



天线规格书

Antenna Datasheet

2.4G胶棒天线/2.4G rubber rod antenna

型号/Model:

BW2.4JWX105

描述:2.4G胶棒天线 SMA内螺内孔接口

Description 2.4G rubber rod antenna SMA inner screw inner hole interface

特性:2400-2500MHz全频段覆盖SMA内螺内孔接口

结构: 可折叠360°全向辐射

Feature: SMA internal screw and internal hole interface covering the full frequency band of 2400-2500 MHz

Structure: Foldable 360° omnidirectional radiation

尺寸/Size: 105mm x Ø 10 mm

BW2.4JWX105

零件编号说明

BW	公司 / Company	
2.4G	频段 / Frequency	2400-2500MHz / 2400-2500MHz
J	名称 / Name	胶棒 / Rubber Antenna
W	类型 / Type	外置 / External
X	常数 / Constant	X / X
105-10	尺寸 / Dimensions	105x10 mm

1. 产品描述 / Description



蝙蝠无线BW2.4JWX105-10 是一款高性能全向天线，这种兼具高性能与便携性的天线，专为需要频繁移动或临时组网的设备设计，采用优质塑胶外壳，可折叠，具备出色的信号接收与发射能力，为设备连接提供稳定可靠的支持。其紧凑轻便的胶棒造型设计，易于安装和运输携带。

The Bat Wireless BW2.4JWX105-10 is a high-performance omnidirectional antenna. This antenna, which combines high performance and portability, is specifically designed for devices that require frequent movement or temporary networking. It features a high-quality plastic casing that is foldable and offers excellent signal reception and transmission capabilities, providing stable and reliable support for device connections. Its compact and lightweight rubber stick design makes it easy to install and transport.

