

**ITM06 Transmission**

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Author(S)	Liyuan Zhang, GariLynn Billingsley		
Approval(s)			
Specification Doc.	LIGO-E0900041	Specification	0.013-0.015
Procedure Doc.	LIGO-E1000863	Mean \pm Error*	0.0148 \pm 0.0003
Conclusion	Qualified.		

*Error is the calibration error, which is ~2%.

Discussions and Comments:

The scan was done over central 160 mm in diameter with the beam and step sizes of 1 mm while keeping the arrow on barrel at Y+ direction, as shown in Fig.1. The calibration is done by normalizing the transmitted signal to the signal without mirror and the variation of laser power is monitored and corrected.

ITM06 Transmission

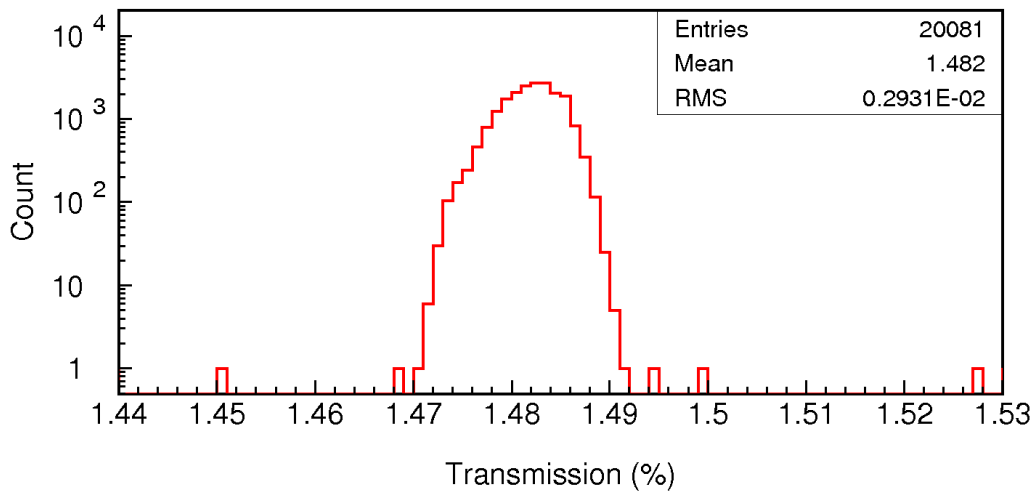
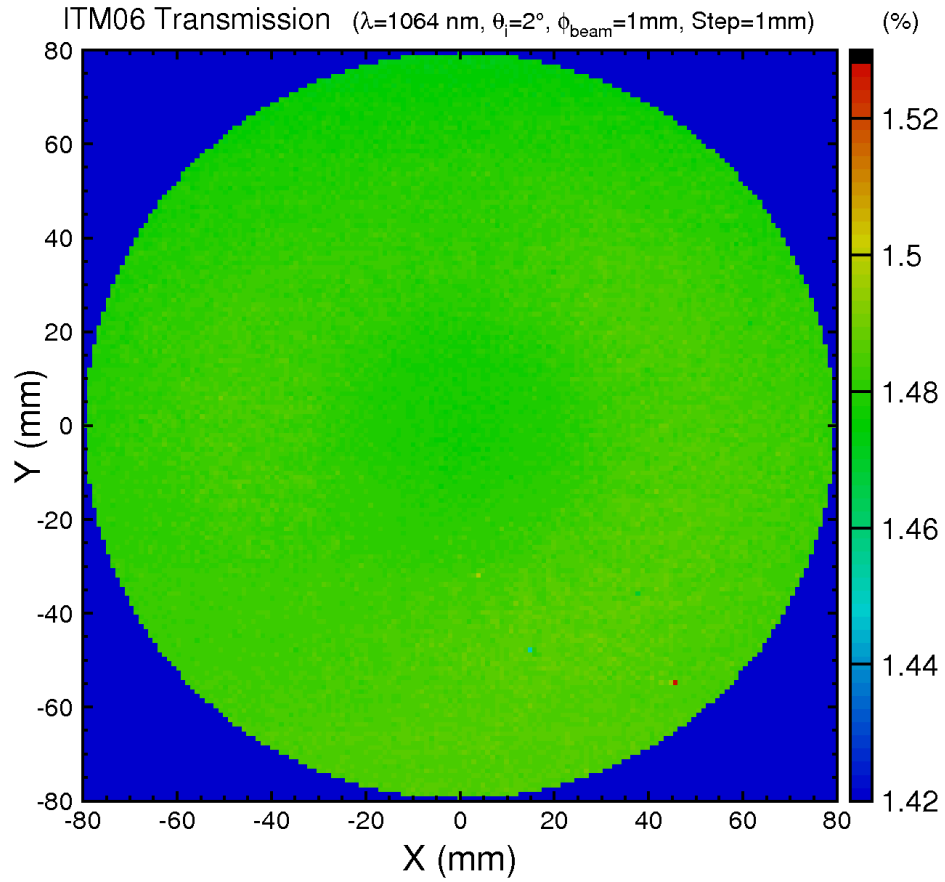


Fig. 1 ITM06 transmission over a 160 mm diameter aperture.