

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041919\  
 Data File : VF062225.D  
 Acq On : 19 Apr 2019 15:20  
 Operator : FY/SY  
 Sample : K2196-05  
 Misc : 7.38g/5mL/MSVOA F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 HD-01-041619

Quant Time: Apr 19 15:54:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 19 03:56:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.07  | 168  | 11900    | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 11357    | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 3936     | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 410      | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.06  | 65   | 2016     | 18.48  | ug/l   | 0.04     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 36.96% |          |
| 35) Dibromofluoromethane    | 4.32  | 113  | 3381     | 34.03  | ug/l   | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 68.06% |          |
| 50) Toluene-d8              | 7.72  | 98   | 5175     | 20.58  | ug/l   | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 41.16% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 2516     | 26.01  | ug/l   | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 52.02% |          |

| Target Compounds             | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|------------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.02 | 85   | 394      | 2.179     | ug/l # | 42     |
| 3) Chloromethane             | 1.17 | 50   | 347      | 1.856     | ug/l # | 79     |
| 5) Bromomethane              | 1.44 | 94   | 360      | 3.859     | ug/l # | 6      |
| 8) Diethyl Ether             | 1.75 | 74   | 89       | 2.096     | ug/l # | 1      |
| 11) Tert butyl alcohol       | 2.74 | 59   | 196      | 25.841    | ug/l # | 21     |
| 12) 1,1-Dichloroethene       | 1.90 | 96   | 607      | 4.579     | ug/l # | 1      |
| 13) Acrolein                 | 2.06 | 56   | 160      | Below Cal | #      | 1      |
| 14) Allyl chloride           | 2.23 | 41   | 513      | 3.372     | ug/l # | 54     |
| 15) Acrylonitrile            | 3.12 | 53   | 230      | 9.956     | ug/l # | 1      |
| 16) Acetone                  | 2.38 | 43   | 556      | 21.318    | ug/l # | 52     |
| 18) Methyl Acetate           | 2.46 | 43   | 2908     | 51.990    | ug/l # | 59     |
| 20) Methylene Chloride       | 2.31 | 84   | 1101     | 2.668     | ug/l # | 72     |
| 21) trans-1,2-Dichloroethene | 2.42 | 96   | 464      | 3.540     | ug/l # | 1      |
| 22) Diisopropyl ether        | 2.93 | 45   | 635      | 1.632     | ug/l # | 46     |
| 23) Vinyl Acetate            | 3.42 | 43   | 2191     | 11.817    | ug/l # | 79     |
| 25) 2-Butanone               | 4.53 | 43   | 746      | 14.304    | ug/l # | 56     |
| 26) 2,2-Dichloropropane      | 3.71 | 77   | 445      | 4.140     | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene   | 3.68 | 96   | 390      | 2.297     | ug/l   | 28     |
| 29) Tetrahydrofuran          | 4.28 | 42   | 484      | 20.504    | ug/l # | 66     |
| 30) Chloroform               | 4.30 | 83   | 276      | 1.055     | ug/l   | 98     |
| 31) Cyclohexane              | 3.92 | 56   | 431      | 1.689     | ug/l # | 56     |
| 32) 1,1,1-Trichloroethane    | 4.33 | 97   | 318      | 1.661     | ug/l # | 17     |
| 37) Ethyl Acetate            | 4.27 | 43   | 582      | 9.058     | ug/l # | 74     |
| 39) Methylcyclohexane        | 5.62 | 83   | 221      | 1.356     | ug/l # | 14     |
| 40) Benzene                  | 4.84 | 78   | 684      | 1.915     | ug/l # | 52     |
| 41) Methacrylonitrile        | 4.93 | 41   | 584      | 15.757    | ug/l # | 18     |
| 42) 1,2-Dichloroethane       | 5.06 | 62   | 122      | 1.292     | ug/l # | 1      |
| 43) Isopropyl Acetate        | 7.12 | 43   | 600      | 8.879     | ug/l # | 45     |
| 45) 1,2-Dichloropropane      | 6.40 | 63   | 120      | 1.525     | ug/l # | 42     |
| 46) Dibromomethane           | 6.26 | 93   | 133      | 2.541     | ug/l # | 3      |
| 47) Bromodichloromethane     | 6.55 | 83   | 162      | 1.372     | ug/l # | 24     |
| 48) Methyl methacrylate      | 6.85 | 41   | 279      | 6.282     | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone     | 8.55 | 43   | 430      | 8.555     | ug/l   | 100    |
| 52) Toluene                  | 7.79 | 92   | 516      | 2.741     | ug/l # | 1      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041919\  
 Data File : VF062225.D  
 Acq On : 19 Apr 2019 15:20  
 Operator : FY/SY  
 Sample : K2196-05  
 Misc : 7.38g/5mL/MSVOA F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 HD-01-041619