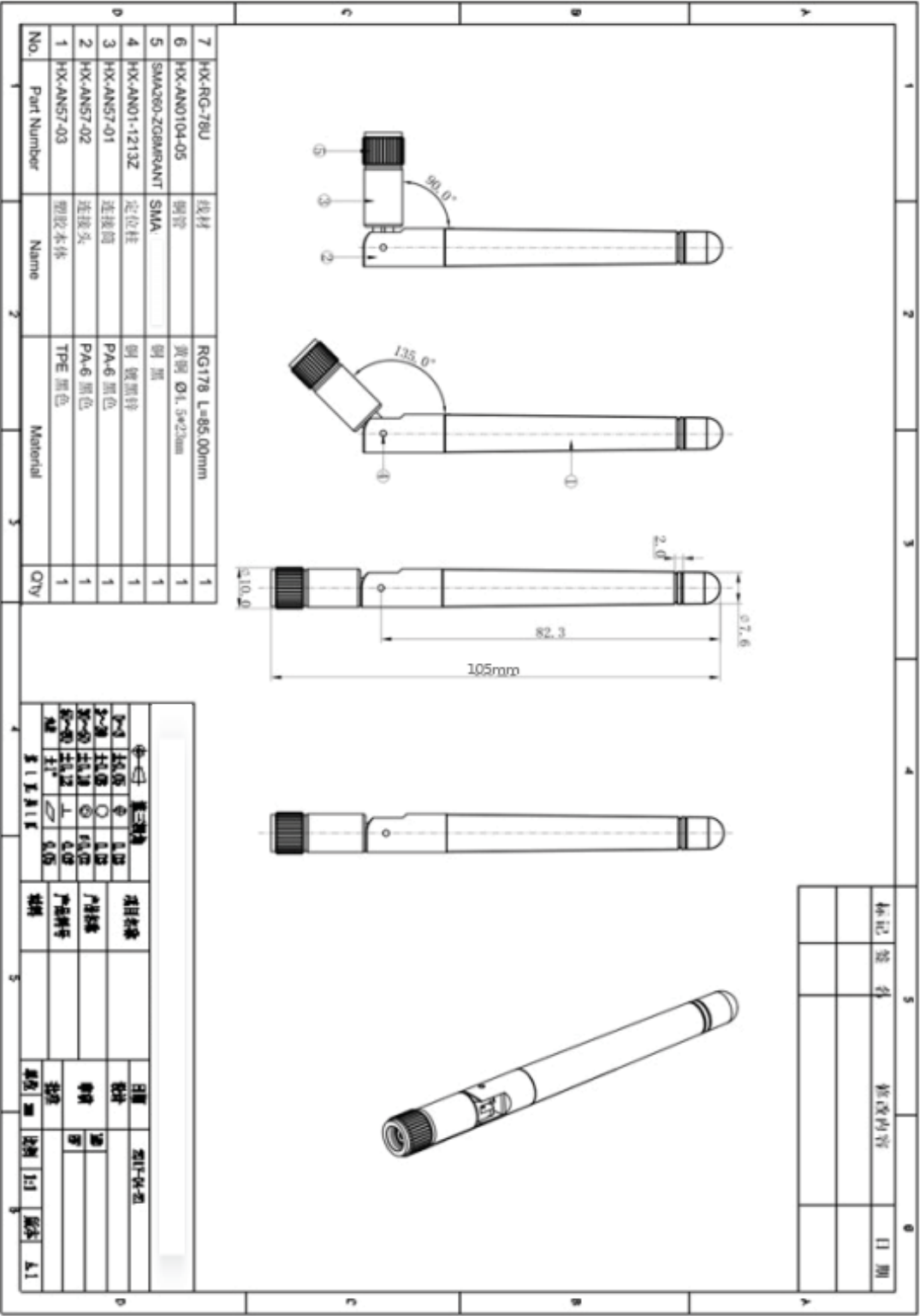
2. 产品规格 / Specification

参数 / Parameters	典型值 / Typ.	单位 / Unites	备注 / Notes
电气特性 / Electrical Characteristics			
类型 / Antenna Type	胶棒天线 / Rubber Antenna		
频率 / Frequency Range	2400-2500	MHz	
输入阻抗 / Input Impedence	50	Ω	
驻波比 / V.S.W.R	<1.5		
增益 / Gain	3.0	dBi	
极化方式 / Polarization Type	垂直 / Vertical		
功率容量 / Power Capacity	50	W	
雷电保护 / Lightning Protection	-		
工作电压 / DC Voltage	-	V	
辐射体 / Radiator	-		
机械特性 / Mechanical Characteristics			
尺寸 / Dimensions	105 x $\varnothing$ 10	mm	
接口形式 / Connector Type	SMA内螺内孔		
电缆型号 / Cable Type	-		
电缆长度 / Cable Length	-	mm	
安装方式 / Mount way	旋拧		
颜色 / Color	黑色		
材料 / Meterial	ABS		
重量 / Weight	6.22	g	
环境特性 / Environmental Characteristics			
防护等级 / Waterproof Rating	-		
ROHS标准 / ROHS Complaint	符合		
工作温度 / Operating Temperature	-45~ +85	$^{\circ}\text{C}$	
存储温度 / Storage Temperature	-45~ +85	$^{\circ}\text{C}$	

3. 实物图 / Dimensions



4. 尺寸图 / Mechanical Drawing



5. 测试设备 / Test Equipment



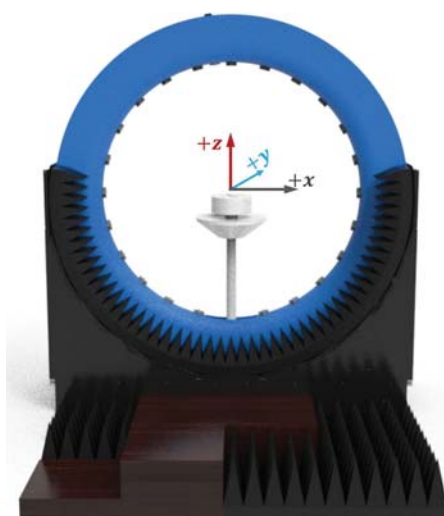
Keysight/E5071C 网络分析仪



R&S/CMW500 综测仪



R&S/SMBV100B 信号源



DT-3500 Datasheet / 系统规格

Specification:	Description
Test Frequency /测试频域:	400MHz-8.5GHz
System Size /系统尺寸:	L*W*H=4*3.5*3.5m
Number of Probes /探头数目:	23 (Probe) + 1 (link)
Interval Angle /采样夹脚:	15°
Sampling Diameter /采样直径:	2200mm
Carring Capacity /承载能力:	≤40kg

Testing Capability / 测试能力

Description / 能力描述

Active measurement
有源测试

Capability /测试指标: TRP、TIS、EIRP、EIS,. etc
Mode /测试制式: 2G/3G/4G/5G、Wi-Fi b/g/n/a/ac/ax、BT、NB-IOT、Cat-M(eMTC)、GPS/BEIDOU/GLONASS、ZigBee、LoRa(Non-Signaling),.etc

