

Wintherm32v3 Version 3.31.143 Uni  
Instrument: F200s  
Instrument Program Version 290  
Instrument Serial Number: 2520

Sample Name: 2023\_12\_11-VAP4-1  
Thickness: 28.72mm  
Rear Left : 28.24 mm                      Rear Right : 28.57 mm  
Front Left: 28.88 mm                      Front Right: 29.18 mm  
[ ]  
[ ]  
Thickness obtained : from instrument

TEST RUN

Calibration used : User Type  
Calibration File Id: IRMMCalibration\_sn2520

Number of transducers per plate: 1  
Number of transducers used per plate: 1

Number of Setpoints: 3

Setpoint duration: 63 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.63	24.19	-12656	7428	0.8756
-ne-	14.98	24.96	-9007	6068	0.5635
-te-	15.00	25.01	-7981	6726	0.5482
-te-	15.00	25.01	-7598	7112	0.5483
-te-	15.01	25.01	-7397	7313	0.5483
-te-	15.01	25.02	-7290	7421	0.5482
-te-	15.01	25.01	-7234	7481	0.5484
-te-	15.01	25.02	-7205	7510	0.5484
-pe-	15.00	25.01	-7196	7519	0.5484
-pe-	15.00	25.01	-7177	7532	0.5481
-pe-	15.00	25.01	-7168	7539	0.5480
-pe-	15.01	25.02	-7167	7539	0.5480
-pe-	15.00	25.01	-7166	7539	0.5480
-pe-	15.00	25.01	-7165	7536	0.5479
-pe-	15.01	25.01	-7168	7540	0.5483

Setpoint No. 1  
Setpoint Upper: 15.00 °C  
Setpoint Lower: 25.00 °C  
Temperature Upper: 15.00 °C  
CalibFactor Upper: 0.026016  
Results Upper: 0.5350 W/mK  
Temperature Lower: 25.01 °C  
CalibFactor Lower: 0.025934  
Results Lower: 0.5610 W/mK  
Percent Difference: 4.74%

Thermal Equilibrium Criteria:  
Temperature Equilibrium: 0.20  
Between Block HFM Equil.: 49  
HFM Percent Change: 2.00  
Min Number of Blocks: 4  
Calculation Blocks: 3

Setpoint duration: 76 min

Block Averages for setpoint 2 in SI units

Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
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-ne-	10.16	20.07	-16436	-3720	0.7666
-te-	9.99	20.00	-11099	3290	0.5417
-te-	10.00	19.99	-9152	5251	0.5420
-te-	10.00	20.00	-8143	6287	0.5422
-te-	10.00	20.00	-7623	6823	0.5425
-te-	10.00	20.01	-7352	7098	0.5424
-te-	10.01	20.01	-7209	7243	0.5424
-te-	10.01	20.01	-7136	7312	0.5422
-te-	10.00	20.01	-7094	7349	0.5420
-pe-	10.00	20.00	-7075	7365	0.5419
-pe-	10.00	20.00	-7059	7381	0.5419
-pe-	10.00	20.00	-7048	7395	0.5420
-pe-	10.00	20.00	-7045	7400	0.5422
-pe-	10.00	20.00	-7046	7400	0.5423
-pe-	10.00	20.00	-7050	7401	0.5424
-pe-	10.00	20.00	-7045	7406	0.5423
-pe-	10.00	20.01	-7041	7409	0.5423
-pe-	10.00	20.01	-7038	7408	0.5421

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Setpoint No.2

Setpoint Upper:10.00°C
Setpoint Lower:20.00°C

Temperature Upper:10.00°C
CalibFactor Upper:0.026312
Results Upper:0.5320 W/mK
Temperature Lower:20.01°C
CalibFactor Lower:0.025969
Results Lower:0.5524 W/mK
Percent Difference:3.76%

Thermal Equilibrium Criteria:

Temperature Equilibrium:0.20
Between Block HFM Equil.:49
HFM Percent Change:2.00
Min Number of Blocks:4
Calculation Blocks:3

Setpoint duration: 72 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.24	15.08	-16257	-3669	0.7700
-te-	4.99	14.99	-10915	3203	0.5363
-te-	4.99	15.00	-8998	5144	0.5356
-te-	5.00	15.00	-8006	6166	0.5359
-te-	5.00	15.00	-7496	6692	0.5360
-te-	5.00	15.00	-7234	6962	0.5361
-te-	5.00	15.01	-7097	7105	0.5362
-te-	5.00	15.01	-7015	7187	0.5362
-te-	5.00	15.01	-6985	7215	0.5361
-pe-	4.99	15.00	-6969	7230	0.5360
-pe-	4.99	15.00	-6952	7249	0.5361
-pe-	5.00	15.00	-6944	7259	0.5361
-pe-	5.00	15.00	-6943	7263	0.5362
-pe-	5.00	15.00	-6940	7267	0.5363
-pe-	5.00	15.00	-6935	7275	0.5364
-pe-	5.00	15.00	-6935	7275	0.5364
-pe-	5.00	15.01	-6938	7272	0.5364

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Setpoint No.3

Setpoint Upper:5.00°C
Setpoint Lower:15.00°C

Temperature Upper:5.00°C
CalibFactor Upper:0.026610
Results Upper:0.5298 W/mK
Temperature Lower:15.00°C
CalibFactor Lower:0.026003
Results Lower:0.5430 W/mK

Percent Difference: 2.45%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20  
Between Block HFM Equil.: 49  
HFM Percent Change: 2.00  
Min Number of Blocks: 4  
Calculation Blocks: 3

Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.5350	0.5610	0.5480
15.01	0.5320	0.5524	0.5422
10.00	0.5298	0.5430	0.5364