Thruster Report

Magnetic Field: **199 mT**
Anode Power: **148 W**
Anode Current: **2.0 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
2.2 mN	1.1 %	149.7 sec	20	2.09	2.4 mN	1.1 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.6 mN	0.8 mN	0.3 mN	0.4 mN	0.3 mN	0.0 mN
DOF	6	6	6	31	4	4

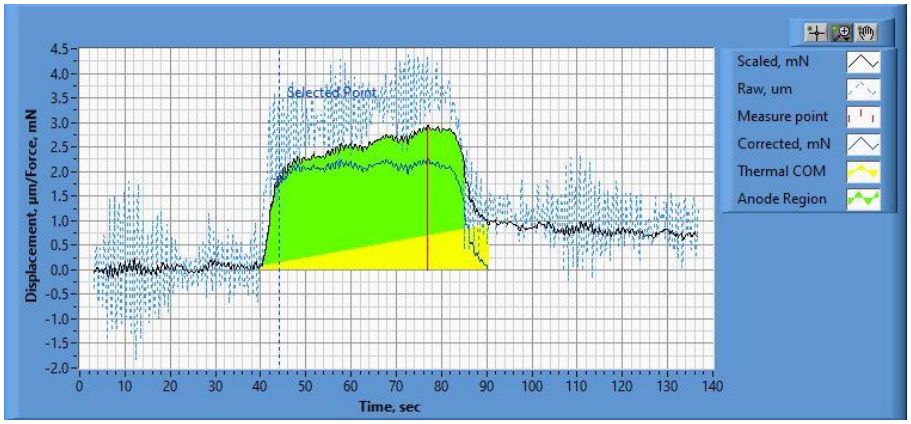

Figure 1. Thrust Plot

File Name: Philtech Data 2024.10.09_19.42.53.csv

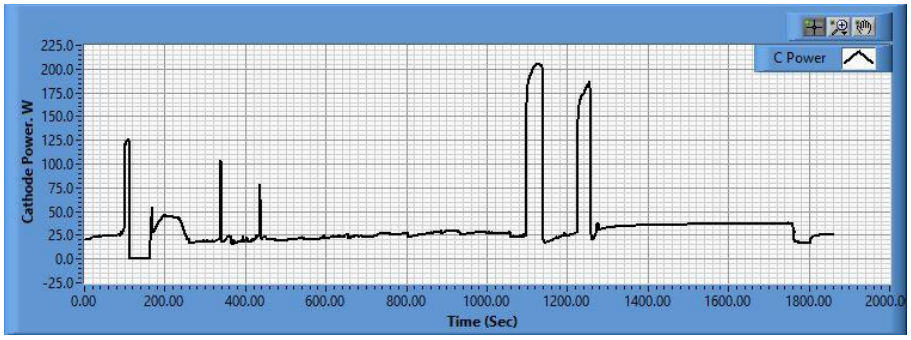

Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.10.09_19.14.13.csv

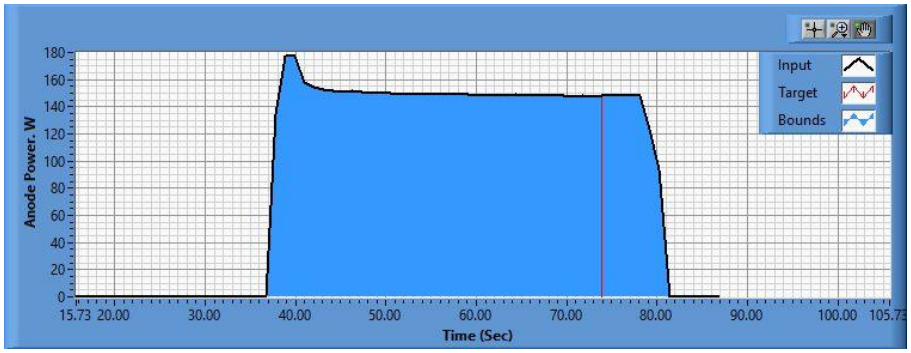

Figure 3. Anode Power Plot

File Name: PSU A Data 2024.10.09_19.42.56.csv

Pre-Cal. Information

File Name: CAlibration_with_magnet_and_Cathode_Philtech Data 2024.10.09_19.38.31.csv

Start/Stop times (24 h): 19:38:34 19:42:19
Sensitivity: 1.53 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
0.438 mN	-0.003 mN/s	0.654	0.814 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
-0.0 mN	37.6 mN	74.4 mN	110.5 mN	146.8 mN	184.9 mN	147.1 mN	110.9 mN	75.6 mN	36.4 mN	0.5 mN

Post-Cal. Information

File Name: CAlibration_with_magnet_and_Cathode_Philtech Data 2024.10.09_19.38.31.csv

Start/Stop times (24 h): 19:38:34 19:42:19
Sensitivity: 1.53 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
0.438 mN	-0.003 mN/s	0.654	0.814 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
-0.0 mN	37.6 mN	74.4 mN	110.5 mN	146.8 mN	184.9 mN	147.1 mN	110.9 mN	75.6 mN	36.4 mN	0.5 mN