



Product Specifications for Approval

Antenna frequency band: 2400-2500MHz 5150-5850MHz

VER: A0

Data: 2022-05-09

Number: FS-0086

Antenna name: PCB antenna
Model: JC0006

Manufacturer: Feisheng Electronics Co., Ltd

Address: 3rd Floor, No. 70 Baotong South Road, Yungu Street, Xikeng,
Henggang Town, Shenzhen

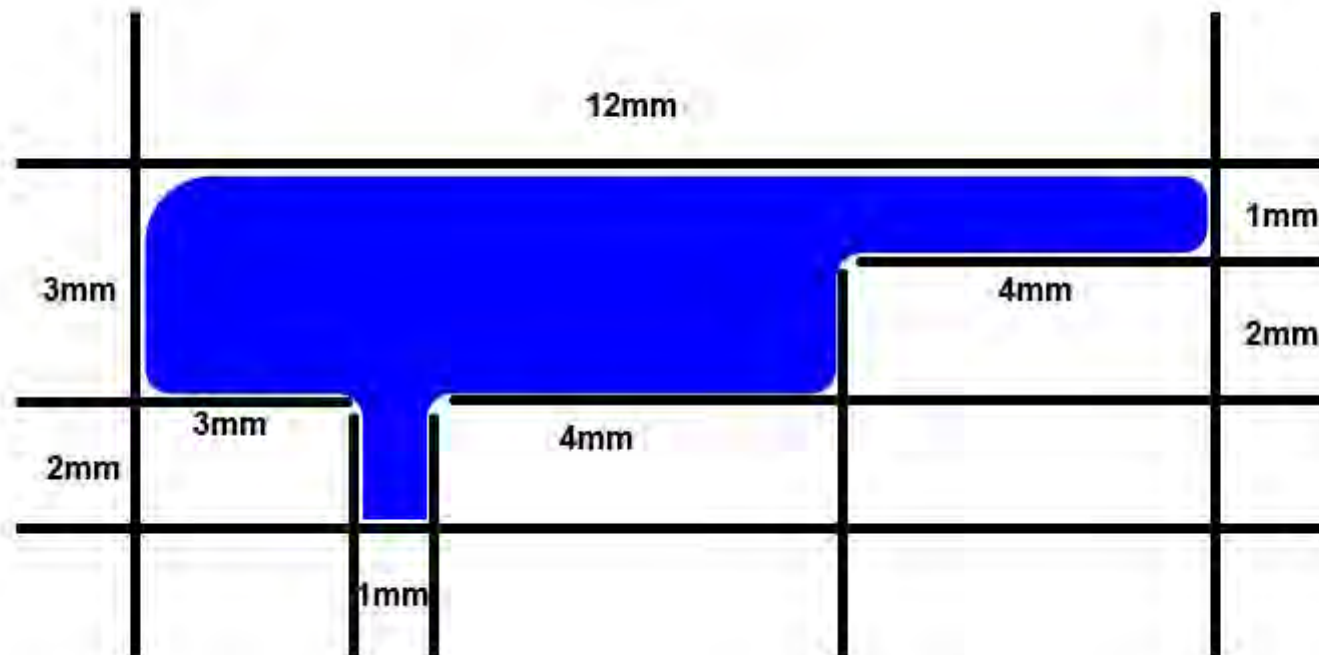
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2D antenna size diagram



1、 Basic characteristics of the product::

WIFI Antenna	
DESCRIPTION	VALUE
Frequency range（工作频段）	2400-2500MHz 5150-5850MHz
Impedance（特性阻抗）	50 Ω
V.S.W.R（电压驻波比）	Compare waveforms
Gain（增益）	2.42dBi(Max)
Radiation（方向性）	Omni-directional
Polarization（线化方式）	linear Vertical
Admitted power（功率）	1W
Connector（接头型号）	IPEX CONN
Operating temp（工作温度）	-10℃~+70℃
Storage temp（储存温度）	-10℃~+60℃

1. Summary :

This report to account for the measurement setup and result of the Antenna. The measurement setup includes s-parameter, The measured data for Antenna are presented and analysis.

2. S-Parameter Measurement S :

A. Reflection coefficient :

(a) Instrument (仪器) : Network Analyzer (网络分析仪).

