

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY040424\  
 Data File : VY017840.D  
 Acq On : 04 Apr 2024 08:58  
 Operator : SY/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 05 00:41:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032924S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 05:58:13 2024  
 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   | 61    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.217  | 1.6   | 74    | 0.02     |
| 3 P   | Chloromethane               | 50.000  | 46.250  | 7.5   | 64    | 0.02     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.096  | -6.2# | 74    | 0.02     |
| 5 T   | Bromomethane                | 50.000  | 56.248  | -12.5 | 83    | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 59.438  | -18.9 | 83    | 0.02     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.192  | 7.6   | 66    | 0.02     |
| 8 T   | Diethyl Ether               | 50.000  | 41.311  | 17.4  | 58    | 0.03     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.286  | 7.4   | 66    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 49.478  | 1.0   | 64    | 0.03     |
| 11 T  | Tert butyl alcohol          | 250.000 | 169.558 | 32.2# | 46    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.323  | 7.4#  | 65    | 0.03     |
| 13 T  | Acrolein                    | 250.000 | 231.235 | 7.5   | 62    | 0.03     |
| 14 T  | Allyl chloride              | 50.000  | 41.672  | 16.7  | 57    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 194.074 | 22.4  | 53    | 0.02     |
| 16 T  | Acetone                     | 250.000 | 216.597 | 13.4  | 58    | 0.02     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.335  | 11.3  | 57    | 0.02     |
| 18 T  | Methyl Acetate              | 50.000  | 36.879  | 26.2# | 52    | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 44.159  | 11.7  | 61    | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 42.712  | 14.6  | 58    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.418  | 5.2   | 65    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 43.546  | 12.9  | 60    | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 214.480 | 14.2  | 58    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.693  | 6.6   | 66    | 0.03     |
| 25 T  | 2-Butanone                  | 250.000 | 200.693 | 19.7  | 55    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.042  | 3.9   | 70    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.180  | 5.6   | 65    | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 44.245  | 11.5  | 52    | 0.02     |
| 29 T  | Tetrahydrofuran             | 250.000 | 182.842 | 26.9# | 50    | 0.02     |
| 30 C  | Chloroform                  | 50.000  | 48.509  | 3.0#  | 69    | 0.02     |
| 31 T  | Cyclohexane                 | 50.000  | 42.672  | 14.7  | 61    | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.509  | 1.0   | 70    | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.463  | -0.9  | 68    | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 61    | 0.02     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.025  | -6.0  | 69    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.542  | 4.9   | 64    | 0.02     |
| 37 T  | Ethyl Acetate               | 50.000  | 39.027  | 21.9  | 55    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.763  | 0.5   | 69    | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.418  | 5.2   | 63    | 0.01     |
| 40 TM | Benzene                     | 50.000  | 47.207  | 5.6   | 65    | 0.02     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.717  | 12.6  | 53    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.898  | 6.2   | 64    | 0.02     |
| 43 T  | Isopropyl Acetate           | 50.000  | 41.523  | 17.0  | 58    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 46.624  | 6.8   | 64    | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 45.304  | 9.4#  | 63    | 0.01     |
| 46 T  | Dibromomethane              | 50.000  | 46.534  | 6.9   | 64    | 0.02     |
| 47 T  | Bromodichloromethane        | 50.000  | 48.108  | 3.8   | 67    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000  | 43.704  | 12.6  | 55    | 0.01     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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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 | 812.670 | 18.7 | 54    | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 53.590  | -7.2 | 69    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 219.581 | 12.2 | 54    | 0.01     |
| 52 CM | Toluene                     | 50.000   | 48.855  | 2.3# | 67    | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.467  | 7.1  | 64    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.768  | 6.5  | 64    | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 44.973  | 10.1 | 64    | 0.01     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.976  | 8.0  | 57    | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 44.883  | 10.2 | 62    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 252.511 | -1.0 | 55    | 0.01     |
| 59 T  | 2-Hexanone                  | 250.000  | 221.558 | 11.4 | 54    | 0.01     |
| 60 T  | Dibromochloromethane        | 50.000   | 45.650  | 8.7  | 64    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 44.313  | 11.4 | 61    | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.136  | -2.3 | 67    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 61    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.654  | 6.7  | 64    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.169  | 5.7  | 66    | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.910  | 4.2  | 67    | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.458  | 1.1# | 68    | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.136  | 0.9  | 68    | 0.01     |
| 69 T  | o-Xylene                    | 50.000   | 54.900  | -9.8 | 68    | 0.01     |
| 70 T  | Styrene                     | 50.000   | 54.152  | -8.3 | 67    | 0.01     |
| 71 P  | Bromoform                   | 50.000   | 43.456  | 13.1 | 60    | 0.01     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 57    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.520  | -3.0 | 69    | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 45.195  | 9.6  | 53    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 43.810  | 12.4 | 60    | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.602  | 0.8  | 65    | 0.01     |
| 77 T  | Bromobenzene                | 50.000   | 47.111  | 5.8  | 65    | 0.01     |
| 78 T  | n-propylbenzene             | 50.000   | 51.155  | -2.3 | 67    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.088  | 1.8  | 66    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.902  | -1.8 | 67    | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.395  | 7.2  | 56    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.962  | 4.1  | 64    | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.833  | -3.7 | 70    | 0.01     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.446  | -0.9 | 67    | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.201  | -4.4 | 69    | 0.01     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.753  | -3.5 | 69    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.484  | 3.0  | 67    | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.300  | 3.4  | 66    | 0.01     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.521  | -5.0 | 69    | 0.01     |
| 90 T  | Hexachloroethane            | 50.000   | 50.867  | -1.7 | 70    | 0.01     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.582  | 4.8  | 63    | 0.01     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 40.509  | 19.0 | 55    | 0.01     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.000  | 6.0  | 60    | 0.01     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.256  | 3.5  | 65    | 0.01     |
| 95 T  | Naphthalene                 | 50.000   | 45.412  | 9.2  | 54    | 0.01     |

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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 | 44.641 | 10.7 | 57    | 0.02     |

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