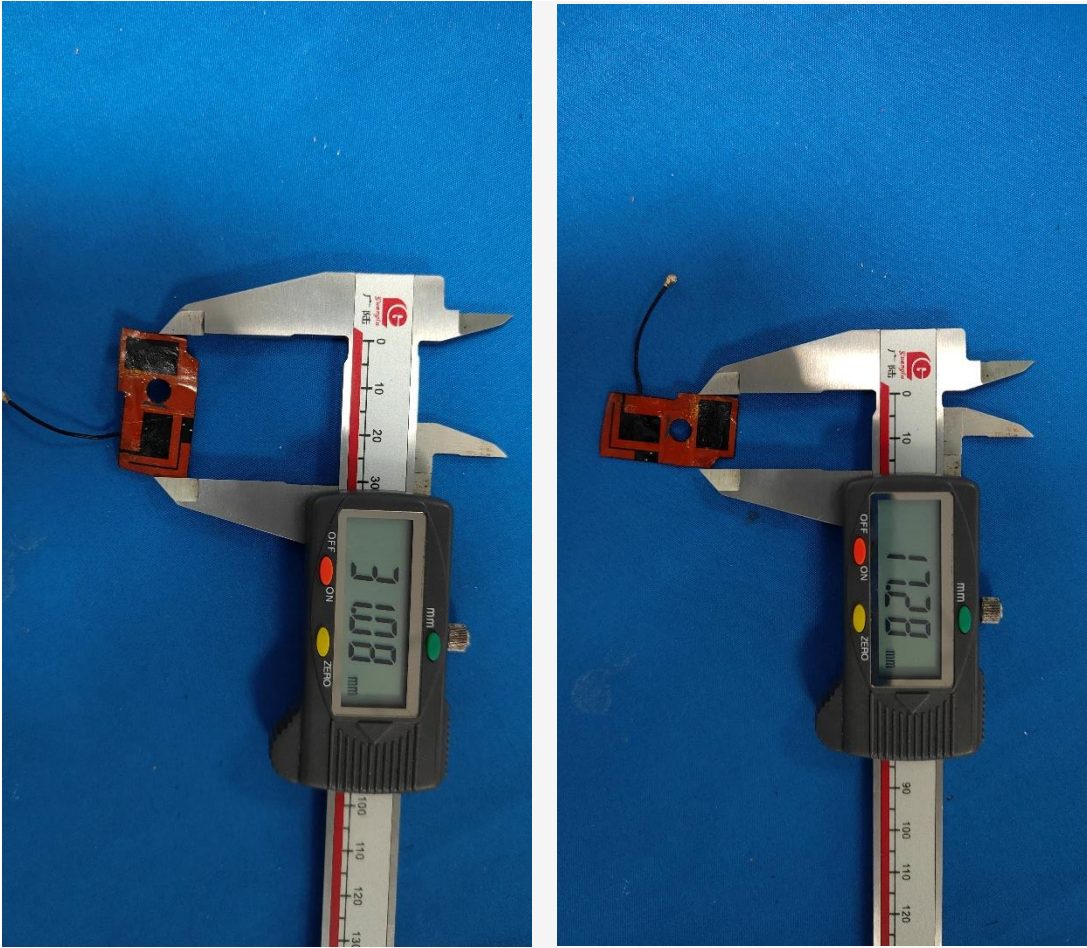


1. Antenna Description:

Antenna type	PIFA Antenna
Model	PIP226L-2
Frequency range	2400-2500MHz, 5180-5240MHz, 5745-5825MHz
Manufacturer	Labpano Technology (Changzhou) Co., Ltd.
Address	Building 4D, No.160 Xihu West Road, Wujin National Hi-tech Industrial Zone, Changzhou Jiangsu, China
ANT Peak Gain	2.27 dBi for 2400-2500MHz 3.72 dBi for 5180-5240MHz 2.41 dBi for 5745-5825MHz

