

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv070820\  
 Data File : VY003134.D  
 Acq On : 08 Jul 2020 13:16  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 09 02:41:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.356  | 3.3   | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.856  | 10.3  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.253  | -0.5# | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.888  | -3.8  | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.087  | -4.2  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.200  | -4.4  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.019  | -0.0  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.349  | -8.7  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.744  | -9.5  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 230.965 | 7.6   | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.819  | -5.6# | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.290 | 6.7   | 90    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.173  | 9.7   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.922 | 3.2   | 85    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 217.033 | 13.2  | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.280  | 3.4   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.794  | 8.4   | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.134  | -2.3  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.494  | 1.0   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.605  | -5.2  | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.967  | 4.1   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 235.381 | 5.8   | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.766  | 0.5   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 225.381 | 9.8   | 79    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.999  | -2.0  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.482  | -5.0  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.653  | -1.3  | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 229.265 | 8.3   | 80    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.482  | -5.0# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.562  | 6.9   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.974  | -3.9  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.762  | 6.5   | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.679  | -5.4  | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.634  | -5.3  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.167  | 3.7   | 82    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.199  | -8.4  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.427  | -6.9  | 93    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.045  | -6.1  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 57.508  | -15.0 | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.294  | -2.6  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.144  | 3.7   | 81    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 57.067  | -14.1 | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.291  | -2.6# | 91    | 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   | 53.554   | -7.1   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.322   | -6.6   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.890   | 4.2    | 81    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1096.201 | -9.6   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.404   | -2.8   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 248.286  | 0.7    | 84    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.131   | -8.3#  | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.576   | -5.2   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.810   | -5.6   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.109   | -8.2   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.577   | -7.2   | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.944   | -5.9   | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.185  | -3.7   | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 244.739  | 2.1    | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.201   | -10.4  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.543   | -9.1   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.467   | -2.9   | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 61.377   | -22.8  | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.732   | -11.5  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.103   | -12.2  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.354   | -10.7# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.245  | -12.2  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.534   | -11.1  | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.576   | -13.2  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.249   | -12.5  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.979   | -12.0  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.933   | 2.1    | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.567   | -3.1   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.910   | -7.8   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.711   | -9.4   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.300   | -10.6  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.456   | -8.9   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.679   | -11.4  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.837   | -3.7   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.909   | -9.8   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 56.210   | -12.4  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.806   | -11.6  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.735   | -13.5  | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.866   | -13.7  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 56.084   | -12.2  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 56.160   | -12.3  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.820   | -13.6  | 98    | 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 | 53.985 | -8.0  | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 55.777 | -11.6 | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.402 | 3.2   | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.056 | -8.1  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 57.808 | -15.6 | 101   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.487 | -3.0  | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.451 | -2.9  | 88    | 0.00     |

(#) = Out of Range

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