

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: Hengtai

客 户 料 号

CUSTOMER NO:

品 名

PART NAME: Outgoing rubber rod 2.4GHz antenna: 1st generation terminal /1.13 white wire L=370MM/
total length of white rubber rod 80MM (with antenna clip)

供 方 料 号

SUPPLIER NO: IPEX-GB-P6N-370

日期 Date: 2025.3.18

Version : V1.0

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
Zhao Xuanxuan	Chen Na	Zhang Quan

Laboratory testing environment and equipment



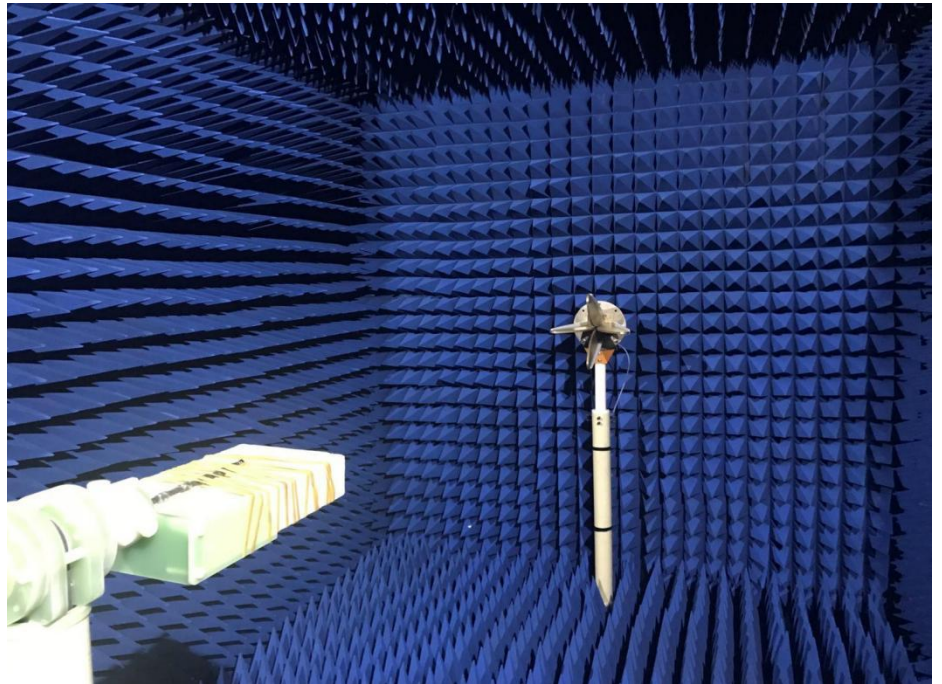
CMW500



E5071B



Aglient 8960



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

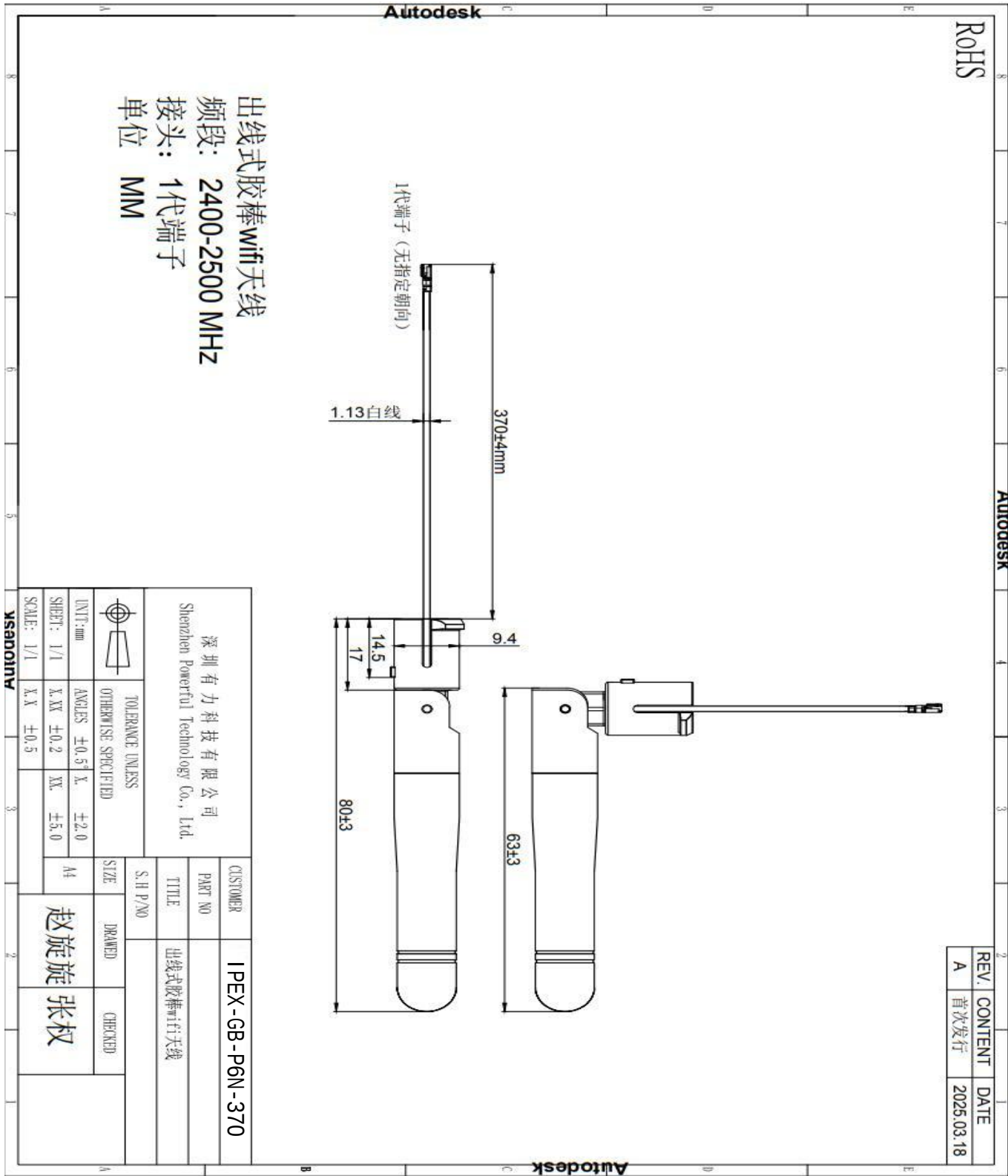
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1. 工程图纸（Mechanical Drawing）





