |
| 10) Methyl Iodide | 2.71 | 142 | 106854 | 21.01 | ug/l | # | 88 |
| 11) Tert butyl alcohol | 3.29 | 59 | 26480 | 81.17 | ug/l | # | 88 |
| 12) 1,1-Dichloroethene | 2.56 | 96 | 78503 | 23.33 | ug/l | | 93 |
| 13) Acrolein | 2.49 | 56 | 17668 | 94.87 | ug/l | | 98 |
| 14) Allyl chloride | 2.95 | 41 | 170004 | 21.71 | ug/l | | 97 |
| 15) Acrylonitrile | 3.39 | 53 | 153952 | 177.97 | ug/l | | 99 |
| 16) Acetone | 2.63 | 43 | 146367 | 108.20 | ug/l | | 96 |
| 17) Carbon Disulfide | 2.77 | 76 | 236429 | 20.65 | ug/l | | 99 |
| 18) Methyl Acetate | 2.96 | 43 | 58759 | 20.37 | ug/l | | 95 |
| 19) Methyl tert-butyl Ether | 3.43 | 73 | 379186 | 42.49 | ug/l | | 98 |
| 20) Methylene Chloride | 3.09 | 84 | 83781 | 20.96 | ug/l | | 95 |
| 21) trans-1,2-Dichloroethene | 3.41 | 96 | 179903 | 48.93 | ug/l | | 93 |
| 22) Diisopropyl ether | 4.10 | 45 | 665500 | 21.40 | ug/l | | 99 |
| 23) Vinyl Acetate | 4.04 | 43 | 1746226 | 104.74 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 4.00 | 63 | 374491 | 22.35 | ug/l | | 99 |
| 25) 2-Butanone | 4.87 | 43 | 306993 | 104.12 | ug/l | | 99 |
| 26) 2,2-Dichloropropane | 4.83 | 77 | 320634 | 22.85 | ug/l | | 97 |
| 27) cis-1,2-Dichloroethene | 4.83 | 96 | 218105 | 23.74 | ug/l | | 93 |
| 28) Bromochloromethane | 5.17 | 49 | 173721 | 23.13 | ug/l | # | 99 |
| 29) Tetrahydrofuran | 5.21 | 42 | 159849 | 101.86 | ug/l | | 97 |
| 30) Chloroform | 5.35 | 83 | 397148 | 22.45 | ug/l | | 96 |
| 31) Cyclohexane | 5.61 | 56 | 297551 | 21.48 | ug/l | | 99 |
| 32) 1,1,1-Trichloroethane | 5.53 | 97 | 317833 | 21.75 | ug/l | # | 93 |
| 36) 1,1-Dichloropropene | 5.76 | 75 | 276143 | 21.64 | ug/l | | 95 |
| 37) Ethyl Acetate | 4.94 | 43 | 155619 | 21.41 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 5.75 | 117 | 258740 | 20.41 | ug/l | | 98 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD062318\
Data File : VD058342.D
Acq On : 23 Jun 2018 15:50
Operator : VA/AP
Sample : VD0623SBSD01
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** VD0623SBSD01

