

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041122\  
 Data File : VY008263.D  
 Acq On : 11 Apr 2022 10:21  
 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: Apr 12 06:55:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y040822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 16:02:50 2022  
 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   | 113   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.110  | 19.8  | 110   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.834  | 10.3  | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 40.388  | 19.2# | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.556  | 16.9  | 106   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 40.400  | 19.2  | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 42.273  | 15.5  | 110   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 40.185  | 19.6  | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 42.310  | 15.4  | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 44.057  | 11.9  | 108   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 211.160 | 15.5  | 111   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 43.713  | 12.6# | 112   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 249.646 | 0.1   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 43.891  | 12.2  | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 205.379 | 17.8  | 104   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 240.172 | 3.9   | 117   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.041  | 15.9  | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.815  | 8.4   | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 42.640  | 14.7  | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 39.724  | 20.6  | 99    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 43.441  | 13.1  | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 42.850  | 14.3  | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 215.218 | 13.9  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 43.483  | 13.0  | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 216.231 | 13.5  | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.421  | 9.2   | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 43.781  | 12.4  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.682  | 0.6   | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 205.845 | 17.7  | 103   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 43.277  | 13.4# | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 39.847  | 20.3  | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 45.206  | 9.6   | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.475  | 13.0  | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 111   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.621  | 2.8   | 115   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.114  | 9.8   | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.343  | 15.3  | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.682  | 6.6   | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.690  | 12.6  | 105   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 44.399  | 11.2  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 44.568  | 10.9  | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 42.806  | 14.4  | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 43.072  | 13.9  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.030  | 7.9   | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 43.984  | 12.0# | 104   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 43.316  | 13.4  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 44.723  | 10.6  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 42.403  | 15.2  | 105   | 0.00     |

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 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 | 902.624 | 9.7  | 103   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.941  | -1.9 | 120   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 219.440 | 12.2 | 106   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 45.483  | 9.0# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 44.718  | 10.6 | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 45.174  | 9.7  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 43.854  | 12.3 | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 44.952  | 10.1 | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 43.022  | 14.0 | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 212.786 | 14.9 | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 228.712 | 8.5  | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.386  | 7.2  | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 43.123  | 13.8 | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.043  | 3.9  | 116   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.244  | 5.5  | 108   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.854  | 6.3  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.125  | 3.8  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.634  | 4.7# | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.502  | 3.5  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.687  | 4.6  | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.398  | 3.2  | 105   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.903  | 2.2  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.192  | 3.6  | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.472  | 7.1  | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.652  | 8.7  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.533  | 12.9 | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.164  | 5.7  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.796  | 4.4  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.076  | 5.8  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.096  | 3.8  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.485  | 3.0  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.432  | 5.1  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.848  | 0.3  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.008  | 4.0  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.918  | 4.2  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.638  | 2.7  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.863  | 4.3  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.157  | 3.7  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.394  | 5.2  | 104   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.518  | 1.0  | 108   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.164  | 5.7  | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.587  | 8.8  | 102   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 45.863  | 8.3  | 105   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 45.178  | 9.6  | 104   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.952  | 8.1  | 106   | 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 | 44.873 | 10.3 | 104   | 0.00     |

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