Thruster Report

Magnetic Field: 750 mT Anode Power: 1312 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
ſ	27.5 mN	19.3 %	1871.2 sec	30	2.07	2.7 mN	1.3 mN

Thrust-Stand Uncertainty Components

	Scale Hys Value 0.5 mN 0.		Repeatability	peatability Noise		Drift	
Value			0.2 mN	0.7 mN	0.6 mN	0.1 mN	
DOF	6	6	6	31	4	4	

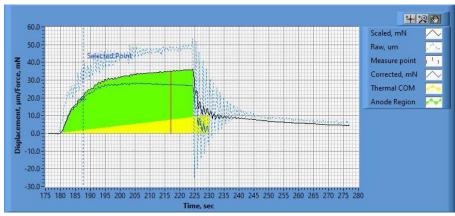


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.22_21.54.12.csv

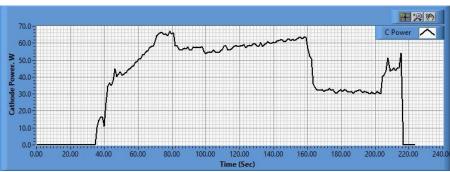


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.22_21.54.32.csv

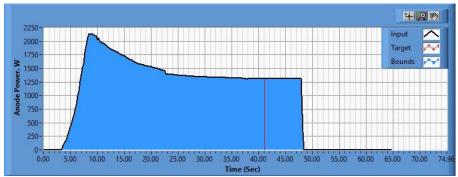


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.22_21.57.08.csv

Pre-Cal. Information

File Name: Magnet_Flow_1_5_Philtech Data 2024.11.22_15.22.48.csv

Start/Stop times (24 h): 15:22:54 15:26:39

Sensitivity: 1.61 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
0.250 mN	0.000 mN/s	0.621	0.968 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.3 | 20.7 | 39.0 | 59.4 | 80.6 | 100.9 | 80.1 | 59.0 | 38.7 | 20.6 | 1.1 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.22_21.54.12.csv

Start/Stop times (24 h): 22:01:14 22:04:58

Sensitivity: 1.64 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-2.277 mN	-0.003 mN/s	0.611	1.062 mN

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.1 | 20.2 | 38.0 | 59.5 | 80.0 | 101.0 | 79.5 | 58.7 | 37.6 | 20.2 | 0.1 mN |
| mN | |

25/11/2024 10:46 am

Created by: websteem

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