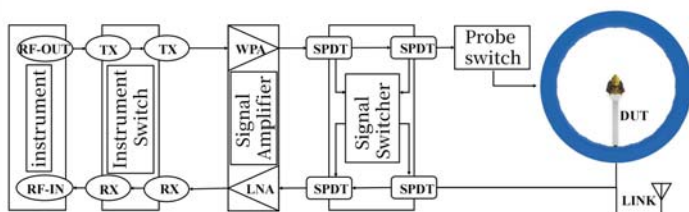
Passive measurement
无源测试

Test category /测试类型: Gain、Efficiency、2D pattern、3D pattern、Pattern roundness、Axial Ratio、ECC、Phase center,. etc
Polarization /极化方式: Circular polarization, linear polarization, elliptical polarization

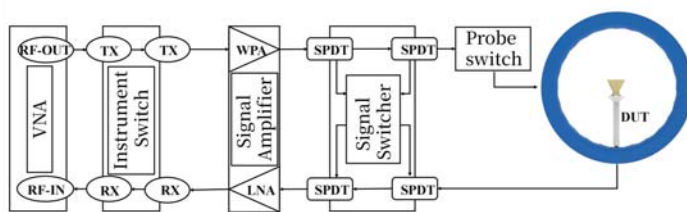


RF Link diaram of multi probe spherical near-field testing system 多探头球面近场测试系统射频链路图