2. 技术指标（Technical Index）

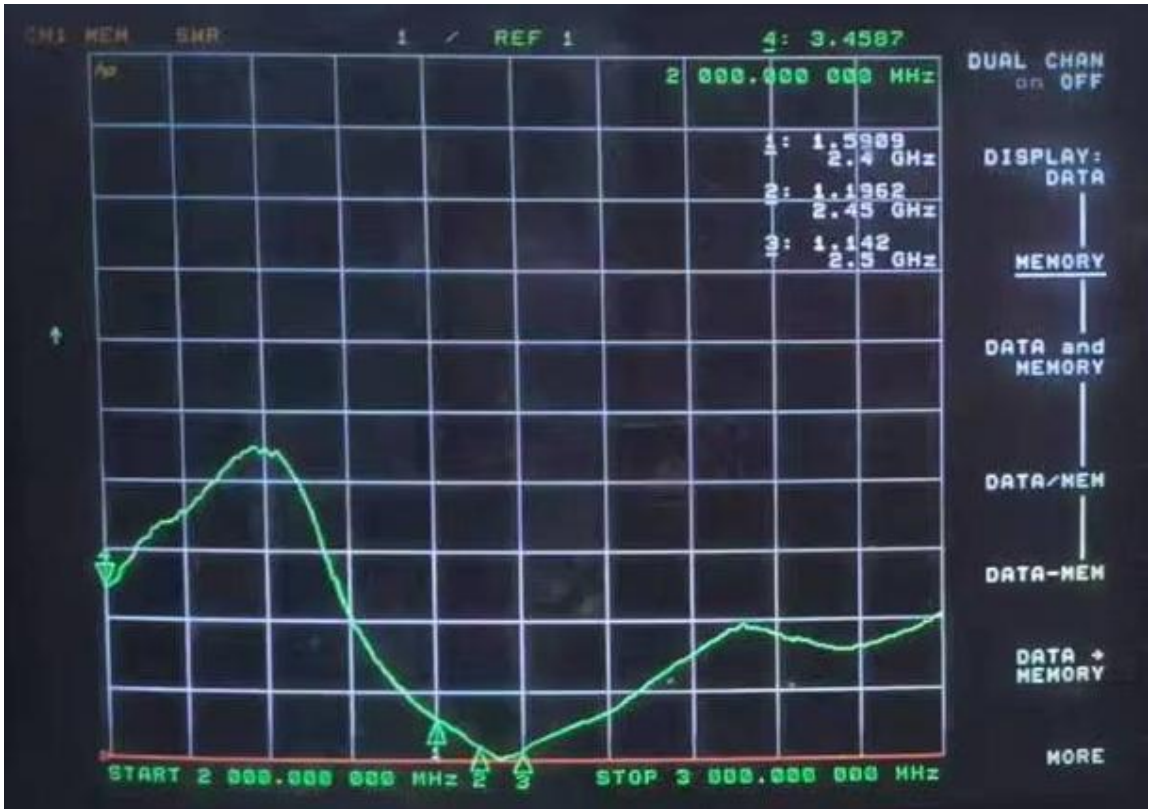
WIFI天线

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	Omnidirectional
外壳材质 texture of wood	ABS
接头类型 Connector type	First-generation terminal
线材 Cable	1.13 wite line L=370mm
工作温度 （℃）	-40℃~+80℃

