

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090419\  
 Data File : VX012057.D  
 Acq On : 04 Sep 2019 17:39  
 Operator : SY/SP  
 Sample : K4546-18  
 Misc : 4.48g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T3-S-B3-(2.5)

Quant Time: Sep 05 05:25:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 324      | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1235     | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1099     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 898      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 714      | 159.71 | ug/l    | 0.01     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 319.42% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 35       | 4.61   | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 9.22%   |          |
| 50) Toluene-d8              | 8.71  | 98   | 1544     | 55.40  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.80% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 699      | 53.93  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.86% |          |

| Target Compounds             | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|------------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.19 | 85   | 397      | 132.874   | ug/l # | 64     |
| 3) Chloromethane             | 1.32 | 50   | 149      | 48.694    | ug/l # | 77     |
| 4) Vinyl Chloride            | 1.42 | 62   | 19       | 6.600     | ug/l   | 99     |
| 5) Bromomethane              | 1.63 | 94   | 196      | 137.243   | ug/l   | 94     |
| 6) Chloroethane              | 1.70 | 64   | 75       | 41.907    | ug/l # | 42     |
| 7) Trichlorofluoromethane    | 1.92 | 101  | 338      | 75.591    | ug/l # | 48     |
| 8) Diethyl Ether             | 2.18 | 74   | 1700     | 1100.176  | ug/l   | 98     |
| 10) Methyl Iodide            | 2.50 | 142  | 54       | 20.842    | ug/l # | 40     |
| 11) Tert butyl alcohol       | 3.02 | 59   | 4524     | 10535.675 | ug/l   | 96     |
| 12) 1,1-Dichloroethene       | 2.38 | 96   | 57       | 17.866    | ug/l # | 36     |
| 13) Acrolein                 | 2.22 | 56   | 87       | 744.169   | ug/l # | 1      |
| 14) Allyl chloride           | 2.72 | 41   | 73       | 12.645    | ug/l # | 68     |
| 15) Acrylonitrile            | 3.13 | 53   | 222      | 228.634   | ug/l # | 39     |
| 16) Acetone                  | 2.43 | 43   | 7122     | 6665.047  | ug/l   | 95     |
| 17) Carbon Disulfide         | 2.56 | 76   | 234      | 25.097    | ug/l # | 74     |
| 18) Methyl Acetate           | 2.77 | 43   | 1016     | 403.617   | ug/l # | 55     |
| 19) Methyl tert-butyl Ether  | 3.09 | 73   | 29       | 2.792     | ug/l # | 1      |
| 20) Methylene Chloride       | 2.84 | 84   | 6339     | 1477.298  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene | 3.13 | 96   | 39       | 10.417    | ug/l # | 58     |
| 22) Diisopropyl ether        | 3.82 | 45   | 139      | 11.813    | ug/l # | 30     |
| 23) Vinyl Acetate            | 3.84 | 43   | 213      | 27.983    | ug/l # | 70     |
| 24) 1,1-Dichloroethane       | 3.42 | 63   | 40       | 5.861     | ug/l # | 81     |
| 25) 2-Butanone               | 4.67 | 43   | 576      | 423.469   | ug/l # | 48     |
| 26) 2,2-Dichloropropane      | 4.61 | 77   | 23       | 3.650     | ug/l # | 53     |
| 27) cis-1,2-Dichloroethene   | 4.62 | 96   | 22       | 5.013     | ug/l # | 57     |
| 28) Bromochloromethane       | 5.00 | 49   | 51       | 18.722    | ug/l # | 4      |
| 29) Tetrahydrofuran          | 5.13 | 42   | 5500     | 6711.267  | ug/l   | 93     |
| 30) Chloroform               | 5.21 | 83   | 43       | 5.872     | ug/l # | 17     |
| 31) Cyclohexane              | 5.54 | 56   | 107      | 19.522    | ug/l # | 15     |
| 32) 1,1,1-Trichloroethane    | 5.43 | 97   | 22       | 3.450     | ug/l # | 21     |
| 36) 1,1-Dichloropropene      | 5.93 | 75   | 20       | 1.839     | ug/l # | 1      |
| 37) Ethyl Acetate            | 4.82 | 43   | 213      | 36.011    | ug/l # | 78     |
| 39) Methylcyclohexane        | 7.44 | 83   | 19       | 1.505     | ug/l # | 65     |
| 40) Benzene                  | 6.12 | 78   | 209      | 6.693     | ug/l # | 71     |

