Thruster Report

Magnetic Field: 1000 mT Anode Power: 238 W Anode Current: 2.0 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 Factor	Exp. Uncertainty	Std. Uncertainty	
				Factor	Unicertainty	Unicertainty	
5.7 mN	4.5 %	385.8 sec	18	2.09	4.2 mN	2.0 mN	

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.9 mN	1.1 mN	0.3 mN	0.2 mN	0.6 mN	1.2 mN
DOF	6	6	6	31	4	4

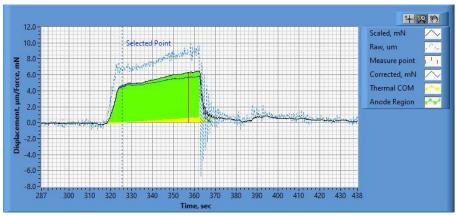


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.12_10.54.24.csv

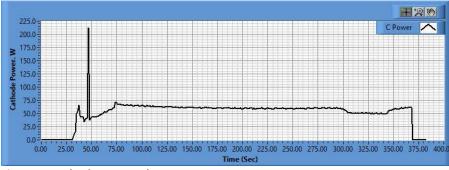


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.12_10.54.43.csv

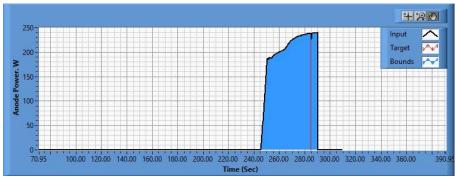


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.12_10.55.36.csv

Pre-Cal. Information

File Name: MagnetOn_Flow15_Philtech Data 2024.11.08_13.55.45.csv

Start/Stop times (24 h): 13:55:51 13:59:37

Sensitivity: 1.63 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
0.431 mN	-0.001 mN/s	0.613	1.245 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -1.1 | 20.7 | 38.6 | 59.6 | 79.9 | 100.8 | 78.2 | 58.5 | 37.1 | 20.2 | 0.2 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.12_10.54.24.csv

Start/Stop times (24 h): 11:04:07 11:07:52

Sensitivity: 1.70 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-0.048 mN	-0.037 mN/s	0.588	1.370 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.4 | 21.3 | 37.4 | 60.1 | 80.9 | 101.1 | 79.6 | 59.1 | 37.4 | 21.1 | 0.2 mN |
| mN | |

21/11/2024 8:46 am

Created by: websteem

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