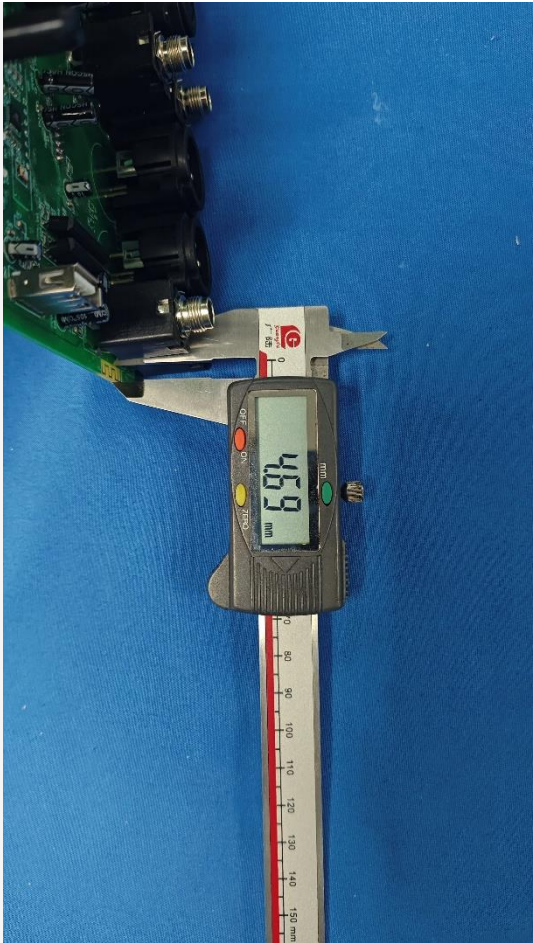
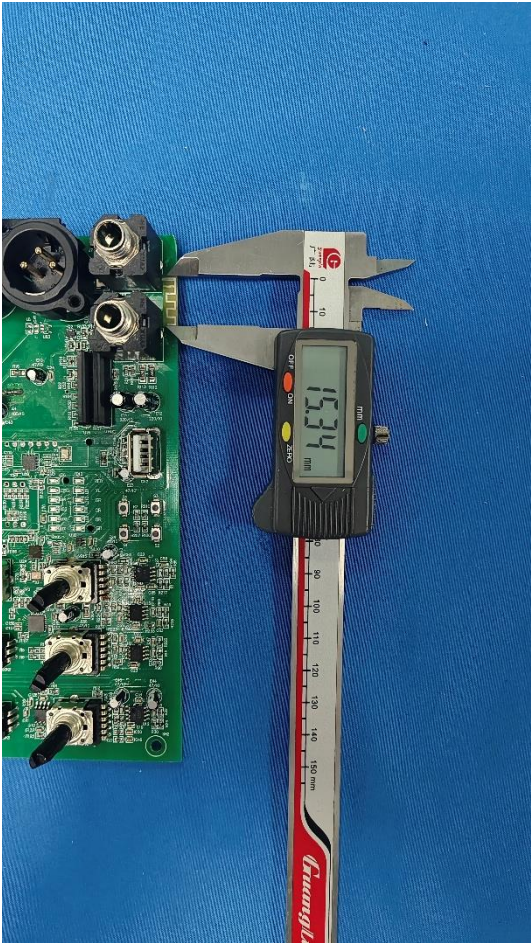


1. Antenna Description:

Antenna type	PCB antenna
Model	A48DSP
Frequency range	2402MHz~2480MHz
Manufacturer	Guangdong Ruiyuda Electronic Technology Co., Ltd.
Address	Workshop 02, No. C3-2, Zone 2, Enping Park, Jiangmen Industrial Transfer Park, Enping City, Guangdong Province, P.R.China
ANT Peak Gain	1.43 dBi

2. Antenna Photo:

Length: 15.34mm
Width: 4.69mm



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

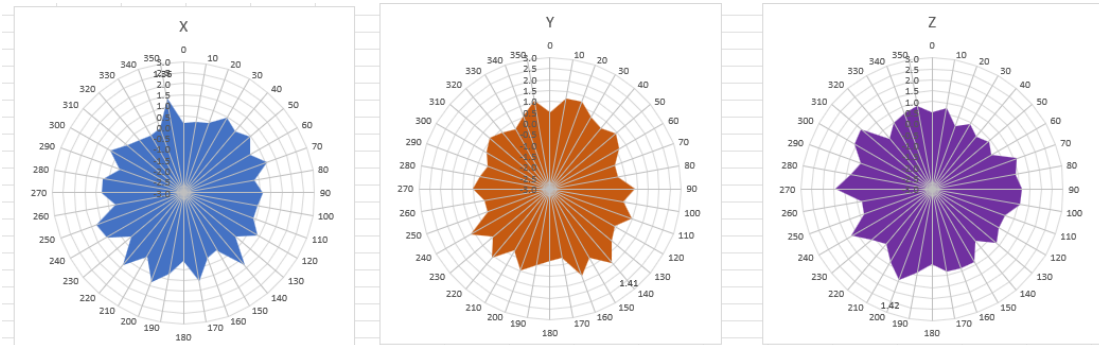
WCDMA/GSM/CDMA test equipment: Agilent 8960

Passive efficiency testing equipment: Agilent Technologies E5071B

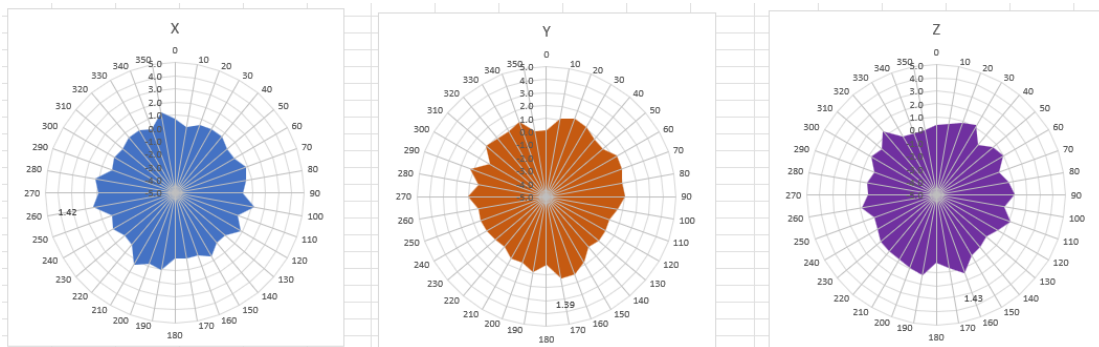


4 . Antenna Radiation Pattern

2400MHz



2450MHz



2500MHz

