

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD111419\  
 Data File : VD064208.D  
 Acq On : 14 Nov 2019 11:26  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 15 05:57:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 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  | 50.281  | -0.6   | 76    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 53.301  | -6.6   | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 58.270  | -16.5# | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 60.085  | -20.2# | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 58.167  | -16.3  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 58.708  | -17.4  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.948  | 8.1    | 70    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.294  | -2.6   | 79    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 50.120  | -0.2   | 73    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 223.503 | 10.6   | 66    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.296  | -4.6#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 278.483 | -11.4  | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.710  | 0.6    | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 226.515 | 9.4    | 69    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 275.795 | -10.3  | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.395  | -2.8   | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.776  | 10.4   | 70    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.704  | 6.6    | 70    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.031  | 9.9    | 73    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.209  | -2.4   | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.547  | 2.9    | 73    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 242.785 | 2.9    | 70    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.580  | -3.2   | 77    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 230.291 | 7.9    | 69    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.455  | -0.9   | 76    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.211  | -0.4   | 76    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 53.302  | -6.6   | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 219.137 | 12.3   | 66    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.444  | -2.9#  | 77    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.665  | 2.7    | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.770  | -3.5   | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.831  | 6.3    | 67    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.379  | 3.2    | 68    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.981  | -2.0   | 75    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 43.794  | 12.4   | 66    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.709  | -5.4   | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.110  | -2.2   | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.416  | -0.8   | 74    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.305  | -0.6   | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.431  | 3.1    | 72    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 44.068  | 11.9   | 66    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.327  | -2.7   | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.685  | 0.6#   | 74    | 0.00     |

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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   | 47.595  | 4.8   | 71    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.509  | 1.0   | 74    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 42.862  | 14.3  | 66    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 903.387 | 9.7   | 70    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.526  | 0.9   | 69    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 218.936 | 12.4  | 66    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.453  | -0.9# | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.638  | 4.7   | 71    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.005  | 2.0   | 73    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.256  | 3.5   | 72    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.015  | 10.0  | 67    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.282  | 5.4   | 70    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 222.463 | 11.0  | 66    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 229.567 | 8.2   | 68    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.969  | 4.1   | 72    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.173  | 5.7   | 70    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.695  | 6.6   | 67    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 76    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.980  | -2.0  | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.467  | -0.9  | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.603  | 0.8   | 73    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.808  | -3.6# | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.295 | -2.3  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.583  | -1.2  | 74    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.322  | 1.4   | 72    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.437  | 5.1   | 69    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.662  | -3.3  | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.492  | 9.0   | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.584  | 2.8   | 71    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 40.079  | 19.8  | 58    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.894  | 2.2   | 71    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.786  | -3.6  | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.232  | -0.5  | 73    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.508  | -3.0  | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.038  | 7.9   | 67    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.291  | -0.6  | 73    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.632  | -3.3  | 74    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.118  | -2.2  | 74    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.821  | -3.6  | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.003  | -2.0  | 74    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.461  | -0.9  | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.634  | -1.3  | 72    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.550  | -3.1  | 74    | 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 | 51.825 | -3.7 | 76    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.931 | 0.1  | 72    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 43.104 | 13.8 | 65    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.103 | 1.8  | 70    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.728 | -1.5 | 73    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.741 | 6.5  | 68    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.166 | 3.7  | 70    | 0.00     |

(#) = Out of Range

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