

深圳有力科技有限公司  
ShenZhen Powerful Technology CO., Limited

規格承認書  
SPECIFICATION FOR APPROVAL

客 户  
CUSTOMER: 安特源  
客户料号  
CUSTOMER NO: P6N  
品 名  
PART NAME: 出线式胶棒2.4GHz天线: 1代端子/1.13白线 L=120MM/白色胶棒总长80MM (配天线卡扣)  
供方料号  
SUPPLIER NO: YL1499-W-120-2.4GHz

日期 Date: 2023.03.22

版本: V2.0

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
赵旋旋	陈娜	张权

## 实验室测试环境及设备



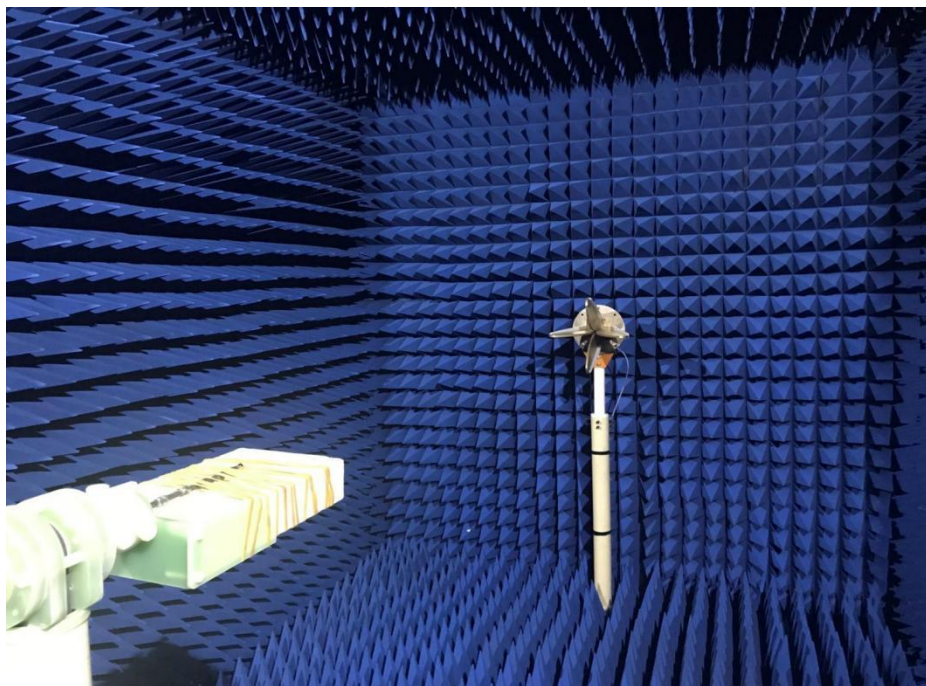
CMW500



E5071B



Aglient 8960



**测试项目** (Test Project) : S11、S12 、VSWR 、Efficiency、Gain 3D Radiation Pattern 、TRP、TIS

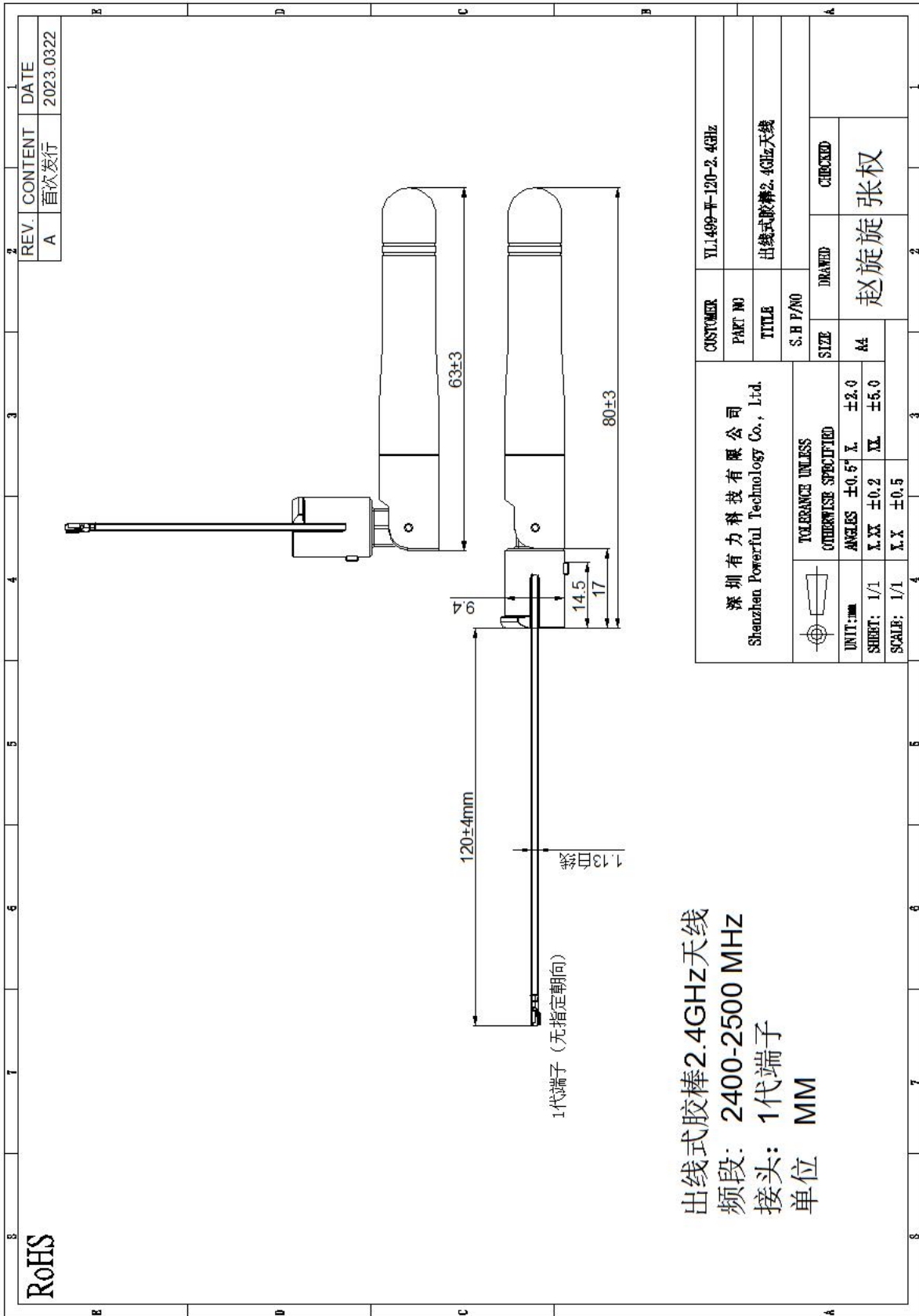
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1. 工程图纸 (Mechanical Drawing)





