

ZT Scan Report

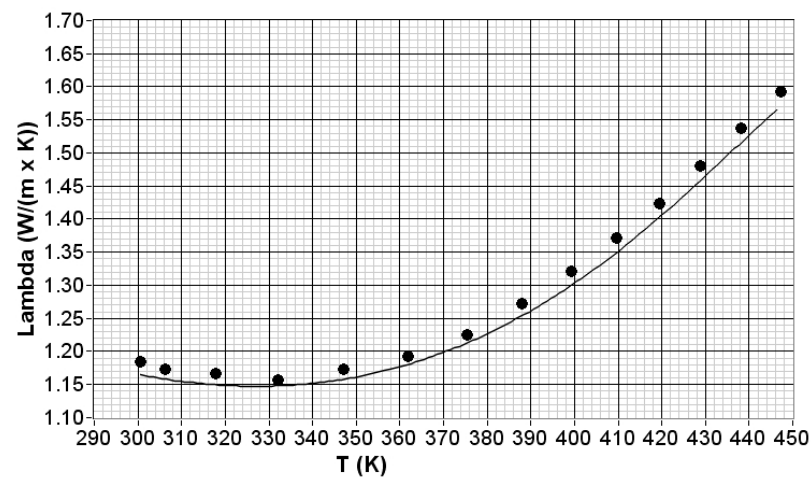
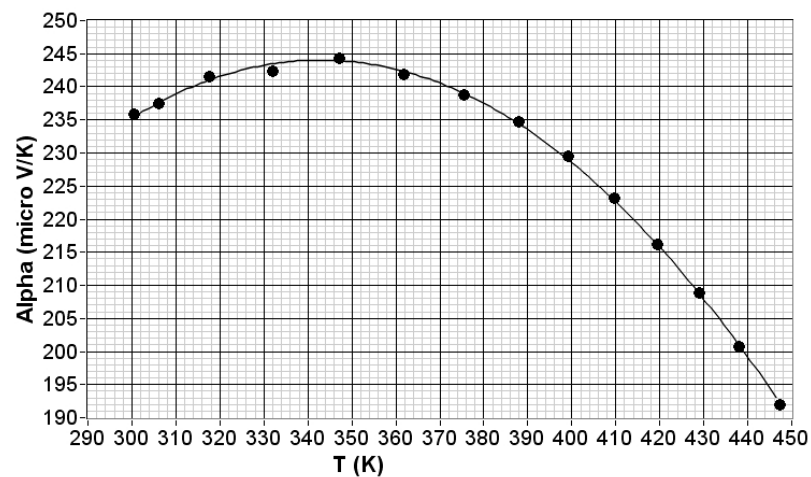
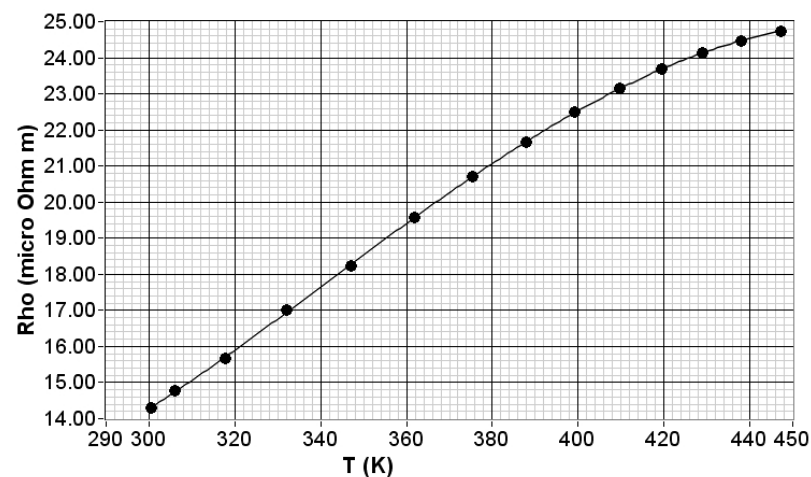
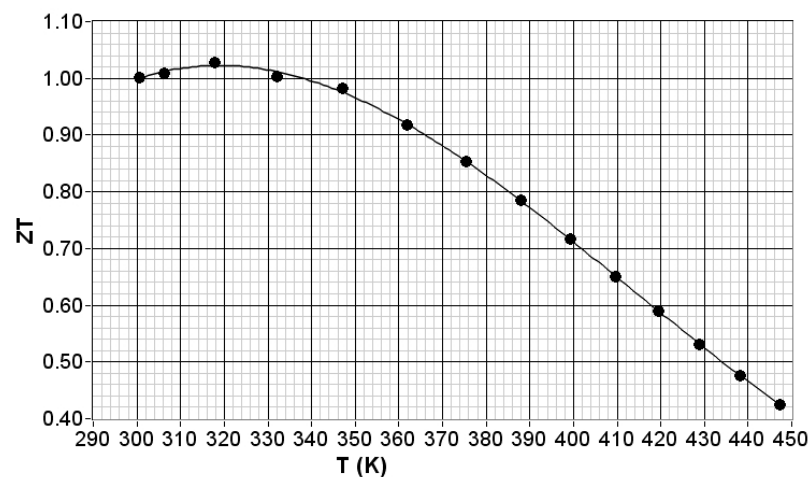
SAMPLE

Number: P1622.002
 Form: Rectangular
 a (mm): 4.920
 b (mm): 5.090
 Lenght (mm): 3.300

EXPERIMENTAL CONDITIONS

Sample Holder: HTS
 Current (mA): 100.0
 Duration (mm:ss): 20:00
 Stabilization time (mm:ss): 40:00

#	Target (K)	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)	Date	Hour
1	300 K	301	3.330	1.001	14.31	235.9	1.184	2014-01-22	17:17
2	310 K	306	3.295	1.009	14.78	237.5	1.173	2014-01-22	18:18
3	320 K	318	3.235	1.028	15.67	241.5	1.166	2014-01-22	19:18
4	330 K	332	3.023	1.004	17.00	242.4	1.156	2014-01-22	20:19
5	340 K	347	2.829	0.982	18.23	244.3	1.172	2014-01-22	21:19
6	350 K	362	2.536	0.918	19.58	241.9	1.192	2014-01-22	22:20
7	360 K	375	2.272	0.853	20.72	238.7	1.225	2014-01-22	23:20
8	370 K	388	2.023	0.785	21.67	234.7	1.272	2014-01-23	00:20
9	380 K	399	1.795	0.717	22.48	229.5	1.321	2014-01-23	01:21
10	390 K	410	1.589	0.651	23.15	223.1	1.371	2014-01-23	02:21
11	400 K	420	1.405	0.589	23.69	216.2	1.424	2014-01-23	03:22
12	410 K	429	1.239	0.531	24.13	208.9	1.481	2014-01-23	04:22
13	420 K	438	1.088	0.477	24.47	200.8	1.538	2014-01-23	05:23
14	430 K	447	0.951	0.425	24.74	191.9	1.593	2014-01-23	06:23

