

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031621\  
 Data File : VY004092.D  
 Acq On : 16 Mar 2021 14:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 17 01:39:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030821S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 08 12:28:55 2021  
 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   | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.884  | 4.2   | 76    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.924  | 8.2   | 69    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.411  | 11.2# | 73    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.078  | 7.8   | 78    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.586  | 6.8   | 75    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.775  | 4.5   | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.134  | -0.3  | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.152  | 1.7   | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.098  | -8.2  | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 242.984 | 2.8   | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.935  | 4.1#  | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 274.267 | -9.7  | 72    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.387  | 11.2  | 69    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.976 | 3.2   | 71    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 203.307 | 18.7  | 57    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.390  | 11.2  | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.379  | 3.2   | 71    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.689  | -1.4  | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.838  | 0.3   | 75    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.822  | 2.4   | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.997  | 6.0   | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 236.564 | 5.4   | 71    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.330  | 3.3   | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 231.663 | 7.3   | 66    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.505  | 5.0   | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.801  | 0.4   | 78    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.069  | 7.9   | 71    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 234.852 | 6.1   | 68    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.266  | -0.5# | 77    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.622  | 14.8  | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.203  | -0.4  | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.153  | 1.7   | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.136  | -6.3  | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.608  | 2.8   | 75    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.566  | 4.9   | 68    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.502  | -3.0  | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.765  | 4.5   | 74    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.275  | -0.5  | 77    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.658  | 4.7   | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.436  | -2.9  | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.841  | 2.3   | 70    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.267  | -8.5  | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.187  | -0.4# | 76    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.310  | -4.6  | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.663  | -3.3  | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 47.358  | 5.3   | 68    | 0.00     |

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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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1034.815 | -3.5  | 75    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.507   | -1.0  | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.704  | 1.3   | 69    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.210   | -2.4# | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.849   | -1.7  | 75    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.027   | -2.1  | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.064   | -6.1  | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.341   | -2.7  | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.984   | -4.0  | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 251.839  | -0.7  | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 244.510  | 2.2   | 67    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.603   | -9.2  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.492   | -7.0  | 79    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.358   | -0.7  | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 56.631   | -13.3 | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.064   | -4.1  | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.996   | -6.0  | 80    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.540   | -1.1# | 78    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.720  | -1.7  | 78    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.151   | -2.3  | 78    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.170   | -2.3  | 78    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.701   | -9.4  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 75    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.701   | -1.4  | 78    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 46.708   | 6.6   | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.773   | 6.5   | 67    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.265   | 1.5   | 73    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.059   | -6.1  | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.817   | 0.4   | 77    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.787   | 0.4   | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.262   | -0.5  | 77    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.360   | 1.3   | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.900   | 0.2   | 77    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.830   | -1.7  | 78    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.497   | -1.0  | 77    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.053   | -2.1  | 78    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.522   | -3.0  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.623   | -5.2  | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.587   | -5.2  | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.438   | 1.1   | 75    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.926   | -3.9  | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 53.288   | -6.6  | 80    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.232   | -2.5  | 75    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 53.823   | -7.6  | 81    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 53.025   | -6.0  | 80    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 55.111   | -10.2 | 80    | 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) |
|------|------------------------|--------|--------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 55.019 | -10.0 | 82    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6