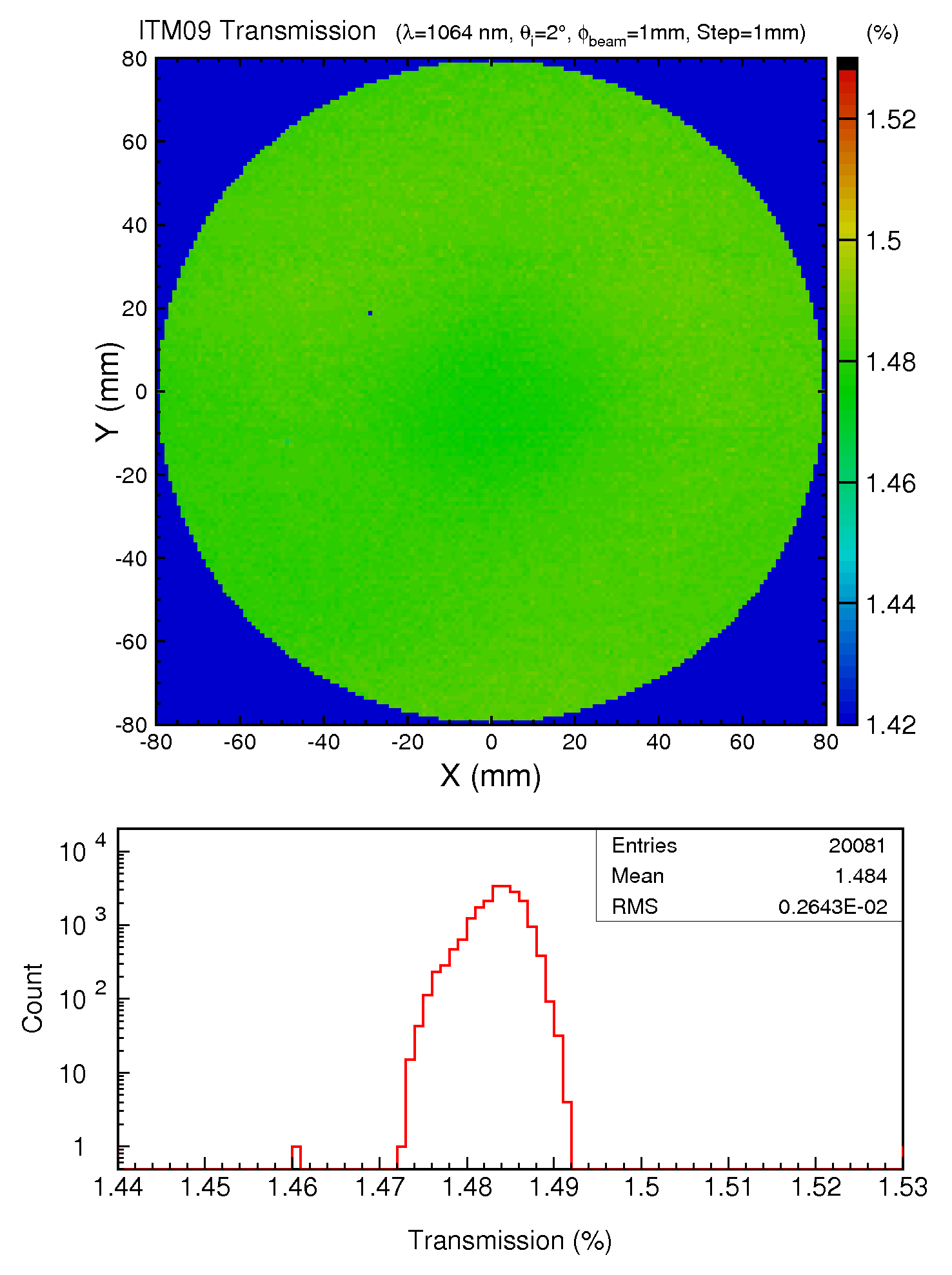
|  |  |  |  |
| --- | --- | --- | --- |
| **Test Date** | Feb 27- Mar 2, 2015 | | |
| **Author(S)** | Liyuan Zhang, GariLynn Billingsley | | |
| **Approval(s)** |  | | |
| **Specification Doc.** | LIGO-E0900041 | Specification | 0.013-0.015 |
| **Procedure Doc.** | LIGO-E1000863 | Mean ± Error\* | 0.0148 ± 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.**

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**Fig. 1 ITM09 transmission over a 160 mm diameter aperture.**