## 2. 技术指标 (Technical Index)

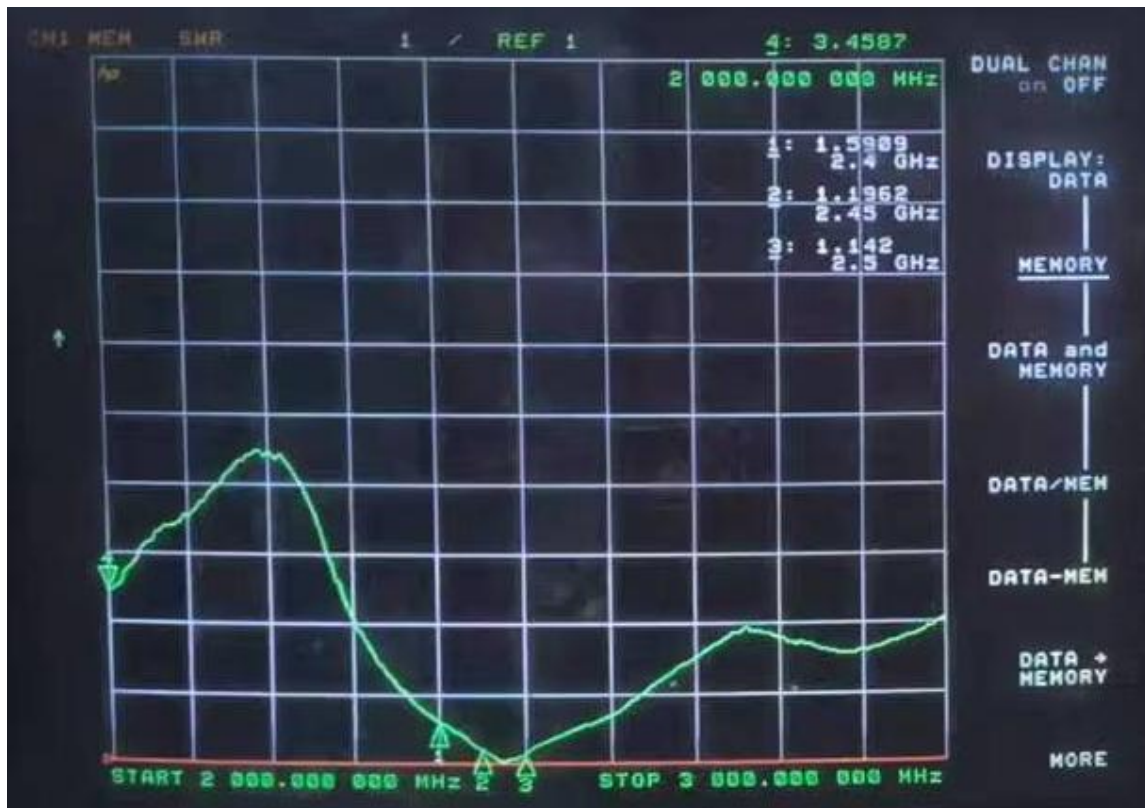
### WIFI天线

频率范围 Frequency Range (MHz)	2400MHz-2500MHz
增益 Gain (dBi)	MAX 2.0dBi
驻波比 VSWR/50 Ohms	≤2.0
输入阻抗 Impedance	50 Ω
天线方向 direction	全向
外壳材质 texture of wood	ABS
接头类型 Connector type	1代端子
线材 Cable	1.13白线 L=180mm
工作温度 (°C)	-40°C~+80°C

### 3. 天线测试数据 (Antenna test data)

#### 3-1 天线网分测试结果

#### SWR测试结果



频率 (MHz)	VSWR
2400Mhz	1.59
2450Mhz	1.19
2500Mhz	1.42

回损测试结果



频率 (MHz)	Returnloss
2400Mhz	-12.83
2450Mhz	-20.98
2500Mhz	-23.56