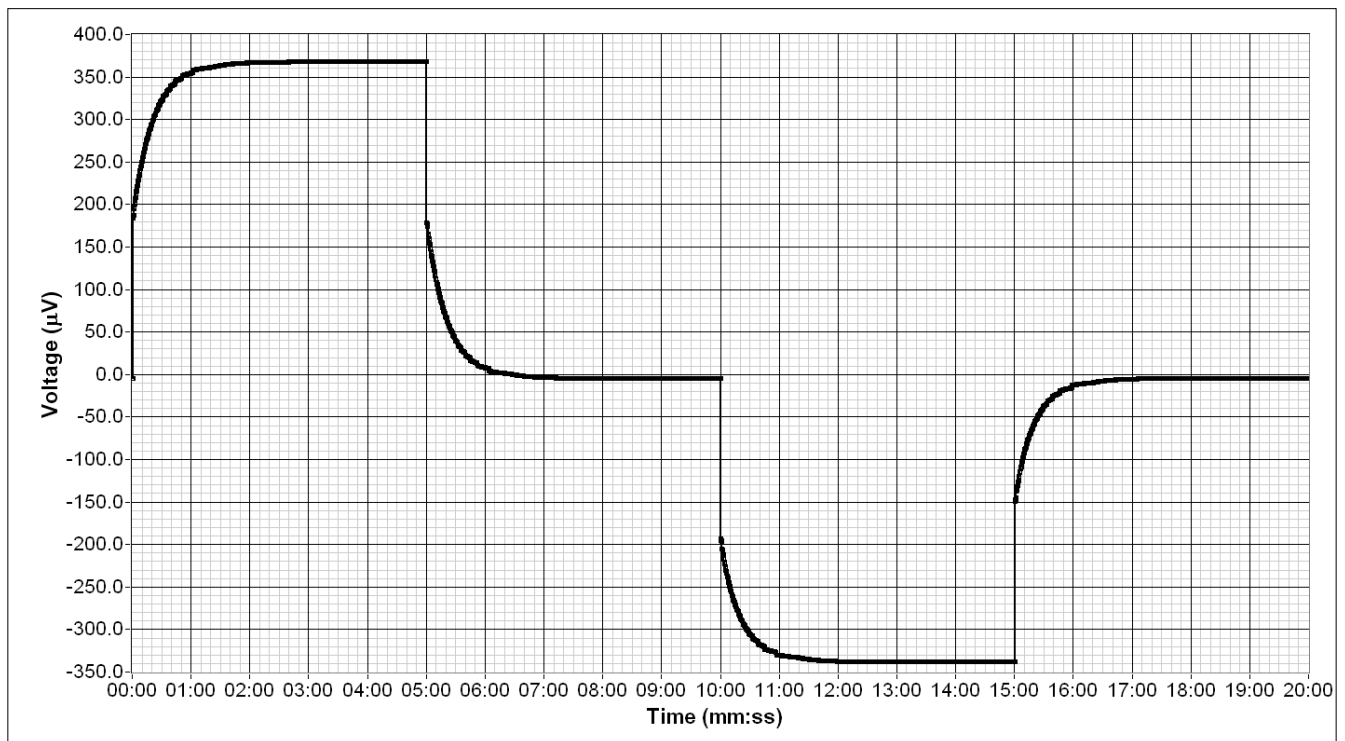


Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	300.6
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	300.94	3.738	1.125	14.29	237.4	1.055
2	300.80	3.693	1.111	14.36	235.6	1.046
3	300.33	2.941	0.883	14.29	235.2	1.316
4	300.22	2.948	0.885	14.29	235.5	1.317
Mean	300.57	3.330	1.001	14.31	235.9	1.184



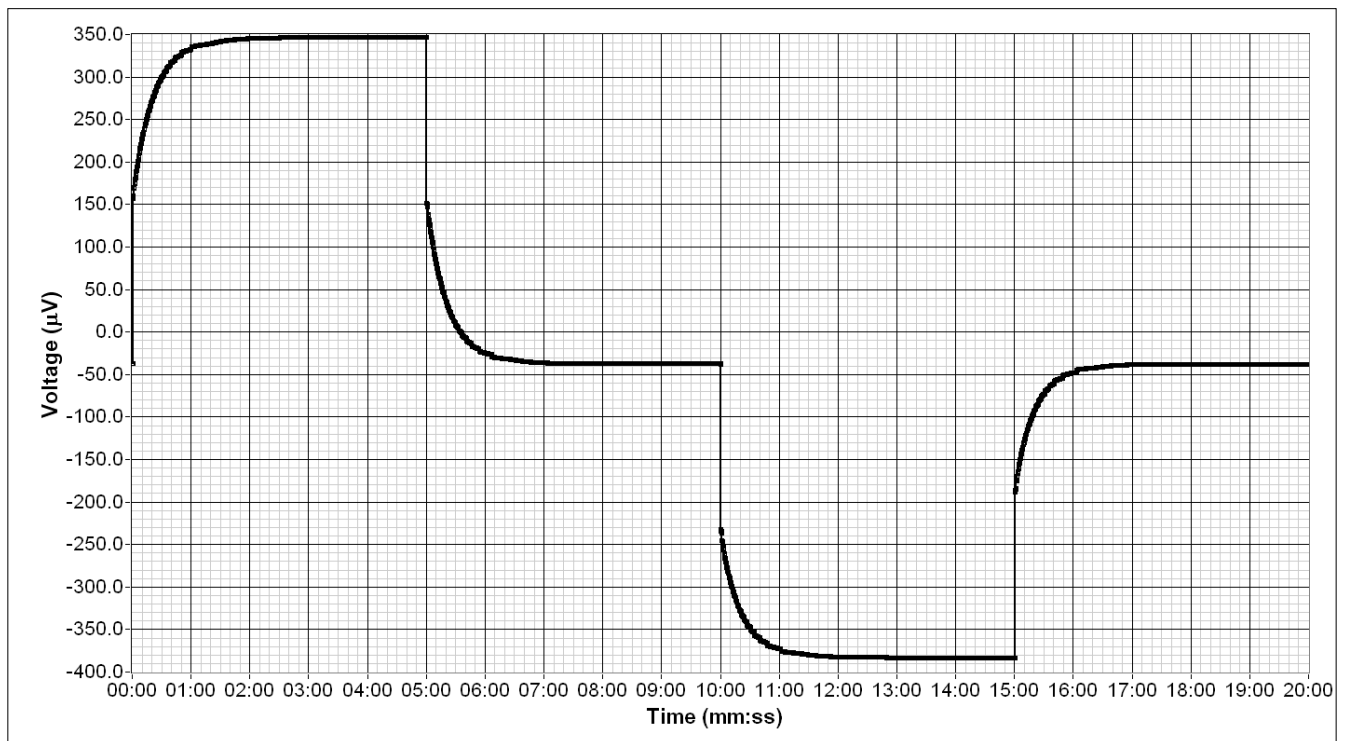
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	306.2
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	305.97	3.702	1.133	14.71	239.0	1.049
2	306.24	3.643	1.116	14.83	236.7	1.037
3	306.12	2.924	0.895	14.77	237.3	1.304
4	306.31	2.911	0.892	14.79	236.9	1.303
Mean	306.16	3.295	1.009	14.78	237.5	1.173



