

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX073018\  
 Data File : VX003742.D  
 Acq On : 31 Jul 2018 00:23  
 Operator : JC/SP  
 Sample : VSTDCCC050EC  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/1/2018 10:41:12 AM

Quant Time: Jul 31 12:22:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 112811   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 171158   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 167198   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 92767    | 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   | 64784    | 56.78 | ug/l    | -0.01    |
| Spiked Amount               | 50.000 |      | Recovery | =     | 113.56% |          |
| 35) Dibromofluoromethane    | 5.51   | 113  | 56243    | 55.81 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 111.62% |          |
| 50) Toluene-d8              | 8.72   | 98   | 233942   | 55.67 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 111.34% |          |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 80025    | 51.65 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 103.30% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85   | 45327    | 47.60  | ug/l  | 91     |
| 3) Chloromethane              | 1.32 | 50   | 63101    | 52.72  | ug/l  | 95     |
| 4) Vinyl Chloride             | 1.40 | 62   | 64467    | 50.07  | ug/l  | # 89   |
| 5) Bromomethane               | 1.64 | 94   | 40572    | 58.11  | ug/l  | 94     |
| 6) Chloroethane               | 1.72 | 64   | 40382    | 47.43  | ug/l  | 92     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 79006    | 46.80  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.18 | 74   | 36038    | 56.48  | ug/l  | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 52264    | 48.80  | ug/l  | 97     |
| 10) Methyl Iodide             | 2.51 | 142  | 64785    | 52.62  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 42558    | 230.36 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 51562    | 51.14  | ug/l  | 81     |
| 13) Acrolein                  | 2.29 | 56   | 8466     | 140.06 | ug/l  | 97     |
| 14) Allyl chloride            | 2.72 | 41   | 95274    | 53.30  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.15 | 53   | 125817   | 267.79 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 104250   | 239.21 | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.56 | 76   | 165103   | 50.32  | ug/l  | 95     |
| 18) Methyl Acetate            | 2.78 | 43   | 66368    | 54.19  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 171436   | 62.46  | ug/l  | 97     |
| 20) Methylene Chloride        | 2.85 | 84   | 66714    | 58.68  | ug/l  | 92     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 58653    | 53.09  | ug/l  | 91     |
| 22) Diisopropyl ether         | 3.87 | 45   | 201418   | 62.42  | ug/l  | 95     |
| 23) Vinyl Acetate             | 3.82 | 43   | 681548   | 292.86 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 109039   | 57.95  | ug/l  | 97     |
| 25) 2-Butanone                | 4.70 | 43   | 165555   | 260.59 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 72581    | 48.97  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 65670    | 55.15  | ug/l  | 97     |
| 28) Bromochloromethane        | 5.02 | 49   | 50045    | 59.29  | ug/l  | 94     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 106878   | 263.98 | ug/l  | 99     |
| 30) Chloroform                | 5.22 | 83   | 106098   | 57.22  | ug/l  | 87     |
| 31) Cyclohexane               | 5.57 | 56   | 88418    | 48.64  | ug/l  | # 91   |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 83305    | 52.27  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.79 | 75   | 76751    | 47.88  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.85 | 43   | 65459    | 53.16  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 71160    | 48.00  | ug/l  | 99     |

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 Sample : VSTDCCC050EC  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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MMDadoda  
 8/1/2018 10:41:12 AM

Quant Time: Jul 31 12:22:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 87305    | 44.36  | ug/l   | 97       |
| 40) Benzene                    | 6.13  | 78   | 238645   | 51.95  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.06  | 41   | 37497    | 54.03  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 76029    | 54.80  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 103123   | 52.57  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 59786    | 45.63  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 60812    | 53.84  | ug/l   | 97       |
| 46) Dibromomethane             | 7.67  | 93   | 35608    | 54.70  | ug/l   | 93       |
| 47) Bromodichloromethane       | 7.90  | 83   | 71830    | 55.37  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.77  | 41   | 53863    | 54.74  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 17851    | 898.79 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 324905   | 269.49 | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 162396   | 56.68  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 90781    | 61.27  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 88854    | 53.80  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 59110    | 59.94  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 82824    | 61.15  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 98375    | 59.43  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 198742   | 273.33 | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.50  | 43   | 230692   | 251.17 | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.59  | 129  | 54546    | 54.92  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 54046    | 53.68  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 70610    | 53.73  | ug/l   | 92       |
| 65) Chlorobenzene              | 10.14 | 112  | 164447   | 47.07  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 56688    | 49.75  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.26 | 91   | 273622   | 46.38  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 213719   | 92.61  | ug/l   | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 102939   | 48.04  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 178087   | 49.40  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 37820    | 48.28  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 272244   | 46.88  | ug/l   | 99       |
| 74) N-amyl acetate             | 6.46  | 43   | 103123   | 50.10  | ug/l # | 56       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 73316    | 48.56  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 63018m   | 49.28  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 74662    | 49.31  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 327221   | 46.51  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 192812   | 48.27  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 238123   | 48.04  | ug/l # | 69       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 19688    | 45.61  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 233759   | 48.25  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 222229   | 45.33  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 247933   | 48.59  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 287559   | 45.84  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 262596   | 46.06  | ug/l # | 70       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 143490   | 46.85  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 145218   | 46.47  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 251804   | 46.41  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 40871    | 48.28  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 137575   | 48.23  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 14153    | 47.24  | ug/l   | 93       |

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Sample : VSTDCCC050EC  
Misc : 5.00G/5.0mL/MSVOA X/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

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8/1/2018 10:41:12 AM

Quant Time: Jul 31 12:22:37 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 11:17:41 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 107162   | 47.36 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 62923    | 43.49 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 245834   | 50.84 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 99156    | 48.28 | ug/l  | 100      |

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