B. Setup 建立:

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

(2) Connect the antenna under test to the Network Analyzer.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

(4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

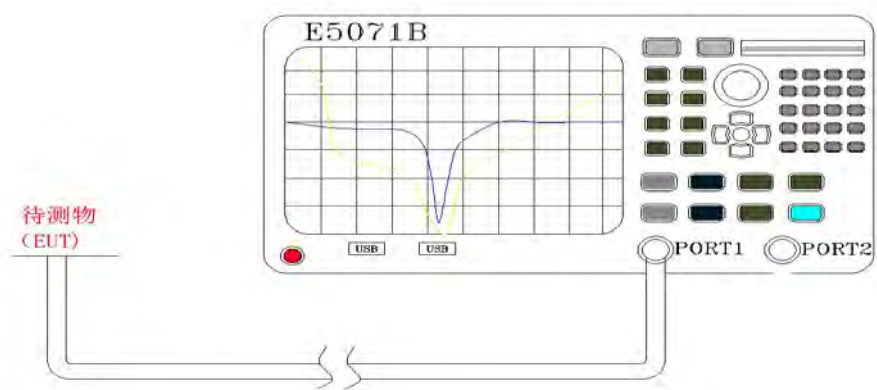


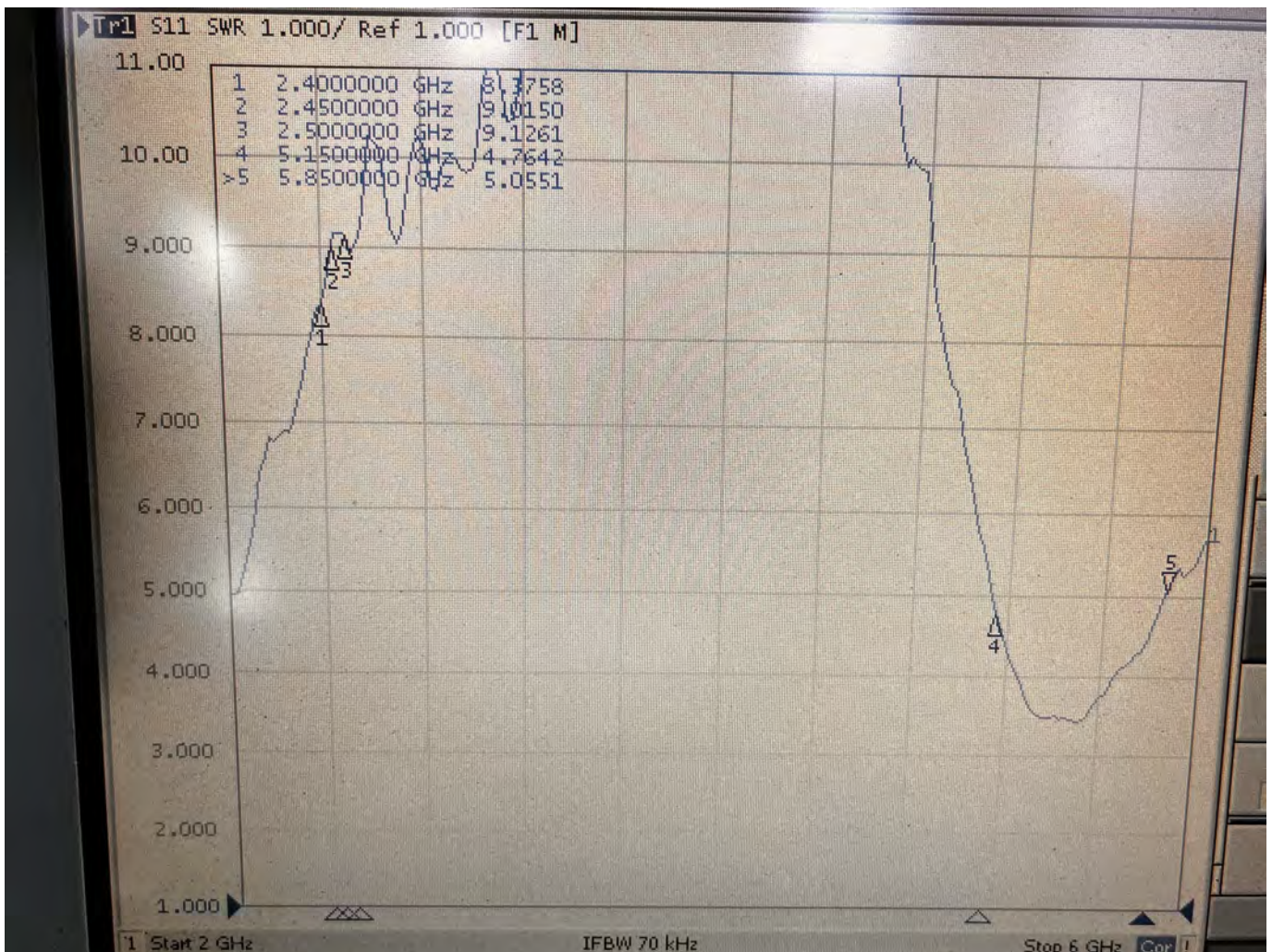
Fig.1 Antenna measured in Network Analyzer 图 1 天线测量网络分析仪