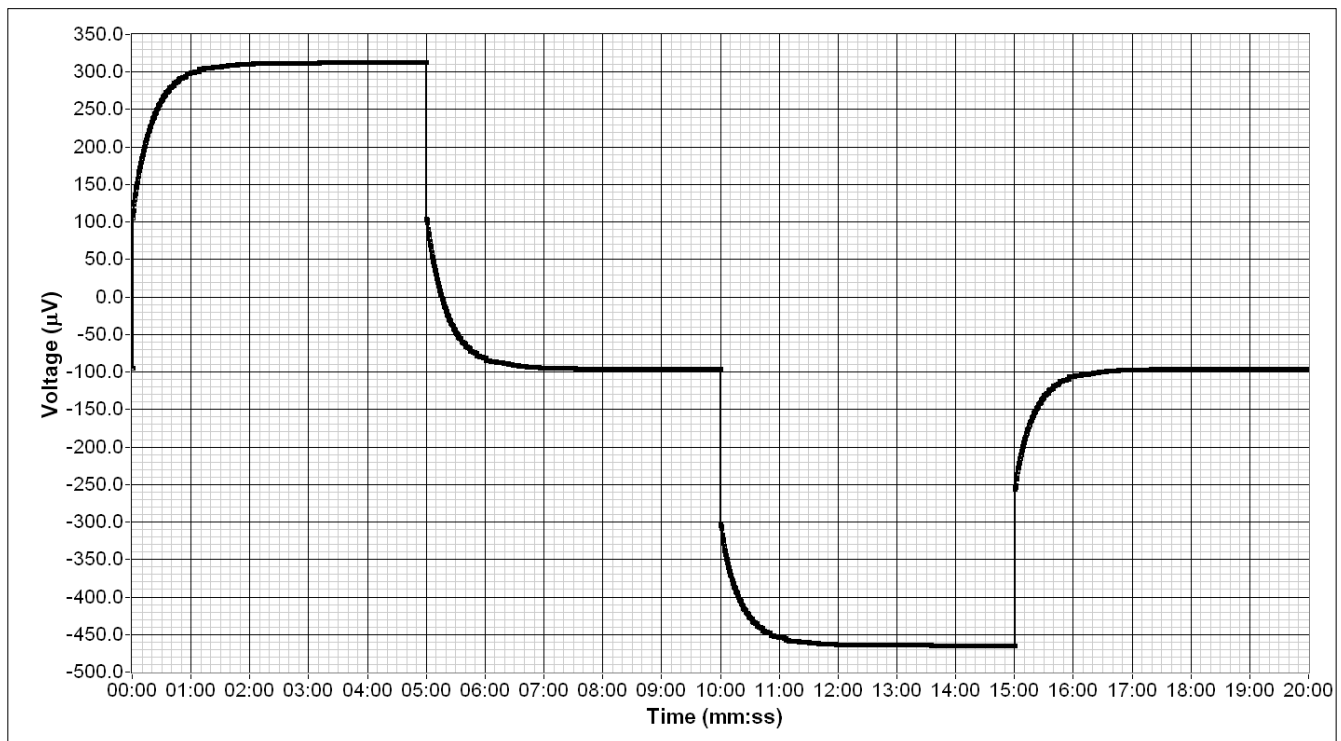
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	317.7
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	317.21	3.748	1.189	15.32	246.9	1.062
2	317.73	3.531	1.122	15.80	239.3	1.027
3	317.80	2.845	0.904	15.76	240.5	1.290
4	318.17	2.817	0.896	15.81	239.3	1.286
Mean	317.73	3.235	1.028	15.67	241.5	1.166



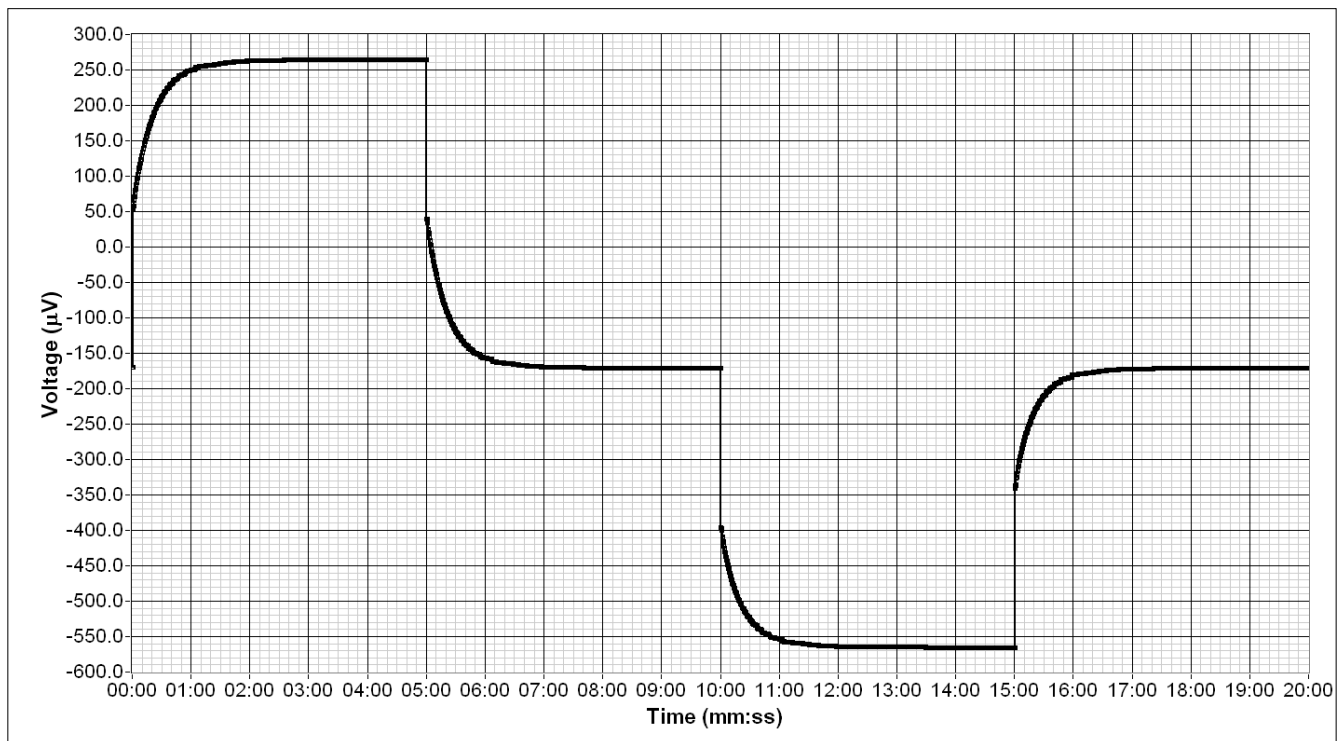
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	332.1
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	331.50	3.380	1.120	16.91	243.6	1.038
2	332.12	3.336	1.108	17.04	241.5	1.026
3	332.24	2.704	0.898	17.00	242.5	1.279
4	332.67	2.673	0.889	17.06	241.8	1.282
Mean	332.13	3.023	1.004	17.00	242.4	1.156



