

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\  
 Data File : VF062426.D  
 Acq On : 10 May 2019 16:31  
 Operator : FY/SY  
 Sample : K2645-01RE  
 Misc : 6.61g/5mL/MSVOA F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 PL-02-050719-ARE

Quant Time: May 10 17:14:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 23418    | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 15383    | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 6416     | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 409      | 50.00 | ug/l  | 0.02     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.02   | 65  | 1554     | 7.02  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 14.04%  |      |
| 35) Dibromofluoromethane  | 4.31   | 113 | 3356     | 27.38 | ug/l    | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 54.76%  |      |
| 50) Toluene-d8            | 7.72   | 98  | 14932    | 50.33 | ug/l    | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.66% |      |
| 62) 4-Bromofluorobenzene  | 11.49  | 95  | 2360     | 17.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 35.26%  |      |

## Target Compounds

|                               |      |     |      |           | Qvalue |    |
|-------------------------------|------|-----|------|-----------|--------|----|
| 3) Chloromethane              | 1.15 | 50  | 210  | 1.175     | ug/l # | 42 |
| 4) Vinyl Chloride             | 1.24 | 62  | 320  | 1.795     | ug/l # | 42 |
| 5) Bromomethane               | 1.43 | 94  | 150  | Below Cal | #      | 3  |
| 6) Chloroethane               | 1.48 | 64  | 131  | 1.461     | ug/l # | 41 |
| 8) Diethyl Ether              | 1.79 | 74  | 96   | 1.715     | ug/l   | 42 |
| 11) Tert butyl alcohol        | 2.77 | 59  | 215  | 17.189    | ug/l # | 70 |
| 12) 1,1-Dichloroethene        | 1.91 | 96  | 186  | 1.036     | ug/l # | 1  |
| 13) Acrolein                  | 2.12 | 56  | 72   | Below Cal | #      | 1  |
| 14) Allyl chloride            | 2.18 | 41  | 866  | 5.460     | ug/l # | 20 |
| 15) Acrylonitrile             | 3.11 | 53  | 66   | 2.786     | ug/l # | 1  |
| 16) Acetone                   | 2.38 | 43  | 538  | 12.017    | ug/l # | 62 |
| 18) Methyl Acetate            | 2.51 | 43  | 1609 | 17.683    | ug/l # | 74 |
| 19) Methyl tert-butyl Ether   | 2.55 | 73  | 1339 | 3.613     | ug/l # | 43 |
| 21) trans-1,2-Dichloroethene  | 2.43 | 96  | 177  | 1.035     | ug/l # | 1  |
| 23) Vinyl Acetate             | 3.37 | 43  | 746  | 3.377     | ug/l # | 79 |
| 25) 2-Butanone                | 4.53 | 43  | 212  | 3.769     | ug/l # | 60 |
| 26) 2,2-Dichloropropane       | 3.76 | 77  | 334  | 1.996     | ug/l # | 58 |
| 29) Tetrahydrofuran           | 4.29 | 42  | 134  | 5.184     | ug/l # | 62 |
| 36) 1,1-Dichloropropene       | 4.46 | 75  | 133  | 1.006     | ug/l # | 1  |
| 37) Ethyl Acetate             | 4.28 | 43  | 200  | Below Cal | #      | 73 |
| 38) Carbon Tetrachloride      | 4.42 | 117 | 60   | Below Cal | #      | 14 |
| 41) Methacrylonitrile         | 4.93 | 41  | 239  | 7.543     | ug/l # | 1  |
| 42) 1,2-Dichloroethane        | 5.21 | 62  | 125  | 1.027     | ug/l # | 82 |
| 43) Isopropyl Acetate         | 7.11 | 43  | 419  | 6.971     | ug/l # | 77 |
| 45) 1,2-Dichloropropane       | 6.45 | 63  | 134  | 2.033     | ug/l # | 43 |
| 48) Methyl methacrylate       | 6.91 | 41  | 177  | 4.167     | ug/l # | 12 |
| 51) 4-Methyl-2-Pentanone      | 8.28 | 43  | 226  | 4.962     | ug/l   | 92 |
| 54) cis-1,3-Dichloropropene   | 7.49 | 75  | 146  | 1.214     | ug/l # | 41 |
| 55) 1,1,2-Trichloroethane     | 8.59 | 97  | 160  | 2.808     | ug/l # | 14 |
| 56) Ethyl methacrylate        | 8.74 | 69  | 244  | 4.056     | ug/l # | 1  |
| 58) 2-Chloroethyl Vinyl ether | 7.49 | 63  | 93   | 5.142     | ug/l # | 42 |
| 59) 2-Hexanone                | 9.63 | 43  | 267  | 8.476     | ug/l # | 28 |
| 60) Dibromochloromethane      | 8.82 | 129 | 213  | 2.285     | ug/l # | 11 |
| 61) 1,2-Dibromoethane         | 9.11 | 107 | 67   | 1.000     | ug/l # | 1  |