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

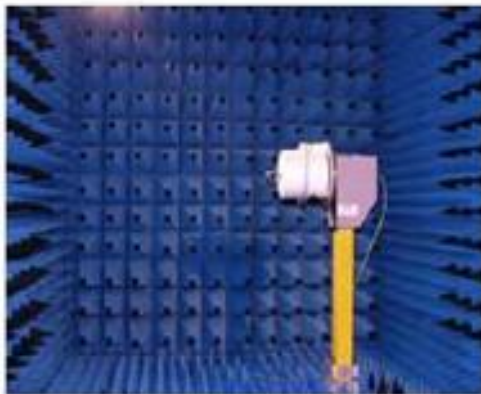
Dark room specifications: ETS-743

TD-SCDMA test equipment: StarPoint SP6010/Agilent 8960

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

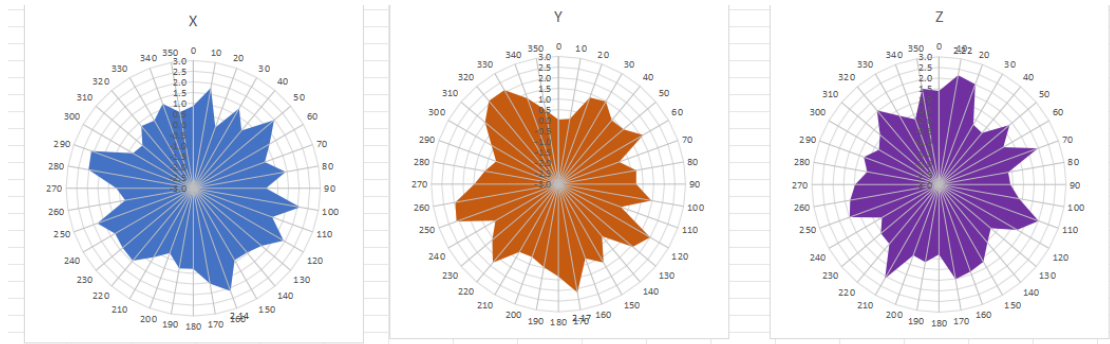
WCDMA/GSM/CDMA test equipment: Agilent 8960