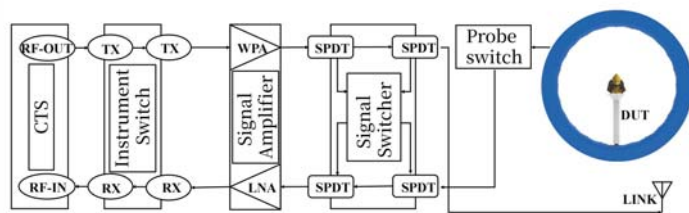
RF Link Overview
总射频链路图



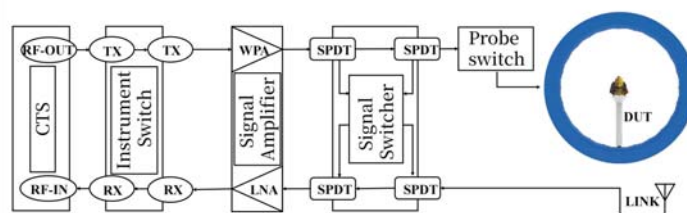
RF Link of Passive measurement
无源测试链路图



RF Link Overview
总射频链路图

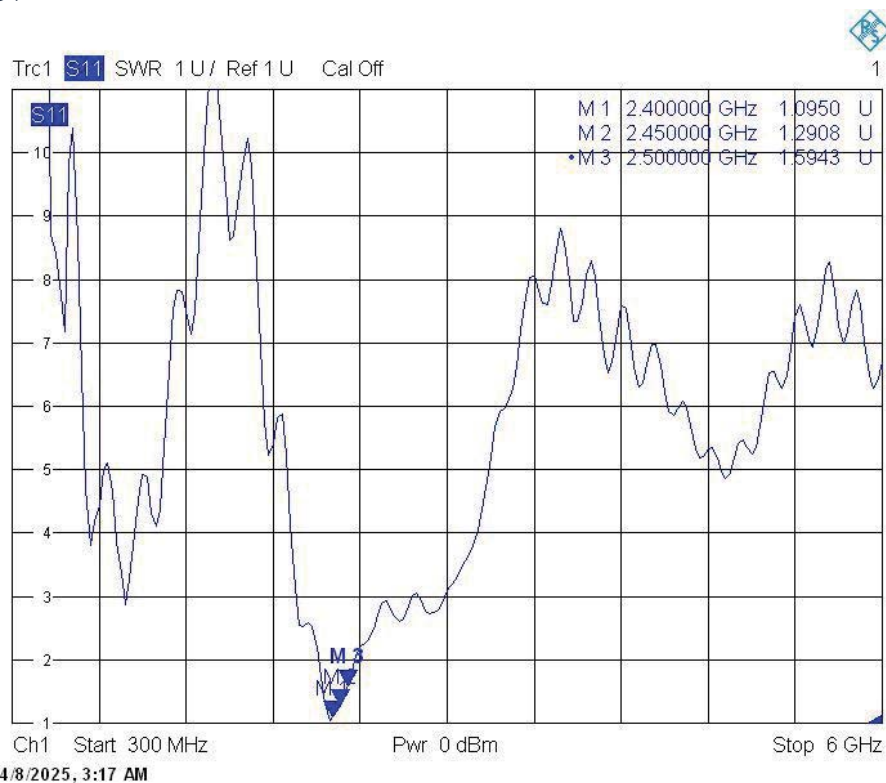


RF Link of Passive measurement
无源测试链路图

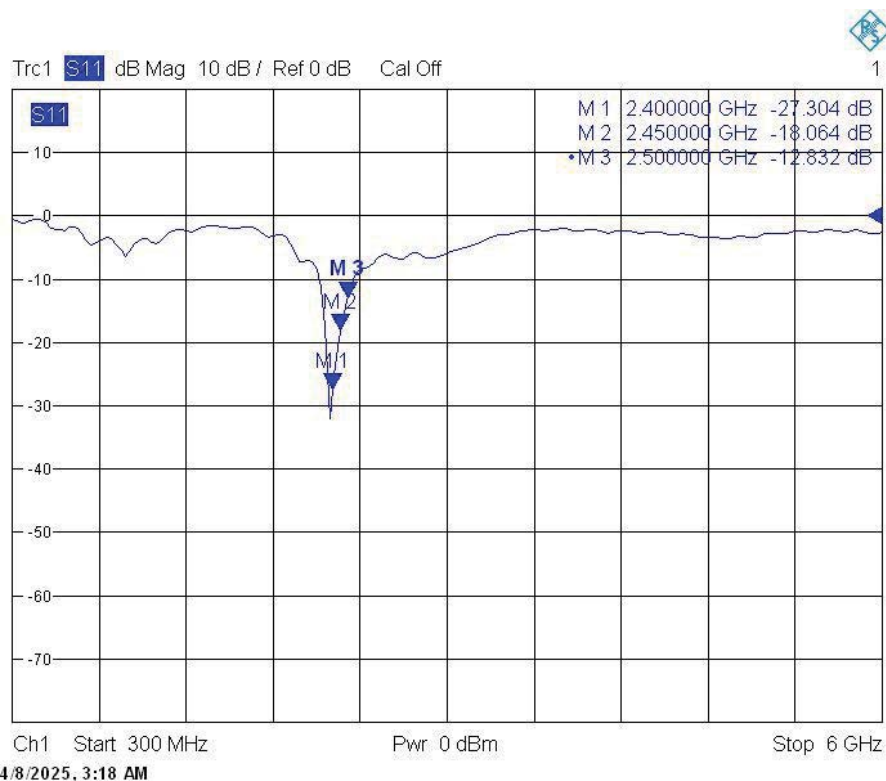


6. 性能数据 / Performance Data

6.1 电压驻波比 / VSWR

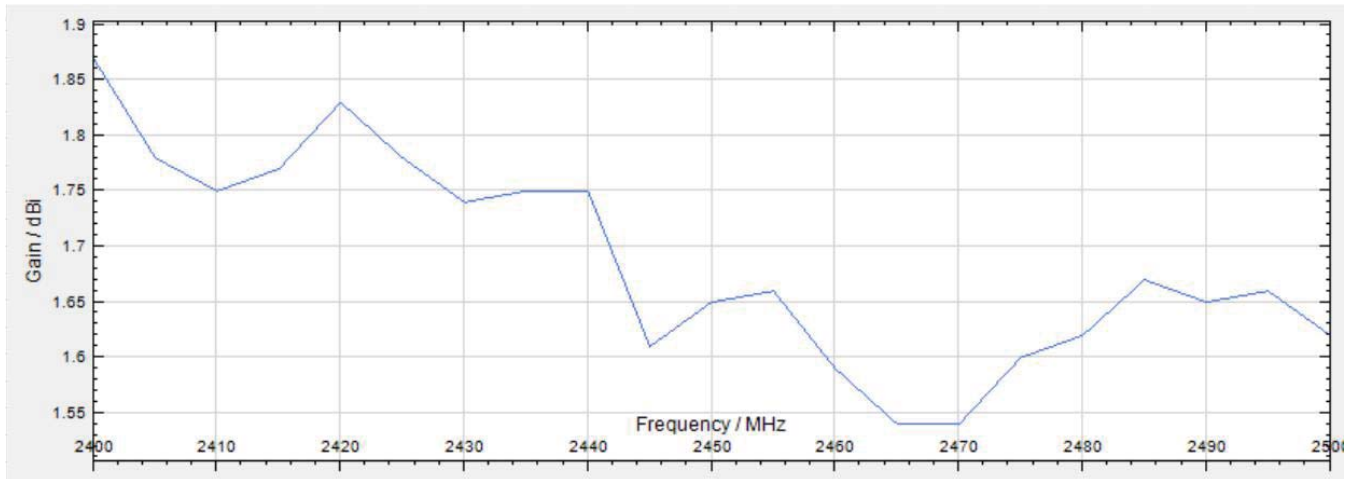


6.2 回波损耗 / Return Loss

