



Recognition

(Product Name) : DD-X20

(interior M/ N) : 20505010005

(Product specifications) : FPC

(Date of issue) : 2023-7-19

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1 产品说明 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications. We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

该天线设计性能优越，可广泛用于无线应用。

我们为定制天线解决方案提供仿真，测试和制造等全面的天线设计支持，以满足您的具体应用需求。

2 整机示意图 diagrammatic sketch of the whole machine



3 产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications

频率范围 Frequency Range (MHz)	2400-2500MHz
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 VSWR	≤ 3.0
增益 Gain (dBi)	≤ -0.3
极化形式 Polarization Type	线性 Linear

机械指标 Mechanical Specifications

天线尺寸 Antenna Size (mm)	22.4*12.4mm
馈线长度 Cable Length (mm)	0.81 60mm
连接器型号 Connect Type	-
工作温度 Working Temperature (°C)	-20 ~ +85
颜色 Radome Color	黑色 Black

4 测试环境 Test environment

网络分析仪：安捷伦 5071B

Network Analyzer: Agilent 5071 B

综合测试仪：R&SCMW500(2/3/4G/NB-IoT/W/BT)；AnritsuMT8820C

Comprehensive tester: R&S CMW500(2/3/4G/NB-IoT/WIFI/BT); Anritsu MT8820C

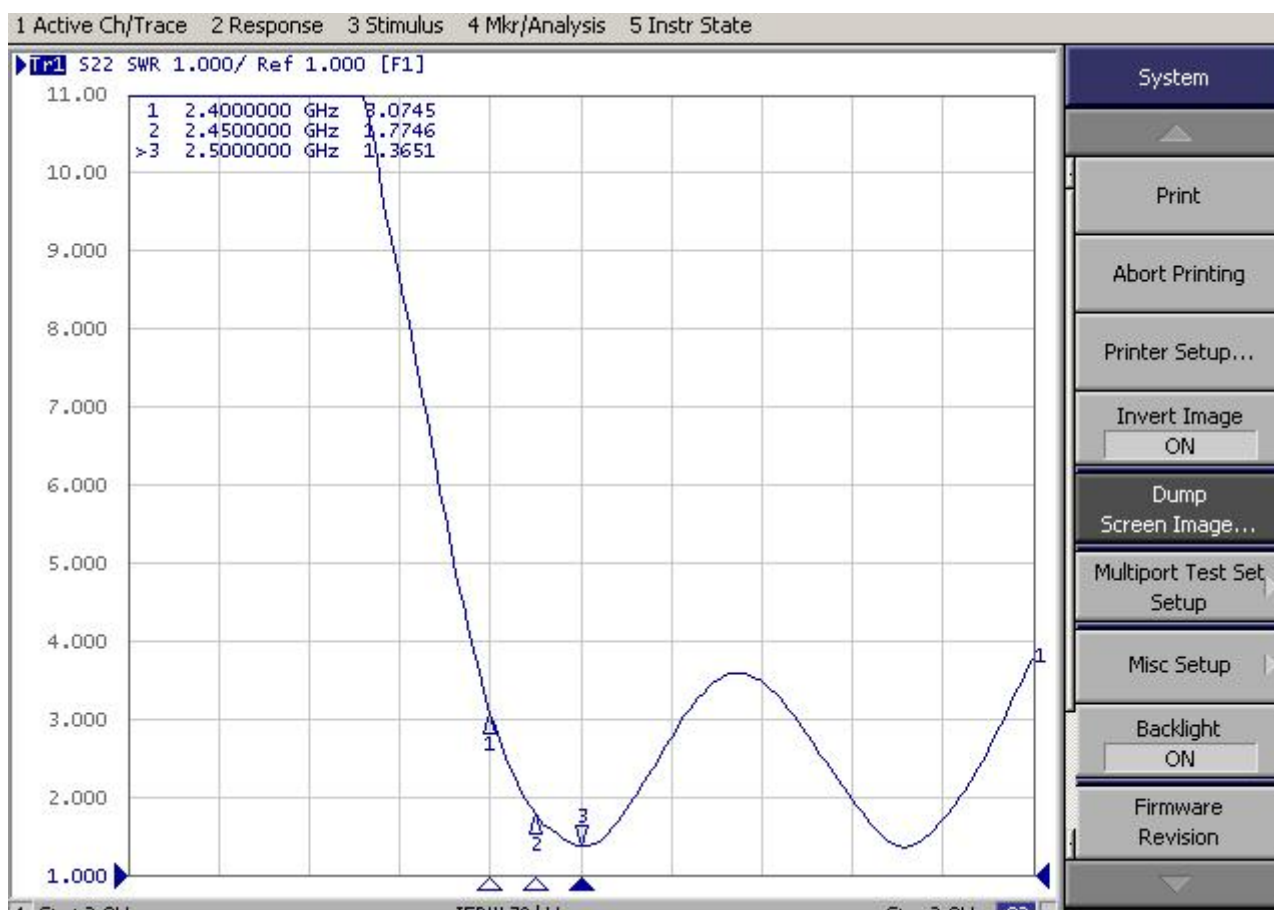
微波暗室：5G SISO/MIMO, 400 MHz – 8.0 GHz

RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 8.0 GHz



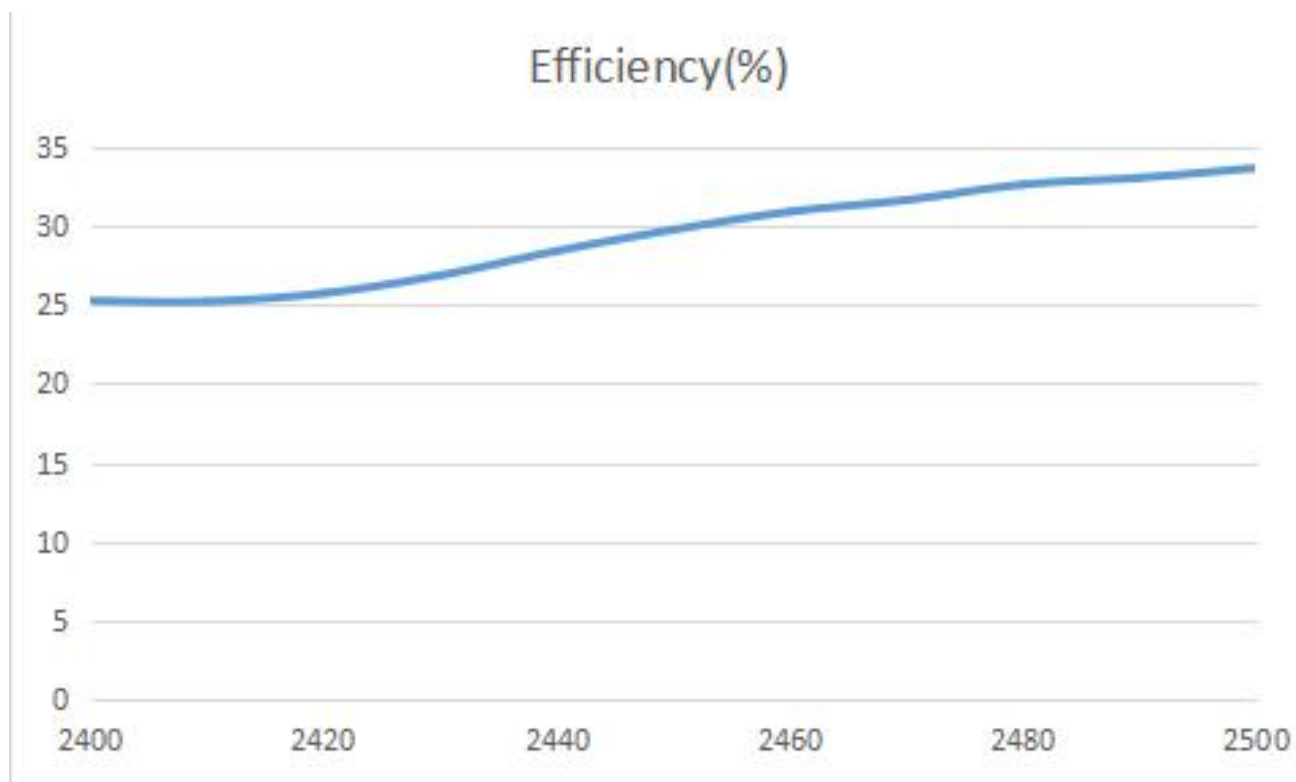
5 测试数据 Test data

- 驻波比图 VSWR



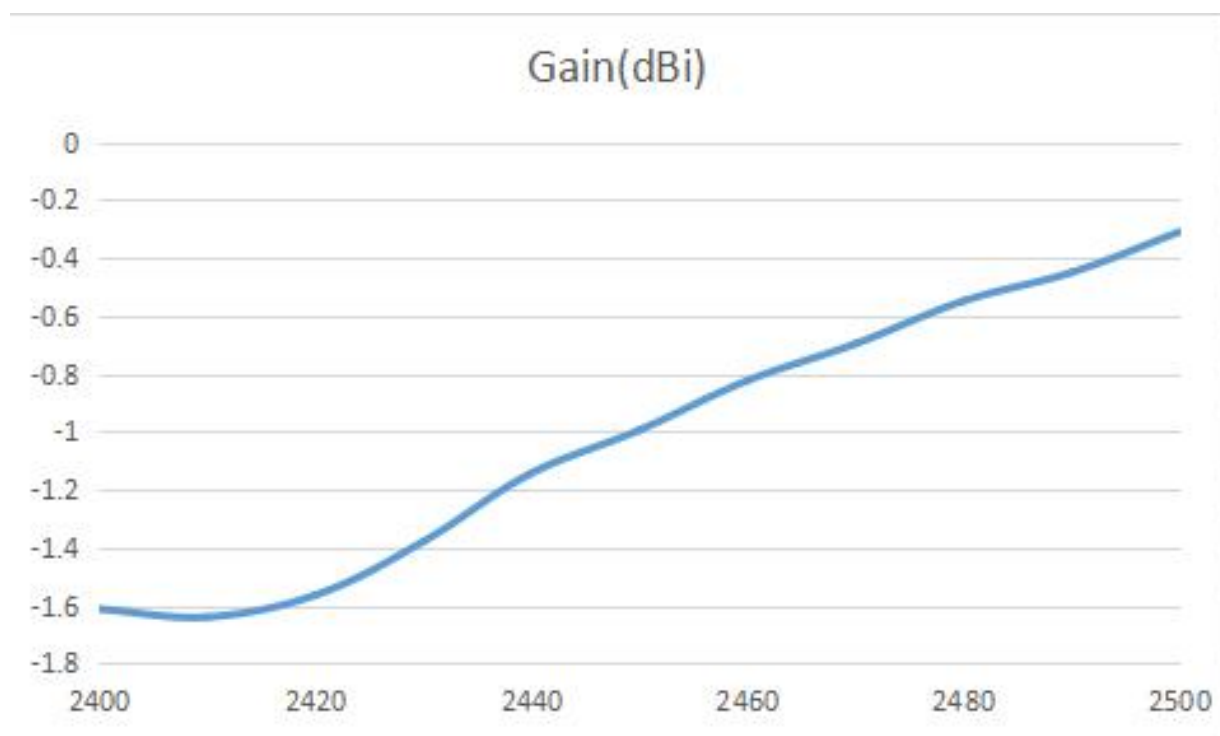
Frequency(MHz)	2400	2450	2500
VSWR	3.07	1.77	1.36