## Smith Chart



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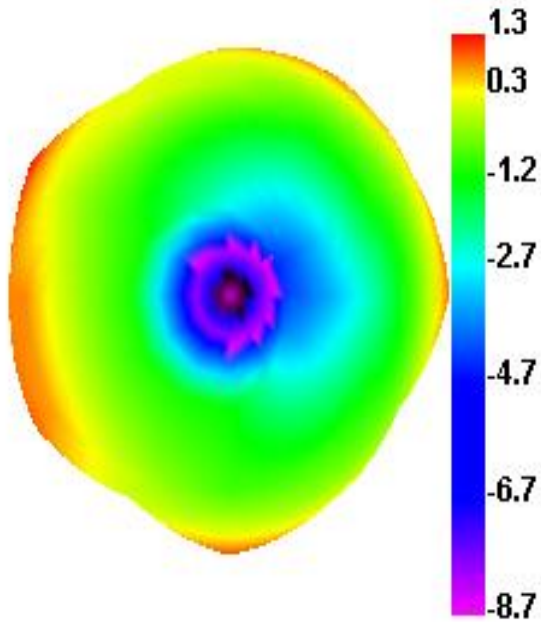
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## 3-2 效率/增益

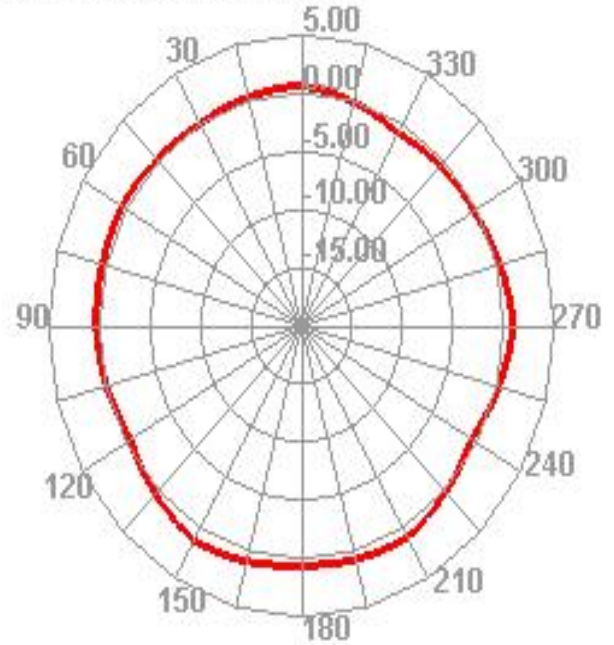
Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	69.64	1.28
2405	70.41	1.31
2410	68.73	1.19
2415	67.6	1.08
2420	68.37	1.07
2425	67.22	1.05
2430	63.77	1.02
2435	65.57	1.08
2440	68.25	1.04
2445	68.61	1.11
2450	69.95	1.21
2455	70.29	1.27
2460	71.38	1.33
2465	71.11	1.28
2470	69.23	1.14
2475	69.8	1.21
2480	70.3	1.66
2485	71.03	2.04
2490	71.84	1.98
2495	70.47	1.81
2500	70.87	1.78

