

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\  
 Data File : VF061841.D  
 Acq On : 5 Mar 2019 2:33  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 05 05:55:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:04:51 2019  
 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   | 91    | -0.02    |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.508  | 1.0   | 85    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.069  | 7.9   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.195  | 3.6#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.822  | -5.6  | 94    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.736  | -1.5  | 91    | -0.02    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.240  | -0.5  | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.671  | 10.7  | 84    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.967  | 4.1   | 92    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 49.727  | 0.5   | 94    | -0.02    |
| 11 T  | Tert butyl alcohol          | 250.000 | 227.273 | 9.1   | 86    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.947  | 0.1#  | 91    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 225.761 | 9.7   | 86    | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 46.927  | 6.1   | 95    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 207.932 | 16.8  | 88    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 176.767 | 29.3# | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.792  | 2.4   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.319  | 3.4   | 98    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.950  | 0.1   | 89    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 45.224  | 9.6   | 92    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.326  | 3.3   | 108   | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 51.841  | -3.7  | 95    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 234.064 | 6.4   | 94    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.058  | 3.9   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 199.478 | 20.2  | 81    | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.397  | 5.2   | 85    | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.251  | 3.5   | 92    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 43.559  | 12.9  | 97    | -0.01    |
| 29    | Tetrahydrofuran             | 250.000 | 202.835 | 18.9  | 91    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 48.466  | 3.1#  | 89    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 44.665  | 10.7  | 86    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.500  | 3.0   | 97    | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.522  | -9.0  | 102   | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | -0.02    |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.494  | 1.0   | 103   | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.407  | 5.2   | 90    | -0.02    |
| 37 T  | Ethyl Acetate               | 50.000  | 42.102  | 15.8  | 95    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.550  | -5.1  | 93    | -0.02    |
| 39 T  | Methylcyclohexane           | 50.000  | 48.220  | 3.6   | 89    | -0.02    |
| 40 TM | Benzene                     | 50.000  | 49.286  | 1.4   | 93    | -0.02    |
| 41 T  | Methacrylonitrile           | 50.000  | 45.045  | 9.9   | 92    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.211  | -4.4  | 91    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 43.195  | 13.6  | 85    | -0.02    |
| 44 TM | Trichloroethene             | 50.000  | 46.318  | 7.4   | 90    | -0.01    |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.260  | 7.5#  | 88    | -0.01    |

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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   | 47.852  | 4.3  | 92    | -0.01    |
| 47 T  | Bromodichloromethane        | 50.000   | 50.610  | -1.2 | 93    | -0.01    |
| 48 T  | Methyl methacrylate         | 50.000   | 45.672  | 8.7  | 85    | -0.01    |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 889.511 | 11.0 | 76    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 49.820  | 0.4  | 100   | -0.01    |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 211.319 | 15.5 | 90    | -0.01    |
| 52 CM | Toluene                     | 50.000   | 45.250  | 9.5# | 87    | -0.01    |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.336  | 3.3  | 91    | -0.01    |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.269  | 3.5  | 87    | -0.01    |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.317  | 5.4  | 95    | -0.02    |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.823  | 6.4  | 92    | -0.01    |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 46.407  | 7.2  | 89    | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 195.239 | 21.9 | 90    | -0.02    |
| 59 T  | 2-Hexanone                  | 250.000  | 201.962 | 19.2 | 86    | -0.01    |
| 60 T  | Dibromochloromethane        | 50.000   | 47.710  | 4.6  | 92    | -0.01    |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 45.530  | 8.9  | 88    | -0.01    |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.687  | 2.6  | 99    | -0.01    |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 92    | -0.01    |
| 64 T  | Tetrachloroethene           | 50.000   | 52.448  | -4.9 | 95    | -0.02    |
| 65 PM | Chlorobenzene               | 50.000   | 48.444  | 3.1  | 89    | -0.01    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.716  | 0.6  | 95    | -0.01    |
| 67 C  | Ethyl Benzene               | 50.000   | 49.776  | 0.4# | 91    | -0.02    |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.374  | 4.6  | 93    | -0.01    |
| 69 T  | o-Xylene                    | 50.000   | 50.419  | -0.8 | 91    | -0.01    |
| 70 T  | Styrene                     | 50.000   | 49.693  | 0.6  | 93    | -0.01    |
| 71 P  | Bromoform                   | 50.000   | 48.349  | 3.3  | 92    | -0.01    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.156  | -0.3 | 93    | -0.01    |
| 74 T  | N-amyl acetate              | 50.000   | 46.785  | 6.4  | 90    | -0.01    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.340  | 9.3  | 91    | -0.01    |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.587  | 6.8  | 95    | -0.01    |
| 77 T  | Bromobenzene                | 50.000   | 46.660  | 6.7  | 90    | -0.01    |
| 78 T  | n-propylbenzene             | 50.000   | 47.136  | 5.7  | 88    | -0.01    |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.992  | 2.0  | 92    | -0.01    |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.739  | 2.5  | 90    | -0.01    |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 41.911  | 16.2 | 94    | -0.01    |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.191  | 5.6  | 87    | -0.01    |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.218  | 3.6  | 90    | -0.01    |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.794  | 2.4  | 88    | -0.01    |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.871  | 6.3  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.215  | 5.6  | 92    | -0.01    |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.466  | 9.1  | 92    | -0.01    |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.406  | 3.2  | 97    | -0.01    |
| 89 T  | n-Butylbenzene              | 50.000   | 46.762  | 6.5  | 88    | -0.01    |

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

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.827 | -1.7 | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 45.759 | 8.5  | 93    | -0.01    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 41.360 | 17.3 | 85    | -0.01    |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 44.084 | 11.8 | 92    | -0.01    |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.031 | 3.9  | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.709 | 6.6  | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 45.005 | 10.0 | 89    | 0.00     |

(#) = Out of Range

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