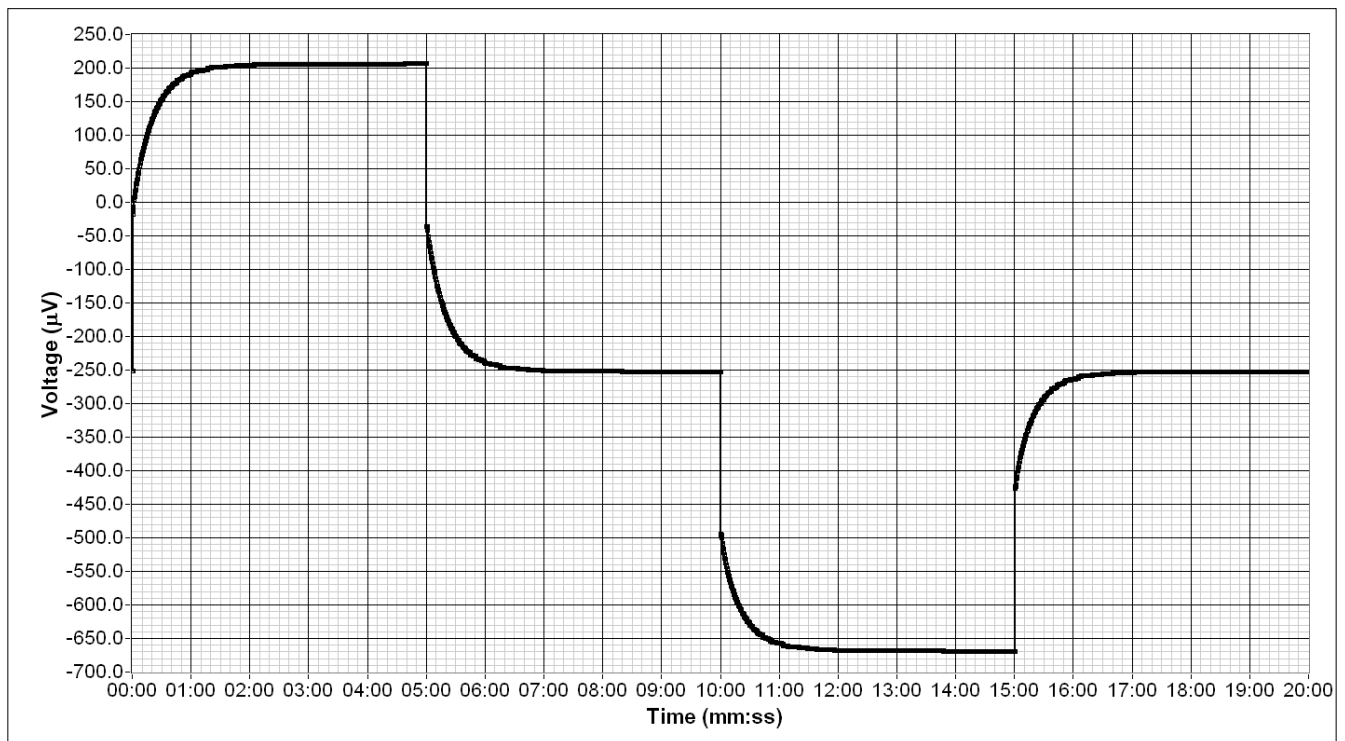
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	347.2
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	346.59	3.273	1.134	17.82	250.4	1.075
2	347.20	3.078	1.069	18.38	241.7	1.033
3	347.31	2.495	0.867	18.34	243.0	1.291
4	347.73	2.471	0.859	18.39	242.2	1.292
Mean	347.21	2.829	0.982	18.23	244.3	1.172



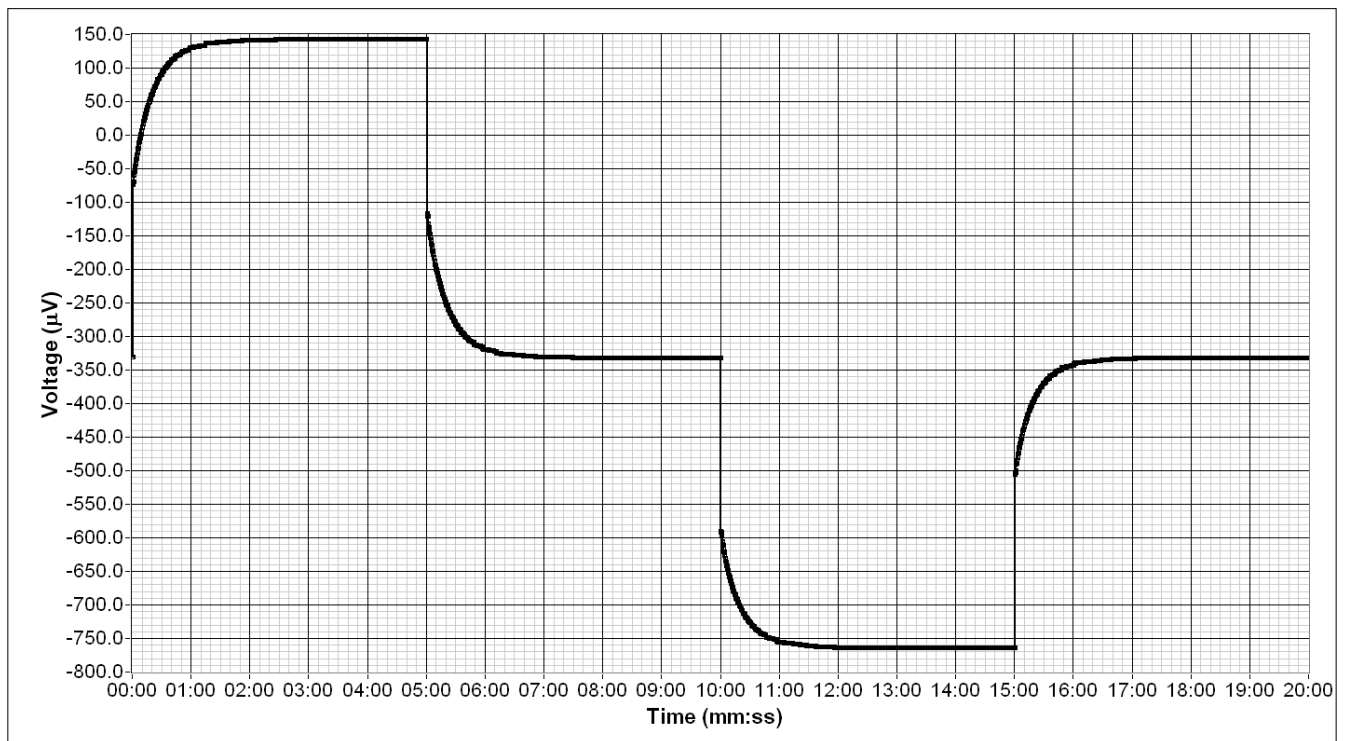
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	361.8
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	361.27	2.835	1.024	19.49	243.5	1.074
2	361.82	2.796	1.011	19.63	240.8	1.057
3	361.88	2.268	0.821	19.58	242.0	1.319
4	362.26	2.247	0.814	19.64	241.3	1.320
Mean	361.81	2.536	0.918	19.58	241.9	1.192