Passive efficiency testing equipment: Agilent Technologies E5071B

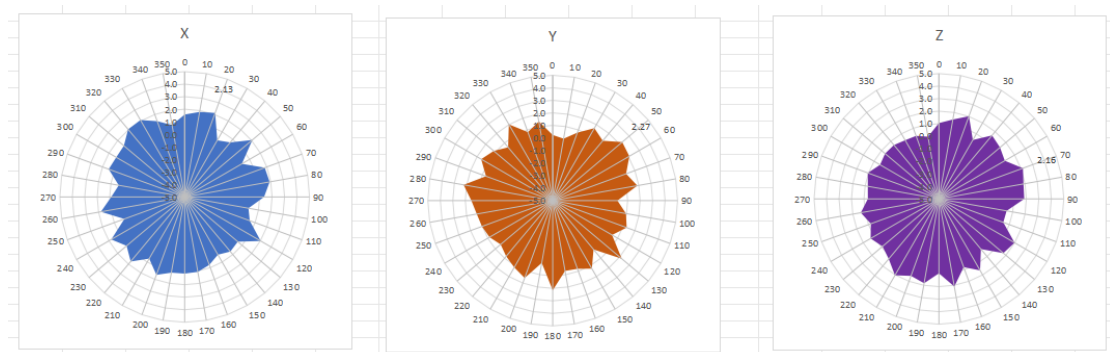


4 . Antenna Radiation Pattern

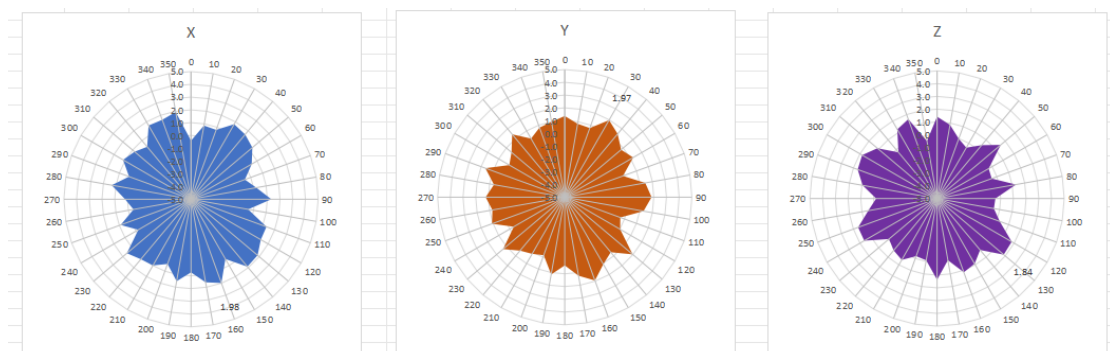
2400MHz



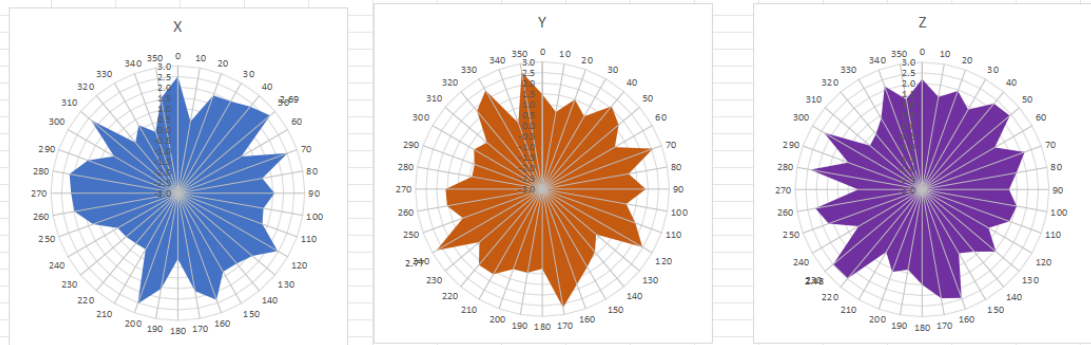
2450MHz



