

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\  
 Data File : VF062684.D  
 Acq On : 21 May 2019 15:47  
 Operator : FY/SY  
 Sample : K2962-07RE  
 Misc : 4.18g/5mL/MSVOA F/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 DB-3-4FTRE

Quant Time: May 22 03:56:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 47318    | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 58838    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 31648    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 5882     | 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   | 4580     | 13.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 27.40% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 11182    | 24.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 49.68% |          |
| 50) Toluene-d8              | 7.72  | 98   | 33632    | 31.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 62.58% |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 6187     | 15.18 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 30.36% |          |

| Target Compounds              | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|------|------|----------|-----------|--------|--------|
| 3) Chloromethane              | 1.15 | 50   | 736      | 1.241     | ug/l # | 67     |
| 5) Bromomethane               | 1.37 | 94   | 1091     | 3.654     | ug/l   | 89     |
| 6) Chloroethane               | 1.54 | 64   | 1185     | 5.912     | ug/l   | 99     |
| 8) Diethyl Ether              | 1.75 | 74   | 455      | 3.134     | ug/l   | 92     |
| 11) Tert butyl alcohol        | 2.71 | 59   | 384      | 17.395    | ug/l # | 26     |
| 12) 1,1-Dichloroethene        | 1.88 | 96   | 1124     | 2.644     | ug/l # | 1      |
| 13) Acrolein                  | 2.17 | 56   | 351      | 15.232    | ug/l   | 96     |
| 14) Allyl chloride            | 2.22 | 41   | 868      | 2.256     | ug/l # | 63     |
| 15) Acrylonitrile             | 3.11 | 53   | 375      | 6.022     | ug/l # | 1      |
| 16) Acetone                   | 2.34 | 43   | 1688     | 19.459    | ug/l   | 97     |
| 18) Methyl Acetate            | 2.50 | 43   | 3072     | 22.536    | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 2.54 | 73   | 1371     | 1.804     | ug/l   | 92     |
| 20) Methylene Chloride        | 2.30 | 84   | 3252     | 7.479     | ug/l # | 69     |
| 21) trans-1,2-Dichloroethene  | 2.45 | 96   | 1326     | 3.192     | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.93 | 45   | 1561     | 1.645     | ug/l # | 71     |
| 23) Vinyl Acetate             | 3.34 | 43   | 1588     | 2.481     | ug/l # | 73     |
| 25) 2-Butanone                | 4.55 | 43   | 1148     | 6.194     | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 3.83 | 77   | 611      | 1.534     | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 3.65 | 96   | 805      | 1.178     | ug/l   | 12     |
| 29) Tetrahydrofuran           | 4.28 | 42   | 427      | 5.693     | ug/l # | 15     |
| 36) 1,1-Dichloropropene       | 4.50 | 75   | 804      | 1.334     | ug/l # | 48     |
| 37) Ethyl Acetate             | 4.29 | 43   | 879      | 3.571     | ug/l # | 37     |
| 41) Methacrylonitrile         | 4.98 | 41   | 1583     | 12.266    | ug/l # | 62     |
| 43) Isopropyl Acetate         | 7.08 | 43   | 511      | 1.602     | ug/l # | 43     |
| 46) Dibromomethane            | 6.28 | 93   | 324      | 1.352     | ug/l # | 31     |
| 48) Methyl methacrylate       | 6.91 | 41   | 1011     | 6.065     | ug/l # | 24     |
| 49) 1,4-Dioxane               | 6.88 | 88   | 133      | 62.295    | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone      | 8.55 | 43   | 274      | 1.257     | ug/l   | 92     |
| 52) Toluene                   | 7.78 | 92   | 2648     | 3.074     | ug/l   | 95     |
| 54) cis-1,3-Dichloropropene   | 7.46 | 75   | 641      | 1.125     | ug/l # | 89     |
| 55) 1,1,2-Trichloroethane     | 8.63 | 97   | 419      | 1.643     | ug/l # | 54     |
| 56) Ethyl methacrylate        | 8.78 | 69   | 540      | 1.777     | ug/l # | 34     |
| 58) 2-Chloroethyl Vinyl ether | 7.43 | 63   | 184      | 1.860     | ug/l # | 51     |
| 59) 2-Hexanone                | 9.71 | 43   | 1129     | Below Cal |        | 64     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 60) Dibromochloromethane       | 8.89  | 129  | 552      | 1.661  | ug/l # | 49       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.13 | 131  | 255      | 1.022  | ug/l # | 38       |
| 74) N-amyl acetate             | 11.48 | 43   | 788      | 2.186  | ug/l # | 37       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.76 | 83   | 386      | 4.480  | ug/l # | 23       |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 412      | 7.278  | ug/l   | 91       |
| 77) Bromobenzene               | 11.60 | 156  | 320      | 3.054  | ug/l # | 8        |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 522      | 20.745 | ug/l # | 58       |
| 82) 4-Chlorotoluene            | 12.03 | 91   | 877      | 3.163  | ug/l # | 37       |
| 84) 1,2,4-Trimethylbenzene     | 12.26 | 105  | 697      | 2.130  | ug/l # | 25       |
| 86) p-Isopropyltoluene         | 12.49 | 119  | 418      | 1.078  | ug/l # | 49       |
| 88) 1,4-Dichlorobenzene        | 12.74 | 146  | 276      | 1.551  | ug/l # | 24       |
| 90) Hexachloroethane           | 12.95 | 117  | 184      | 1.977  | ug/l # | 20       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.68 | 75   | 104      | 10.119 | ug/l # | 9        |
| -----                          |       |      |          |        |        |          |

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

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