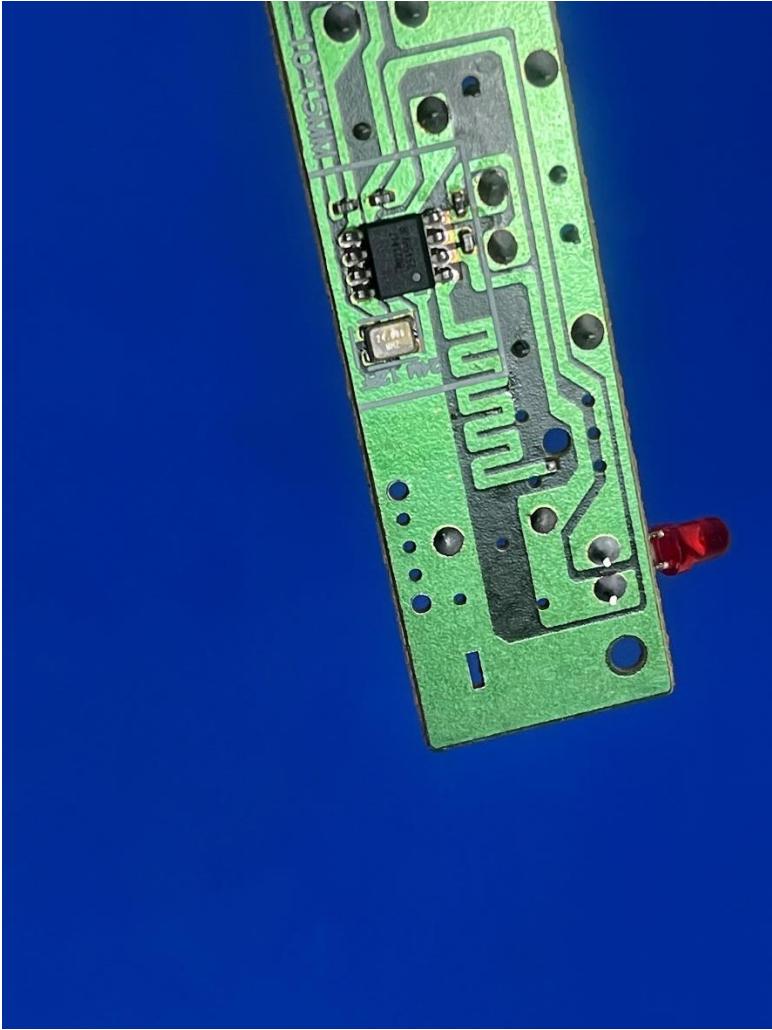


1. Antenna Description:

Antenna type	PCB antenna
Model	689s-104
Frequency range	2400-2500MHz
Manufacturer	Jinyuecheng toy factory
Address	Huaiheyuan Middle Road, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China
ANT Peak Gain	2.0 dBi

2. Antenna Photo:



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

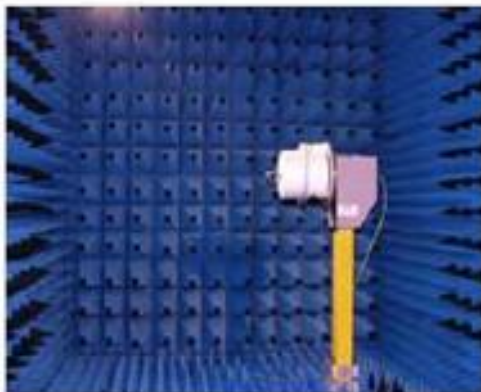
Dark room specifications: ETS-743

TD-SCDMA test equipment: StarPoint SP6010/Agilent 8960

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

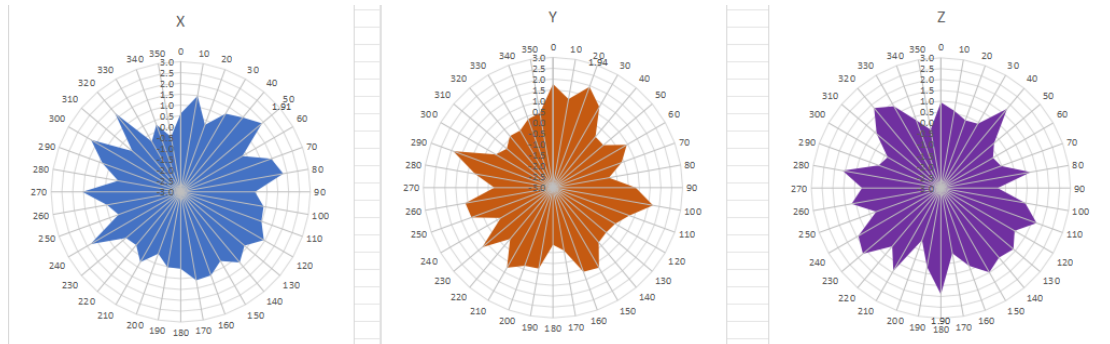
WCDMA/GSM/CDMA test equipment: Agilent 8960

Passive efficiency testing equipment: Agilent Technologies E5071B

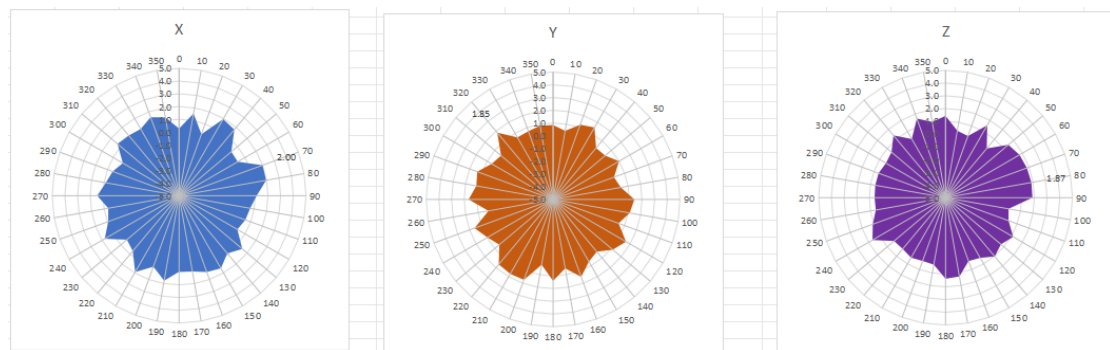


4 . Antenna Radiation Pattern

2400MHz



2450MH



2500MHz