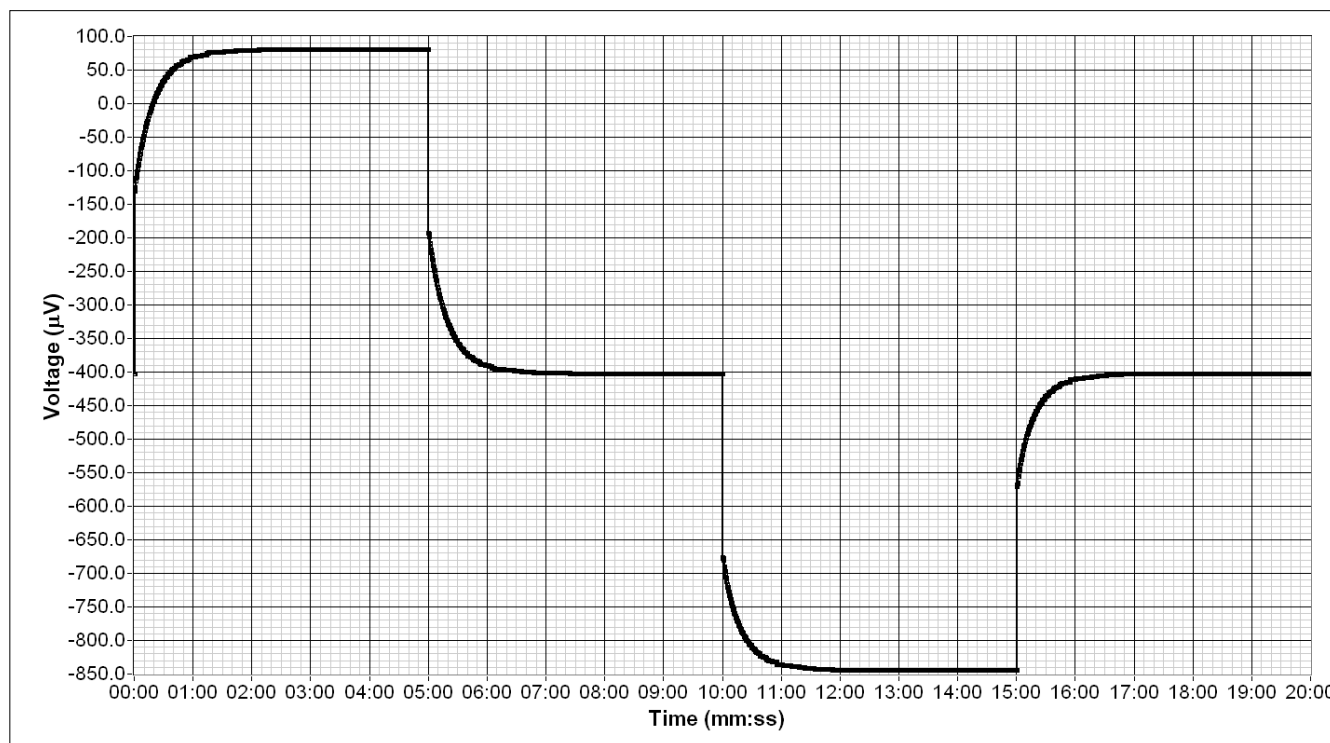
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	375.4
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	374.97	2.547	0.955	20.62	240.8	1.105
2	375.47	2.501	0.939	20.77	237.6	1.087
3	375.49	2.025	0.760	20.72	238.2	1.352
4	375.83	2.014	0.757	20.77	238.2	1.356
Mean	375.44	2.272	0.853	20.72	238.7	1.225



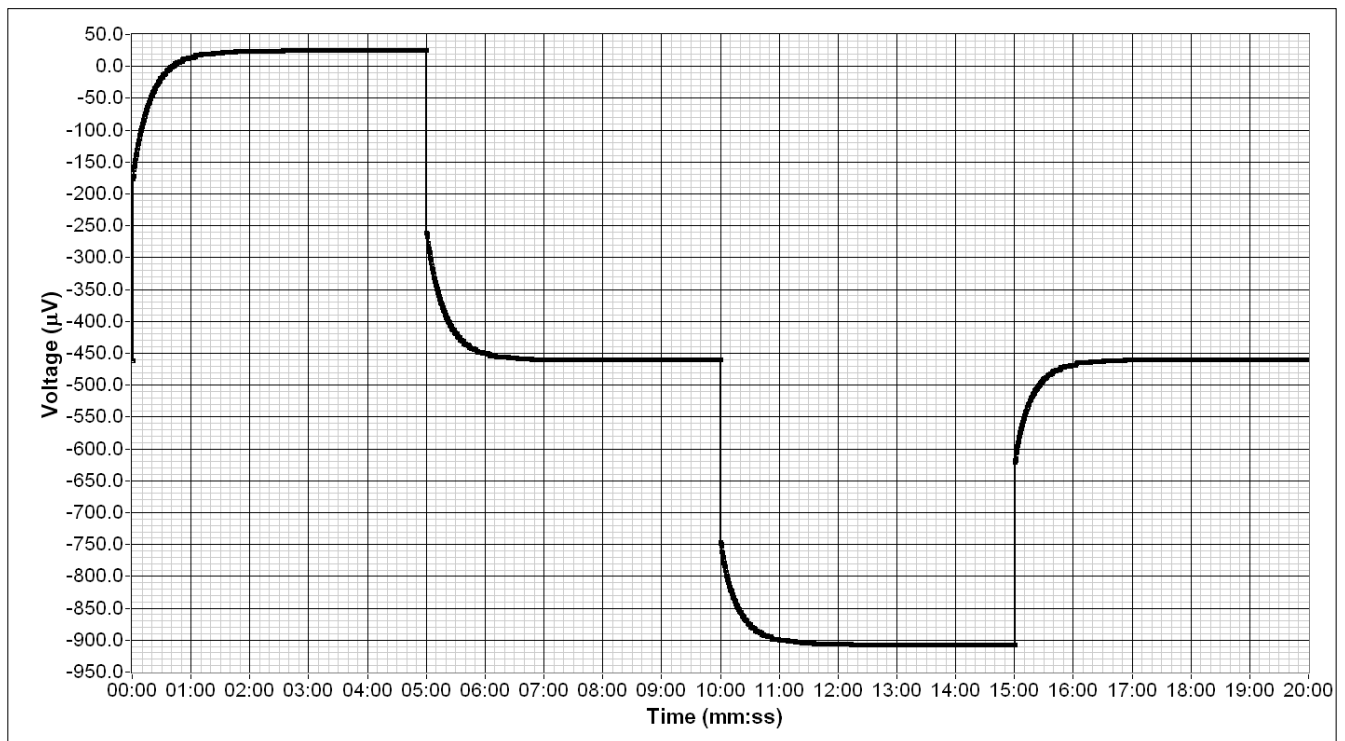
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	387.9
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	387.51	2.267	0.879	21.59	236.6	1.143
2	387.94	2.229	0.865	21.71	233.8	1.129
3	387.91	1.802	0.699	21.67	234.4	1.407
4	388.20	1.795	0.697	21.72	234.2	1.407
Mean	387.89	2.023	0.785	21.67	234.7	1.272