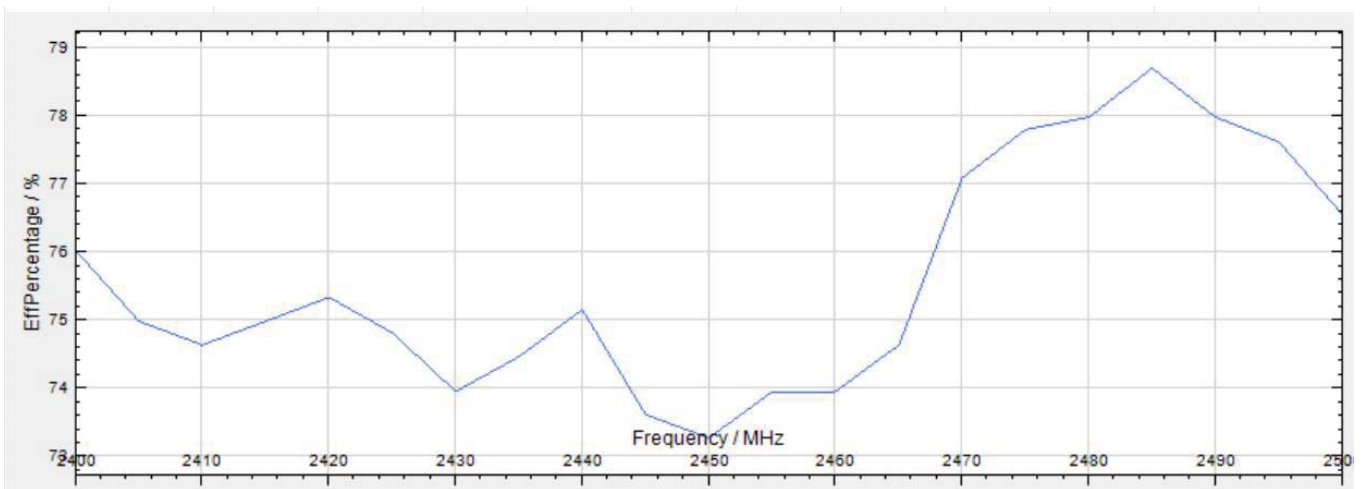


6. 性能数据 / Performance Data

6.3 增益 / Gain



6.4 效率 / Efficiency



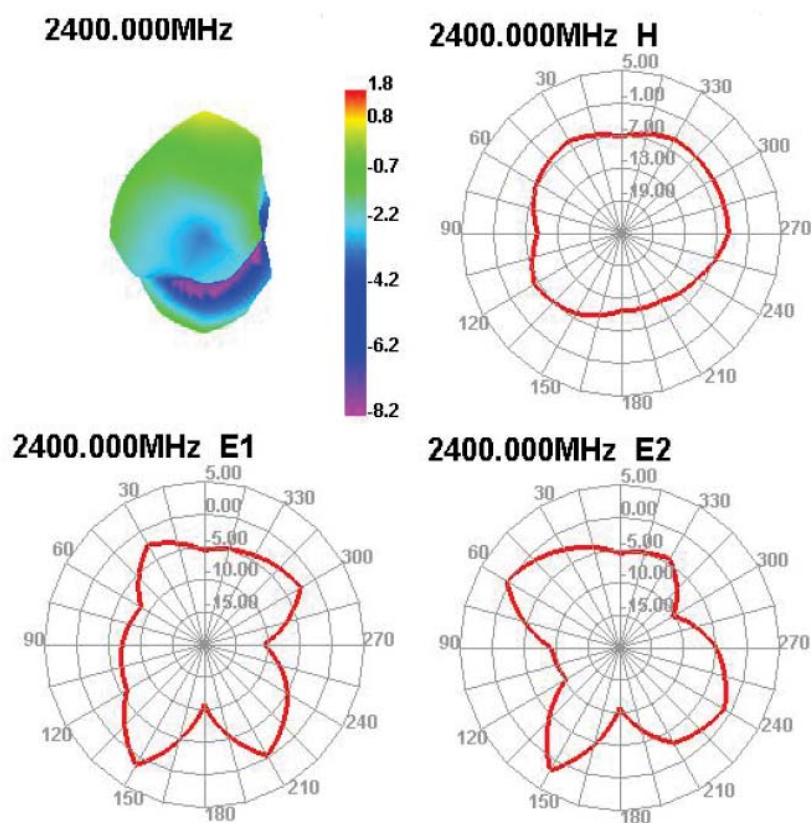
6.5 天线增益与效率

7. 辐射模式 / Radiation Patterns

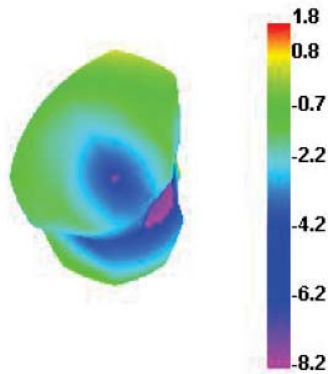
无源数据

Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.26	1.77
2410	46.04	1.15
2420	52.73	1.88
2430	55.5	2.17
2440	60.99	3.00
2450	53.24	1.8
2460	48.66	1.56
2470	49.38	1.5
2480	46.48	1.15
