

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051719\  
 Data File : VF062647.D  
 Acq On : 17 May 2019 19:19  
 Operator : FY/SY  
 Sample : K2894-13  
 Misc : 5.01g/5mL/MSVOA F/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SB-08-5-6

Quant Time: May 18 01:43:35 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  | 70941    | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 88195    | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 41144    | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 6540     | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 4864     | 9.70  | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 19.40% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 16627    | 24.64 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 49.28% |          |
| 50) Toluene-d8              | 7.71  | 98   | 48992    | 30.40 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 60.80% |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 7693     | 12.59 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 25.18% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.01  | 85   | 1339     | 1.387     | ug/l # | 67     |
| 4) Vinyl Chloride              | 1.20  | 62   | 883      | 1.079     | ug/l   | 89     |
| 5) Bromomethane                | 1.38  | 94   | 866      | 1.935     | ug/l # | 52     |
| 6) Chloroethane                | 1.33  | 64   | 624      | 2.076     | ug/l   | 97     |
| 11) Tert butyl alcohol         | 2.69  | 59   | 254      | 7.675     | ug/l # | 1      |
| 12) 1,1-Dichloroethene         | 1.83  | 96   | 793      | 1.244     | ug/l # | 1      |
| 13) Acrolein                   | 1.98  | 56   | 804      | 23.272    | ug/l   | 90     |
| 14) Allyl chloride             | 2.17  | 41   | 1912     | 3.315     | ug/l # | 46     |
| 15) Acrylonitrile              | 3.20  | 53   | 837      | 8.965     | ug/l   | 90     |
| 16) Acetone                    | 2.35  | 43   | 1154     | 8.873     | ug/l # | 36     |
| 18) Methyl Acetate             | 2.41  | 43   | 1233     | 6.033     | ug/l # | 52     |
| 23) Vinyl Acetate              | 3.35  | 43   | 1393     | 1.452     | ug/l # | 73     |
| 25) 2-Butanone                 | 4.50  | 43   | 345      | 1.242     | ug/l   | 91     |
| 26) 2,2-Dichloropropane        | 3.81  | 77   | 1072     | 1.795     | ug/l   | 94     |
| 27) cis-1,2-Dichloroethene     | 3.63  | 96   | 1103     | 1.077     | ug/l   | 52     |
| 29) Tetrahydrofuran            | 4.28  | 42   | 1415     | 12.584    | ug/l # | 46     |
| 36) 1,1-Dichloropropene        | 4.50  | 75   | 983      | 1.088     | ug/l # | 26     |
| 37) Ethyl Acetate              | 4.30  | 43   | 842      | 2.282     | ug/l # | 41     |
| 41) Methacrylonitrile          | 4.96  | 41   | 1494     | 7.723     | ug/l # | 79     |
| 43) Isopropyl Acetate          | 7.11  | 43   | 1461     | 3.056     | ug/l # | 81     |
| 46) Dibromomethane             | 6.26  | 93   | 449      | 1.250     | ug/l # | 21     |
| 48) Methyl methacrylate        | 6.91  | 41   | 541      | 2.165     | ug/l # | 47     |
| 49) 1,4-Dioxane                | 6.88  | 88   | 60       | 18.748    | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.47  | 43   | 1001     | 3.063     | ug/l   | 95     |
| 58) 2-Chloroethyl Vinyl ether  | 7.41  | 63   | 206      | 1.390     | ug/l # | 51     |
| 59) 2-Hexanone                 | 9.51  | 43   | 1355     | Below Cal |        | 63     |
| 70) Styrene                    | 10.90 | 104  | 1130     | 1.368     | ug/l # | 56     |
| 73) Isopropylbenzene           | 11.21 | 105  | 672      | 1.434     | ug/l # | 45     |
| 74) N-amyl acetate             | 11.44 | 43   | 1511     | 8.153     | ug/l # | 63     |
| 76) 1,2,3-Trichloropropane     | 12.00 | 75   | 454      | 7.213     | ug/l   | 99     |
| 78) n-propylbenzene            | 11.67 | 91   | 745      | 1.343     | ug/l   | 80     |
| 79) 2-Chlorotoluene            | 11.82 | 91   | 1101     | 3.522     | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 248      | 8.864     | ug/l # | 26     |
| 82) 4-Chlorotoluene            | 12.00 | 91   | 726      | 2.355     | ug/l   | 92     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 83) tert-Butylbenzene          | 12.19 | 119  | 646      | 1.694  | ug/l # | 77       |
| 84) 1,2,4-Trimethylbenzene     | 12.12 | 105  | 470      | 1.292  | ug/l   | 83       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 647      | 1.264  | ug/l # | 1        |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 608      | 1.410  | ug/l # | 71       |
| 87) 1,3-Dichlorobenzene        | 12.53 | 146  | 214      | 1.015  | ug/l # | 70       |
| 88) 1,4-Dichlorobenzene        | 12.61 | 146  | 234      | 1.183  | ug/l # | 24       |
| 89) n-Butylbenzene             | 12.87 | 91   | 874      | 2.055  | ug/l # | 25       |
| 90) Hexachloroethane           | 12.97 | 117  | 110      | 1.063  | ug/l # | 20       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75   | 143      | 12.514 | ug/l # | 1        |
| 94) Hexachlorobutadiene        | 14.33 | 225  | 189      | 2.014  | ug/l # | 53       |

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

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