

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VO083119\  
 Data File : VX011985.D  
 Acq On : 01 Sep 2019 08:12  
 Operator : SY/SP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 02 01:42:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 38.691  | 22.6#  | 64    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.118  | 9.8    | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.114  | 13.8#  | 69    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 58.210  | -16.4  | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.114  | -4.2   | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.346  | 11.3   | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 60.355  | -20.7# | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.513  | 11.0   | 71    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 39.391  | 21.2#  | 63    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 301.262 | -20.5# | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.804  | 4.4#   | 75    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 72.021  | 71.2#  | 24    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.141  | -2.3   | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 306.939 | -22.8# | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 269.627 | -7.9   | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.530  | 12.9   | 67    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 67.288  | -34.6# | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 62.812  | -25.6# | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 60.489  | -21.0# | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.717  | -7.4   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 60.191  | -20.4# | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 270.317 | -8.1   | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.807  | -15.6  | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 295.446 | -18.2  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 40.629  | 18.7   | 64    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 60.603  | -21.2# | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 59.661  | -19.3  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 305.827 | -22.3# | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 61.261  | -22.5# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 39.342  | 21.3#  | 63    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.702  | -9.4   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 61.565  | -23.1# | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.598  | -9.2   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.847  | 10.3   | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.028  | -8.1   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.413  | 5.2    | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 36.525  | 27.0#  | 65    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.939  | -3.9   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.250  | -12.5  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 58.190  | -16.4  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.419  | -10.8  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.784  | -5.6   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.805  | -9.6#  | 95    | 0.00     |

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 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 02 01:42:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 57.805   | -15.6 | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 57.295   | -14.6 | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.802   | -11.6 | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1165.787 | -16.6 | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.322   | -4.6  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 277.103  | -10.8 | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.135   | -6.3# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.184   | -4.4  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.583   | -3.2  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.970   | -15.9 | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.225   | -12.5 | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.976   | -14.0 | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 270.185  | -8.1  | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 273.695  | -9.5  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 59.410   | -18.8 | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.249   | -16.5 | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.779   | -3.6  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 59.975   | -20.0 | 111   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.855   | -5.7  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.860   | -11.7 | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.968   | 0.1#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.521  | -0.5  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.764   | -5.5  | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.779   | -7.6  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.599   | -13.2 | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.360   | 3.3   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 43.048   | 13.9  | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.122   | -4.2  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.524   | -7.0  | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.151   | -8.3  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.123   | 5.8   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.408   | -0.8  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.266   | 1.5   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.696   | 18.6  | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.280   | -0.6  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.259   | 5.5   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.888   | 0.2   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.324   | 7.4   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 44.347   | 11.3  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.058   | -6.1  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.382   | -4.8  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 43.838   | 12.3  | 82    | 0.00     |

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Quant Title : SW846 8260  
QLast Update : Fri Aug 30 01:59:05 2019  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.146 | -0.3 | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.231 | -8.5 | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.284 | -6.6 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.733 | -3.5 | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.992 | 8.0  | 87    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.891 | -7.8 | 98    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.225 | -8.5 | 100   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6