

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD012020\  
 Data File : VD064899.D  
 Acq On : 20 Jan 2020 19:24  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.01G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 21 05:54:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 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    | 70    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.996  | 18.0   | 56    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.089  | 1.8    | 68    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.694  | 6.6#   | 66    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.737  | 8.5    | 66    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.879  | 0.2    | 68    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.003  | 8.0    | 64    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.477  | -11.0  | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.079  | -2.2   | 70    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.911  | 4.2    | 60    | 0.01     |
| 11 T  | Tert butyl alcohol          | 250.000 | 343.264 | -37.3# | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.283  | 1.4#   | 68    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 123.910 | 50.4#  | 33    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.372  | -10.7  | 76    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 313.167 | -25.3# | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 243.729 | 2.5    | 69    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.927  | 12.1   | 61    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 60.878  | -21.8# | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 61.836  | -23.7# | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 72.644  | -45.3# | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.109  | -6.2   | 74    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 63.446  | -26.9# | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 319.391 | -27.8# | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 60.403  | -20.8# | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 298.390 | -19.4  | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.478  | -11.0  | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 57.708  | -15.4  | 79    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 63.345  | -26.7# | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 314.698 | -25.9# | 84    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 61.126  | -22.3# | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.260  | 7.5    | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.851  | -11.7  | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 58.082  | -16.2  | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 71    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.688  | -9.4   | 75    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.030  | -2.1   | 72    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 61.204  | -22.4# | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.574  | -5.1   | 73    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.381  | 5.2    | 66    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.899  | -11.8  | 79    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 63.732  | -27.5# | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 61.855  | -23.7# | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 59.923  | -19.8  | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.772  | -5.5   | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 60.753  | -21.5# | 85    | 0.00     |

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 Quant Title : SW846 8260  
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 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   | 60.711   | -21.4# | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 60.519   | -21.0# | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 58.289   | -16.6  | 77    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1168.563 | -16.9  | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.032   | -4.1   | 72    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 305.992  | -22.4# | 85    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.515   | -11.0# | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 59.139   | -18.3  | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 59.451   | -18.9  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 61.293   | -22.6# | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 59.618   | -19.2  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 61.689   | -23.4# | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 285.128  | -14.1  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 306.055  | -22.4# | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 60.290   | -20.6# | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 59.566   | -19.1  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.566   | -7.1   | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.296   | 3.4    | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.813   | -9.6   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 58.494   | -17.0  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.329   | -4.7#  | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.511  | -6.5   | 76    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.981   | -8.0   | 78    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.773   | -13.5  | 82    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.046   | -14.1  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 77    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.227   | -2.5   | 76    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 56.097   | -12.2  | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.622   | -13.2  | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.512   | -9.0   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.189   | -6.4   | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.138   | -4.3   | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.495   | -5.0   | 79    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.167   | -4.3   | 77    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.431   | -8.9   | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.663   | -5.3   | 79    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.368   | -0.7   | 74    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.412   | -6.8   | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.818   | -1.6   | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.844   | -1.7   | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.718   | -7.4   | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.706   | -5.4   | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.299   | -0.6   | 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 | 52.466 | -4.9 | 78    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.106 | -8.2 | 81    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.508 | -7.0 | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.156 | -2.3 | 76    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.310 | 3.4  | 73    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.522 | -7.0 | 77    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.857 | -5.7 | 78    | 0.00     |

(#) = Out of Range

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