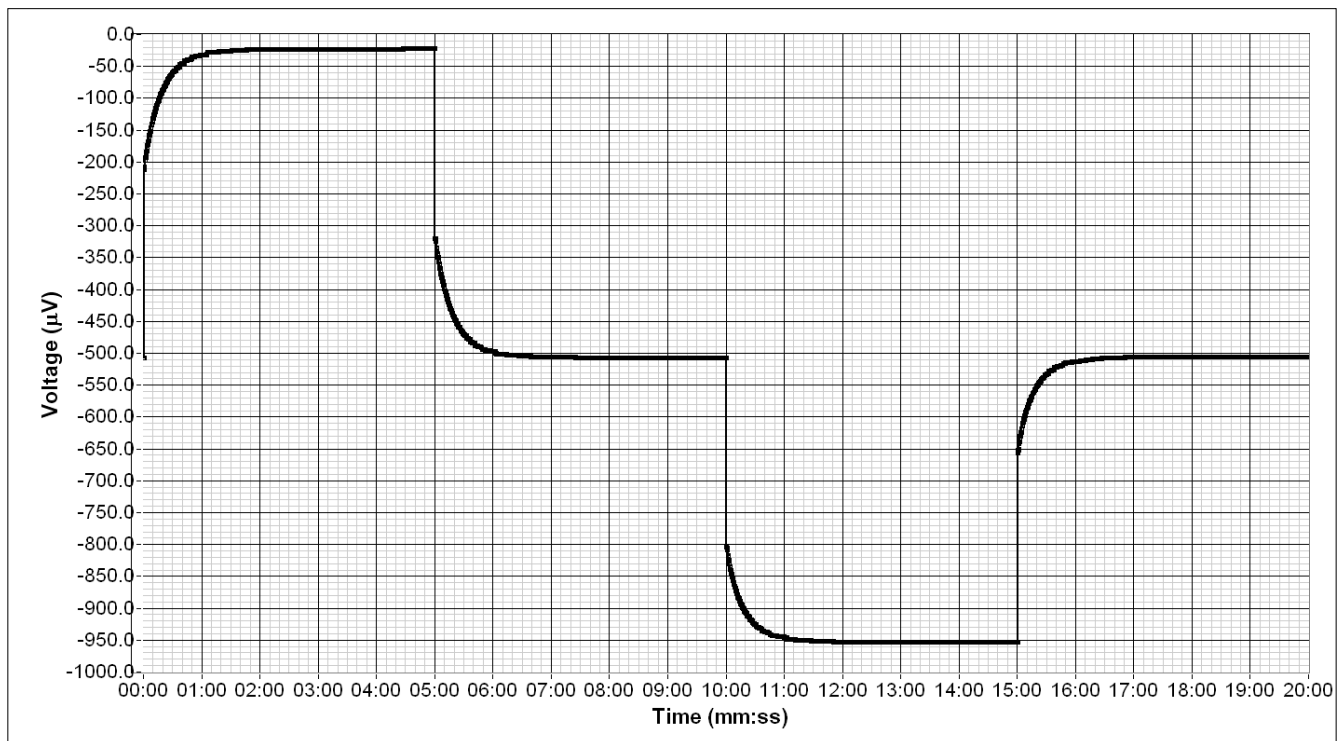
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	399.2
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	398.89	2.016	0.804	22.42	231.3	1.184
2	399.27	1.981	0.791	22.52	228.1	1.167
3	399.21	1.594	0.636	22.46	229.3	1.469
4	399.45	1.590	0.635	22.52	229.1	1.466
Mean	399.20	1.795	0.717	22.48	229.5	1.321



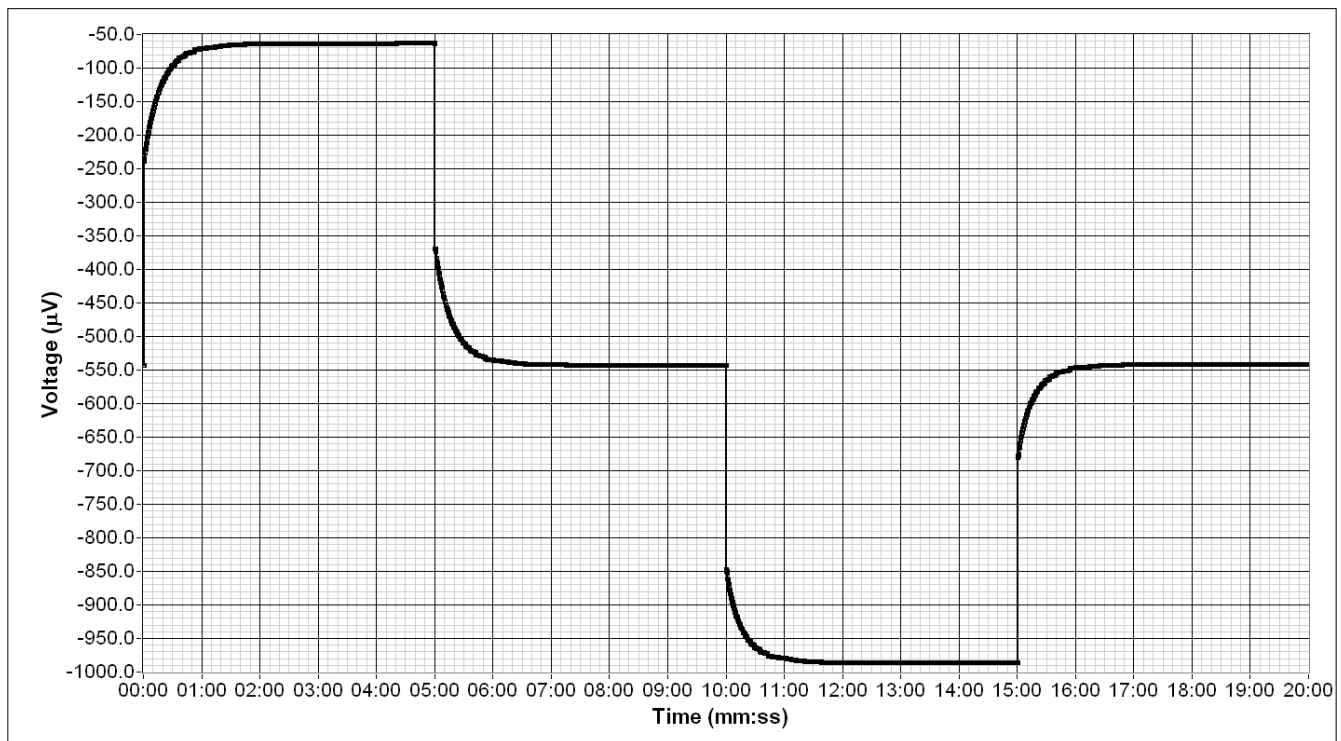
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	409.7
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	409.44	1.790	0.733	23.09	225.2	1.227
2	409.78	1.756	0.719	23.19	221.6	1.206
3	409.70	1.404	0.575	23.14	222.6	1.526
4	409.91	1.405	0.576	23.18	222.9	1.526
Mean	409.71	1.589	0.651	23.15	223.1	1.371



