

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022423\  
 Data File : VY012713.D  
 Acq On : 24 Feb 2023 09:24  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 24 10:29:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022123S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 22 01:21:05 2023  
 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.619  | 4.8   | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.742  | 12.5  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.015  | 6.0#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.630  | 0.7   | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.872  | 8.3   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.883  | 0.2   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.133  | 3.7   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.205  | -2.4  | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.558  | 2.9   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 188.853 | 24.5  | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.813  | 2.4#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 259.342 | -3.7  | 88    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.174  | 5.7   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 240.555 | 3.8   | 83    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 260.946 | -4.4  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.894  | 12.2  | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.026  | 11.9  | 77    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.145  | 1.7   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.357  | 1.3   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.565  | 0.9   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.803  | -1.6  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.001 | -0.4  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.858  | 0.3   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 247.708 | 0.9   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.597  | 0.8   | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.520  | 1.0   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.075  | -0.2  | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.744 | 2.1   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.672  | -1.3# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.368  | 5.3   | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.151  | -0.3  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.281  | 9.4   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.149  | 1.7   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.509  | -1.0  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.201  | 7.6   | 78    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.443  | -2.9  | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.389  | -6.8  | 99    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.999  | -2.0  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 42.201  | 15.6  | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.379  | 1.2   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.295  | 3.4   | 83    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.617  | -3.2  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.961  | -3.9# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.892  | -1.8  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.416  | -2.8  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.830  | 2.3   | 86    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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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 | 847.107 | 15.3  | 82    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.266  | 1.5   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 247.740 | 0.9   | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.227  | -6.5# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.708  | -3.4  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.368  | -4.7  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.746  | -5.5  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.978  | -6.0  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.760  | -3.5  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 261.383 | -4.6  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 258.299 | -3.3  | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.509  | -5.0  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.493  | -3.0  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.277  | -0.6  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.679  | -3.4  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.094  | -4.2  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.974  | -5.9  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.354  | -6.7# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.243 | -7.2  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.152  | -8.3  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.150  | -10.3 | 101   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.203  | -2.4  | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.936  | -5.9  | 102   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 49.529  | 0.9   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.210  | -0.4  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.762  | -3.5  | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.614  | -1.2  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.045  | -6.1  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.794  | -3.6  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.129  | -4.3  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.010  | -2.0  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.168  | -2.3  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.987  | -6.0  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.643  | -5.3  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.895  | -7.8  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.629  | -5.3  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.802  | -1.6  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.003  | -0.0  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.179  | -6.4  | 103   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.472  | -2.9  | 104   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.211  | -2.4  | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 47.513  | 5.0   | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.433  | 3.1   | 94    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.653  | 2.7   | 100   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 47.738  | 4.5   | 85    | 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 | 48.208 | 3.6  | 94    | 0.00     |

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