

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD111220\  
 Data File : VD067628.D  
 Acq On : 12 Nov 2020 17:30  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 13 12:26:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 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    | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.992  | 12.0   | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.664  | 20.7   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 40.768  | 18.5#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.309  | 19.4   | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 42.926  | 14.1   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.176  | 9.6    | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.557  | -3.1   | 107   | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.621  | 4.8    | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.414  | 5.2    | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 321.965 | -28.8# | 126   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.708  | 4.6#   | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 263.615 | -5.4   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.387  | 3.2    | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 264.318 | -5.7   | 106   | -0.01    |
| 16 T  | Acetone                     | 250.000 | 225.701 | 9.7    | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.335  | 13.3   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.655  | -11.3  | 124   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.615  | -9.2   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.268  | 3.5    | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.214  | 5.6    | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.290  | -4.6   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.190 | -9.7   | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.843  | 2.3    | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.679 | -6.7   | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.743  | 4.5    | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.351  | 1.3    | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.279  | -2.6   | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 280.920 | -12.4  | 109   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.654  | 0.7#   | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.963  | 10.1   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.995  | 6.0    | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.755  | 6.5    | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.240  | 5.5    | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.900  | 4.2    | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.346  | -0.7   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.333  | 3.3    | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.871  | 2.3    | 93    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.913  | 0.2    | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.016  | -16.0  | 129   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.452  | -0.9   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.990  | -10.0  | 111   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.753  | 2.5    | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.922  | 0.2#   | 103   | 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   | 50.314   | -0.6  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.715   | -1.4  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.701   | -5.4  | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1121.231 | -12.1 | 112   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.182   | 7.6   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 283.893  | -13.6 | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.316   | -8.6# | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.879   | -3.8  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.852   | -1.7  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.888   | -5.8  | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.019   | -8.0  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.506   | -3.0  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 285.683  | -14.3 | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.034  | -10.4 | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.682   | -3.4  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.841   | -3.7  | 106   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.986   | 2.0   | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.269   | 3.5   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.594   | 0.8   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.047   | -2.1  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.901   | -1.8# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.662  | -0.7  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.398   | -2.8  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.935   | -1.9  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.740   | -7.5  | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.871   | -1.7  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.605   | -9.2  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.264   | -6.5  | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.200   | -18.4 | 130   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.808   | -1.6  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.274   | -0.5  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.091   | -2.2  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.359   | -2.7  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.783   | -1.6  | 109   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.894   | -1.8  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.932   | -5.9  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.677   | -3.4  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.614   | -3.2  | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.917   | -1.8  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.984   | 0.0   | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.078   | 3.8   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.751   | -1.5  | 96    | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.419 | -0.8  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.210 | -0.4  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.229 | -4.5  | 109   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.536 | -3.1  | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.546 | 2.9   | 100   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 56.241 | -12.5 | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.408 | -4.8  | 103   | 0.00     |

(#) = Out of Range

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