

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\  
 Data File : VF061547.D  
 Acq On : 7 Feb 2019 16:15  
 Operator : VA/AP  
 Sample : K1401-03  
 Misc : 6.54g/5mL/MSVOA-F/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 RBR-200028

Quant Time: Feb 09 04:35:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 04:51:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 13697    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 19629    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 14113    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 4418     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 4331     | 25.61 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 51.22% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 5760     | 37.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.38% |          |
| 50) Toluene-d8              | 7.56  | 98   | 19590    | 46.16 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.32% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 5445     | 27.46 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 54.92% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|----------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane           | 1.09  | 50   | 585      | 2.965     | ug/l # | 44     |
| 5) Bromomethane            | 1.34  | 94   | 192      | 1.677     | ug/l # | 2      |
| 8) Diethyl Ether           | 1.71  | 74   | 85       | 1.944     | ug/l   | 95     |
| 11) Tert butyl alcohol     | 2.55  | 59   | 60       | 8.382     | ug/l # | 64     |
| 13) Acrolein               | 1.95  | 56   | 711      | 120.888   | ug/l   | 88     |
| 14) Allyl chloride         | 2.07  | 41   | 264      | Below Cal | #      | 58     |
| 15) Acrylonitrile          | 2.91  | 53   | 488      | 26.615    | ug/l # | 63     |
| 16) Acetone                | 2.24  | 43   | 299      | 8.814     | ug/l   | 98     |
| 18) Methyl Acetate         | 2.40  | 43   | 1074     | 15.964    | ug/l   | 93     |
| 20) Methylene Chloride     | 2.18  | 84   | 470      | 2.409     | ug/l # | 54     |
| 22) Diisopropyl ether      | 2.76  | 45   | 762      | 1.758     | ug/l # | 10     |
| 23) Vinyl Acetate          | 3.20  | 43   | 463      | 5.591     | ug/l # | 78     |
| 25) 2-Butanone             | 4.30  | 43   | 249      | 4.414     | ug/l # | 57     |
| 28) Bromochloromethane     | 3.84  | 49   | 156      | 1.276     | ug/l # | 8      |
| 29) Tetrahydrofuran        | 4.09  | 42   | 144      | 5.928     | ug/l # | 63     |
| 37) Ethyl Acetate          | 4.09  | 43   | 146      | 1.605     | ug/l # | 5      |
| 41) Methacrylonitrile      | 4.71  | 41   | 138      | 2.851     | ug/l # | 29     |
| 43) Isopropyl Acetate      | 6.97  | 43   | 244      | 2.137     | ug/l # | 51     |
| 48) Methyl methacrylate    | 6.72  | 41   | 288      | 3.756     | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone   | 8.23  | 43   | 491      | 5.849     | ug/l # | 60     |
| 59) 2-Hexanone             | 9.49  | 43   | 481      | 8.218     | ug/l # | 26     |
| 73) Isopropylbenzene       | 11.13 | 105  | 1270     | 3.534     | ug/l   | 92     |
| 74) N-ethyl acetate        | 11.38 | 43   | 251      | 2.954     | ug/l # | 47     |
| 80) 1,3,5-Trimethylbenzene | 11.83 | 105  | 705      | 2.431     | ug/l   | 90     |
| 84) 1,2,4-Trimethylbenzene | 12.20 | 105  | 1457     | 4.878     | ug/l   | 79     |
| 86) p-Isopropyltoluene     | 12.46 | 119  | 2129     | 6.363     | ug/l   | 92     |
| 89) n-Butylbenzene         | 12.85 | 91   | 352      | 1.020     | ug/l # | 27     |
| 95) Naphthalene            | 14.45 | 128  | 835      | 4.419     | ug/l # | 71     |

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

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