Thruster Report

Magnetic Field: **265 mT**
Anode Power: **765 W**
Anode Current: **10.0 A**
Propellant: **Argon 1.500 mg/s**

Thruster Details: Nagoya magnet, LaB6 cathode, 1 mm orifice, copper anode, 80 mm internal diameter.

Thrust	Thrust Eff.	ISP	Total DOF	Coverage Factor	Exp. Uncertainty	Std. Uncertainty
15.8 mN	10.8 %	1071.0 sec	21	2.08	3.2 mN	1.6 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.9 mN	0.9 mN	0.4 mN	0.4 mN	0.7 mN	0.0 mN
DOF	6	6	6	31	4	4

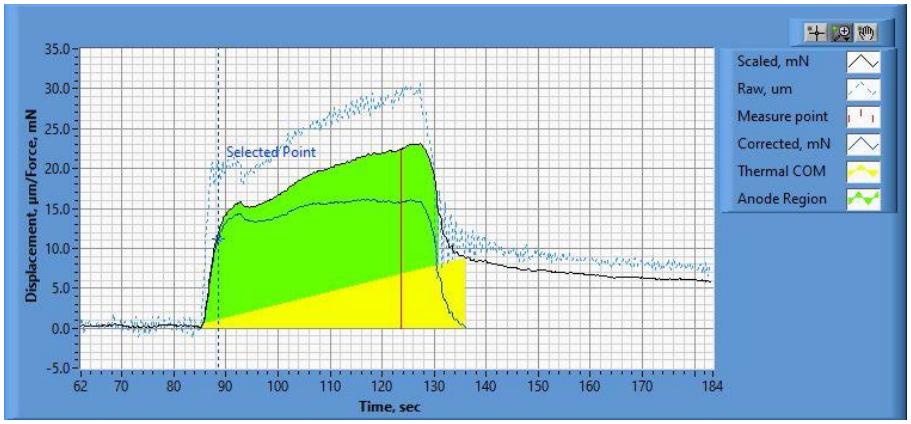

Figure 1. Thrust Plot

File Name: Philtech Data 2024.10.09_14.39.57.csv

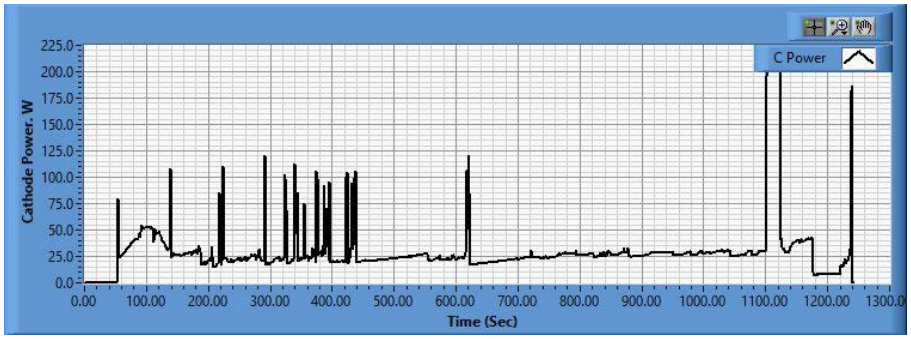

Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.10.09_14.21.46.csv

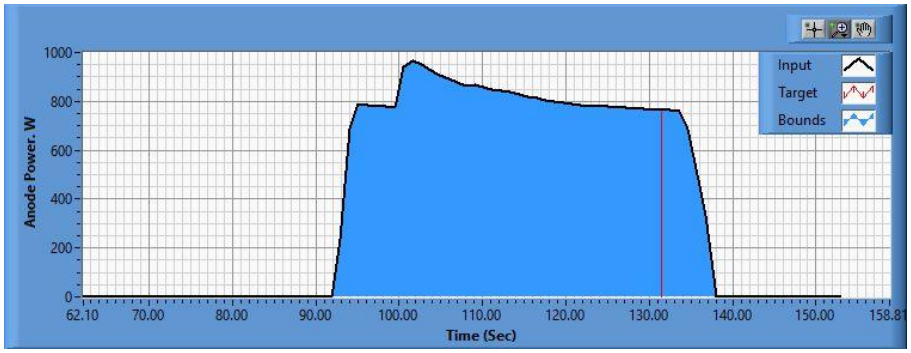

Figure 3. Anode Power Plot

File Name: PSU A Data 2024.10.09_14.39.49.csv

Pre-Cal. Information

File Name: Philtech Data 2024.10.09_14.39.57.csv

Start/Stop times (24 h): 14:45:37 14:49:24
Sensitivity: 1.54 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-7.161 mN	-0.020 mN/s	0.649	1.173 mN

Plateau values:

Weight 0	Weight 1	Weight 2	Weight 3	Weight 4	Weight 5	Weight 4	Weight 3	Weight 2	Weight 1	Weight 0
-0.5 mN	36.6 mN	74.1 mN	109.2 mN	145.8 mN	184.9 mN	145.3 mN	109.0 mN	73.9 mN	34.9 mN	0.7 mN

Post-Cal. Information

File Name: Philtech Data 2024.10.09_14.39.57.csv

Start/Stop times (24 h): 14:45:37 14:49:24
Sensitivity: 1.54 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-7.161 mN	-0.020 mN/s	0.649	1.173 mN

Plateau values:

Weight 0	Weight 1	Weight 2	Weight 3	Weight 4	Weight 5	Weight 4	Weight 3	Weight 2	Weight 1	Weight 0
-0.5 mN	36.6 mN	74.1 mN	109.2 mN	145.8 mN	184.9 mN	145.3 mN	109.0 mN	73.9 mN	34.9 mN	0.7 mN