3-3 3D方向图

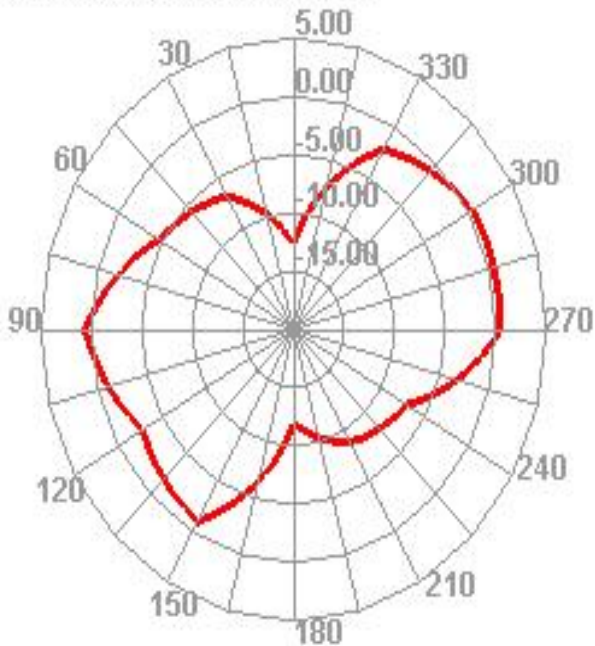
2400.000MHz



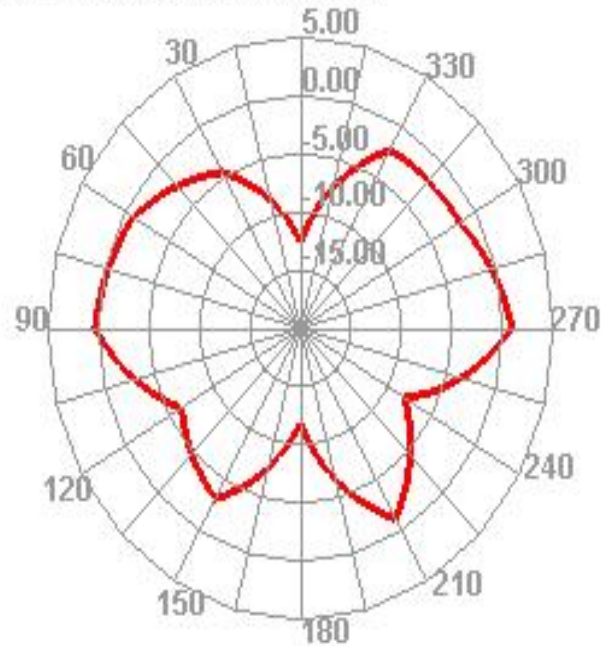
2400.000MHz H



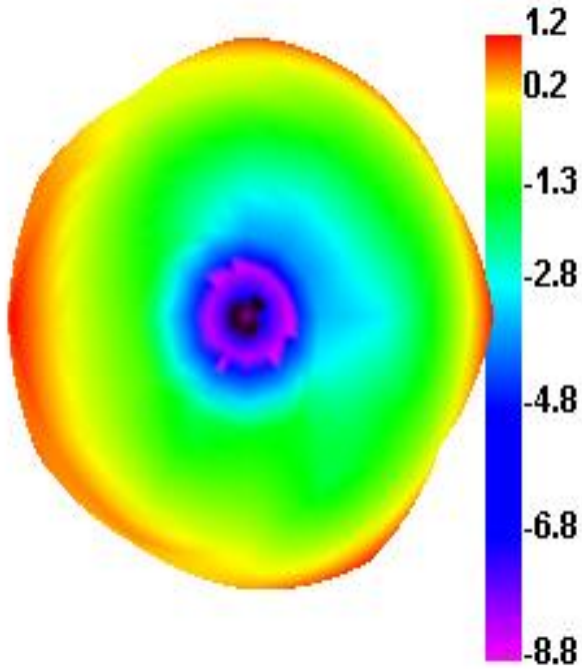
2400.000MHz E1