2490	54.5	1.64
2500	57.36	2.04

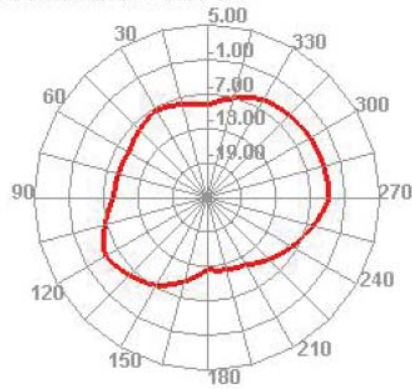
3D 方向图



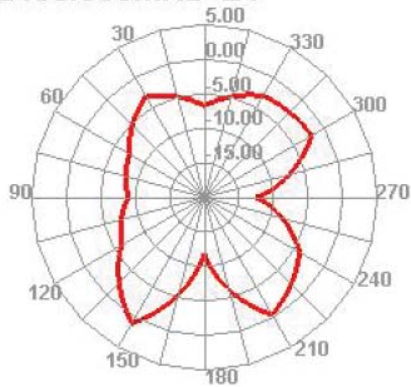
2450.000MHz



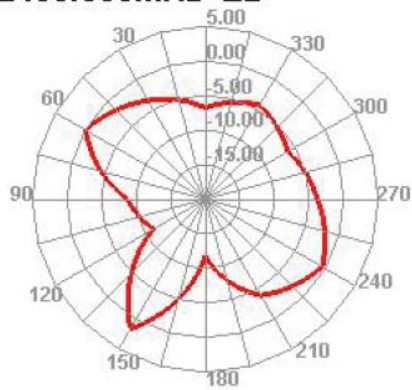
2450.000MHz H



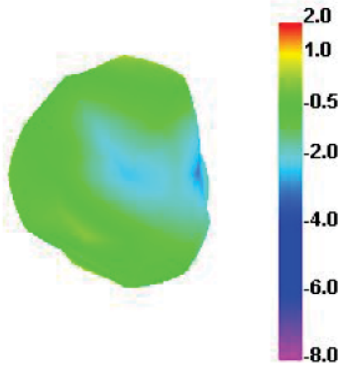
2450.000MHz E1



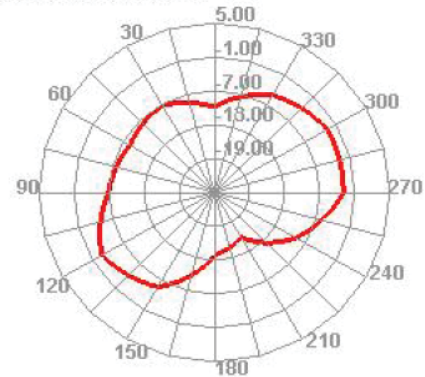
2450.000MHz E2



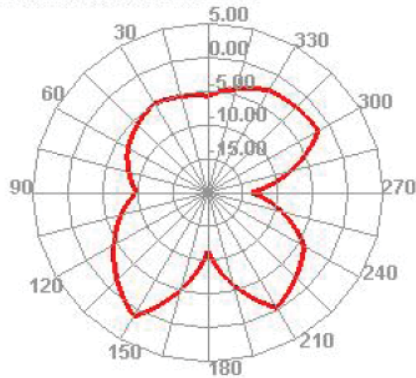
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

