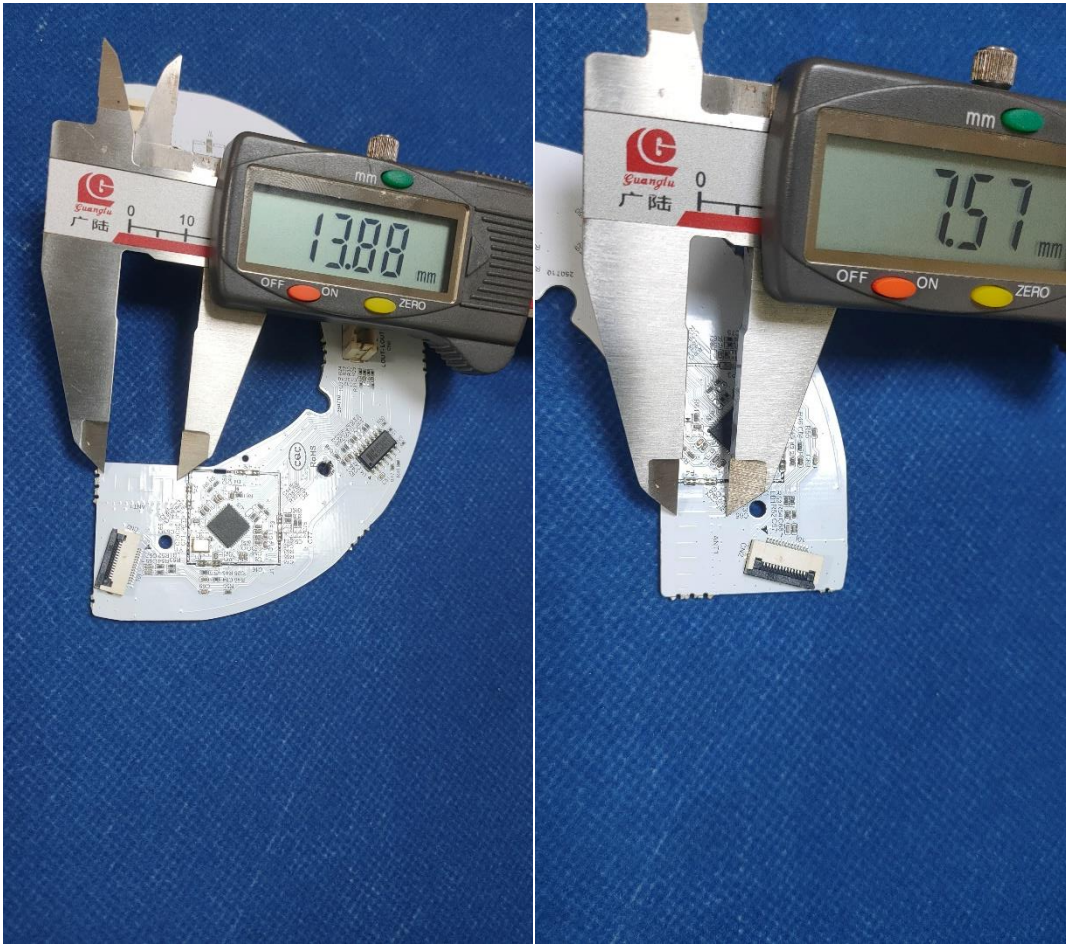


1. Antenna Description:

Antenna type	PCB antenna
Model	NP-S501
Frequency range	2400-2500MHz
Manufacturer	Newline Co., Ltd
Address	No. 810, Room 801, 8th Floor, Building 1, Courtyard 8, Beichen East Road, Chaoyang District, Beijing, China
ANT Peak Gain	0.72 dBi

2. Antenna Photo:

Length:13.88mm
Width:7.57mm



3. Test Equipment & Conditions

3.1 Test instrument

VSWR is tested using Agilent E5071B connected to a hand mechanism, and the status is free space.

3.2 Test environment and methods

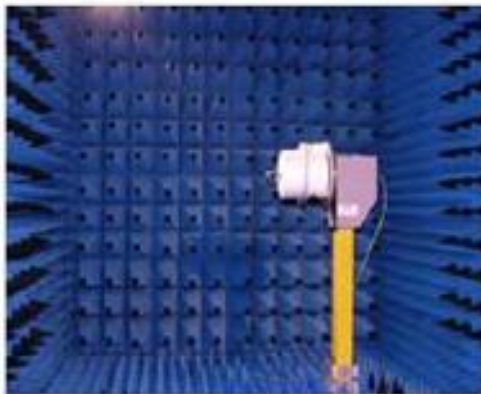
Dark room specifications: ETS-743

TD-SCDMA test equipment: StarPoint SP6010/Agilent 8960

LTE-TDD/FDD-SCDMA test equipment: StarPoint SP8011/CMW500

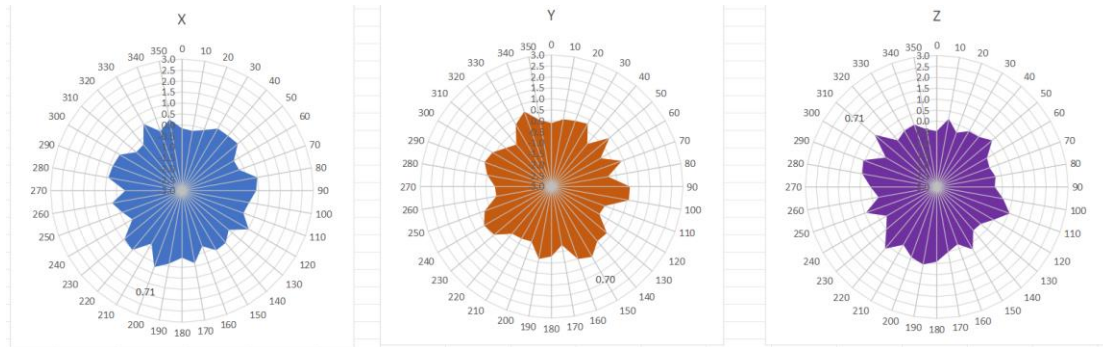
WCDMA/GSM/CDMA test equipment: Agilent 8960

Passive efficiency testing equipment: Agilent Technologies E5071B

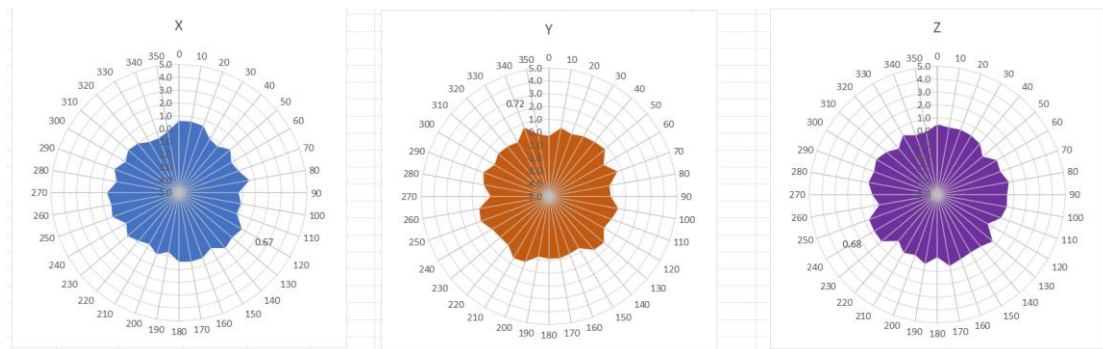


4 . Antenna Radiation Pattern

2400MHz



2450MHz



2500MHz