3. Antenna test data (Antenna test data)

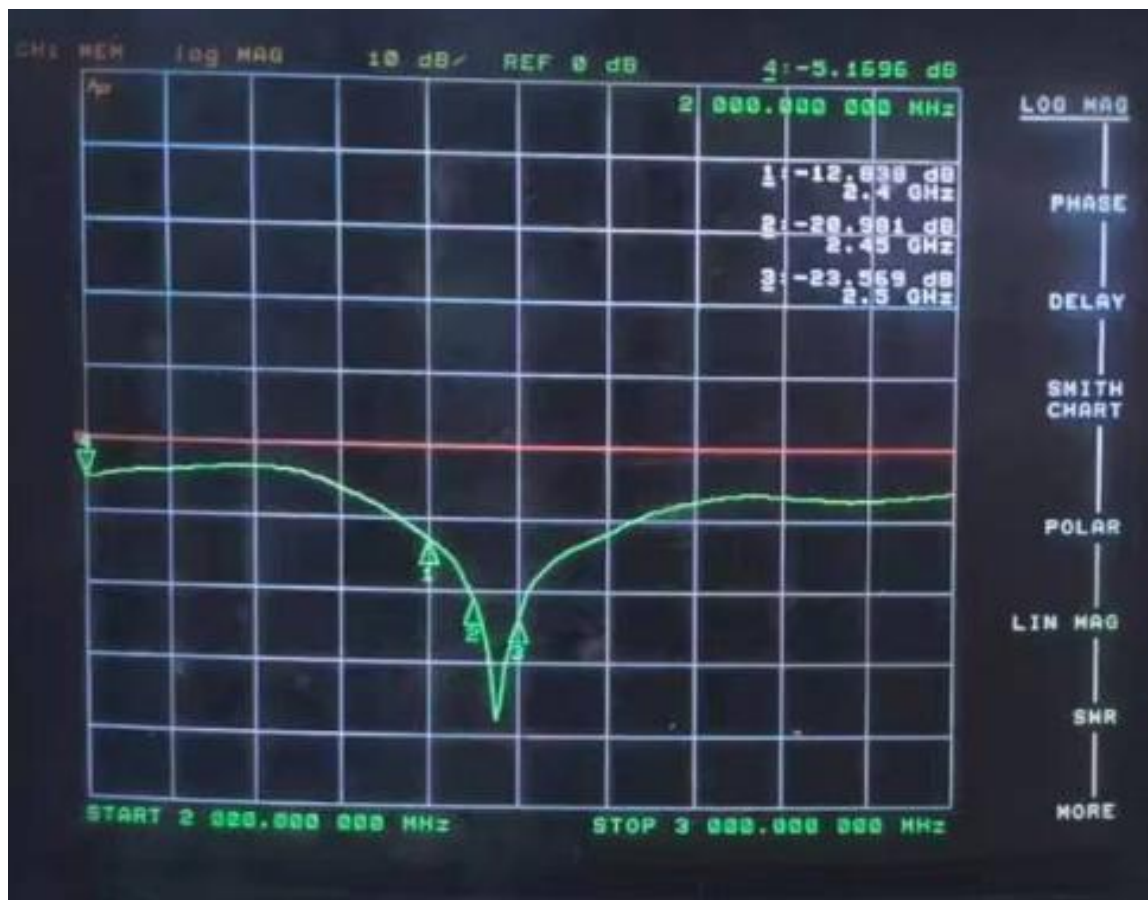
3-1Antenna network sub-test results

SWR Test results



Frequency (MHz)	VSWR
2400Mhz	1. 59
2450Mhz	1. 19
2500Mhz	1. 42

Return loss test results



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

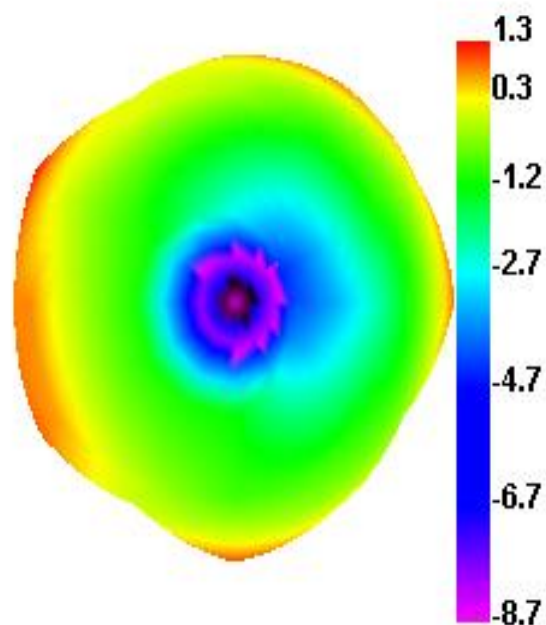
Smith Chart



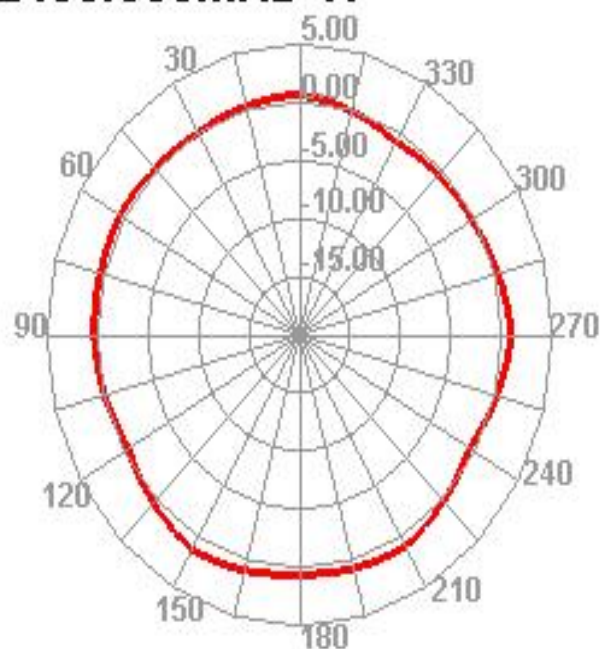
Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	69.64	1.28
2405	70.41	1.31
2410	68.73	1.19
2415	67.6	1.08
2420	68.37	1.07
2425	67.22	1.05
2430	63.77	1.02
2435	65.57	1.08
2440	68.25	1.04
2445	68.61	1.11
2450	69.95	1.21
2455	70.29	1.27
2460	71.38	1.33
2465	71.11	1.28
2470	69.23	1.14
2475	69.8	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