3. S-Parameter Measurement Results :

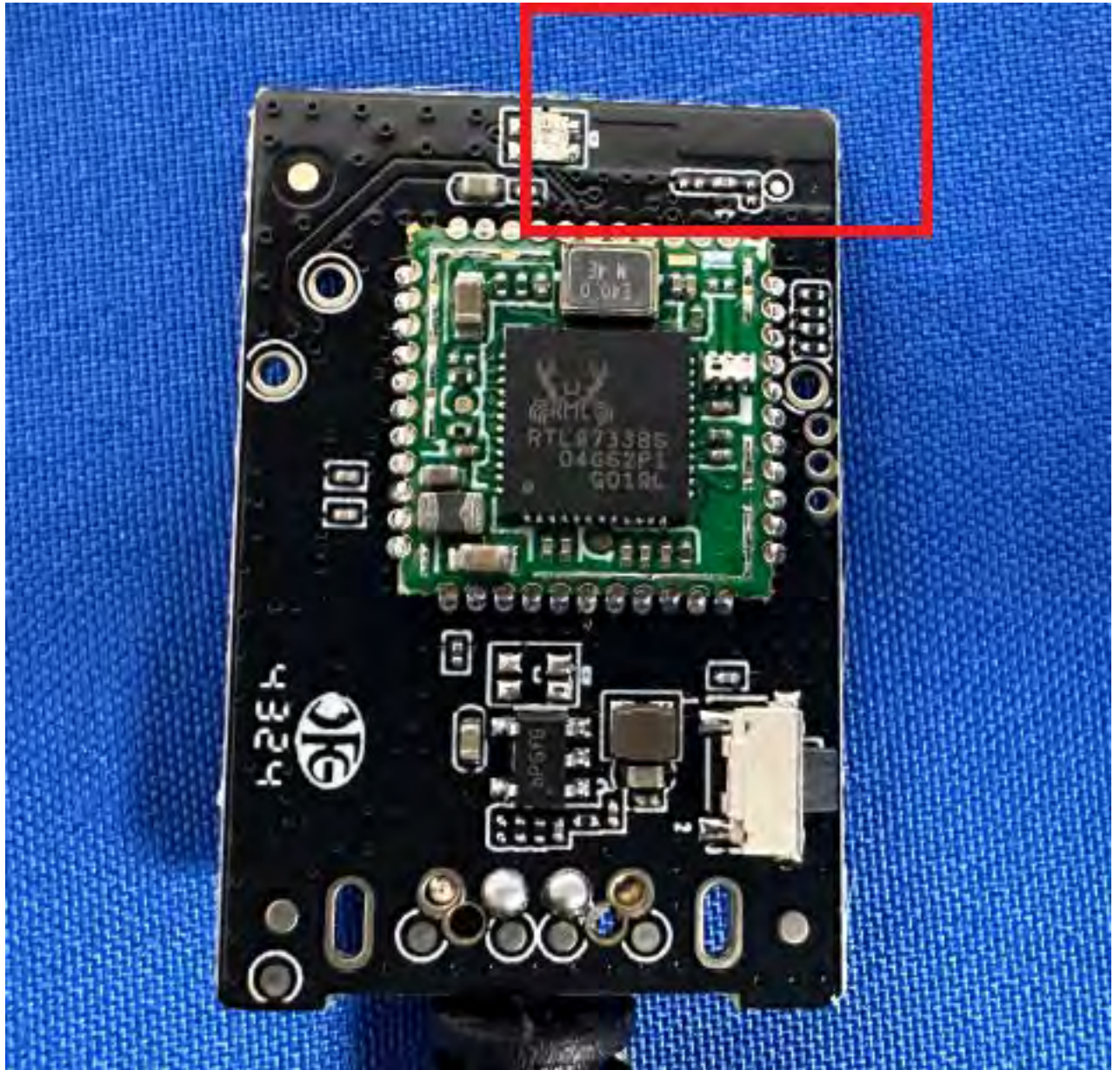
S-Parameter test data S-:

Frequency MHz	2400	2450	2500	5150	5850
V.S.W.R	8.37	9.01	9.12	4.76	5.05

S-Parameter test image S-参数量测图片:



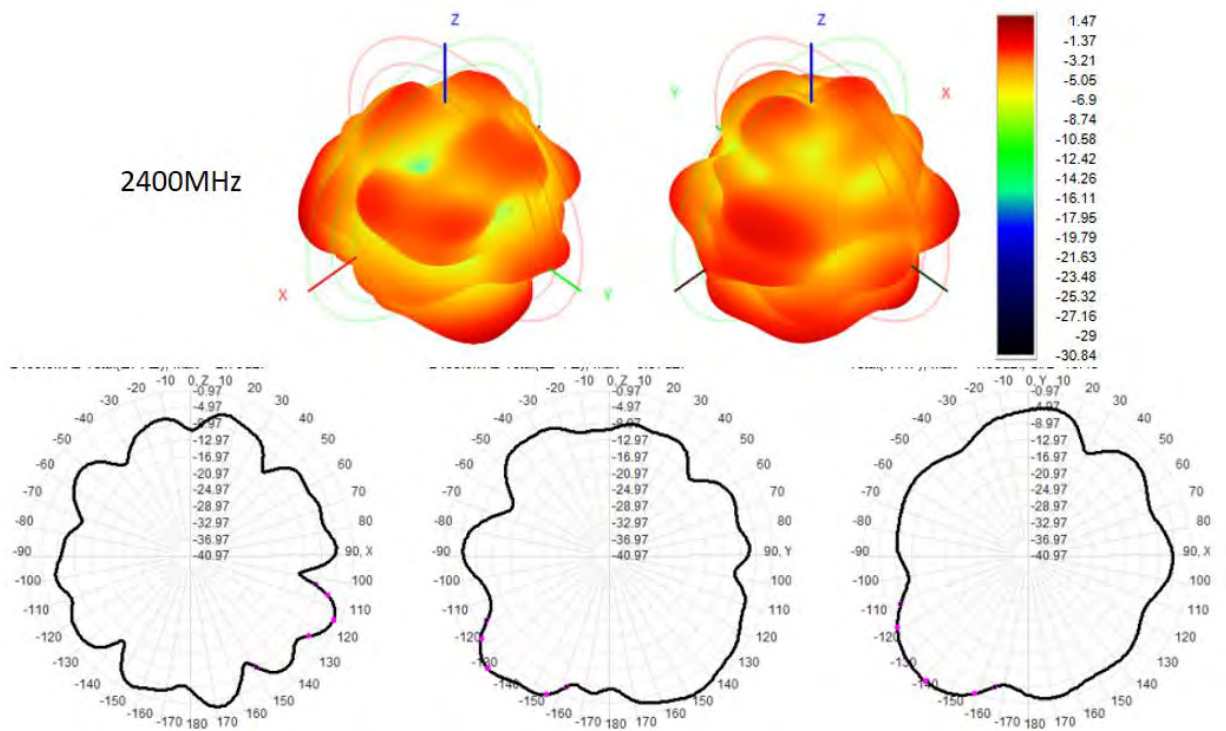
Antenna image