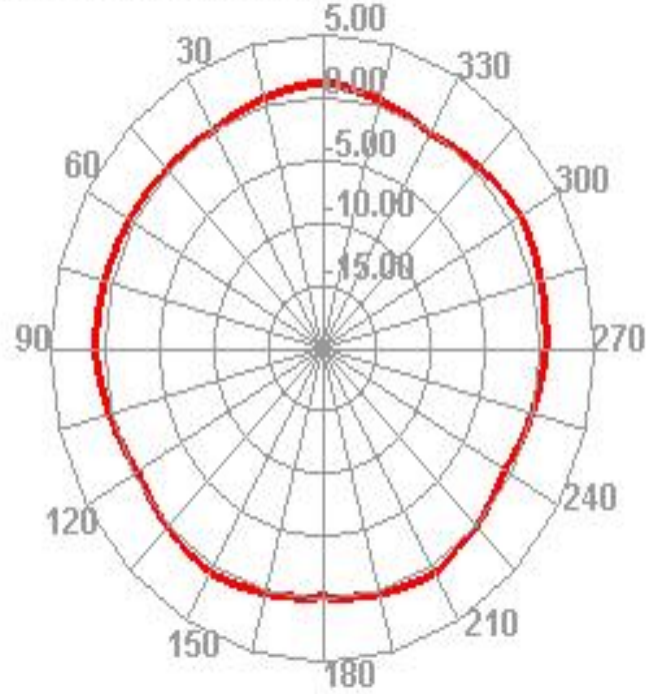
2400.000MHz E2



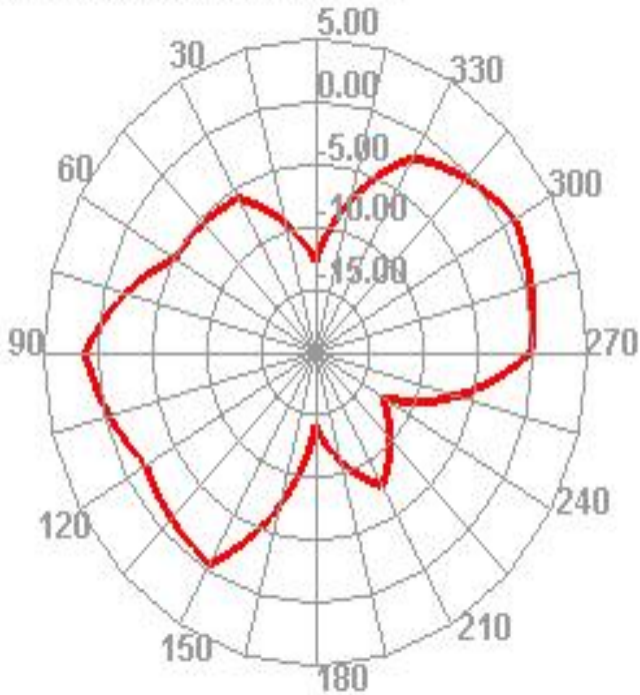
### 2450.000MHz



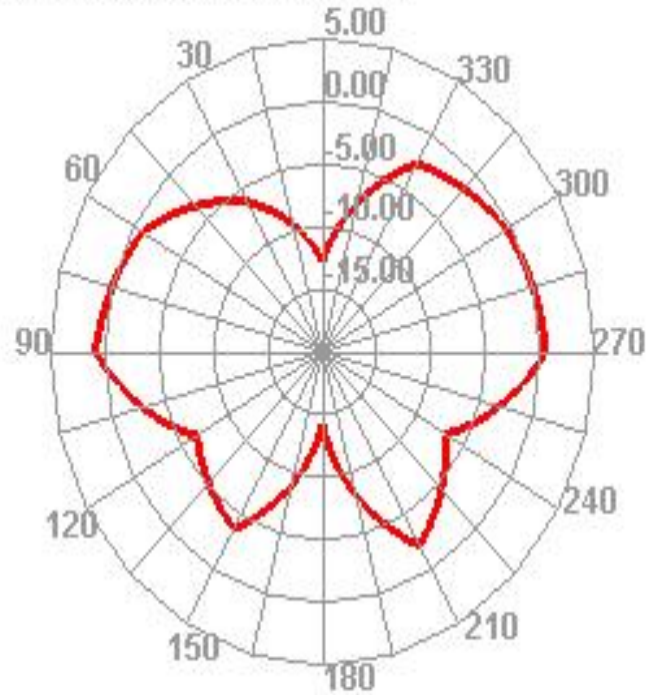
### 2450.000MHz H



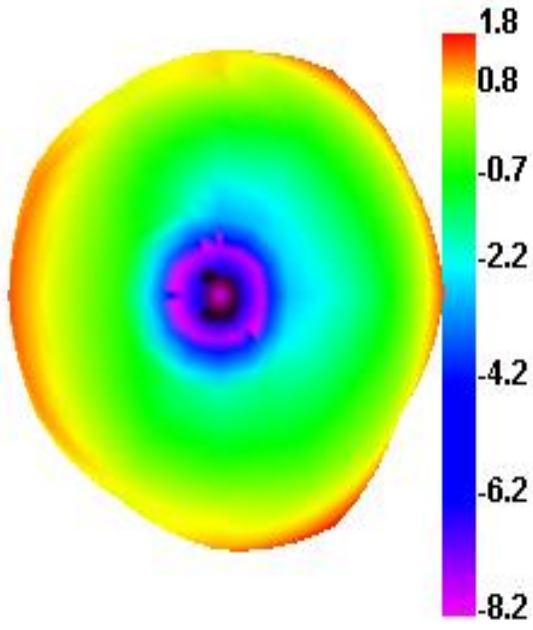