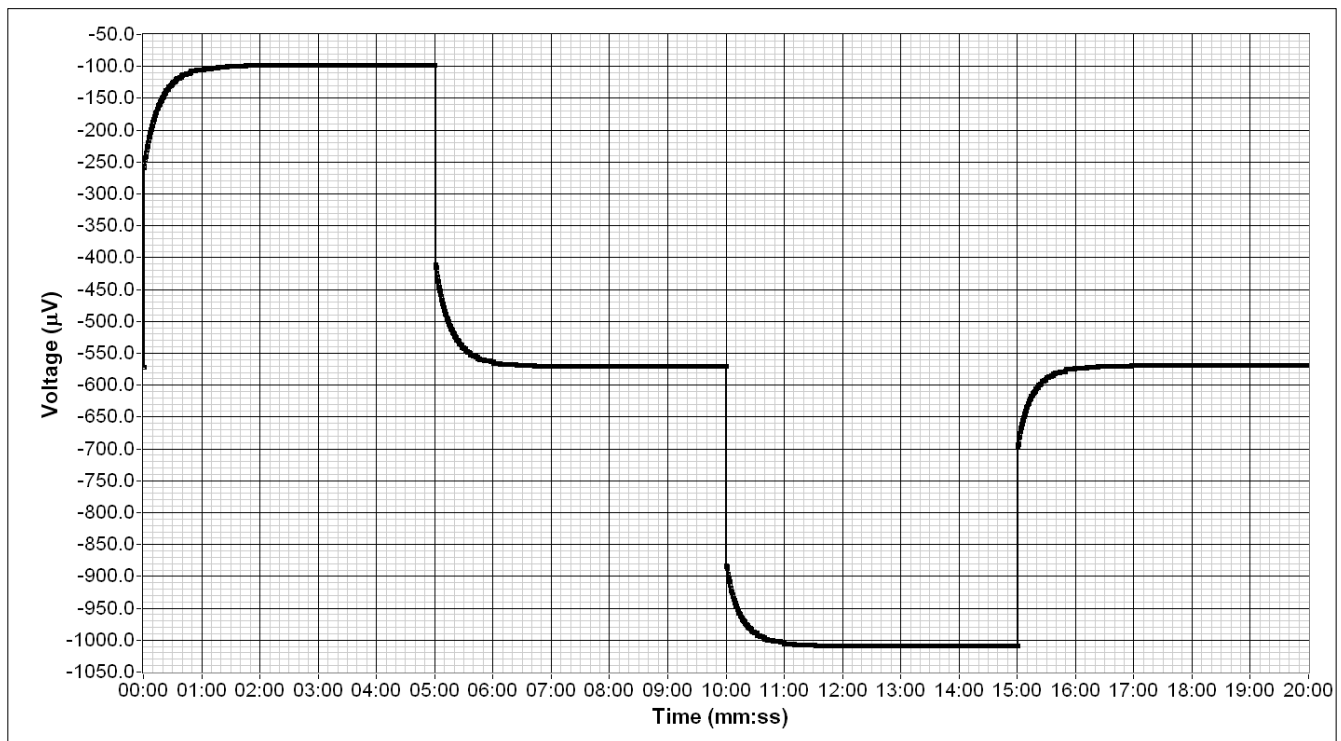
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	419.5
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	419.32	1.589	0.666	23.62	218.3	1.270
2	419.62	1.557	0.654	23.72	214.9	1.250
3	419.53	1.235	0.518	23.68	215.5	1.587
4	419.72	1.238	0.520	23.72	216.0	1.589
Mean	419.55	1.405	0.589	23.69	216.2	1.424



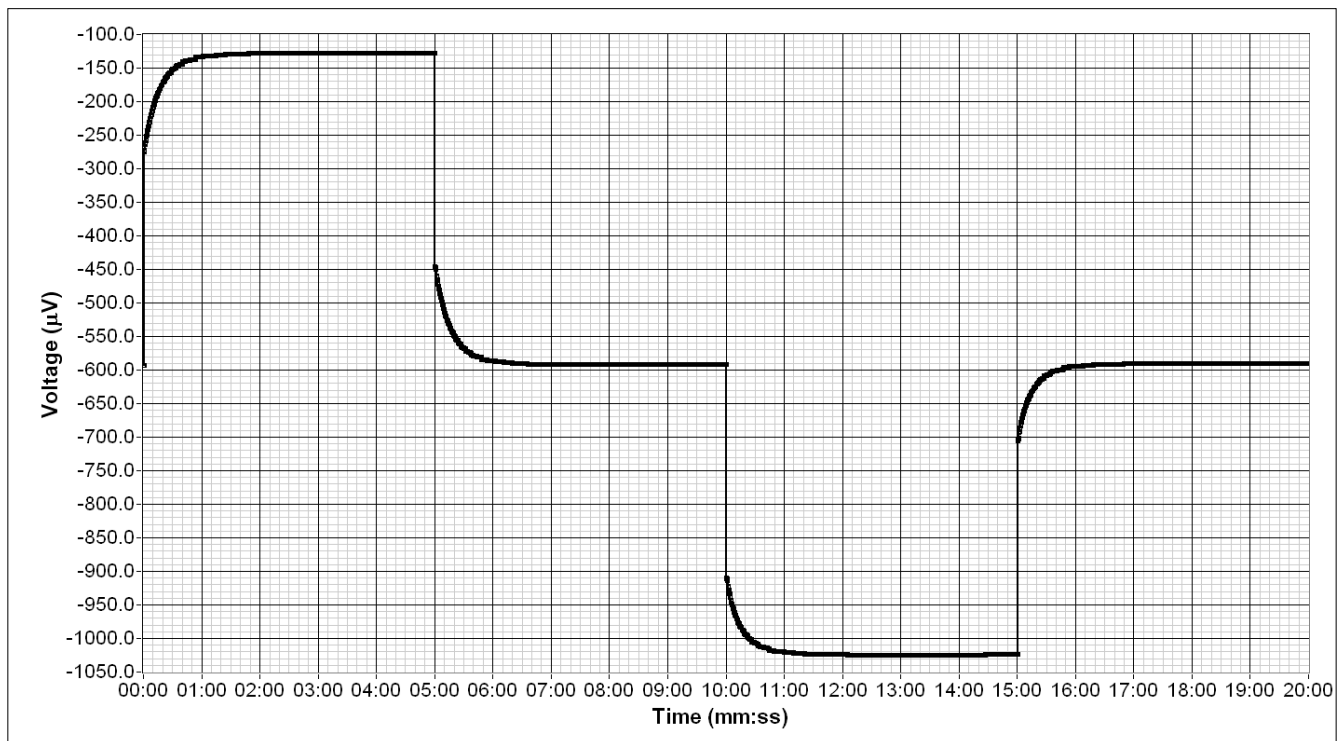
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	429.0
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	428.76	1.407	0.603	24.07	211.2	1.317
2	429.04	1.375	0.590	24.16	207.4	1.295
3	428.95	1.085	0.466	24.12	208.2	1.656
4	429.11	1.087	0.467	24.16	208.6	1.657
Mean	428.96	1.239	0.531	24.13	208.9	1.481