Quant Time: Jun 25 01:07:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 39) Methylcyclohexane | 7.30 | 83 | 276708 | 22.26 | ug/l | | 96 |
| 40) Benzene | 6.04 | 78 | 682255 | 22.45 | ug/l | | 98 |
| 41) Methacrylonitrile | 5.15 | 41 | 70038 | 19.95 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 6.16 | 62 | 269852 | 22.02 | ug/l | | 98 |
| 43) Isopropyl Acetate | 7.64 | 43 | 189100 | 19.51 | ug/l | # | 99 |
| 44) Trichloroethene | 7.00 | 130 | 197787 | 21.67 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.38 | 63 | 185487 | 22.66 | ug/l | | 96 |
| 46) Dibromomethane | 7.48 | 93 | 121525 | 21.75 | ug/l | | 96 |
| 47) Bromodichloromethane | 7.76 | 83 | 276587 | 21.71 | ug/l | | 96 |
| 48) Methyl methacrylate | 7.52 | 41 | 118340 | 20.09 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.51 | 88 | 22475 | 422.66 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.62 | 43 | 668080 | 105.67 | ug/l | | 100 |
| 52) Toluene | 8.82 | 92 | 378122 | 21.85 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 9.21 | 75 | 240434 | 21.70 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 8.38 | 75 | 285917 | 22.01 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.47 | 97 | 124893 | 20.40 | ug/l | | 89 |
| 56) Ethyl methacrylate | 9.33 | 69 | 159003 | 21.71 | ug/l | | 92 |
| 57) 1,3-Dichloropropane | 9.69 | 76 | 217414 | 21.08 | ug/l | | 95 |
| 58) 2-Chloroethyl Vinyl ether | 8.20 | 63 | 408677 | 112.73 | ug/l | | 99 |
| 59) 2-Hexanone | 9.81 | 43 | 489823 | 107.22 | ug/l | | 94 |
| 60) Dibromochloromethane | 9.97 | 129 | 170401 | 20.51 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 10.11 | 107 | 139834 | 20.86 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.53 | 164 | 192718 | 22.33 | ug/l | | 92 |
| 65) Chlorobenzene | 10.73 | 112 | 427699 | 22.29 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.86 | 131 | 165898 | 22.40 | ug/l | | 93 |
| 67) Ethyl Benzene | 10.87 | 91 | 770514 | 22.75 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.03 | 106 | 512700 | 45.39 | ug/l | | 100 |
| 69) o-Xylene | 11.42 | 106 | 249284 | 23.11 | ug/l | | 97 |
| 70) Styrene | 11.44 | 104 | 401554 | 21.81 | ug/l | | 97 |
| 71) Bromoform | 11.61 | 173 | 117811 | 19.95 | ug/l | # | 96 |
| 73) Isopropylbenzene | 11.79 | 105 | 688368 | 21.60 | ug/l | | 98 |
| 74) N-amyl acetate | 11.66 | 43 | 250538 | 20.33 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.09 | 83 | 157625 | 21.25 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.12 | 75 | 169335 | 21.77 | ug/l | | 100 |
| 77) Bromobenzene | 12.05 | 156 | 213440 | 22.36 | ug/l | | 85 |
| 78) n-propylbenzene | 12.16 | 91 | 908434 | 22.07 | ug/l | | 96 |
| 79) 2-Chlorotoluene | 12.23 | 91 | 520394 | 22.09 | ug/l | | 96 |
| 80) 1,3,5-Trimethylbenzene | 12.33 | 105 | 548716 | 22.07 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-buten | 11.85 | 75 | 35817 | 18.88 | ug/l | | 89 |
| 82) 4-Chlorotoluene | 12.34 | 91 | 582071 | 22.35 | ug/l | | 94 |
| 83) tert-Butylbenzene | 12.58 | 119 | 638866 | 22.35 | ug/l | | 92 |
| 84) 1,2,4-Trimethylbenzene | 12.63 | 105 | 601528 | 22.26 | ug/l | | 97 |
| 85) sec-Butylbenzene | 12.77 | 105 | 705667 | 21.06 | ug/l | | 95 |
| 86) p-Isopropyltoluene | 12.90 | 119 | 610141 | 22.47 | ug/l | | 95 |
| 87) 1,3-Dichlorobenzene | 12.85 | 146 | 355599 | 21.44 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.94 | 146 | 367860 | 22.71 | ug/l | | 96 |
| 89) n-Butylbenzene | 13.20 | 91 | 651749 | 22.84 | ug/l | | 97 |
| 90) Hexachloroethane | 13.41 | 117 | 151420 | 21.49 | ug/l | | 79 |
| 91) 1,2-Dichlorobenzene | 13.20 | 146 | 304850 | 21.59 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropropan | 13.78 | 75 | 21750 | 18.42 | ug/l | | 94 |

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD062318\
Data File : VD058342.D
Acq On : 23 Jun 2018 15:50
Operator : VA/AP
Sample : VD0623SBSD01
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** VD0623SBSD01

Quant Time: Jun 25 01:07:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 93) 1,2,4-Trichlorobenzene | 14.35 | 180 | 285788 | 21.17 | ug/l | 97 |
| 94) Hexachlorobutadiene | 14.44 | 225 | 206083 | 19.51 | ug/l | 99 |
| 95) Naphthalene | 14.52 | 128 | 360389 | 20.26 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180 | 239623 | 20.27 | ug/l | 98 |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
Data File : VD058342.D
Acq On : 23 Jun 2018 15:50
Operator : VA/AP
Sample : VD0623SBSD01
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0623SBSD01

Quant Time: Jun 25 01:07:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration