Thruster Report

Magnetic Field: 199 mT Anode Power: 257 W Anode Current: 4.0 A

Propellant: Argon 1.999 mg/s

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

Thrust	Thrust Eff.	ISP	Total DOF	Coverage	Exp.	Std.
				Factor	Uncertainty	Uncertainty
4.6 mN	2.1 %	236.0 sec	14	2.11	2.8 mN	1.3 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	1.1 mN	0.5 mN	0.3 mN	0.3 mN	0.4 mN	0.3 mN
DOF	6	6	6	31	4	4

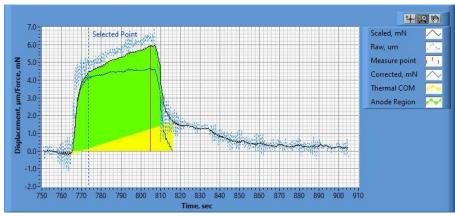


Figure 1. Thrust Plot

File Name: Philtech Data 2024.09.18_09.58.04.csv

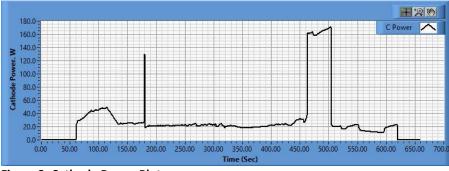


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.09.18_10.01.38.csv

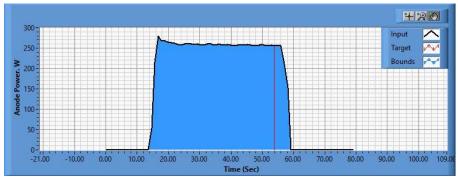


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.09.18_10.10.35.csv

Pre-Cal. Information

File Name: BaseLine_with_Magnet_Philtech Data 2024.09.18_09.28.52.csv

Start/Stop times (24 h): 09:29:04 09:32:49

Sensitivity: 1.29 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-0.836 mN	0.009 mN/s	0.777	1.150 mN

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.6 | 13.1 | 27.7 | 40.9 | 51.9 | 67.9 | 51.3 | 40.6 | 26.7 | 12.6 | -0.1 |
| mN |

Post-Cal. Information

File Name: Philtech Data 2024.09.18_09.58.04.csv

Start/Stop times (24 h): 10:15:06 10:18:50

Sensitivity: 1.29 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
1.585 mN	-0.000 mN/s	0.774	1.241 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 13.5 | 28.3 | 41.4 | 52.0 | 67.9 | 51.5 | 40.6 | 26.7 | 12.6 | 0.3 mN |
| mN | |

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