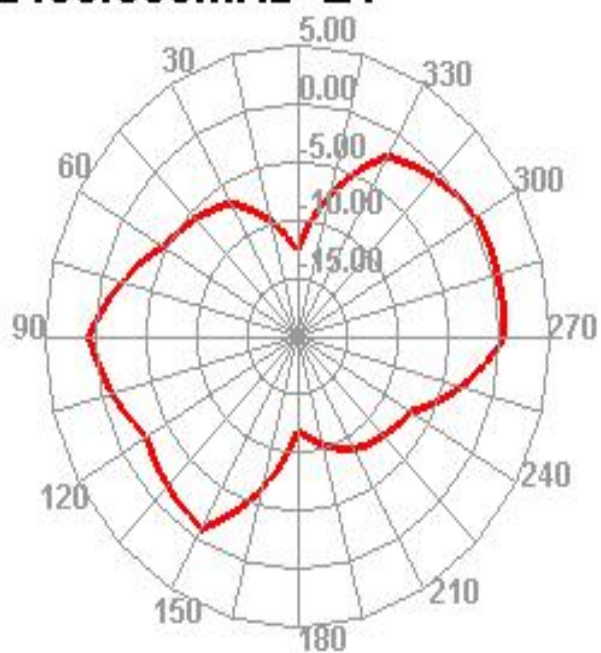
2400.000MHz



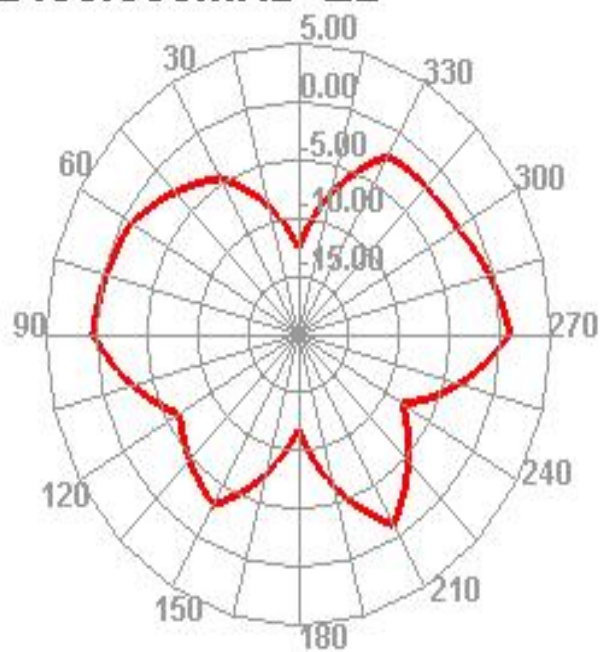
2400.000MHz H



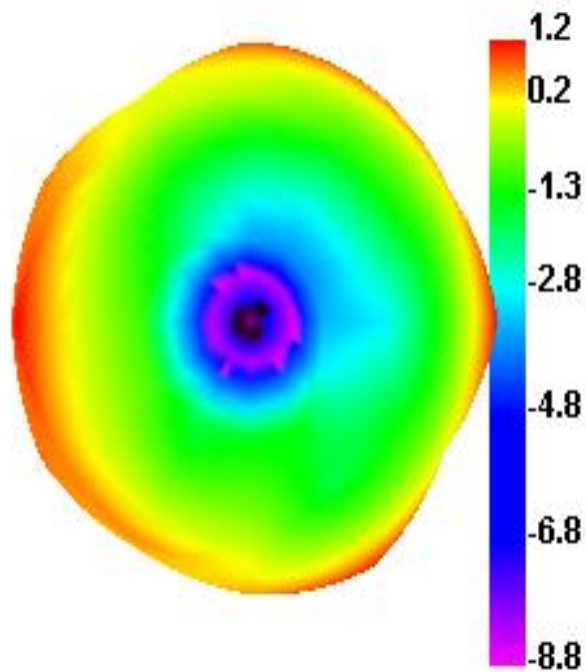
2400.000MHz E1



