

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020923\  
 Data File : VY012568.D  
 Acq On : 09 Feb 2023 18:04  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 10 06:00:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 01:09:03 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  | 42.332  | 15.3  | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 40.104  | 19.8  | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.439  | 15.1# | 85    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.186  | 3.6   | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.996  | 10.0  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.341  | 9.3   | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.625  | 2.8   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.591  | 6.8   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.202  | 5.6   | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 221.517 | 11.4  | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.024  | 10.0# | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 236.514 | 5.4   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.674  | 8.7   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 264.690 | -5.9  | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 256.154 | -2.5  | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.057  | 17.9  | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.518  | 3.0   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.295  | -2.6  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.420  | -2.8  | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.694  | 6.6   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.465  | -0.9  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 264.037 | -5.6  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.810  | 4.4   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 259.180 | -3.7  | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.086  | 7.8   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.234  | 3.5   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.635  | -9.3  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 274.443 | -9.8  | 111   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.281  | 1.4#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.976  | 12.0  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.644  | 2.7   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.697  | -5.4  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.751  | -7.5  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.986  | 4.0   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.338  | -4.7  | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.091  | 1.8   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.338  | 5.3   | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.563  | 2.9   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.223  | 9.6   | 79    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.665  | -3.3  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.653  | -9.3  | 107   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.743  | 0.5   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.348  | 1.3#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.052  | -4.1  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.081  | -4.2  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.294  | -8.6  | 107   | 0.00     |

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 ALS Vial : 19 Sample Multiplier: 1

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 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 | 1167.706 | -16.8 | 116   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.097   | -6.2  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 290.022  | -16.0 | 113   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.703   | 0.6#  | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.079   | -4.2  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.529   | -1.1  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.397   | -6.8  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.208   | -12.4 | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.386   | -4.8  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 290.453  | -16.2 | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 287.602  | -15.0 | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.677   | -7.4  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.684   | -7.4  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.715   | -5.4  | 100   | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.045   | -4.1  | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.843   | 2.3   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.529   | 0.9   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.473   | 3.1#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.050   | 2.0   | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.942   | 0.1   | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.151   | -0.3  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.297   | -8.6  | 108   | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.249   | 5.5   | 94    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 52.275   | -4.5  | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.840   | 0.3   | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.642   | -1.3  | 110   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.216   | 3.6   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.626   | 4.7   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.404   | 5.2   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.113   | 3.8   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.226   | -4.5  | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.437   | 5.1   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.003   | 4.0   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.235   | 3.5   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.829   | 4.3   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.746   | 2.5   | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.444   | 3.1   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.533   | 2.9   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.441   | 3.1   | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.157   | 5.7   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.382   | 1.2   | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 53.277   | -6.6  | 118   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.943   | -3.9  | 106   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.874   | 2.3   | 100   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 56.985   | -14.0 | 116   | 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 | 53.069 | -6.1 | 109   | 0.00     |

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