

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061923\  
 Data File : VY014272.D  
 Acq On : 20 Jun 2023 09:43  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 20 11:25:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 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                    | AvgRF | CCRF  | %Dev    | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|---------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0     | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.557 | 0.501 | 10.1    | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.707 | 0.610 | 13.7    | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.687 | 0.618 | 10.0#   | 76    | 0.00     |
| 5 T   | Bromomethane                | 0.567 | 0.479 | 15.5    | 79    | -0.02    |
| 6 T   | Chloroethane                | 0.467 | 0.416 | 10.9    | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.116 | 1.111 | 0.4     | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.373 | 0.379 | -1.6    | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.563 | 0.576 | -2.3    | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 0.744 | 0.679 | 8.7     | 73    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.092 | 0.102 | -10.9   | 113   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.571 | 0.561 | 1.8#    | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.044 | 0.000 | 100.0#  | 0#    | -3.73#   |
| 14 T  | Allyl chloride              | 1.035 | 0.985 | 4.8     | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.192 | 0.232 | -20.8   | 103   | 0.00     |
| 16 T  | Acetone                     | 0.210 | 0.197 | 6.2     | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.850 | 1.732 | 6.4     | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 0.815 | 1.696 | -108.1# | 188#  | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.684 | 1.840 | -9.3    | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.775 | 0.796 | -2.7    | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.637 | 0.663 | -4.1    | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.981 | 2.170 | -9.5    | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.169 | 0.709 | 39.3#   | 50#   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.142 | 1.218 | -6.7    | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.258 | 0.316 | -22.5   | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.073 | 0.891 | 17.0    | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.712 | 0.765 | -7.4    | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.465 | 0.516 | -11.0   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.164 | 0.214 | -30.5#  | 116   | 0.00     |
| 30 C  | Chloroform                  | 1.212 | 1.341 | -10.6#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.933 | 0.958 | -2.7    | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.093 | 1.181 | -8.1    | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.696 | 0.729 | -4.7    | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0     | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.355 | 0.398 | -12.1   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.553 | 0.578 | -4.5    | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.381 | 0.371 | 2.6     | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.638 | 0.672 | -5.3    | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.613 | 0.637 | -3.9    | 86    | 0.00     |
| 40 TM | Benzene                     | 1.644 | 1.737 | -5.7    | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.195 | 0.241 | -23.6   | 122   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.581 | 0.618 | -6.4    | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.669 | 0.668 | 0.1     | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.439 | 0.459 | -4.6    | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.418 | 0.444 | -6.2#   | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.257 | 0.276 | -7.4    | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.602 | 0.655 | -8.8    | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.312 | 0.369 | -18.3   | 104   | 0.00     |

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 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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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                    | AvgRF | CCRF  | %Dev    | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|---------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.004 | -33.3#  | 105   | -0.01    |
| 50 S  | Toluene-d8                  | 1.326 | 1.327 | -0.1    | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.363 | 0.452 | -24.5   | 110   | 0.00     |
| 52 CM | Toluene                     | 1.019 | 1.089 | -6.9#   | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.634 | 0.639 | -0.8    | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.691 | 0.680 | 1.6     | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.341 | 0.379 | -11.1   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.470 | 0.524 | -11.5   | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.583 | 0.640 | -9.8    | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.177 | 0.363 | -105.1# | 153#  | 0.00     |
| 59 T  | 2-Hexanone                  | 0.262 | 0.322 | -22.9   | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.436 | 0.489 | -12.2   | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.336 | 0.371 | -10.4   | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.471 | 0.545 | -15.7   | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.426 | 0.506 | -18.8   | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.201 | 1.207 | -0.5    | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.473 | 0.491 | -3.8    | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.103 | 2.182 | -3.8#   | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.809 | 0.840 | -3.8    | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.765 | 0.809 | -5.8    | 94    | 0.00     |
| 70 T  | Styrene                     | 1.305 | 1.381 | -5.8    | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.324 | 0.355 | -9.6    | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.814 | 3.808 | 0.2     | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 1.209 | 0.839 | 30.6#   | 66    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.852 | 0.903 | -6.0    | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.656 | 0.768 | -17.1   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 1.003 | 0.991 | 1.2     | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.659 | 4.714 | -1.2    | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.681 | 2.719 | -1.4    | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.266 | 3.312 | -1.4    | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.303 | 0.279 | 7.9     | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.841 | 2.821 | 0.7     | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.775 | 2.853 | -2.8    | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.233 | 3.326 | -2.9    | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.035 | 4.116 | -2.0    | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.453 | 3.381 | 2.1     | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.914 | 1.907 | 0.4     | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.929 | 1.877 | 2.7     | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.203 | 3.132 | 2.2     | 91    | 0.00     |
| 90 T  | Hexachloroethane            | 0.688 | 0.706 | -2.6    | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.719 | 1.748 | -1.7    | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.162 | 0.179 | -10.5   | 117   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.089 | 1.030 | 5.4     | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.629 | 0.592 | 5.9     | 89    | 0.00     |
| 95 T  | Naphthalene                 | 2.210 | 2.344 | -6.1    | 103   | 0.00     |

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Quant Title : SW846 8260  
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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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.984 | 0.963 | 2.1  | 97    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6