

REPORT
VER.0

Test Procedure of KAGRA photon calibrator

Author:

Y. INOUE, Y. Chu, S. Haino, B. Hsieh, N. Kanda, T. Shishido,
T. Tomaru, T. Yamamoto, and T. Yokozawa
on the behalf of Calibration sub-group

KAGRA
Calibration subsystem

December 28, 2017



Chapter 1

Test Procedure

1.1 Introduction

1.2 Electronics test

1.3 Optical test

1.3.1 Mode matching and beam quality

1.4 Transfer function measurement

1.5 Noise measurement

1.5.1 Relative power noise

1.5.2 Harmonics noise

1.6 Injection test

1.7 Summary

Chapter 2

Result

2.1 Run1 (20170109-2017012; KEK)

2.1.1 Member

Yuki, Cory, Bin-Hua, Takaaki, Takahiro

2.1.2 Log: 0109

2.2 Run2 (201702; Toyama)

2.3 Run3 (201703; KAGRA Y-end)