

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\vy110619\  
 Data File : VY000540.D  
 Acq On : 06 Nov 2019 10:37  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 07 05:02:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.914  | 4.2   | 100   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.270  | 3.5   | 105   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.566  | 4.9#  | 102   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 56.406  | -12.8 | 129   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.218  | 5.6   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.943  | 4.1   | 105   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.152  | 5.7   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.550  | 4.9   | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 34.160  | 31.7# | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 216.454 | 13.4  | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.336  | 3.3#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 290.859 | -16.3 | 128   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.543  | 0.9   | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 235.251 | 5.9   | 104   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 270.283 | -8.1  | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.672  | 4.7   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.214  | 5.6   | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.864  | 4.3   | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 43.353  | 13.3  | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.818  | 4.4   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.768  | 0.5   | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 245.166 | 1.9   | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.359  | 3.3   | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 256.414 | -2.6  | 108   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.877  | 2.2   | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.783  | 4.4   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.812  | -5.6  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 238.854 | 4.5   | 105   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.024  | 4.0#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.016  | 8.0   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.067  | 1.9   | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.254  | -4.5  | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.666  | -1.3  | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.864  | 2.3   | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.733  | 8.5   | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.789  | 0.4   | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.462  | 3.1   | 104   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.220  | 5.6   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.625  | 8.8   | 108   | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.092  | 3.8   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.974  | 4.1   | 107   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.090  | 3.8   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.756  | 2.5#  | 107   | 0.00     |

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 QLast Update : Wed Oct 30 13:30:53 2019  
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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   | 47.170  | 5.7  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.186  | 1.6  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.143  | 1.7  | 109   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 932.872 | 6.7  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 54.256  | -8.5 | 106   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 243.975 | 2.4  | 106   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.248  | 3.5# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.236  | -0.5 | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.032  | 1.9  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.435  | 5.1  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.642  | -1.3 | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.684  | 2.6  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 244.860 | 2.1  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.185 | -4.5 | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.955  | 2.1  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.322  | 3.4  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.207  | -4.4 | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.019  | 8.0  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.681  | 2.6  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.780  | -1.6 | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.266  | 1.5# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.252  | 2.7  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.783  | 0.4  | 108   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.110  | 1.8  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.010  | 2.0  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.979  | 2.0  | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.813  | -1.6 | 107   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.945  | 2.1  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.011  | 8.0  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.921  | 4.2  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.775  | 2.5  | 105   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.010  | 4.0  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.620  | 0.8  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.672  | 0.7  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.087  | -0.2 | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.547  | 2.9  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.079  | 1.8  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.595  | 0.8  | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.384  | 1.2  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.452  | 5.1  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.340  | 3.3  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.028  | 1.9  | 103   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.047 | 1.9  | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.519 | 5.0  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.871 | 4.3  | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.227 | 3.5  | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.256 | 7.5  | 98    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.983 | 4.0  | 104   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.921 | 6.2  | 101   | 0.00     |

(#) = Out of Range

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