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 ALS Vial : 18 Sample Multiplier: 1

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 MSVOA\_X  
 ClientSampleId :  
 T3-S-B3-(2.5)

Quant Time: Sep 05 05:25:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile          | 5.00  | 41   | 174      | 49.328  | ug/l # | 20       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 45       | 4.005   | ug/l # | 74       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 280      | 23.281  | ug/l # | 69       |
| 45) 1,2-Dichloropropane        | 7.60  | 63   | 41       | 5.082   | ug/l # | 43       |
| 47) Bromodichloromethane       | 7.95  | 83   | 23       | 1.921   | ug/l # | 26       |
| 48) Methyl methacrylate        | 7.74  | 41   | 50       | 8.268   | ug/l # | 13       |
| 49) 1,4-Dioxane                | 7.78  | 88   | 20       | 242.608 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 243      | 39.723  | ug/l # | 36       |
| 52) Toluene                    | 8.78  | 92   | 945      | 46.512  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.15  | 75   | 27       | 2.178   | ug/l # | 1        |
| 54) cis-1,3-Dichloropropene    | 8.21  | 75   | 20       | 1.451   | ug/l # | 65       |
| 55) 1,1,2-Trichloroethane      | 9.31  | 97   | 47       | 6.980   | ug/l # | 16       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 22       | 2.281   | ug/l # | 1        |
| 57) 1,3-Dichloropropane        | 9.26  | 76   | 20       | 1.721   | ug/l # | 43       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 21       | 4.830   | ug/l # | 42       |
| 59) 2-Hexanone                 | 9.48  | 43   | 41       | 9.185   | ug/l   | 99       |
| 65) Chlorobenzene              | 10.13 | 112  | 101      | 4.658   | ug/l # | 42       |
| 67) Ethyl Benzene              | 10.25 | 91   | 375      | 9.487   | ug/l   | 93       |
| 68) m/p-Xylenes                | 10.35 | 106  | 335      | 23.004  | ug/l # | 54       |
| 69) o-Xylene                   | 10.70 | 106  | 155      | 10.976  | ug/l   | 59       |
| 70) Styrene                    | 10.72 | 104  | 92       | 3.751   | ug/l # | 63       |
| 74) N-amyl acetate             | 10.90 | 43   | 142      | 7.289   | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane  | 11.20 | 83   | 44       | 3.203   | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane     | 11.35 | 75   | 139      | 12.668  | ug/l   | 74       |
| 77) Bromobenzene               | 11.26 | 156  | 20       | 1.357   | ug/l # | 1        |
| 78) n-propylbenzene            | 11.35 | 91   | 221      | 2.776   | ug/l   | 93       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 161      | 3.339   | ug/l # | 38       |
| 80) 1,3,5-Trimethylbenzene     | 11.43 | 105  | 124      | 2.148   | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 437      | 94.159  | ug/l # | 10       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 300      | 5.219   | ug/l # | 42       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 263      | 4.432   | ug/l # | 29       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 79       | 1.271   | ug/l # | 59       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 94       | 3.183   | ug/l # | 54       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 221      | 7.485   | ug/l # | 61       |
| 89) n-Butylbenzene             | 12.38 | 91   | 183      | 3.030   | ug/l # | 63       |
| 90) Hexachloroethane           | 12.34 | 117  | 19       | 1.531   | ug/l # | 1        |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 66       | 2.482   | ug/l # | 35       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.81 | 75   | 335      | 116.547 | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 121      | 6.393   | ug/l # | 70       |
| 95) Naphthalene                | 13.83 | 128  | 536      | 13.084  | ug/l # | 93       |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 23       | 1.381   | ug/l # | 1        |

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

