

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX062018\  
 Data File : VX002733.D  
 Acq On : 20 Jun 2018 10:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 21 04:05:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.531 | 0.488 | 8.1   | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.631 | 0.504 | 20.1# | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.655 | 0.555 | 15.3# | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.395 | 0.299 | 24.3# | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.432 | 0.372 | 13.9  | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.065 | 0.954 | 10.4  | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.405 | 0.356 | 12.1  | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.595 | 0.545 | 8.4   | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.733 | 0.600 | 18.1  | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.157 | 0.121 | 22.9# | 79    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.559 | 0.471 | 15.7# | 82    | 0.00     |
| 13 T  | Acrolein                    | 0.080 | 0.086 | -7.5  | 118   | 0.00     |
| 14 T  | Allyl chloride              | 1.109 | 0.960 | 13.4  | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.343 | 0.287 | 16.3  | 83    | 0.00     |
| 16 T  | Acetone                     | 0.335 | 0.303 | 9.6   | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.325 | 1.248 | 5.8   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.893 | 0.778 | 12.9  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.096 | 1.830 | 12.7  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.687 | 0.556 | 19.1  | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.606 | 0.518 | 14.5  | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.007 | 1.900 | 5.3   | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.680 | 1.663 | 1.0   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.089 | 1.007 | 7.5   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.440 | 0.401 | 8.9   | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.783 | 0.747 | 4.6   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.617 | 0.571 | 7.5   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.510 | 0.440 | 13.7  | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.289 | 0.250 | 13.5  | 86    | 0.00     |
| 30 C  | Chloroform                  | 1.050 | 1.005 | 4.3#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.897 | 0.815 | 9.1   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.879 | 0.850 | 3.3   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.760 | 0.641 | 15.7  | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.399 | 0.372 | 6.8   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.531 | 0.522 | 1.7   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.601 | 0.569 | 5.3   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.529 | 0.561 | -6.0  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.621 | 0.620 | 0.2   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.592 | 1.549 | 2.7   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.339 | 0.328 | 3.2   | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.616 | 0.621 | -0.8  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.996 | 0.957 | 3.9   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.460 | 0.455 | 1.1   | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.419 | 0.415 | 1.0#  | 91    | 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              | 0.280 | 0.289 | -3.2  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.494 | 0.539 | -9.1  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.509 | 0.503 | 1.2   | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.008 | 20.0  | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 1.515 | 1.354 | 10.6  | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.639 | 0.618 | 3.3   | 87    | 0.00     |
| 52 CM | Toluene                     | 1.016 | 1.006 | 1.0#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.582 | 0.643 | -10.5 | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.539 | 0.603 | -11.9 | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.410 | 0.427 | -4.1  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.632 | 0.643 | -1.7  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.694 | 0.695 | -0.1  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.305 | 0.281 | 7.9   | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.482 | 0.472 | 2.1   | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.396 | 0.448 | -13.1 | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.425 | 0.451 | -6.1  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.574 | 0.530 | 7.7   | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.555 | 0.510 | 8.1   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 1.228 | 1.213 | 1.2   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.419 | 0.447 | -6.7  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.071 | 2.045 | 1.3#  | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.799 | 0.800 | -0.1  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.785 | 0.781 | 0.5   | 91    | 0.00     |
| 70 T  | Styrene                     | 1.291 | 1.325 | -2.6  | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.315 | 0.362 | -14.9 | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.344 | 3.195 | 4.5   | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 1.661 | 1.488 | 10.4  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.988 | 0.992 | -0.4  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.943 | 0.994 | -5.4  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.932 | 0.914 | 1.9   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 3.835 | 3.682 | 4.0   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.290 | 2.173 | 5.1   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.826 | 2.743 | 2.9   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.249 | 0.272 | -9.2  | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.702 | 2.633 | 2.6   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.723 | 2.647 | 2.8   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.884 | 2.853 | 1.1   | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.385 | 3.261 | 3.7   | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.063 | 3.019 | 1.4   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.709 | 1.668 | 2.4   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.738 | 1.712 | 1.5   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.702 | 2.645 | 2.1   | 89    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.423 | 0.428 | -1.2 | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.720 | 1.687 | 1.9  | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.207 | 0.212 | -2.4 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.248 | 1.258 | -0.8 | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.657 | 0.650 | 1.1  | 89    | 0.00     |
| 95 T | Naphthalene                 | 3.358 | 3.440 | -2.4 | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.253 | 1.269 | -1.3 | 93    | 0.00     |

(#) = Out of Range

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