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6.55 Table benchmark and simulation test of EAST MIR system

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Microwave imaging reflectometry (MIR) system for EAST tokamak has been constructed with 96 channels (12 poloidal x 8 radial). The illumination beam of MIR has eight independent frequencies which can be flexibly adjusted in W band (75 - 105 GHz). The receiver system has eight antennae aligned in the vertical direction. The integrated electronic systems have been tested. We also set up an artificial simulation system using a radius adjustable rotating plate equipped with metallic grating-like structure to simulate cutoff-layer and the density fluctuation in plasma to benchmark performance of EAST MIR in laboratory. The characteristics of EAST MIR will be given.

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