

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\  
 Data File : VF061892.D  
 Acq On : 11 Mar 2019 16:28  
 Operator : VA/AP  
 Sample : K1824-09  
 Misc : 5.00µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-28

Quant Time: Mar 12 05:12:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.88  | 168  | 3591     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 4248     | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 2633     | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 841      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.86  | 65   | 440      | 16.83  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 33.66%  |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 1086     | 36.63  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 73.26%  |          |
| 50) Toluene-d8              | 7.56  | 98   | 4513     | 51.22  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.44% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 1151     | 33.35  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 66.70%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.99 | 85   | 89       | 2.019     | ug/l # | 47     |
| 3) Chloromethane              | 1.12 | 50   | 273      | 6.389     | ug/l # | 45     |
| 4) Vinyl Chloride             | 1.05 | 62   | 61       | 1.504     | ug/l # | 43     |
| 5) Bromomethane               | 1.31 | 94   | 361      | 13.060    | ug/l # | 3      |
| 6) Chloroethane               | 1.46 | 64   | 67       | 3.475     | ug/l # | 41     |
| 8) Diethyl Ether              | 1.76 | 74   | 143      | 12.694    | ug/l # | 1      |
| 9) 1,1,2-Trichlorotrifluoroet | 1.98 | 101  | 86       | 2.556     | ug/l # | 21     |
| 11) Tert butyl alcohol        | 2.42 | 59   | 96       | 64.676    | ug/l # | 64     |
| 12) 1,1-Dichloroethene        | 1.80 | 96   | 138      | 4.493     | ug/l # | 1      |
| 13) Acrolein                  | 2.04 | 56   | 273      | 145.150   | ug/l # | 42     |
| 14) Allyl chloride            | 2.09 | 41   | 394      | 11.645    | ug/l # | 20     |
| 15) Acrylonitrile             | 2.89 | 53   | 217      | 45.912    | ug/l # | 1      |
| 16) Acetone                   | 2.25 | 43   | 454      | 82.878    | ug/l # | 50     |
| 18) Methyl Acetate            | 2.38 | 43   | 2060     | 143.943   | ug/l # | 62     |
| 19) Methyl tert-butyl Ether   | 2.45 | 73   | 200      | 3.850     | ug/l # | 56     |
| 20) Methylene Chloride        | 2.18 | 84   | 110      | Below Cal | #      | 7      |
| 21) trans-1,2-Dichloroethene  | 2.30 | 96   | 70       | 2.422     | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.79 | 45   | 412      | 4.681     | ug/l # | 48     |
| 23) Vinyl Acetate             | 3.21 | 43   | 300      | 7.630     | ug/l # | 76     |
| 24) 1,1-Dichloroethane        | 2.86 | 63   | 179      | 3.403     | ug/l # | 85     |
| 25) 2-Butanone                | 4.36 | 43   | 160      | 14.359    | ug/l # | 56     |
| 26) 2,2-Dichloropropane       | 3.59 | 77   | 63       | 2.683     | ug/l # | 55     |
| 27) cis-1,2-Dichloroethene    | 3.47 | 96   | 61       | 1.523     | ug/l # | 1      |
| 28) Bromochloromethane        | 3.86 | 49   | 69       | 3.009     | ug/l # | 2      |
| 29) Tetrahydrofuran           | 4.09 | 42   | 82       | 17.064    | ug/l # | 33     |
| 30) Chloroform                | 3.84 | 83   | 67       | 1.115     | ug/l # | 15     |
| 31) Cyclohexane               | 3.67 | 56   | 66       | 1.198     | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 4.25 | 75   | 64       | 1.595     | ug/l # | 1      |
| 37) Ethyl Acetate             | 4.14 | 43   | 311      | 18.465    | ug/l # | 20     |
| 40) Benzene                   | 4.63 | 78   | 124      | 1.182     | ug/l # | 51     |
| 41) Methacrylonitrile         | 4.72 | 41   | 348      | 37.712    | ug/l # | 37     |
| 43) Isopropyl Acetate         | 6.96 | 43   | 140      | 6.743     | ug/l # | 42     |
| 45) 1,2-Dichloropropane       | 6.22 | 63   | 78       | 3.127     | ug/l # | 45     |
| 47) Bromodichloromethane      | 6.25 | 83   | 67       | 1.932     | ug/l # | 24     |

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 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 48) Methyl methacrylate        | 6.66  | 41   | 125      | 9.513  | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone       | 8.21  | 43   | 79       | 5.506  | ug/l # | 35       |
| 52) Toluene                    | 7.62  | 92   | 67       | 1.080  | ug/l   | 88       |
| 57) 1,3-Dichloropropane        | 8.96  | 76   | 77       | 2.634  | ug/l # | 43       |
| 59) 2-Hexanone                 | 9.49  | 43   | 148      | 14.297 | ug/l # | 22       |
| 70) Styrene                    | 10.67 | 104  | 83       | 1.705  | ug/l # | 33       |
| 74) N-amyl acetate             | 11.38 | 43   | 215      | 16.130 | ug/l # | 42       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.68 | 83   | 65       | 6.755  | ug/l # | 23       |
| 78) n-propylbenzene            | 11.68 | 91   | 66       | 1.009  | ug/l # | 54       |
| 79) 2-Chlorotoluene            | 11.68 | 91   | 66       | 1.766  | ug/l # | 39       |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 66       | 1.209  | ug/l # | 50       |
| 89) n-Butylbenzene             | 12.72 | 91   | 68       | 1.303  | ug/l # | 26       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.52 | 75   | 96       | 56.889 | ug/l # | 1        |

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

