Thruster Report

Magnetic Field: 133 mT Anode Power: 676 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.

Ī	Thrust	Thrust Eff.	ISP	Total DOF	Coverage	Exp.	Std.
					Factor	Uncertainty	Uncertainty
ĺ	8.2 mN	3.3 %	559.0 sec	21	2.08	2.2 mN	1.1 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.6 mN	0.6 mN	0.2 mN	0.3 mN	0.5 mN	0.1 mN
DOF	6	6	6	31	4	4

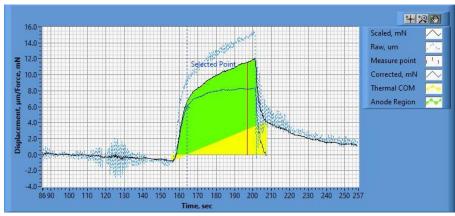


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.29_02.25.30.csv

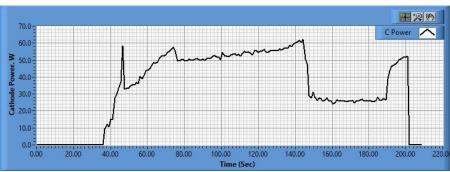


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.29_02.25.41.csv

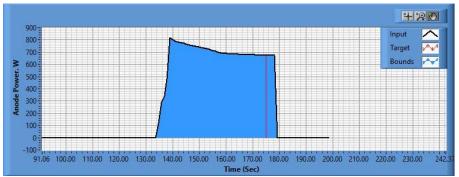


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.29_02.25.52.csv

Pre-Cal. Information

File Name: Magnet_NoFlow_Philtech Data 2024.11.29_02.16.29.csv

Start/Stop times (24 h): 02:16:35 02:20:20

Sensitivity: 1.51 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
-0.355 mN	-0.006 mN/s	0.662	1.086 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 21.2 | 39.5 | 59.4 | 79.5 | 100.9 | 79.0 | 59.2 | 38.7 | 20.8 | 0.9 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.29_02.25.30.csv

Start/Stop times (24 h): 02:32:01 02:35:53

Sensitivity: 1.51 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-0.714 mN	-0.004 mN/s	0.664	1.031 mN	

Plateau values:

Ī	Weight										
	0	1	2	3	4	5	4	3	2	1	0
	-0.1	20.6	39.3	59.2	79.2	100.8	78.8	58.9	37.9	20.3	0.1 mN
	mN										

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