

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\  
 Data File : VF062291.D  
 Acq On : 25 Apr 2019 14:50  
 Operator : FY/SY  
 Sample : VF0425SBSD01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0425SBSD01

Quant Time: Apr 26 01:25:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F042419S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 25 08:40:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 419746   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 590047   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 408347   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 241737   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 183102   | 53.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 107.70% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 222259   | 50.80 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.60% |          |
| 50) Toluene-d8              | 7.71  | 98   | 494039   | 46.23 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 92.46%  |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 199592   | 45.31 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 90.62%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.00 | 85   | 109847   | 22.022  | ug/l   | 92     |
| 3) Chloromethane              | 1.14 | 50   | 83726    | 19.924  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.18 | 62   | 81905    | 20.580  | ug/l   | 99     |
| 5) Bromomethane               | 1.40 | 94   | 52600    | 19.462  | ug/l   | 89     |
| 6) Chloroethane               | 1.44 | 64   | 37263    | 21.359  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 1.56 | 101  | 132522   | 20.955  | ug/l   | 92     |
| 8) Diethyl Ether              | 1.71 | 74   | 22599    | 19.725  | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.91 | 101  | 82171    | 20.704  | ug/l   | 97     |
| 10) Methyl Iodide             | 1.99 | 142  | 137478   | 19.817  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 2.70 | 59   | 20274    | 98.575  | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 1.87 | 96   | 72976    | 20.608  | ug/l   | 97     |
| 13) Acrolein                  | 2.09 | 56   | 17468    | 95.850  | ug/l   | 91     |
| 14) Allyl chloride            | 2.20 | 41   | 73985    | 19.197  | ug/l # | 66     |
| 15) Acrylonitrile             | 3.08 | 53   | 56310    | 98.852  | ug/l   | 93     |
| 16) Acetone                   | 2.36 | 43   | 80311    | 105.499 | ug/l # | 88     |
| 17) Carbon Disulfide          | 1.91 | 76   | 177894   | 19.088  | ug/l   | 96     |
| 18) Methyl Acetate            | 2.46 | 43   | 32140    | 20.967  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 2.55 | 73   | 139895   | 20.722  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.35 | 84   | 74503m   | 19.728  | ug/l   |        |
| 21) trans-1,2-Dichloroethene  | 2.42 | 96   | 68789    | 19.656  | ug/l   | 98     |
| 22) Diisopropyl ether         | 2.94 | 45   | 207683   | 20.018  | ug/l   | 99     |
| 23) Vinyl Acetate             | 3.35 | 43   | 458422   | 99.642  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.01 | 63   | 125152   | 21.135  | ug/l   | 97     |
| 25) 2-Butanone                | 4.53 | 43   | 120517   | 99.845  | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 3.78 | 77   | 66252    | 21.545  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 3.65 | 96   | 88457    | 19.960  | ug/l   | 98     |
| 28) Bromochloromethane        | 3.90 | 49   | 50883    | 20.391  | ug/l # | 99     |
| 29) Tetrahydrofuran           | 4.27 | 42   | 51403    | 96.919  | ug/l   | 98     |
| 30) Chloroform                | 4.05 | 83   | 151168   | 20.330  | ug/l   | 99     |
| 31) Cyclohexane               | 3.87 | 56   | 108841   | 19.317  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 4.29 | 97   | 104523   | 17.904  | ug/l # | 86     |
| 36) 1,1-Dichloropropene       | 4.47 | 75   | 109412   | 20.099  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.32 | 43   | 44737    | 19.534  | ug/l   | 93     |
| 38) Carbon Tetrachloride      | 4.18 | 117  | 110454   | 19.959  | ug/l   | 95     |

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 Sample : VF0425SBSD01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0425SBSD01

Quant Time: Apr 26 01:25:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F042419S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 25 08:40:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.64  | 83   | 123017   | 19.358  | ug/l   | 99       |
| 40) Benzene                    | 4.82  | 78   | 263875   | 20.063  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.94  | 41   | 28078    | 22.069  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 5.13  | 62   | 86302    | 20.713  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 7.12  | 43   | 48118    | 20.379  | ug/l   | 97       |
| 44) Trichloroethene            | 5.69  | 130  | 91308    | 20.519  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 58034    | 19.570  | ug/l   | 94       |
| 46) Dibromomethane             | 6.26  | 93   | 46201    | 21.577  | ug/l   | 97       |
| 47) Bromodichloromethane       | 6.55  | 83   | 105519   | 20.962  | ug/l   | 94       |
| 48) Methyl methacrylate        | 6.88  | 41   | 30276    | 18.044  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 6.87  | 88   | 7772     | 402.268 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 177044   | 98.115  | ug/l   | 99       |
| 52) Toluene                    | 7.78  | 92   | 139288   | 18.353  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 73559    | 19.873  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene    | 7.46  | 75   | 89459    | 18.866  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 41350    | 19.184  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.75  | 69   | 43393    | 18.325  | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 65108    | 19.212  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.45  | 63   | 66072    | 91.697  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.62  | 43   | 112164   | 92.915  | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.86  | 129  | 68587    | 19.606  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 47071    | 18.869  | ug/l   | 95       |
| 64) Tetrachloroethene          | 8.30  | 164  | 71086    | 20.813  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.94  | 112  | 153272   | 20.540  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 74626    | 21.232  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.03 | 91   | 261659   | 20.170  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.26 | 106  | 198870   | 41.175  | ug/l   | 93       |
| 69) o-Xylene                   | 10.82 | 106  | 111240   | 20.615  | ug/l   | 99       |
| 70) Styrene                    | 10.89 | 104  | 154094   | 19.754  | ug/l   | 99       |
| 71) Bromoform                  | 10.88 | 173  | 41366    | 20.908  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.22 | 105  | 347054   | 20.954  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.45 | 43   | 77532    | 20.317  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 50269    | 19.104  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.87 | 75   | 40844    | 21.877  | ug/l # | 100      |
| 77) Bromobenzene               | 11.58 | 156  | 80488    | 19.439  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.67 | 91   | 355605   | 20.405  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 212296   | 20.224  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 297032   | 21.244  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 15559m   | 18.644  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 203118   | 19.555  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.19 | 119  | 305736   | 21.307  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 270641   | 19.986  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 371127   | 20.765  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 338837   | 21.146  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 153624   | 20.972  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 141771   | 20.412  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.89 | 91   | 315371   | 21.661  | ug/l   | 94       |
| 90) Hexachloroethane           | 12.97 | 117  | 85742    | 21.347  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 143801   | 20.451  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75   | 9865     | 18.584  | ug/l   | 93       |

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Sample : VF0425SBSD01  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0425SBSD01

Quant Time: Apr 26 01:25:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F042419S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 25 08:40:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.24 | 180  | 134411   | 21.759 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.23 | 225  | 95501    | 21.497 | ug/l  | 96       |
| 95) Naphthalene            | 14.49 | 128  | 200499   | 20.951 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 130402   | 22.320 | ug/l  | 98       |

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