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 ClientSampleId :  
 PL-02-050719-ARE

Quant Time: May 10 17:14:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 64) Tetrachloroethene          | 8.29  | 164  | 65       | 1.248   | ug/l # | 1        |
| 66) 1,1,1,2-Tetrachloroethane  | 10.05 | 131  | 98       | 1.830   | ug/l # | 1        |
| 67) Ethyl Benzene              | 10.03 | 91   | 311      | 1.673   | ug/l # | 45       |
| 68) m/p-Xylenes                | 10.23 | 106  | 99       | 1.443   | ug/l # | 21       |
| 71) Bromoform                  | 10.86 | 173  | 283      | 9.646   | ug/l # | 70       |
| 73) Isopropylbenzene           | 11.16 | 105  | 342      | 14.105  | ug/l   | 87       |
| 74) N-amyl acetate             | 11.43 | 43   | 966      | 185.572 | ug/l # | 62       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.74 | 83   | 403      | 106.151 | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane     | 11.90 | 75   | 114      | 39.358  | ug/l # | 100      |
| 77) Bromobenzene               | 11.55 | 156  | 426      | 66.944  | ug/l # | 1        |
| 78) n-propylbenzene            | 11.73 | 91   | 533      | 20.647  | ug/l   | 82       |
| 79) 2-Chlorotoluene            | 11.78 | 91   | 1260     | 78.494  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene     | 11.94 | 105  | 859      | 40.419  | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-buten | 11.93 | 75   | 108      | 99.196  | ug/l # | 1        |
| 82) 4-Chlorotoluene            | 11.97 | 91   | 519      | 32.736  | ug/l # | 39       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 673      | 30.132  | ug/l # | 36       |
| 84) 1,2,4-Trimethylbenzene     | 12.17 | 105  | 432      | 20.771  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 12.35 | 105  | 224      | 8.240   | ug/l   | 79       |
| 86) p-Isopropyltoluene         | 12.49 | 119  | 300      | 11.877  | ug/l # | 44       |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 373      | 32.094  | ug/l # | 1        |
| 88) 1,4-Dichlorobenzene        | 12.60 | 146  | 518      | 46.179  | ug/l # | 42       |
| 89) n-Butylbenzene             | 12.68 | 91   | 342      | 15.219  | ug/l   | 71       |
| 90) Hexachloroethane           | 13.20 | 117  | 253      | 40.116  | ug/l   | 75       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 347      | 30.847  | ug/l # | 1        |
| 92) 1,2-Dibromo-3-Chloropropan | 13.67 | 75   | 75       | 88.180  | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 14.04 | 180  | 67       | 6.640   | ug/l # | 11       |
| 95) Naphthalene                | 14.49 | 128  | 209      | 13.778  | ug/l # | 39       |
| -----                          |       |      |          |         |        |          |

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

