

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv013020\  
 Data File : VY001443.D  
 Acq On : 30 Jan 2020 20:03  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 31 04:11:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.475  | 1.0   | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.737  | 2.5   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.367  | 3.3#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.215  | -0.4  | 93    | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 50.365  | -0.7  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.627  | -3.3  | 91    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 52.567  | -5.1  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.808  | -5.6  | 92    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 47.083  | 5.8   | 78    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 251.413 | -0.6  | 93    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.560  | 0.9#  | 89    | -0.02    |
| 13 T  | Acrolein                    | 250.000 | 288.495 | -15.4 | 111   | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 51.407  | -2.8  | 92    | -0.02    |
| 15 T  | Acrylonitrile               | 250.000 | 285.504 | -14.2 | 102   | -0.01    |
| 16 T  | Acetone                     | 250.000 | 287.634 | -15.1 | 97    | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 46.026  | 7.9   | 83    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 54.670  | -9.3  | 103   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.707  | -7.4  | 96    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 49.394  | 1.2   | 89    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.815  | 0.4   | 89    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 53.016  | -6.0  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.076 | -7.6  | 96    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.485  | -5.0  | 94    | -0.02    |
| 25 T  | 2-Butanone                  | 250.000 | 280.300 | -12.1 | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.189  | 1.6   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.315  | -4.6  | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 62.500  | -25.0 | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 284.839 | -13.9 | 103   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.383  | -4.8# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.628  | 2.7   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.829  | -3.7  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.980  | -14.0 | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.213  | -6.4  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.200  | 1.6   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.245  | -10.5 | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.674  | 0.7   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.514  | 3.0   | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.567  | -1.1  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.828  | 0.3   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.497  | -3.0  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.712  | -9.4  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.706  | 2.6   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.606  | -3.2# | 95    | 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   | 51.539   | -3.1  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.852   | -3.7  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.085   | -8.2  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1074.556 | -7.5  | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 55.359   | -10.7 | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 277.847  | -11.1 | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.879   | 0.2#  | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.888   | -3.8  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.236   | -0.5  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.291   | -4.6  | 95    | 0.01     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.240   | -8.5  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.325   | -6.7  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 269.958  | -8.0  | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 289.358  | -15.7 | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.105   | -4.2  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.504   | -7.0  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.861   | -3.7  | 94    | 0.01     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.589   | -3.2  | 99    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 49.667   | 0.7   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.145   | -2.3  | 95    | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.871   | 0.3#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.483   | 0.5   | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.626   | 0.7   | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.724   | -1.4  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.160   | -2.3  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.193   | 1.6   | 93    | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 53.918   | -7.8  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.396   | -6.8  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 56.342   | -12.7 | 105   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.886   | 0.2   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.676   | 0.6   | 93    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.665   | 0.7   | 94    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.510   | 1.0   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.917   | -5.8  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.475   | 1.0   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.643   | 0.7   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.483   | 1.0   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.353   | -0.7  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.025   | -0.0  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.481   | 1.0   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.211   | 1.6   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.981   | 0.0   | 94    | 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 | 50.537 | -1.1 | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.470 | -0.9 | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.111 | -6.2 | 102   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.595 | 4.8  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.757 | 4.5  | 92    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.609 | -5.2 | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.436 | 3.1  | 94    | 0.00     |

(#) = Out of Range

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