

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX100118\  
 Data File : VX004859.D  
 Acq On : 01 Oct 2018 09:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 03:51:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 26 14:17:02 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.682 | 0.760 | -11.4  | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.827 | 0.807 | 2.4    | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.776 | 0.790 | -1.8#  | 76    | 0.00     |
| 5 T   | Bromomethane                | 0.460 | 0.587 | -27.6# | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.495 | 0.448 | 9.5    | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.960 | 1.018 | -6.0   | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 0.417 | 0.397 | 4.8    | 79    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.547 | 0.589 | -7.7   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.732 | 0.540 | 26.2#  | 51    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.200 | 0.180 | 10.0   | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.542 | 0.536 | 1.1#   | 82    | 0.00     |
| 13 T  | Acrolein                    | 0.142 | 0.086 | 39.4#  | 50#   | 0.00     |
| 14 T  | Allyl chloride              | 1.182 | 1.200 | -1.5   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.440 | 0.415 | 5.7    | 72    | 0.00     |
| 16 T  | Acetone                     | 0.417 | 0.425 | -1.9   | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.628 | 1.591 | 2.3    | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 1.056 | 1.069 | -1.2   | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.869 | 1.938 | -3.7   | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 0.670 | 0.611 | 8.8    | 71    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.593 | 0.580 | 2.2    | 75    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.991 | 2.026 | -1.8   | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.822 | 1.791 | 1.7    | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.187 | 1.125 | 5.2    | 73    | 0.00     |
| 25 T  | 2-Butanone                  | 0.615 | 0.577 | 6.2    | 73    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.827 | 0.891 | -7.7   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.663 | 0.627 | 5.4    | 73    | 0.00     |
| 28 T  | Bromochloromethane          | 0.559 | 0.515 | 7.9    | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.382 | 0.361 | 5.5    | 71    | 0.00     |
| 30 C  | Chloroform                  | 1.122 | 1.061 | 5.4#   | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 0.909 | 1.003 | -10.3  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.916 | 0.917 | -0.1   | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.714 | 0.651 | 8.8    | 69    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.424 | 0.372 | 12.3   | 66    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.578 | 0.573 | 0.9    | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.767 | 0.698 | 9.0    | 72    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.608 | 0.569 | 6.4    | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.590 | 0.698 | -18.3  | 95    | 0.00     |
| 40 TM | Benzene                     | 1.810 | 1.680 | 7.2    | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.426 | 0.398 | 6.6    | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.640 | 0.597 | 6.7    | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.108 | 1.060 | 4.3    | 71    | 0.00     |
| 44 TM | Trichloroethene             | 0.445 | 0.455 | -2.2   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.444 | 0.453 | -2.0#  | 86    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX100118\  
 Data File : VX004859.D  
 Acq On : 01 Oct 2018 09:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 03:51:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 26 14:17:02 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.279 | 0.285 | -2.2  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.522 | 0.561 | -7.5  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.503 | 0.558 | -10.9 | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.012 | 0.012 | 0.0   | 71    | 0.00     |
| 50 S  | Toluene-d8                  | 1.409 | 1.423 | -1.0  | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.697 | 0.747 | -7.2  | 84    | 0.00     |
| 52 CM | Toluene                     | 0.995 | 1.059 | -6.4# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.590 | 0.645 | -9.3  | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.618 | 0.695 | -12.5 | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.436 | 0.434 | 0.5   | 79    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.628 | 0.674 | -7.3  | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.725 | 0.725 | 0.0   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.331 | 0.387 | -16.9 | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.581 | 0.601 | -3.4  | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.436 | 0.451 | -3.4  | 75    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.467 | 0.451 | 3.4   | 72    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.508 | 0.535 | -5.3  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.492 | 0.465 | 5.5   | 79    | 0.00     |
| 65 PM | Chlorobenzene               | 1.282 | 1.230 | 4.1   | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.451 | 0.442 | 2.0   | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.036 | 2.111 | -3.7# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.795 | 0.833 | -4.8  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.731 | 0.789 | -7.9  | 90    | 0.00     |
| 70 T  | Styrene                     | 1.227 | 1.351 | -10.1 | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.386 | 0.392 | -1.6  | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.152 | 3.380 | -7.2  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 1.531 | 1.597 | -4.3  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.283 | 1.170 | 8.8   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.121 | 1.100 | 1.9   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.915 | 0.898 | 1.9   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 3.616 | 4.009 | -10.9 | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.254 | 2.314 | -2.7  | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.664 | 2.911 | -9.3  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.367 | 0.359 | 2.2   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.653 | 2.784 | -4.9  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.595 | 2.873 | -10.7 | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.728 | 3.014 | -10.5 | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.161 | 3.509 | -11.0 | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.863 | 3.192 | -11.5 | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.709 | 1.707 | 0.1   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.765 | 1.719 | 2.6   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.601 | 2.923 | -12.4 | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100118\  
Data File : VX004859.D  
Acq On : 01 Oct 2018 09:54  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 02 03:51:03 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 26 14:17:02 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.477 | 0.500 | -4.8 | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.786 | 1.710 | 4.3  | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.282 | 0.262 | 7.1  | 88    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.253 | 1.330 | -6.1 | 95    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.650 | 0.682 | -4.9 | 102   | 0.00     |
| 95 T | Naphthalene                 | 3.727 | 3.997 | -7.2 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.294 | 1.333 | -3.0 | 93    | 0.00     |

(#) = Out of Range

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