

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY011520\  
 Data File : VY001235.D  
 Acq On : 15 Jan 2020 22:15  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 16 06:38:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 10 16:01:58 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.384 | 0.396 | -3.1   | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.553 | 0.583 | -5.4   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.558 | 0.614 | -10.0# | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.300 | 0.428 | -42.7# | 111   | 0.00     |
| 6 T   | Chloroethane                | 0.322 | 0.408 | -26.7# | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.776 | 0.773 | 0.4    | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 0.302 | 0.347 | -14.9  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.500 | 0.501 | -0.2   | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 0.684 | 0.726 | -6.1   | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.053 | 0.065 | -22.6  | 112   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.511 | 0.528 | -3.3#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.048 | 0.050 | -4.2   | 88    | 0.00     |
| 14 T  | Allyl chloride              | 0.863 | 0.940 | -8.9   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.151 | 0.181 | -19.9  | 100   | 0.00     |
| 16 T  | Acetone                     | 0.123 | 0.155 | -26.0# | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.654 | 1.721 | -4.1   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.405 | 0.485 | -19.8  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.414 | 1.615 | -14.2  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.683 | 0.680 | 0.4    | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.580 | 0.626 | -7.9   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.762 | 2.016 | -14.4  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.127 | 1.336 | -18.5  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.965 | 1.079 | -11.8  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.191 | 0.243 | -27.2# | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.887 | 0.872 | 1.7    | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.635 | 0.710 | -11.8  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.396 | 0.474 | -19.7  | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.131 | 0.161 | -22.9  | 101   | 0.00     |
| 30 C  | Chloroform                  | 0.945 | 1.053 | -11.4# | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 1.021 | 1.001 | 2.0    | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.839 | 0.877 | -4.5   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.528 | 0.591 | -11.9  | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.293 | 0.289 | 1.4    | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.450 | 1.3    | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.267 | 0.293 | -9.7   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.418 | 0.406 | 2.9    | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.618 | 0.580 | 6.1    | 81    | 0.00     |
| 40 TM | Benzene                     | 1.330 | 1.405 | -5.6   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.126 | 0.131 | -4.0   | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.372 | 0.400 | -7.5   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.511 | 0.578 | -13.1  | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.347 | 0.363 | -4.6   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.329 | 0.354 | -7.6#  | 93    | 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.179 | 0.196 | -9.5   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.437 | 0.466 | -6.6   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.237 | 0.260 | -9.7   | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 103   | 0.00     |
| 50 S  | Toluene-d8                  | 1.128 | 1.180 | -4.6   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.259 | 0.296 | -14.3  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.848 | 0.877 | -3.4#  | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.489 | 0.513 | -4.9   | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.552 | 0.587 | -6.3   | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.266 | 0.282 | -6.0   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.407 | 0.445 | -9.3   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.457 | 0.502 | -9.8   | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.143 | 0.134 | 6.3    | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.182 | 0.212 | -16.5  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.306 | 0.325 | -6.2   | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.277 | -6.5   | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.461 | 0.451 | 2.2    | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.322 | 0.328 | -1.9   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 0.999 | 1.029 | -3.0   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.344 | 0.360 | -4.7   | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.828 | 1.887 | -3.2#  | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.689 | 0.712 | -3.3   | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.661 | 0.685 | -3.6   | 89    | 0.00     |
| 70 T  | Styrene                     | 1.160 | 1.224 | -5.5   | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.212 | 0.225 | -6.1   | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.759 | 3.783 | -0.6   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 1.173 | 1.304 | -11.2  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.791 | 0.854 | -8.0   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.535 | 0.595 | -11.2  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.831 | 0.866 | -4.2   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.521 | 4.570 | -1.1   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.597 | 2.638 | -1.6   | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.136 | 3.203 | -2.1   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.316 | 0.313 | 0.9    | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.772 | 2.819 | -1.7   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.635 | 2.735 | -3.8   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.115 | 3.234 | -3.8   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.791 | 3.828 | -1.0   | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.292 | 3.371 | -2.4   | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.571 | 1.657 | -5.5   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.617 | 1.674 | -3.5   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.315 | 3.326 | -0.3   | 85    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.643 | 0.655 | -1.9 | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.460 | 1.532 | -4.9 | 91    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.143 | 0.149 | -4.2 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.962 | 0.984 | -2.3 | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.485 | 0.460 | 5.2  | 82    | 0.00     |
| 95 T | Naphthalene                 | 2.239 | 2.365 | -5.6 | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.848 | 0.870 | -2.6 | 90    | 0.00     |

(#) = Out of Range

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