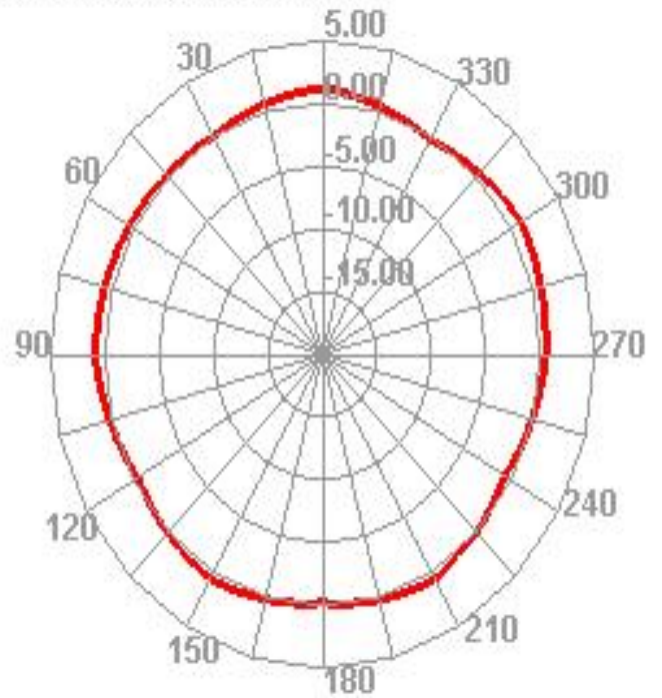
2400.000MHz E2



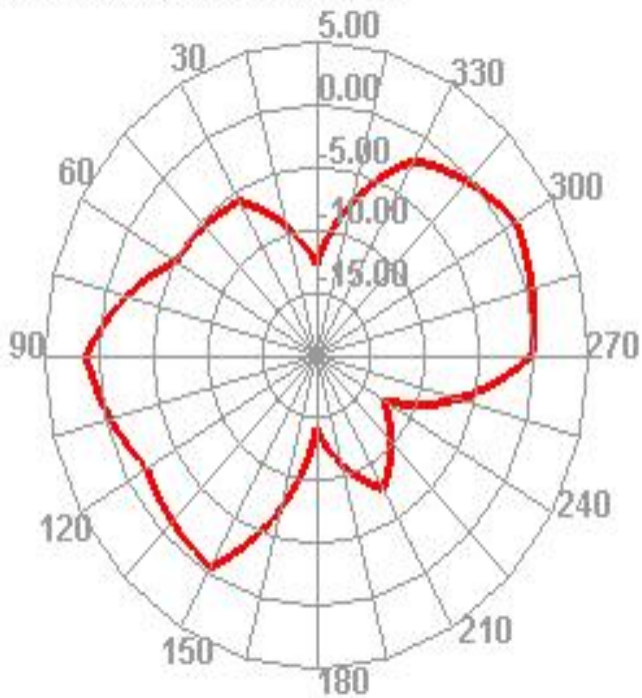
2450.000MHz



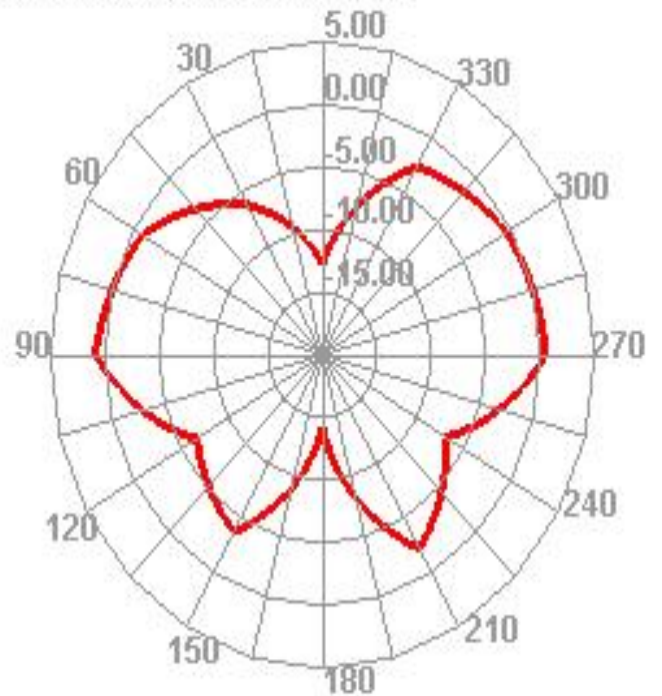
2450.000MHz H



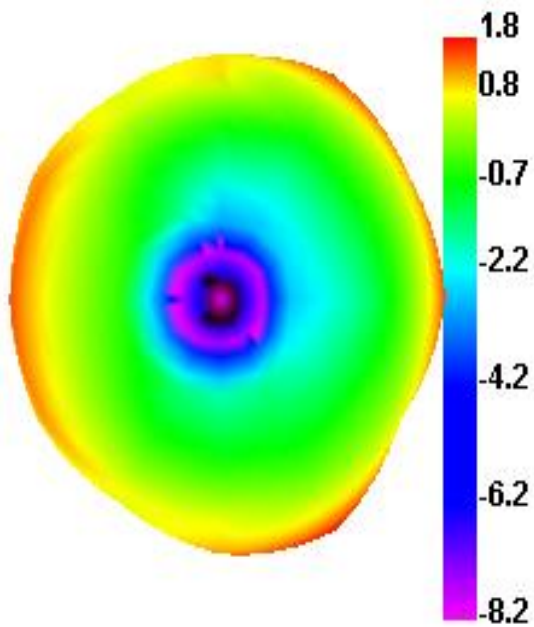