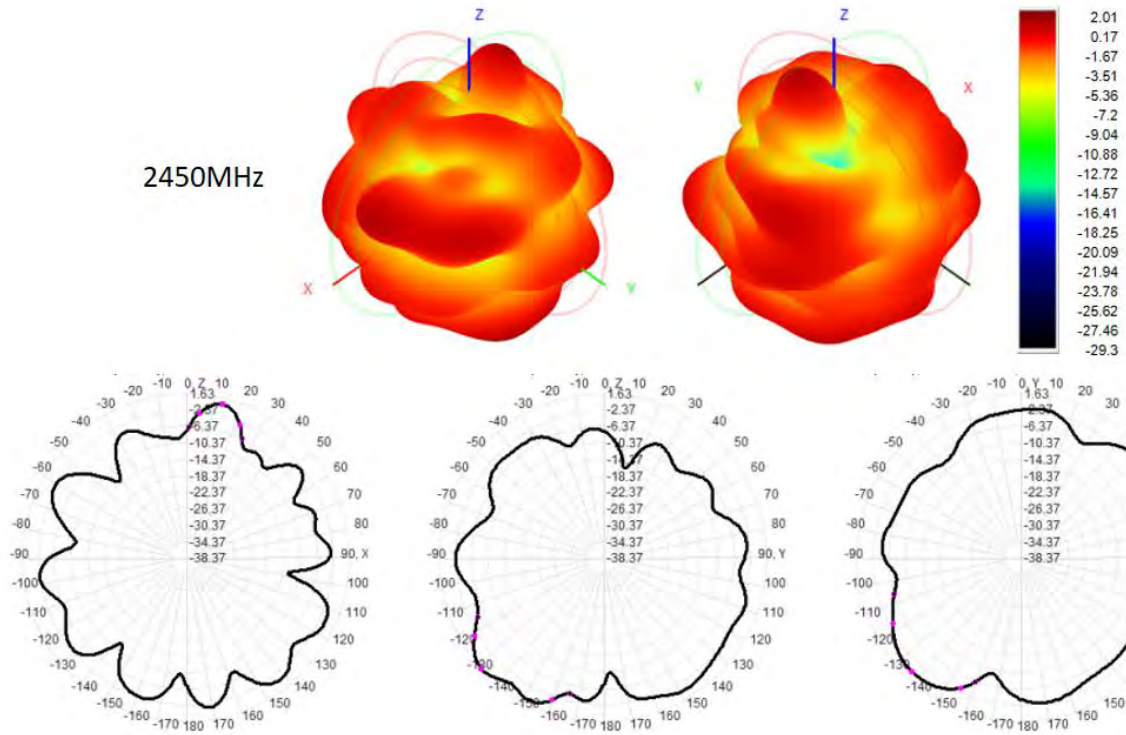
Passive data

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	30.42	1.47
2450	43.37	2.01
2500	41.53	2.24
5150	41.68	2.42
5850	45.71	2.21