### 2450.000MHz E1



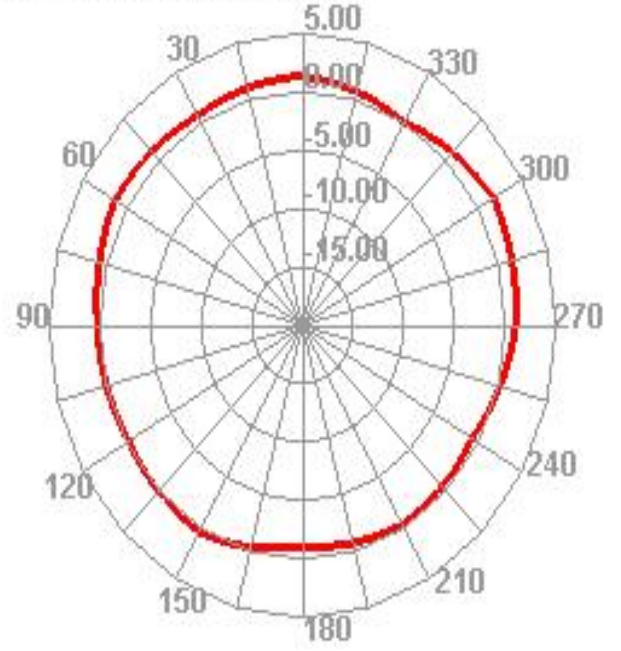
### 2450.000MHz E2



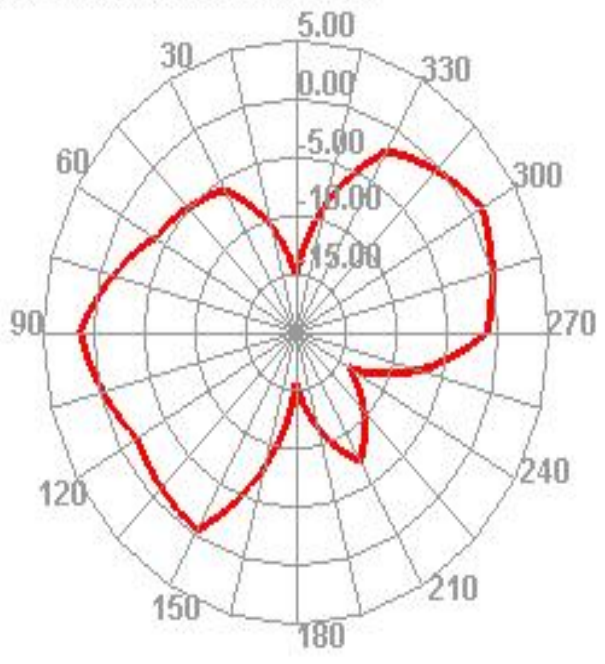
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

