Thruster Report

Magnetic Field: 500 mT Anode Power: 1057 W Anode Current: 10.0 A

Propellant: Argon 1.499 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
20.9 mN	13.7 %	1418.5 sec	20	2.08	3.7 mN	1.8 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.8 mN	1.1 mN	0.3 mN	0.1 mN	0.8 mN	0.8 mN
DOF	6	6	6	31	4	4

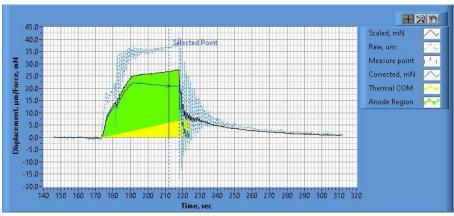


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.27_00.29.52.csv

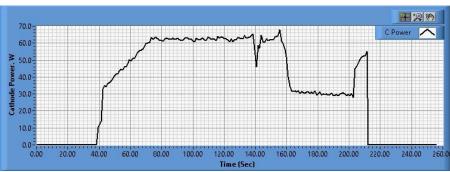


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.27_00.30.07.csv

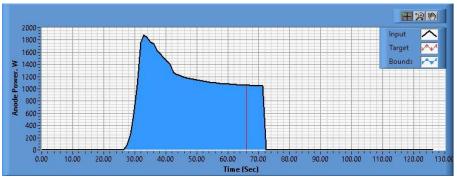


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.27_00.32.18.csv

Pre-Cal. Information

File Name: Magnet_NoFlow_Philtech Data 2024.11.26_19.26.09.csv

Start/Stop times (24 h): 19:26:17 19:30:02

Sensitivity: 1.65 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
0.065 mN	-0.019 mN/s	0.606	1.256 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.3 | 22.1 | 39.9 | 60.2 | 80.4 | 101.1 | 79.5 | 59.2 | 38.7 | 21.8 | 1.3 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.27_00.29.52.csv

Start/Stop times (24 h): 00:36:52 00:40:35

Sensitivity: 1.61 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-0.964 mN	0.004 mN/s	0.622	1.237 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.3 | 21.3 | 39.2 | 59.9 | 80.2 | 100.9 | 78.6 | 58.9 | 37.9 | 21.3 | 0.3 mN |
| mN | |

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