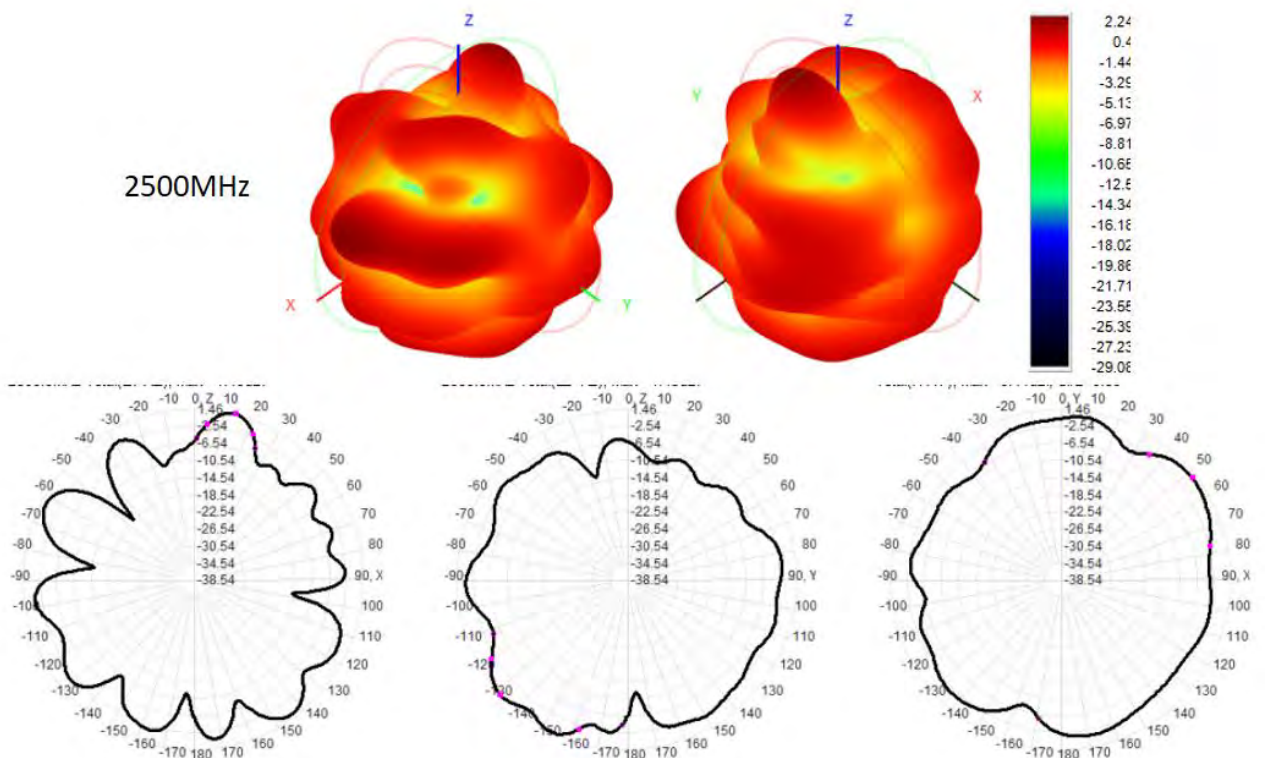
2D/3D image



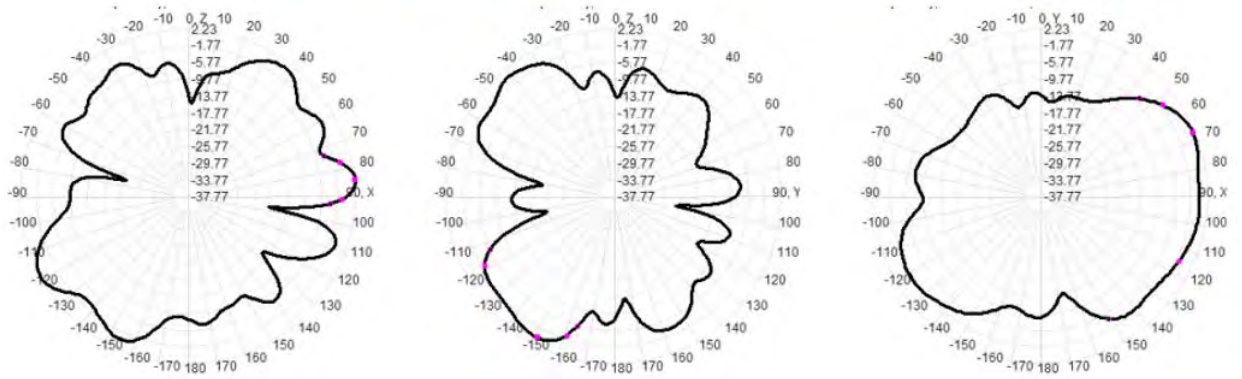
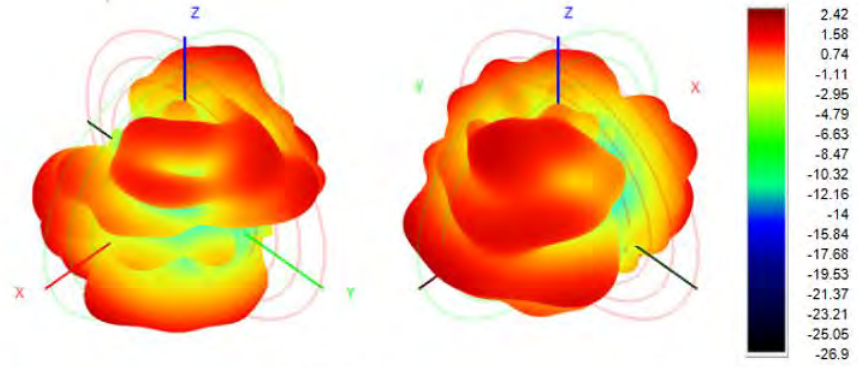
2450MHz



2500MHz



5150MHz



5850MHz

