

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090618\  
 Data File : VF060203.D  
 Acq On : 6 Sep 2018 15:56  
 Operator : VA/AP  
 Sample : VSTDIC075  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC075

Quant Time: Sep 07 02:01:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 07 01:56:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 155927   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 221626   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 228242   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.64 | 152  | 146177   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |         |       |
|---------------------------|-------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 5.02  | 65  | 203209   | 75.00 | ug/l    | 0.00  |
| Spiked Amount 50.000      |       |     | Recovery | =     | 150.00% |       |
| 35) Dibromofluoromethane  | 4.29  | 113 | 157943   | 73.02 | ug/l    | -0.01 |
| Spiked Amount 50.000      |       |     | Recovery | =     | 146.04% |       |
| 50) Toluene-d8            | 7.71  | 98  | 394660   | 73.31 | ug/l    | 0.00  |
| Spiked Amount 50.000      |       |     | Recovery | =     | 146.62% |       |
| 62) 4-Bromofluorobenzene  | 11.51 | 95  | 210491   | 69.06 | ug/l    | 0.00  |
| Spiked Amount 50.000      |       |     | Recovery | =     | 138.12% |       |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 196923 | 68.95  | ug/l   | 97     |
| 3) Chloromethane              | 1.07 | 50  | 97662  | 62.25  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.12 | 62  | 88592  | 74.29  | ug/l   | 100    |
| 5) Bromomethane               | 1.32 | 94  | 73937  | 68.83  | ug/l   | 99     |
| 6) Chloroethane               | 1.40 | 64  | 53367  | 68.68  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 236809 | 70.56  | ug/l   | 95     |
| 8) Diethyl Ether              | 1.70 | 74  | 34169  | 68.33  | ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.86 | 101 | 114520 | 69.43  | ug/l   | 97     |
| 10) Methyl Iodide             | 1.93 | 142 | 106311 | 73.63  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 2.69 | 59  | 43419  | 361.05 | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 1.83 | 96  | 79534  | 71.54  | ug/l   | 93     |
| 13) Acrolein                  | 2.09 | 56  | 19409  | 304.31 | ug/l # | 72     |
| 14) Allyl chloride            | 2.19 | 41  | 117408 | 70.39  | ug/l   | 97     |
| 15) Acrylonitrile             | 3.08 | 53  | 75548  | 368.76 | ug/l # | 89     |
| 16) Acetone                   | 2.34 | 43  | 230446 | 390.94 | ug/l   | 99     |
| 17) Carbon Disulfide          | 1.84 | 76  | 247096 | 76.01  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.45 | 43  | 67917  | 71.23  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 2.53 | 73  | 276564 | 75.35  | ug/l   | 96     |
| 20) Methylene Chloride        | 2.28 | 84  | 88578  | 49.84  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 2.41 | 96  | 89774  | 79.29  | ug/l   | 92     |
| 22) Diisopropyl ether         | 2.93 | 45  | 310832 | 74.18  | ug/l # | 99     |
| 23) Vinyl Acetate             | 3.33 | 43  | 682807 | 465.69 | ug/l # | 96     |
| 24) 1,1-Dichloroethane        | 3.00 | 63  | 197458 | 72.48  | ug/l   | 100    |
| 25) 2-Butanone                | 4.51 | 43  | 281487 | 375.06 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 3.75 | 77  | 278012 | 84.28  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 3.64 | 96  | 115889 | 78.95  | ug/l   | 96     |
| 28) Bromochloromethane        | 3.89 | 49  | 65953  | 71.82  | ug/l   | 87     |
| 29) Tetrahydrofuran           | 4.26 | 42  | 96336  | 385.56 | ug/l   | 99     |
| 30) Chloroform                | 4.03 | 83  | 287859 | 71.56  | ug/l   | 98     |
| 31) Cyclohexane               | 3.85 | 56  | 139374 | 75.74  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 4.27 | 97  | 282498 | 70.76  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.45 | 75  | 197331 | 76.72  | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.29 | 43  | 99655  | 70.41  | ug/l # | 56     |
| 38) Carbon Tetrachloride      | 4.17 | 117 | 256414 | 71.29  | ug/l   | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Sep 07 01:56:36 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 5.62  | 83   | 161573   | 74.35  | ug/l   | 98       |
| 40) Benzene                    | 4.81  | 78   | 357563   | 78.15  | ug/l   | 97       |
| 41) Methacrylonitrile          | 4.92  | 41   | 50390    | 75.03  | ug/l # | 84       |
| 42) 1,2-Dichloroethane         | 5.11  | 62   | 249653   | 74.30  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 7.11  | 43   | 116629   | 76.89  | ug/l # | 99       |
| 44) Trichloroethene            | 5.67  | 130  | 126370   | 67.02  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 6.40  | 63   | 96843    | 74.01  | ug/l   | 96       |
| 46) Dibromomethane             | 6.25  | 93   | 85064    | 72.74  | ug/l   | 95       |
| 47) Bromodichloromethane       | 6.54  | 83   | 240361   | 76.10  | ug/l   | 94       |
| 48) Methyl methacrylate        | 6.87  | 41   | 92346    | 76.90  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.87  | 88   | 6221     | 229.42 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 503580   | 373.65 | ug/l   | 100      |
| 52) Toluene                    | 7.78  | 92   | 257952   | 72.69  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 200534   | 76.09  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.45  | 75   | 215622   | 79.73  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 93323    | 69.96  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 8.75  | 69   | 123613   | 82.29  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 171171   | 72.88  | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether  | 7.78  | 63   | 59331    | 370.56 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.63  | 43   | 410645   | 404.58 | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.86  | 129  | 170093   | 77.37  | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 120593   | 75.78  | ug/l   | 91       |
| 64) Tetrachloroethene          | 8.30  | 164  | 169410   | 63.81  | ug/l   | 93       |
| 65) Chlorobenzene              | 9.93  | 112  | 333726   | 70.95  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 151622   | 73.05  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.03 | 91   | 635013   | 72.79  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.27 | 106  | 429187   | 146.82 | ug/l   | 91       |
| 69) o-Xylene                   | 10.83 | 106  | 221235   | 70.52  | ug/l   | 87       |
| 70) Styrene                    | 10.90 | 104  | 344909   | 72.69  | ug/l   | 97       |
| 71) Bromoform                  | 10.89 | 173  | 94317    | 77.80  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.23 | 105  | 701381   | 69.58  | ug/l   | 96       |
| 74) N-amyl acetate             | 11.46 | 43   | 160590   | 95.72  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 117612   | 77.68  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 118863   | 74.23  | ug/l   | 86       |
| 77) Bromobenzene               | 11.59 | 156  | 179814   | 68.37  | ug/l   | 83       |
| 78) n-propylbenzene            | 11.69 | 91   | 837952   | 69.65  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 507117   | 69.69  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 630687   | 71.05  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 28219    | 54.61  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 568740   | 70.49  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 581714   | 72.33  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 624871   | 69.07  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 788429   | 71.39  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 690705   | 69.90  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 325954   | 68.05  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 343659   | 72.69  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.92 | 91   | 702803   | 73.78  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.99 | 117  | 147013   | 73.14  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 316139   | 69.17  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 32071    | 83.07  | ug/l   | 78       |

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Sample : VSTDICC075  
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ALS Vial : 8 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Fri Sep 07 01:56:36 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.28 | 180  | 260438   | 73.89 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.26 | 225  | 181591   | 72.01 | ug/l  | 97       |
| 95) Naphthalene            | 14.54 | 128  | 419476   | 85.14 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.70 | 180  | 255360   | 77.39 | ug/l  | 99       |

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

