

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD102920\  
 Data File : VD067445.D  
 Acq On : 29 Oct 2020 11:35  
 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: Oct 30 02:33:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.271  | 11.5   | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 40.423  | 19.2   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.121  | 11.8#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.263  | 5.5    | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.135  | 11.7   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.051  | -2.1   | 107   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.440  | 5.1    | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.970  | -3.9   | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.805  | -7.6   | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 269.237 | -7.7   | 111   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.985  | -2.0#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 207.844 | 16.9   | 79    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.885  | -1.8   | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.362 | -6.9   | 112   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 305.739 | -22.3  | 131   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.599  | 12.8   | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.999  | -6.0   | 121   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.385  | -8.8   | 110   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.677  | -5.4   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.520  | -3.0   | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.838  | -7.7   | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 280.808 | -12.3  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.776  | -3.6   | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 274.292 | -9.7   | 116   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.120  | -10.2  | 114   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.984  | -6.0   | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.237  | 3.5    | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 274.891 | -10.0  | 111   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.961  | -5.9#  | 108   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.988  | 2.0    | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.572  | -7.1   | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.371  | 13.3   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.690  | 2.6    | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 56.240  | -12.5  | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 58.368  | -16.7  | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.141  | -14.3  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 57.273  | -14.5  | 107   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.290  | -10.6  | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 40.733  | 18.5   | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.978  | -10.0  | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.080  | -12.2  | 110   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.875  | -11.8  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.206  | -10.4# | 107   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 54.755   | -9.5   | 110   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.596   | -13.2  | 110   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 57.042   | -14.1  | 113   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1135.055 | -13.5  | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.472   | 3.1    | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 287.248  | -14.9  | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 56.830   | -13.7# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.766   | -13.5  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.697   | -11.4  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.767   | -13.5  | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.606   | -15.2  | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.103   | -12.2  | 109   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 281.681  | -12.7  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 308.703  | -23.5  | 116   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.873   | -9.7   | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.712   | -9.4   | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.808   | 2.4    | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.136   | -8.3   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.446   | -10.9  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.531   | -13.1  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.574   | -15.1# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 116.517  | -16.5  | 110   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.220   | -12.4  | 108   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.442   | -12.9  | 106   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.827   | -13.7  | 114   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 58.717   | -17.4  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.810   | -9.6   | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.487   | -9.0   | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 57.799   | -15.6  | 128   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 56.113   | -12.2  | 110   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 58.502   | -17.0  | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.027   | -12.1  | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 57.880   | -15.8  | 109   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 57.618   | -15.2  | 119   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.825   | -11.7  | 109   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 59.699   | -19.4  | 111   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.669   | -15.3  | 108   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 58.668   | -17.3  | 111   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 58.508   | -17.0  | 111   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 55.061   | -10.1  | 111   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 55.537   | -11.1  | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 58.659   | -17.3  | 111   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 56.814 | -13.6 | 112   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.818 | -9.6  | 111   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.727 | -7.5  | 116   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 58.514 | -17.0 | 114   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 59.798 | -19.6 | 115   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 59.428 | -18.9 | 113   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 58.817 | -17.6 | 115   | 0.00     |

(#) = Out of Range

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