

1. Antenna Description:

Antenna type	PCB antenna
Model	HHKA0013
Frequency range	2400-2500MHz
Manufacturer	BRNDXL, LLC
ANT Peak Gain	0.95 dBi

2. Antenna Photo:

Length :16.25mm
Width:3.72mm



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

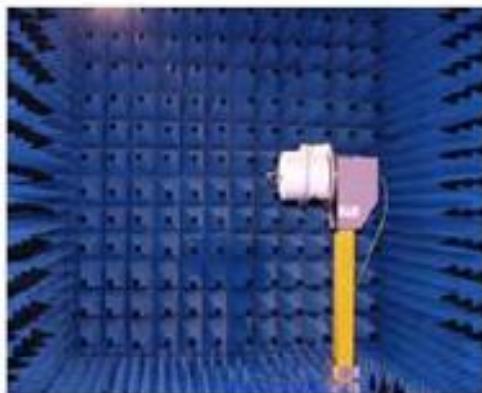
Dark room specifications: ETS-743

TD-SCDMA test equipment: [StarPoint SP6010](#)/Agilent 8960

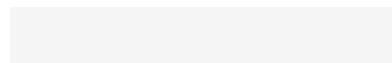
LTE-TDD/FDD-SCDMA test equipment: [StarPoint SP8011](#)/CMW500

WCDMA/GSM/CDMA test equipment: Agilent 8960

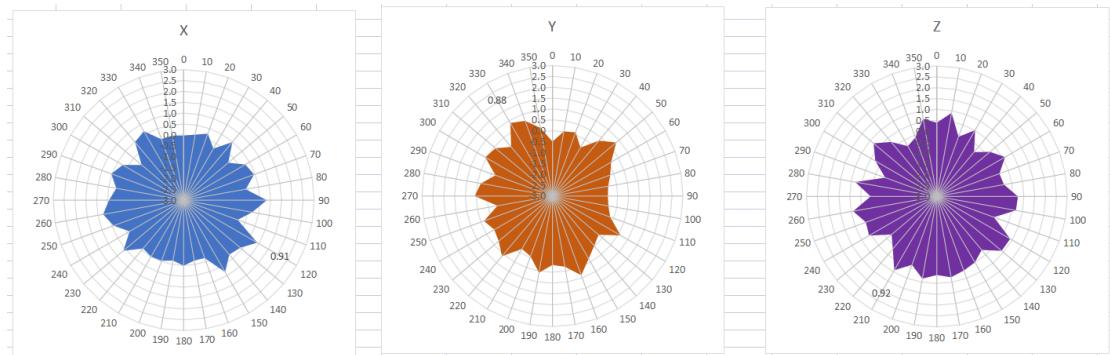
Passive efficiency testing equipment: Agilent Technologies E5071B



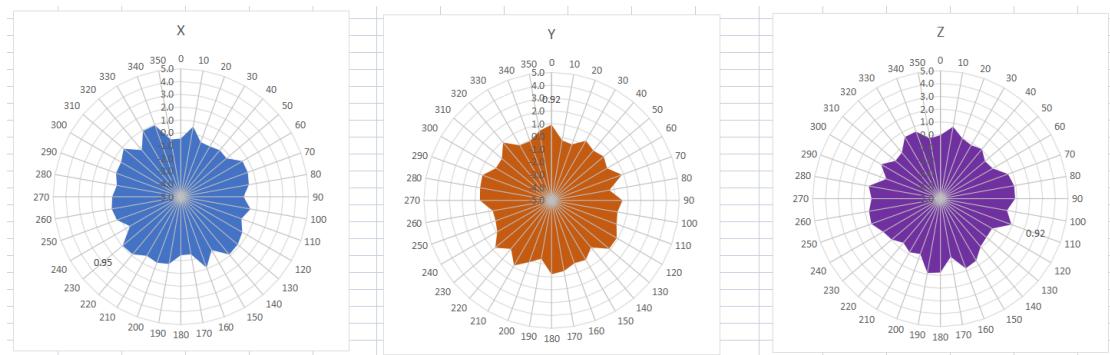
4 . Antenna Radiation Pattern



2400MHz



2450MHz



2500MHz