Quant Time: Apr 19 15:54:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 19 03:56:19 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 128      | 1.443   | ug/l # | 54       |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 148      | 2.806   | ug/l # | 36       |
| 56) Ethyl methacrylate         | 8.74  | 69   | 1002     | 16.710  | ug/l # | 1        |
| 57) 1,3-Dichloropropane        | 9.13  | 76   | 131      | 1.538   | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether  | 7.29  | 63   | 195      | 11.201  | ug/l   | 93       |
| 59) 2-Hexanone                 | 9.65  | 43   | 827      | 26.507  | ug/l # | 54       |
| 61) 1,2-Dibromoethane          | 9.19  | 107  | 84       | 1.414   | ug/l   | 96       |
| 64) Tetrachloroethene          | 8.23  | 164  | 79       | 2.223   | ug/l # | 1        |
| 65) Chlorobenzene              | 9.98  | 112  | 139      | 1.656   | ug/l # | 42       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.01 | 131  | 68       | 1.730   | ug/l # | 8        |
| 67) Ethyl Benzene              | 10.09 | 91   | 1787     | 11.709  | ug/l # | 44       |
| 68) m/p-Xylenes                | 10.21 | 106  | 99       | 1.762   | ug/l # | 45       |
| 69) o-Xylene                   | 10.82 | 106  | 412      | 6.605   | ug/l   | 85       |
| 70) Styrene                    | 10.90 | 104  | 229      | 2.602   | ug/l # | 20       |
| 73) Isopropylbenzene           | 11.32 | 105  | 315      | 8.944   | ug/l   | 88       |
| 74) N-amyl acetate             | 11.42 | 43   | 559      | 67.672  | ug/l # | 48       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.76 | 83   | 122      | 20.142  | ug/l # | 93       |
| 76) 1,2,3-Trichloropropane     | 11.85 | 75   | 134      | 32.156  | ug/l # | 1        |
| 77) Bromobenzene               | 11.55 | 156  | 66       | 8.748   | ug/l # | 1        |
| 78) n-propylbenzene            | 11.68 | 91   | 1579     | 42.500  | ug/l # | 63       |
| 79) 2-Chlorotoluene            | 11.79 | 91   | 1335     | 59.236  | ug/l # | 49       |
| 80) 1,3,5-Trimethylbenzene     | 11.80 | 105  | 300      | 10.227  | ug/l   | 65       |
| 81) trans-1,4-Dichloro-2-buten | 11.92 | 75   | 93       | 43.760  | ug/l # | 19       |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 1049     | 48.163  | ug/l # | 59       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 715      | 23.571  | ug/l # | 17       |
| 84) 1,2,4-Trimethylbenzene     | 12.18 | 105  | 316      | 11.132  | ug/l   | 90       |
| 85) sec-Butylbenzene           | 12.61 | 105  | 357      | 9.065   | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 587      | 17.571  | ug/l # | 57       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 298      | 21.285  | ug/l # | 18       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 118      | 8.738   | ug/l # | 1        |
| 89) n-Butylbenzene             | 12.90 | 91   | 750      | 24.669  | ug/l # | 36       |
| 90) Hexachloroethane           | 12.98 | 117  | 205      | 23.897  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 63       | 4.660   | ug/l # | 1        |
| 92) 1,2-Dibromo-3-Chloropropan | 13.66 | 75   | 278      | 233.611 | ug/l # | 16       |
| 93) 1,2,4-Trichlorobenzene     | 14.18 | 180  | 64       | 5.658   | ug/l # | 1        |
| 95) Naphthalene                | 14.48 | 128  | 330      | 16.686  | ug/l # | 69       |
| -----                          |       |      |          |         |        |          |

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

