

Data File : VX001046.D

Acq On : 21 Apr 2018 07:57

Operator : JC/MD

Sample : VSTDCCC050EC

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 50 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Apr 23 01:00:19 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M

Quant Title : SW846 8260

QLast Update : Fri Apr 20 05:03:28 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.620 | 0.688 | -11.0 | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.577 | 0.588 | -1.9  | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.598 | 0.615 | -2.8# | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.370 | 0.396 | -7.0  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.356 | 0.368 | -3.4  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.899 | 0.925 | -2.9  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.332 | 0.336 | -1.2  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.527 | 0.525 | 0.4   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.437 | 0.481 | -10.1 | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.096 | 0.098 | -2.1  | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.487 | 0.492 | -1.0# | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.031 | 0.032 | -3.2  | 109   | 0.00     |
| 14 T  | Allyl chloride              | 0.882 | 0.872 | 1.1   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.259 | 0.252 | 2.7   | 93    | 0.00     |
| 16 T  | Acetone                     | 0.239 | 0.214 | 10.5  | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.388 | 1.350 | 2.7   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.722 | 0.801 | -10.9 | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.638 | 1.673 | -2.1  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.556 | 0.533 | 4.1   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.542 | 0.535 | 1.3   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.707 | 1.771 | -3.7  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.413 | 1.408 | 0.4   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.957 | 0.963 | -0.6  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.373 | 0.358 | 4.0   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.823 | 0.625 | 24.1# | 69    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.604 | 0.611 | -1.2  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.368 | 0.401 | -9.0  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.235 | 0.233 | 0.9   | 94    | 0.00     |
| 30 C  | Chloroform                  | 0.991 | 1.021 | -3.0# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.894 | 0.893 | 0.1   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.889 | 0.927 | -4.3  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.634 | 0.615 | 3.0   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.381 | 0.377 | 1.0   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.588 | 0.565 | 3.9   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.539 | 0.525 | 2.6   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.595 | 0.597 | -0.3  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.684 | 0.657 | 3.9   | 91    | 0.00     |
| 40 TM | Benzene                     | 1.634 | 1.617 | 1.0   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.337 | 0.317 | 5.9   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.627 | 0.619 | 1.3   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.925 | 0.916 | 1.0   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.499 | 0.490 | 1.8   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.411 | 0.416 | -1.2# | 93    | 0.00     |

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ALS Vial : 50 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Apr 23 01:00:19 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M

Quant Title : SW846 8260

QLast Update : Fri Apr 20 05:03:28 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.287 | 0.285 | 0.7   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.532 | 0.549 | -3.2  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.498 | 0.490 | 1.6   | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.008 | -14.3 | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 1.410 | 1.366 | 3.1   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.561 | 0.566 | -0.9  | 95    | 0.00     |
| 52 CM | Toluene                     | 1.066 | 1.066 | 0.0   | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.636 | 0.634 | 0.3   | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.600 | 0.602 | -0.3  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.424 | 0.426 | -0.5  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.622 | 0.632 | -1.6  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.702 | 0.695 | 1.0   | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.304 | 0.310 | -2.0  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.430 | 0.418 | 2.8   | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.445 | 0.469 | -5.4  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.447 | 0.458 | -2.5  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.592 | 0.566 | 4.4   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.531 | 0.533 | -0.4  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.331 | 1.308 | 1.7   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.457 | 0.470 | -2.8  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.211 | 2.182 | 1.3#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.871 | 0.858 | 1.5   | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.840 | 0.830 | 1.2   | 93    | 0.00     |
| 70 T  | Styrene                     | 1.384 | 1.404 | -1.4  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.375 | 0.392 | -4.5  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.269 | 3.232 | 1.1   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.398 | 1.355 | 3.1   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.925 | 0.926 | -0.1  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.867 | 0.858 | 1.0   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.949 | 0.926 | 2.4   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 3.753 | 3.670 | 2.2   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.217 | 2.171 | 2.1   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.771 | 2.743 | 1.0   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.245 | 0.220 | 10.2  | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.679 | 2.607 | 2.7   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.795 | 2.754 | 1.5   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.852 | 2.839 | 0.5   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.337 | 3.260 | 2.3   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.087 | 3.013 | 2.4   | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.776 | 1.727 | 2.8   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.823 | 1.761 | 3.4   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.746 | 2.602 | 5.2   | 91    | 0.00     |

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX042018\  
Evaluate Continuing Calibration Report

Data File : VX001046.D  
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Operator : JC/MD  
Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 50 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Apr 23 01:00:19 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 20 05:03:28 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            | 0.437 | 0.451 | -3.2 | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.720 | 1.683 | 2.2  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.194 | 0.199 | -2.6 | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.444 | 1.366 | 5.4  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.653 | 0.564 | 13.6 | 86    | 0.00     |
| 95 T | Naphthalene                 | 3.550 | 3.547 | 0.1  | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.396 | 1.323 | 5.2  | 92    | 0.00     |

(#) = Out of Range

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