

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY101019\  
 Data File : VY000262.D  
 Acq On : 10 Oct 2019 18:58  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0ml/MSVOA Y/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 11 07:11:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 10 02:22:40 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.499 | 0.486 | 2.6   | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.680 | 0.670 | 1.5   | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.702 | 0.696 | 0.9#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.443 | 0.479 | -8.1  | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.443 | 0.446 | -0.7  | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.907 | 0.887 | 2.2   | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 0.415 | 0.394 | 5.1   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.530 | 0.507 | 4.3   | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 0.781 | 0.857 | -9.7  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.349 | 0.363 | -4.0  | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.550 | 0.542 | 1.5#  | 80    | 0.00     |
| 13 T  | Acrolein                    | 0.183 | 0.182 | 0.5   | 87    | 0.00     |
| 14 T  | Allyl chloride              | 0.926 | 0.937 | -1.2  | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.617 | 0.637 | -3.2  | 86    | 0.00     |
| 16 T  | Acetone                     | 0.509 | 0.561 | -10.2 | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.620 | 1.562 | 3.6   | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 1.396 | 1.464 | -4.9  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.011 | 2.025 | -0.7  | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 0.669 | 0.628 | 6.1   | 82    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.618 | 0.603 | 2.4   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.146 | 2.219 | -3.4  | 84    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.944 | 2.060 | -6.0  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.095 | 1.078 | 1.6   | 81    | 0.00     |
| 25 T  | 2-Butanone                  | 0.942 | 1.038 | -10.2 | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.988 | 0.907 | 8.2   | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.728 | 0.701 | 3.7   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 0.360 | 0.424 | -17.8 | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.665 | 0.712 | -7.1  | 86    | 0.00     |
| 30 C  | Chloroform                  | 1.136 | 1.118 | 1.6#  | 82    | 0.00     |
| 31 T  | Cyclohexane                 | 1.106 | 1.010 | 8.7   | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.966 | 0.953 | 1.3   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.643 | 0.677 | -5.3  | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.312 | 0.307 | 1.6   | 82    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.509 | 0.472 | 7.3   | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.920 | 0.916 | 0.4   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.496 | 0.475 | 4.2   | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.638 | 0.582 | 8.8   | 75    | 0.00     |
| 40 TM | Benzene                     | 1.543 | 1.500 | 2.8   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.724 | 0.700 | 3.3   | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.501 | 0.513 | -2.4  | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.184 | 1.202 | -1.5  | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.419 | 0.396 | 5.5   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.387 | 0.382 | 1.3#  | 83    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.271 | 0.257 | 5.2   | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.530 | 0.518 | 2.3   | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.534 | 0.533 | 0.2   | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.014 | 0.014 | 0.0   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.224 | 1.193 | 2.5   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.890 | 0.947 | -6.4  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.990 | 0.944 | 4.6#  | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.601 | 0.605 | -0.7  | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.651 | 0.641 | 1.5   | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.390 | 0.393 | -0.8  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.687 | 0.699 | -1.7  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.666 | 0.661 | 0.8   | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.306 | 0.357 | -16.7 | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.754 | 0.819 | -8.6  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.413 | 0.419 | -1.5  | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.415 | 0.413 | 0.5   | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.430 | 0.5   | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.457 | 0.430 | 5.9   | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 1.159 | 1.090 | 6.0   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.414 | 0.412 | 0.5   | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.071 | 2.009 | 3.0#  | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.790 | 0.763 | 3.4   | 78    | 0.00     |
| 69 T  | o-Xylene                    | 0.761 | 0.750 | 1.4   | 81    | 0.00     |
| 70 T  | Styrene                     | 1.311 | 1.296 | 1.1   | 80    | 0.00     |
| 71 P  | Bromoform                   | 0.342 | 0.352 | -2.9  | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.237 | 4.025 | 5.0   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 2.017 | 2.237 | -10.9 | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.446 | 1.458 | -0.8  | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.320 | 1.338 | -1.4  | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.994 | 0.941 | 5.3   | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 4.949 | 4.777 | 3.5   | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.849 | 2.724 | 4.4   | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.535 | 3.392 | 4.0   | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.640 | 0.635 | 0.8   | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.886 | 2.848 | 1.3   | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.073 | 2.900 | 5.6   | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.532 | 3.434 | 2.8   | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.235 | 4.010 | 5.3   | 77    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.724 | 3.657 | 1.8   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.801 | 1.746 | 3.1   | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.876 | 1.778 | 5.2   | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.510 | 3.427 | 2.4   | 77    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.705 | 0.684 | 3.0  | 78    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.823 | 1.722 | 5.5  | 80    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.452 | 0.480 | -6.2 | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.237 | 1.156 | 6.5  | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.591 | 0.540 | 8.6  | 79    | 0.00     |
| 95 T | Naphthalene                 | 4.655 | 4.579 | 1.6  | 82    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.190 | 1.160 | 2.5  | 83    | 0.00     |

(#) = Out of Range

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