

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\  
 Data File : VX002273.D  
 Acq On : 04 Jun 2018 21:00  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 06:04:58 2018  
 Quant Method : Y:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 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     | 0.520 | 0.540 | -3.8  | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.684 | 0.619 | 9.5   | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.655 | 0.661 | -0.9# | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.521 | 0.380 | 27.1# | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.424 | 0.419 | 1.2   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.998 | 1.080 | -8.2  | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.407 | 0.375 | 7.9   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.596 | -10.6 | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.758 | 0.731 | 3.6   | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.160 | 0.152 | 5.0   | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.532 | 0.536 | -0.8# | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.077 | 0.072 | 6.5   | 94    | 0.00     |
| 14 T  | Allyl chloride              | 1.155 | 1.076 | 6.8   | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.341 | 0.323 | 5.3   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.358 | 0.308 | 14.0  | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.403 | 1.311 | 6.6   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.844 | 0.781 | 7.5   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.109 | 1.967 | 6.7   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.710 | 0.600 | 15.5  | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.587 | 0.570 | 2.9   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.155 | 1.945 | 9.7   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.873 | 1.679 | 10.4  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.142 | 0.978 | 14.4  | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.490 | 0.441 | 10.0  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.892 | 0.749 | 16.0  | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.638 | 0.582 | 8.8   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.553 | 0.510 | 7.8   | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.316 | 0.291 | 7.9   | 94    | 0.00     |
| 30 C  | Chloroform                  | 1.102 | 1.035 | 6.1#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.903 | 0.947 | -4.9  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.934 | 0.918 | 1.7   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.778 | 0.684 | 12.1  | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.393 | 0.360 | 8.4   | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.526 | 0.522 | 0.8   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.632 | 0.598 | 5.4   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.550 | 0.557 | -1.3  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.599 | 0.658 | -9.8  | 98    | 0.00     |
| 40 TM | Benzene                     | 1.612 | 1.560 | 3.2   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.362 | 0.341 | 5.8   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.640 | 0.610 | 4.7   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.074 | 1.007 | 6.2   | 93    | 0.00     |
| 44 TM | Trichloroethene             | 0.447 | 0.450 | -0.7  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.435 | 0.413 | 5.1#  | 93    | 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              | 0.295 | 0.277 | 6.1   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.533 | 0.515 | 3.4   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.539 | 0.513 | 4.8   | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.507 | 1.402 | 7.0   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.669 | 0.653 | 2.4   | 94    | 0.00     |
| 52 CM | Toluene                     | 1.025 | 1.025 | 0.0   | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.640 | 0.623 | 2.7   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.604 | 0.581 | 3.8   | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.422 | 0.407 | 3.6   | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.673 | 0.644 | 4.3   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.707 | 0.678 | 4.1   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.312 | 0.303 | 2.9   | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.516 | 0.502 | 2.7   | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.424 | 0.424 | 0.0   | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.440 | 0.436 | 0.9   | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.581 | 0.541 | 6.9   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.516 | 0.524 | -1.6  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.244 | 1.210 | 2.7   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.450 | 0.439 | 2.4   | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.082 | 2.089 | -0.3# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.809 | 0.812 | -0.4  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.805 | 0.799 | 0.7   | 95    | 0.00     |
| 70 T  | Styrene                     | 1.317 | 1.334 | -1.3  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.357 | 0.344 | 3.6   | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.478 | 3.421 | 1.6   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.874 | 1.643 | 12.3  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.094 | 0.983 | 10.1  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.097 | 1.005 | 8.4   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.976 | 0.923 | 5.4   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.866 | 3.909 | -1.1  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.441 | 2.326 | 4.7   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.983 | 2.924 | 2.0   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.313 | 0.274 | 12.5  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.818 | 2.744 | 2.6   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.905 | 2.840 | 2.2   | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.071 | 3.012 | 1.9   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.406 | 3.535 | -3.8  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.102 | 3.166 | -2.1  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.746 | 1.687 | 3.4   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.800 | 1.703 | 5.4   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.602 | 2.721 | -4.6  | 93    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.495 | 0.482 | 2.6  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.806 | 1.707 | 5.5  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.239 | 0.233 | 2.5  | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.267 | 1.231 | 2.8  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.626 | 0.657 | -5.0 | 94    | 0.00     |
| 95 T | Naphthalene                 | 3.639 | 3.562 | 2.1  | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.292 | 1.264 | 2.2  | 94    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5