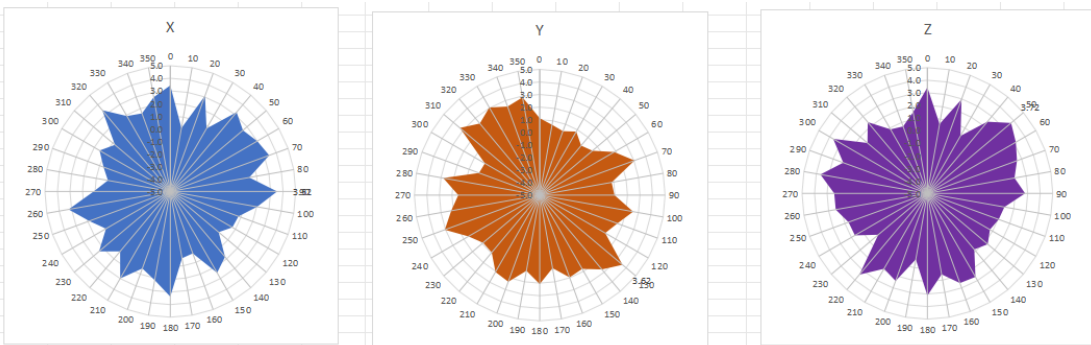
2500MHz



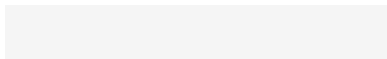
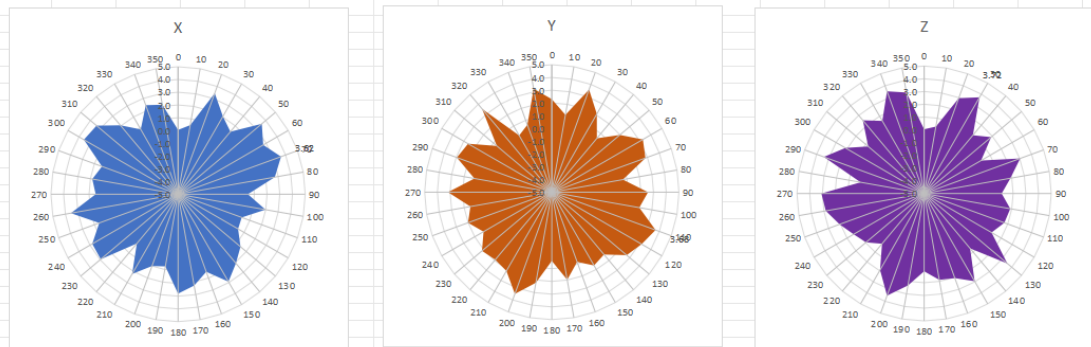
5180MHz



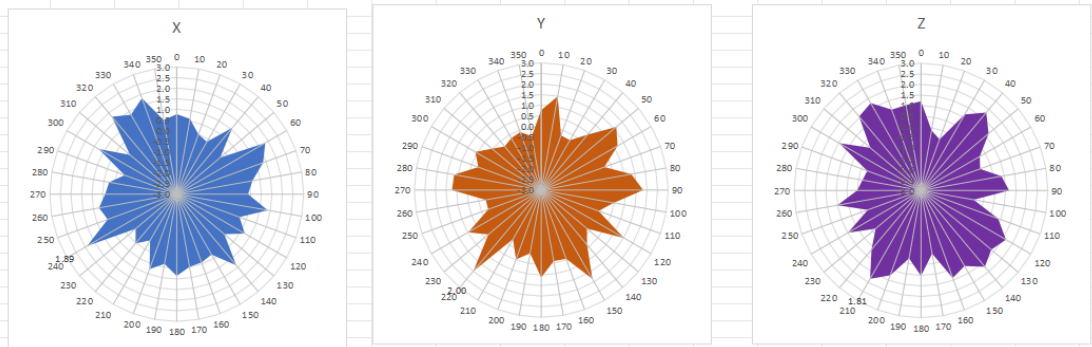
5220MHz



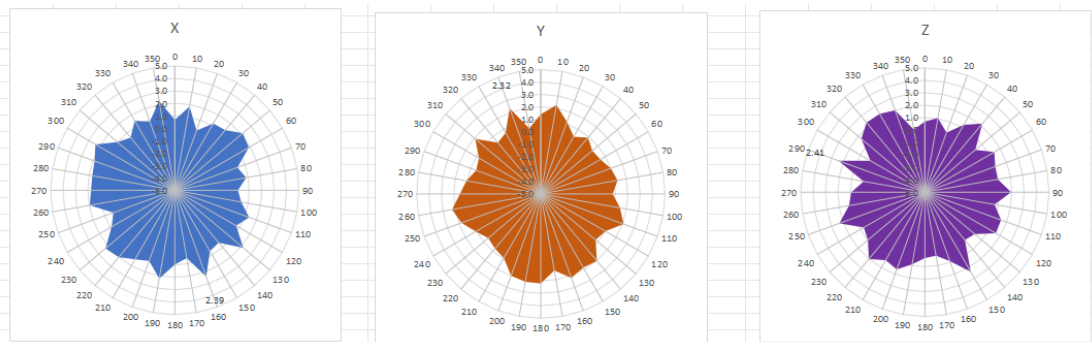
5240MHz



5745MHz



5785MHz



5825MHz

