Thruster Report

Magnetic Field: 133 mT Anode Power: 251 W Anode Current: 4.0 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	
2.9 mN	1.1 %	198.1 sec	27	2.07	2.5 mN	1.2 mN	

Thrust-Stand Uncertainty Components

	Scale	Hysteresis Repeatabi		Noise	Offset	Drift	
Value 0.6 mN		0.6 mN	0.2 mN	0.5 mN	0.6 mN	0.2 mN	
DOF	6	6	6	31	4	4	

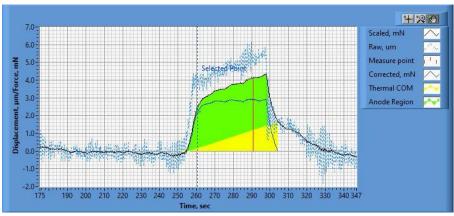


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.29_12.08.34.csv

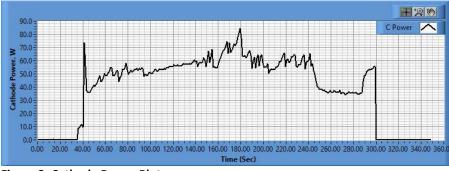


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.29_12.08.43.csv

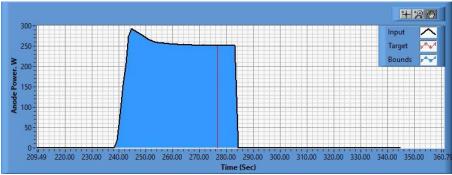


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.29_12.08.48.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_12.08.34.csv

Start/Stop times (24 h): 12:17:08 12:20:51

Sensitivity: 1.49 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
0.653 mN	-0.000 mN/s	0.671	1.065 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 21.2 | 39.4 | 59.8 | 79.9 | 101.0 | 78.9 | 59.3 | 38.2 | 20.7 | 0.7 mN |
| mN | |

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