● 效益 Efficiency



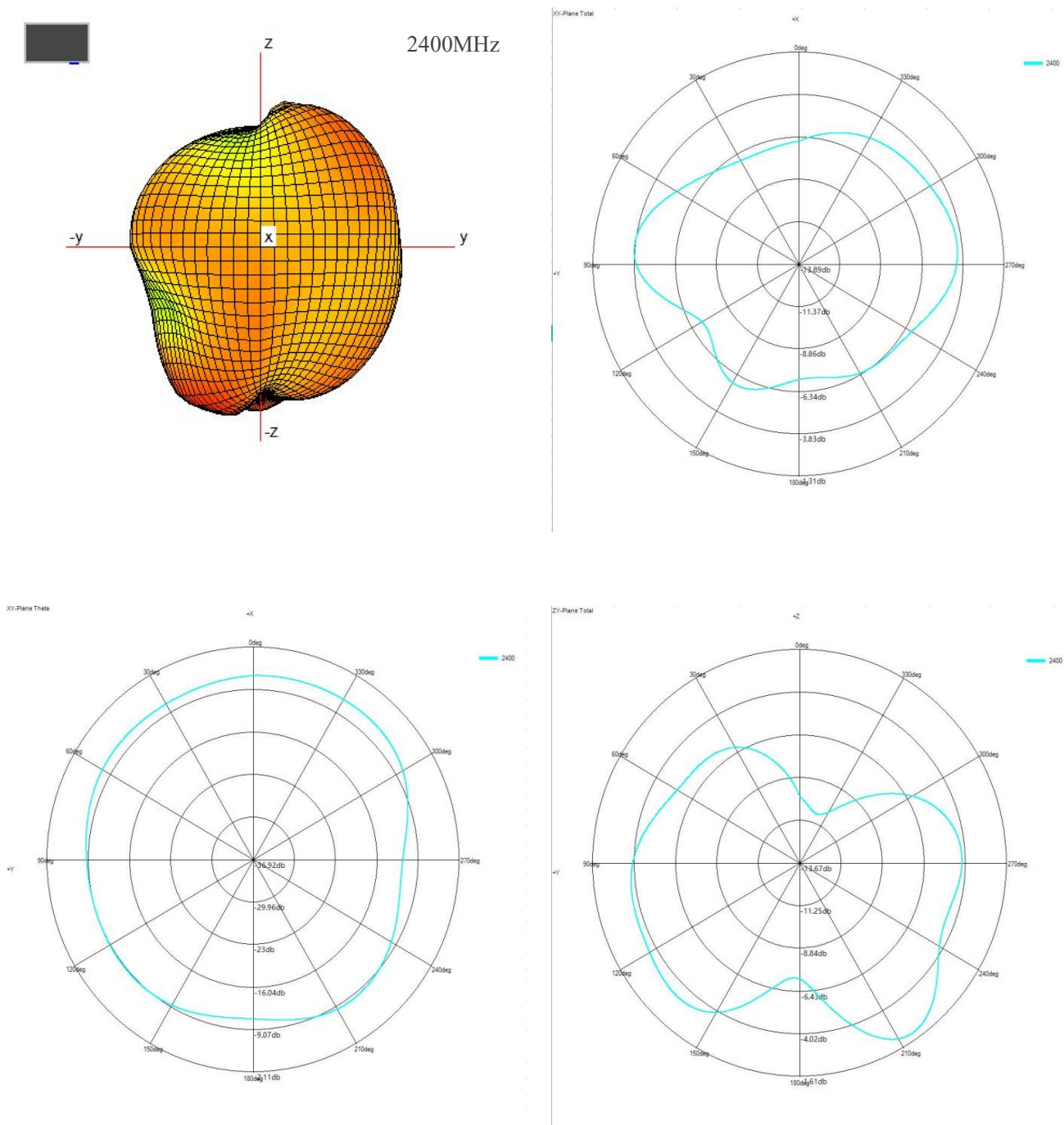
Frequency(MHz)	2400	2450	2500
Efficiency(%)	25.23	29.73	33.63

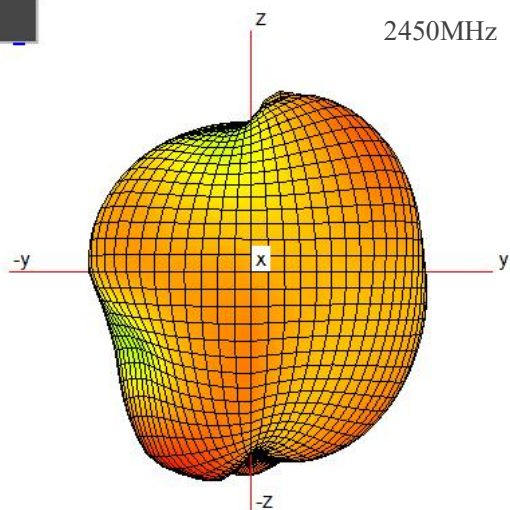
● 增益 Gain



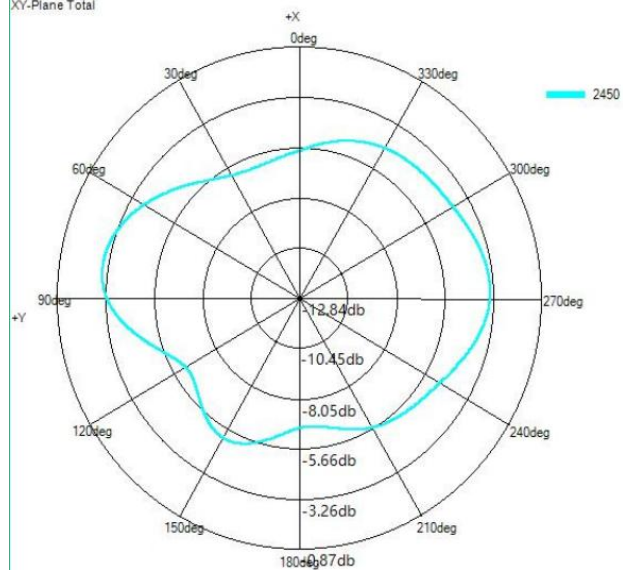
Frequency(MHz)	2400	2450	2500
Gain	-1.61	-5.26	-4.73