2450.000MHz E1



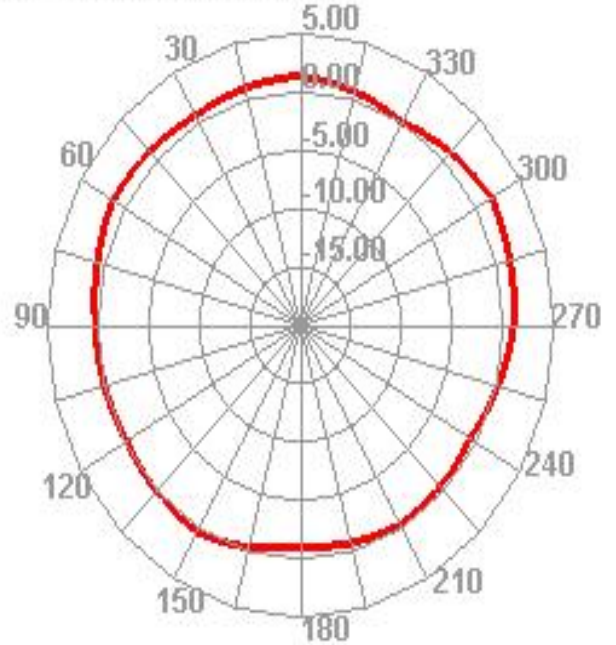
2450.000MHz E2



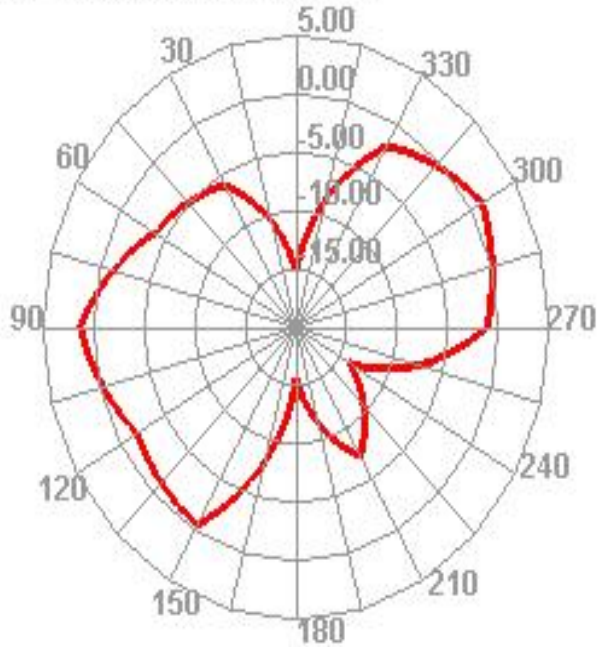
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