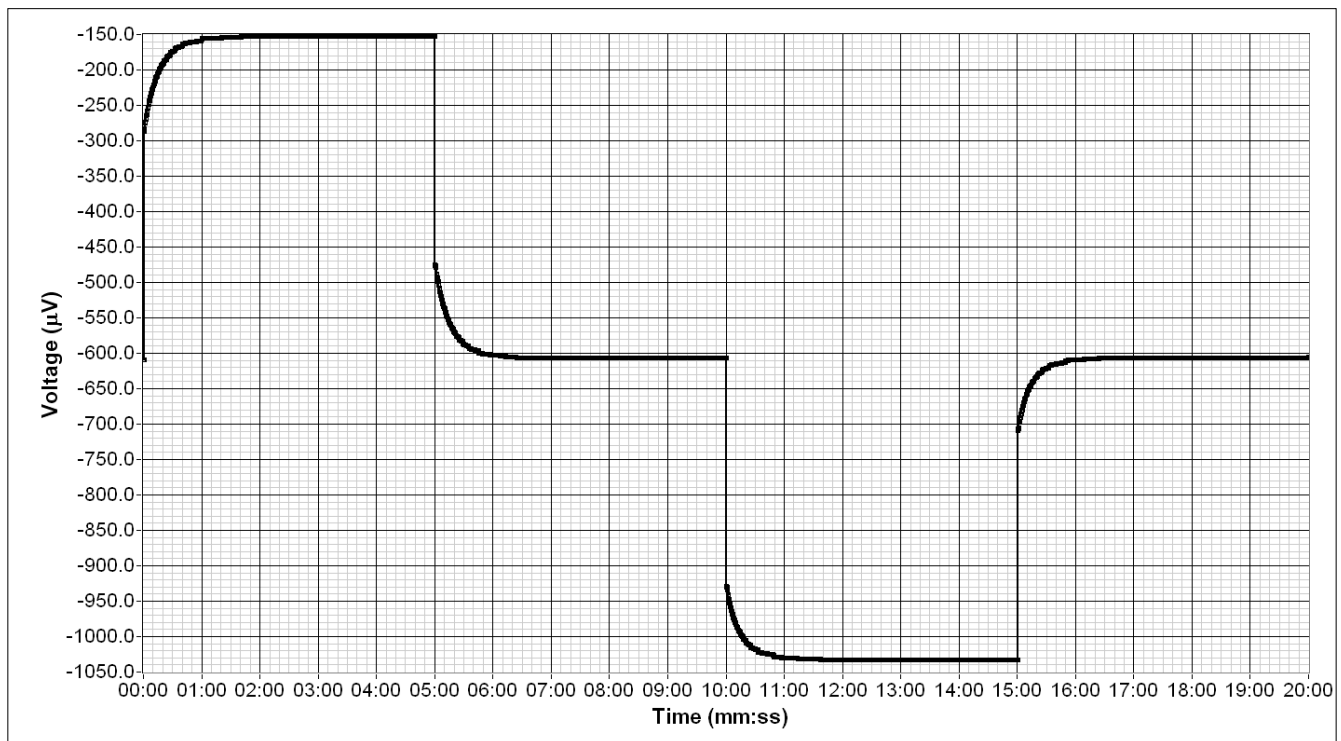
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	438.1
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	437.93	1.240	0.543	24.43	202.8	1.357
2	438.19	1.210	0.530	24.51	198.8	1.333
3	438.10	0.951	0.417	24.45	200.3	1.726
4	438.25	0.952	0.417	24.49	201.2	1.736
Mean	438.12	1.088	0.477	24.47	200.8	1.538



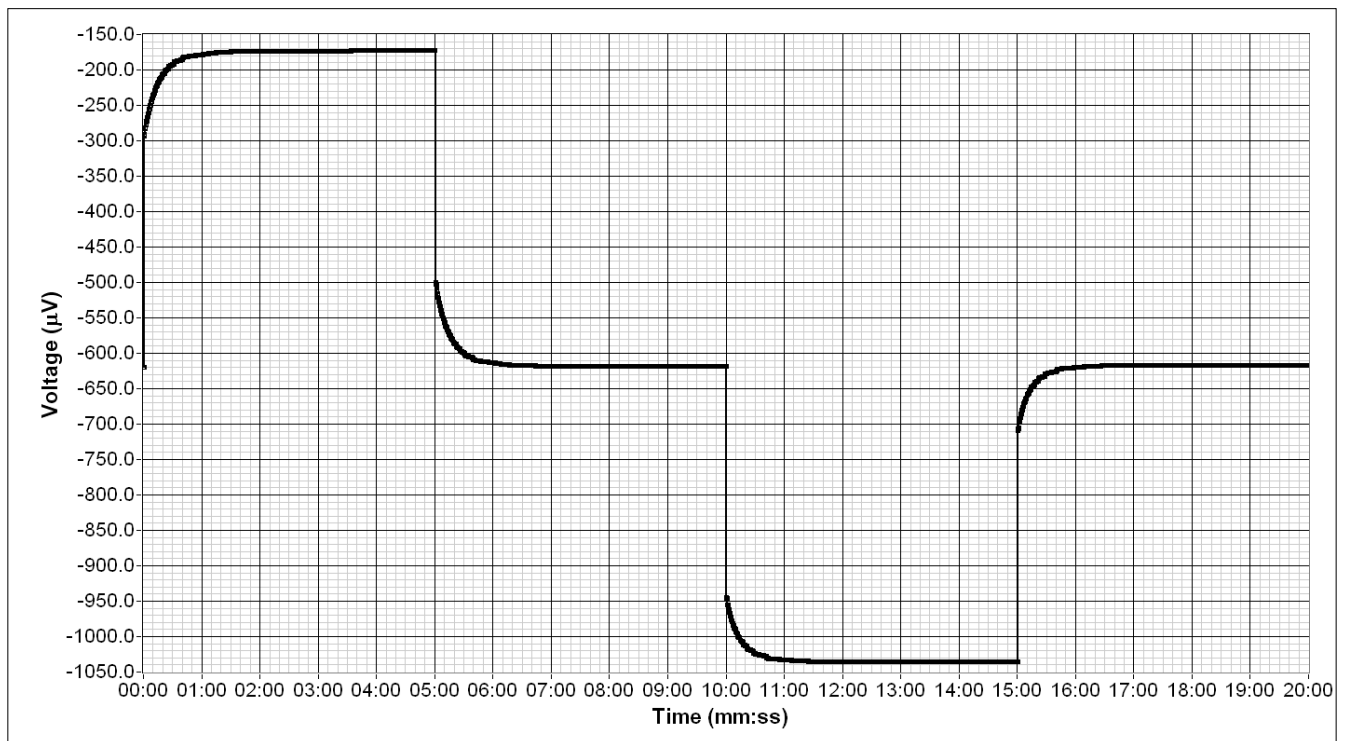
Note: Top of P1622.005, NDC

Z Test Report

SAMPLE	
Number:	P1622.002
Form:	Rectangular
a (mm):	4.920
b (mm):	5.090
Lenght (mm):	3.300

EXPERIMENTAL CONDITIONS	
Sample Holder:	HTS
T (K):	447.3
Current (mA):	100.0
Duration (mm:ss):	20:00

Step #	T (K)	Z (10^{-3} K^{-1})	ZT	ρ ($\mu\Omega\text{m}$)	α ($\mu\text{V K}^{-1}$)	λ ($\text{W m}^{-1} \text{ K}^{-1}$)
1	447.08	1.092	0.488	24.69	194.7	1.405
2	447.33	1.065	0.476	24.77	190.0	1.370
3	447.26	0.821	0.367	24.74	191.0	1.796
4	447.40	0.826	0.369	24.77	192.0	1.802
Mean	447.27	0.951	0.425	24.74	191.9	1.593



Note: Top of P1622.005, NDC