● 方向辐射图 Radiation Patterns

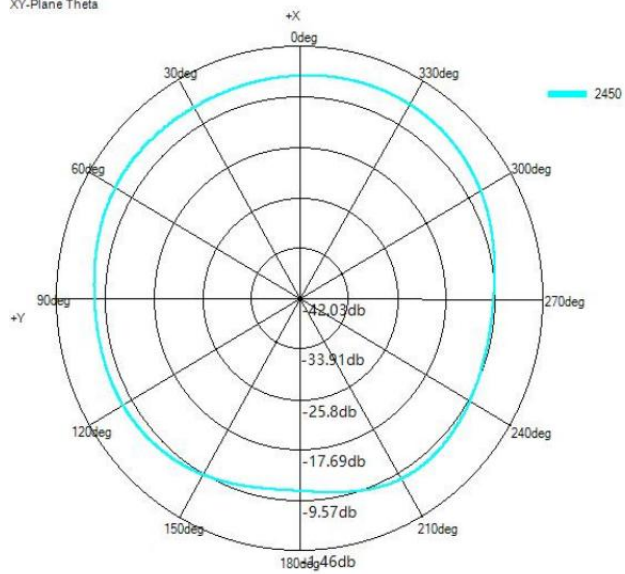




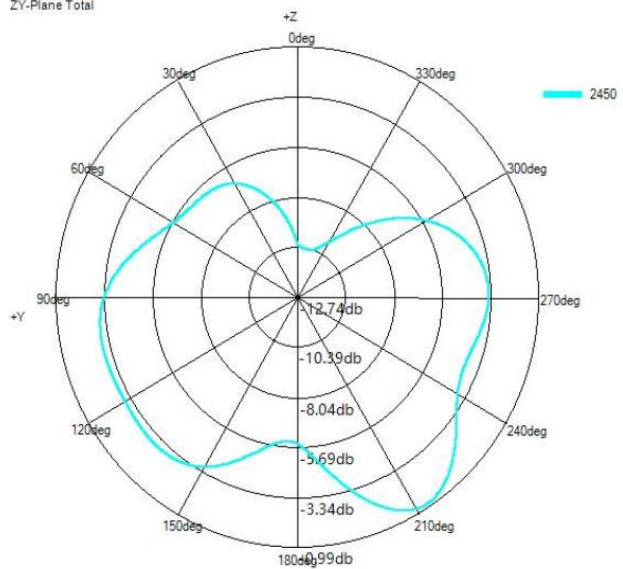
XY-Plane Total

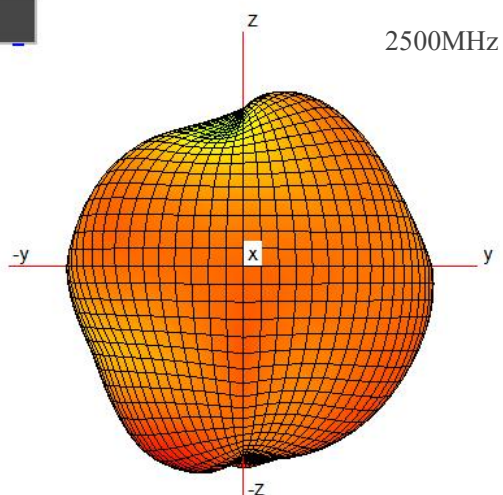


XY-Plane Theta

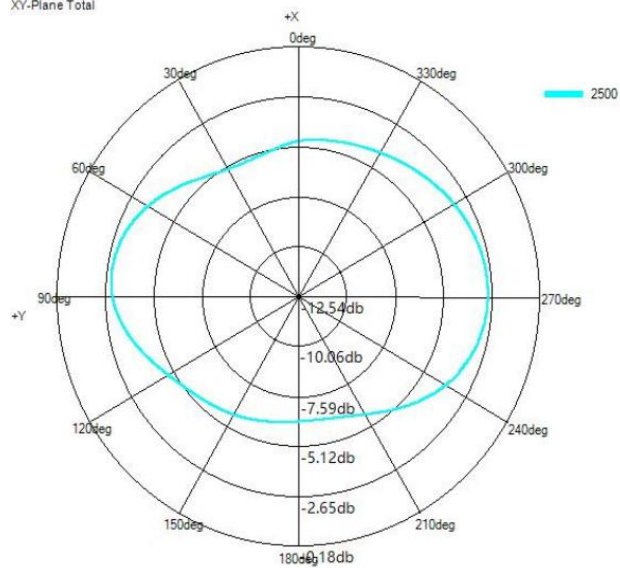


ZY-Plane Total

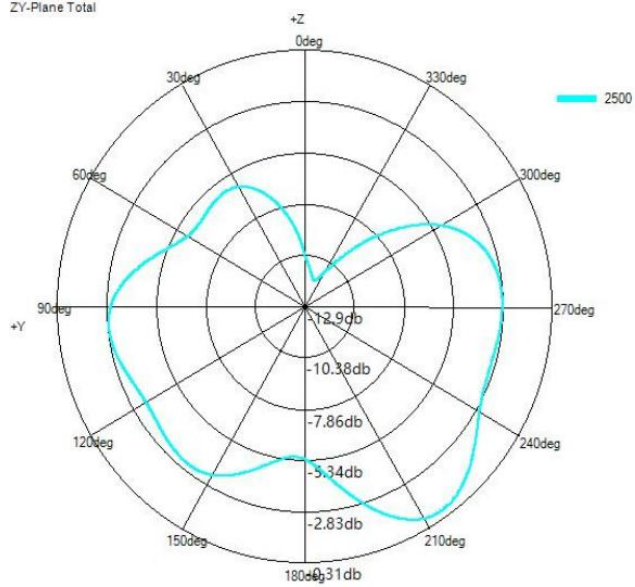




XY-Plane Total



ZY-Plane Total



XY-Plane Theta

