

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032625\  
 Data File : VY021654.D  
 Acq On : 26 Mar 2025 18:07  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 27 01:33:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 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    | 79    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.459 | 0.389 | 15.3   | 69    | 0.00     |
| 3 P   | Chloromethane               | 0.647 | 0.599 | 7.4    | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.707 | 0.727 | -2.8#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.511 | 0.485 | 5.1    | 82    | -0.01    |
| 6 T   | Chloroethane                | 0.467 | 0.514 | -10.1  | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.987 | 0.980 | 0.7    | 80    | -0.01    |
| 8 T   | Diethyl Ether               | 0.273 | 0.278 | -1.8   | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.563 | 0.545 | 3.2    | 80    | -0.02    |
| 10 T  | Methyl Iodide               | 0.573 | 0.626 | -9.2   | 78    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.041 | 0.034 | 17.1   | 70    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.514 | 0.492 | 4.3#   | 77    | -0.01    |
| 13 T  | Acrolein                    | 0.027 | 0.004 | 85.2#  | 74    | -0.02    |
| 14 T  | Allyl chloride              | 0.830 | 0.850 | -2.4   | 80    | -0.01    |
| 15 T  | Acrylonitrile               | 0.116 | 0.125 | -7.8   | 79    | -0.01    |
| 16 T  | Acetone                     | 0.115 | 0.094 | 18.3   | 55    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.610 | 1.374 | 14.7   | 66    | -0.01    |
| 18 T  | Methyl Acetate              | 0.256 | 0.379 | -48.0# | 105   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.302 | 1.387 | -6.5   | 80    | -0.01    |
| 20 T  | Methylene Chloride          | 0.605 | 0.599 | 1.0    | 86    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.575 | 0.566 | 1.6    | 79    | -0.01    |
| 22 T  | Diisopropyl ether           | 1.789 | 1.968 | -10.0  | 84    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.021 | 1.027 | -0.6   | 73    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 1.056 | 1.123 | -6.3   | 84    | -0.01    |
| 25 T  | 2-Butanone                  | 0.159 | 0.154 | 3.1    | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.971 | 0.964 | 0.7    | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.653 | 0.692 | -6.0   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.443 | 0.481 | -8.6   | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.098 | 0.103 | -5.1   | 73    | 0.00     |
| 30 C  | Chloroform                  | 1.096 | 1.182 | -7.8#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.990 | 0.857 | 13.4   | 72    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.004 | 1.037 | -3.3   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.528 | 0.470 | 11.0   | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.329 | 0.298 | 9.4    | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.514 | 0.501 | 2.5    | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.227 | 0.232 | -2.2   | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.592 | 0.591 | 0.2    | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.631 | 0.585 | 7.3    | 72    | 0.00     |
| 40 TM | Benzene                     | 1.515 | 1.566 | -3.4   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.124 | 0.130 | -4.8   | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.424 | 0.441 | -4.0   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.441 | 0.455 | -3.2   | 76    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.396 | -3.4   | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.361 | 0.388 | -7.5#  | 85    | 0.00     |
| 46 T  | Dibromomethane              | 0.201 | 0.212 | -5.5   | 81    | -0.01    |
| 47 T  | Bromodichloromethane        | 0.533 | 0.581 | -9.0   | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.203 | 0.211 | -3.9   | 74    | 0.00     |

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 ALS Vial : 14 Sample Multiplier: 1

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 MSVOA\_Y  
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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                 | 0.002 | 0.002 | 0.0   | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 1.244 | 1.073 | 13.7  | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.228 | 0.247 | -8.3  | 76    | 0.00     |
| 52 CM | Toluene                     | 0.955 | 1.008 | -5.5# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.470 | 0.506 | -7.7  | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.597 | -7.2  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.263 | 0.288 | -9.5  | 82    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.335 | 0.376 | -12.2 | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.455 | 0.494 | -8.6  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.155 | 0.168 | -8.4  | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.151 | 0.162 | -7.3  | 72    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.360 | 0.395 | -9.7  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.248 | 0.263 | -6.0  | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.390 | 7.8   | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.407 | 0.450 | -10.6 | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.181 | 1.193 | -1.0  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.417 | 0.443 | -6.2  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.072 | 2.104 | -1.5# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.787 | 0.799 | -1.5  | 81    | 0.00     |
| 69 T  | o-Xylene                    | 0.725 | 0.768 | -5.9  | 85    | 0.00     |
| 70 T  | Styrene                     | 1.203 | 1.300 | -8.1  | 85    | 0.00     |
| 71 P  | Bromoform                   | 0.233 | 0.249 | -6.9  | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.939 | 3.877 | 1.6   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 0.855 | 0.850 | 0.6   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.695 | 0.651 | 6.3   | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.504 | 0.480 | 4.8   | 85    | 0.00     |
| 77 T  | Bromobenzene                | 0.921 | 0.927 | -0.7  | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 4.783 | 4.679 | 2.2   | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.735 | 2.692 | 1.6   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.201 | 3.179 | 0.7   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.222 | 0.199 | 10.4  | 73    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.832 | 2.797 | 1.2   | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.855 | 2.902 | -1.6  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.178 | 3.179 | -0.0  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.248 | 4.216 | 0.8   | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.500 | 3.496 | 0.1   | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.834 | 1.761 | 4.0   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.794 | 1.757 | 2.1   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.232 | 3.270 | -1.2  | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 0.747 | 0.743 | 0.5   | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.572 | 1.549 | 1.5   | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.104 | 0.103 | 1.0   | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.859 | 0.911 | -6.1  | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.538 | 0.554 | -3.0  | 88    | 0.00     |
| 95 T  | Naphthalene                 | 1.390 | 1.586 | -14.1 | 88    | 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.722 | 0.775 | -7.3 | 87    | 0.00     |

(#) = Out of Range

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