

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011019\  
 Data File : VF061342.D  
 Acq On : 10 Jan 2019 14:21  
 Operator : VA/AP  
 Sample : K1006-07RE  
 Misc : 6.48g/5mL/MSVOA-F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-03-010819-DRE

Quant Time: Jan 11 00:30:32 2019  
 Quant Method : Z:\HPCHEM1\MSVOA\_F\METHODS\82F010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 07:13:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 2193     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 3189     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.79  | 117  | 2073     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 648      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 392      | 16.06 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 32.12% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 832      | 34.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 68.20% |          |
| 50) Toluene-d8              | 7.56  | 98   | 3488     | 48.30 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.60% |          |
| 62) 4-Bromofluorobenzene    | 11.43 | 95   | 924      | 29.30 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 58.60% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane              | 1.05  | 50   | 70       | 1.942   | ug/l # | 40     |
| 5) Bromomethane               | 1.27  | 94   | 772      | 30.578  | ug/l # | 6      |
| 6) Chloroethane               | 1.33  | 64   | 75       | 4.770   | ug/l # | 45     |
| 8) Diethyl Ether              | 1.55  | 74   | 77       | 9.608   | ug/l   | 85     |
| 11) Tert butyl alcohol        | 2.45  | 59   | 68       | 69.579  | ug/l # | 58     |
| 12) 1,1-Dichloroethene        | 1.75  | 96   | 64       | 2.777   | ug/l # | 1      |
| 13) Acrolein                  | 1.97  | 56   | 283      | 267.797 | ug/l   | 84     |
| 14) Allyl chloride            | 2.10  | 41   | 504      | 11.965  | ug/l # | 55     |
| 15) Acrylonitrile             | 2.92  | 53   | 157      | 45.316  | ug/l # | 12     |
| 16) Acetone                   | 2.19  | 43   | 1104     | 194.427 | ug/l # | 55     |
| 18) Methyl Acetate            | 2.35  | 43   | 762      | 68.208  | ug/l # | 65     |
| 19) Methyl tert-butyl Ether   | 2.46  | 73   | 62       | 1.412   | ug/l # | 57     |
| 20) Methylene Chloride        | 2.02  | 84   | 66       | 2.747   | ug/l # | 1      |
| 21) trans-1,2-Dichloroethene  | 2.35  | 96   | 188      | 7.699   | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.82  | 45   | 637      | 7.817   | ug/l # | 62     |
| 23) Vinyl Acetate             | 3.16  | 43   | 573      | 24.043  | ug/l # | 77     |
| 24) 1,1-Dichloroethane        | 2.83  | 63   | 88       | 1.867   | ug/l # | 87     |
| 25) 2-Butanone                | 4.35  | 43   | 160      | 17.507  | ug/l # | 56     |
| 26) 2,2-Dichloropropane       | 3.61  | 77   | 79       | 2.508   | ug/l # | 60     |
| 27) cis-1,2-Dichloroethene    | 3.35  | 96   | 91       | 2.669   | ug/l   | 1      |
| 29) Tetrahydrofuran           | 4.05  | 42   | 188      | 49.200  | ug/l # | 36     |
| 31) Cyclohexane               | 3.69  | 56   | 170      | 3.438   | ug/l # | 14     |
| 37) Ethyl Acetate             | 4.12  | 43   | 168      | 12.388  | ug/l # | 1      |
| 41) Methacrylonitrile         | 4.73  | 41   | 125      | 16.506  | ug/l # | 24     |
| 43) Isopropyl Acetate         | 6.94  | 43   | 128      | 7.149   | ug/l # | 45     |
| 48) Methyl methacrylate       | 6.69  | 41   | 100      | 8.605   | ug/l # | 21     |
| 51) 4-Methyl-2-Pentanone      | 8.22  | 43   | 508      | 37.591  | ug/l # | 38     |
| 52) Toluene                   | 7.63  | 92   | 98       | 1.754   | ug/l   | 95     |
| 59) 2-Hexanone                | 9.50  | 43   | 326      | 34.050  | ug/l   | 97     |
| 67) Ethyl Benzene             | 9.91  | 91   | 362      | 4.485   | ug/l # | 48     |
| 68) m/p-Xylenes               | 10.16 | 106  | 234      | 8.311   | ug/l # | 3      |
| 73) Isopropylbenzene          | 11.16 | 105  | 60       | 1.052   | ug/l # | 49     |
| 74) N-amyl acetate            | 11.38 | 43   | 115      | 8.872   | ug/l # | 12     |
| 75) 1,1,2,2-Tetrachloroethane | 11.81 | 83   | 60       | 6.636   | ug/l # | 25     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 78) n-propylbenzene            | 11.60 | 91   | 97       | 1.427  | ug/l # | 55       |
| 79) 2-Chlorotoluene            | 11.74 | 91   | 158      | 4.171  | ug/l # | 41       |
| 80) 1,3,5-Trimethylbenzene     | 11.84 | 105  | 426      | 9.389  | ug/l # | 27       |
| 82) 4-Chlorotoluene            | 11.93 | 91   | 74       | 1.923  | ug/l # | 42       |
| 83) tert-Butylbenzene          | 12.25 | 119  | 72       | 1.593  | ug/l # | 29       |
| 84) 1,2,4-Trimethylbenzene     | 12.22 | 105  | 1119     | 24.841 | ug/l   | 77       |
| 85) sec-Butylbenzene           | 12.32 | 105  | 404      | 6.277  | ug/l # | 57       |
| 86) p-Isopropyltoluene         | 12.48 | 119  | 280      | 5.348  | ug/l # | 50       |
| 89) n-Butylbenzene             | 12.85 | 91   | 415      | 7.715  | ug/l # | 76       |
| 91) 1,2-Dichlorobenzene        | 12.94 | 146  | 129      | 6.101  | ug/l # | 23       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 72       | 47.133 | ug/l # | 1        |
| 95) Naphthalene                | 14.47 | 128  | 104      | 3.793  | ug/l # | 70       |
| 96) 1,2,3-Trichlorobenzene     | 14.61 | 180  | 65       | 4.742  | ug/l # | 13       |
| -----                          |       |      |          |        |        |          |

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

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