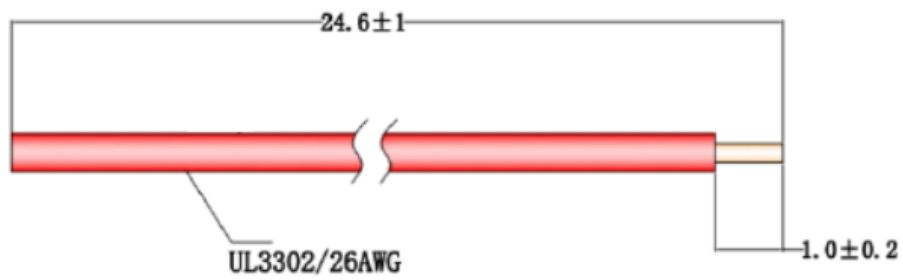


1. Antenna Description:

Antenna type	Internal antenna
Model	Q1
Frequency range	2400-2500MHz
Manufacturer	ShenZhen Telconn Technology Co.,Ltd.
ANT Peak Gain	-0.48 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

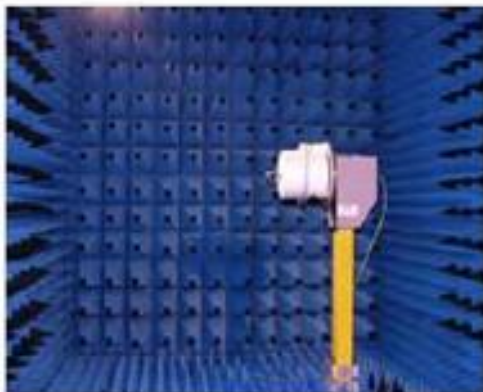
Dark room specifications: ETS-743

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

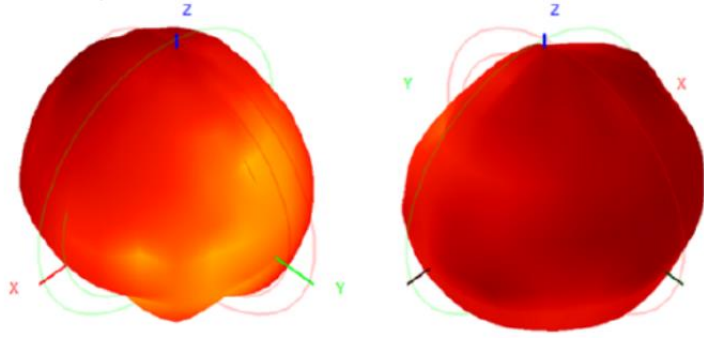


4 . Antenna Radiation Pattern

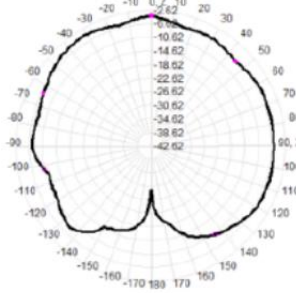


2D&3D BT- ANT

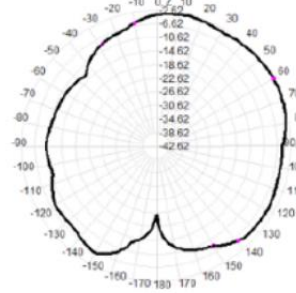
2400.0MHz H+V, Eff. 22.5%



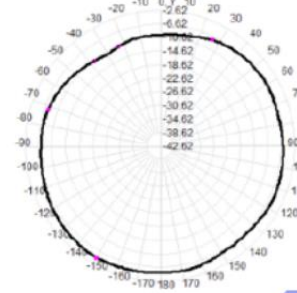
2400.0MHz Total(E1-XZ), Max=-4.31dB



2400.0MHz Total(E2-YZ), Max=-2.62dB

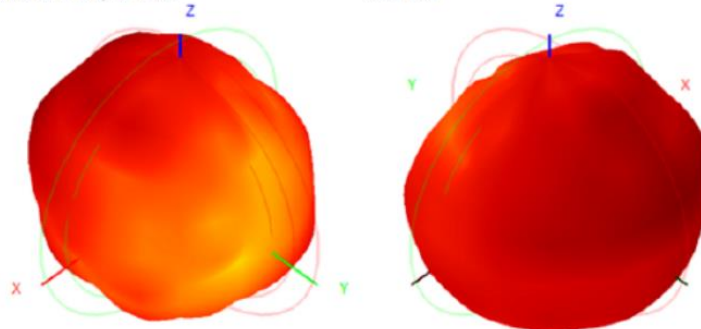


Total(H+XY), Max=-4.83dB, CrD=6.76

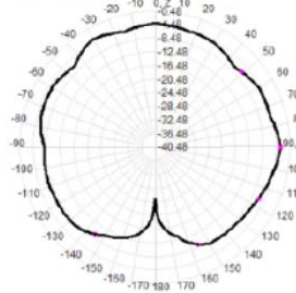


2D&3D BT- ANT

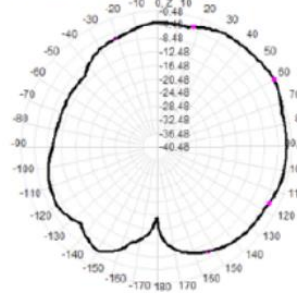
2450.0MHz H+V, Eff. 31.2%



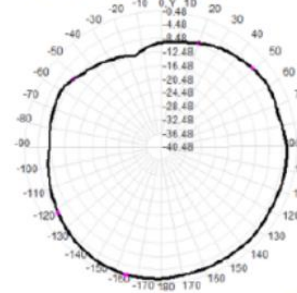
2450.0MHz Total(E1-XZ), Max=-3.57dB



2450.0MHz Total(E2-YZ), Max=-0.48dB



Total(H+XY), Max=-2.00dB, CrD=10.65



2D&3D

BT- ANT

2500.0MHz H+V, Eff: 23.2%

Back View

