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东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME: EASTECH

产 品 名 称

PRODUCT NAME: 2.4G Antenna L=45mm

客 户 料 号

CUSTOMER P/N:

仁 丰 料 号:

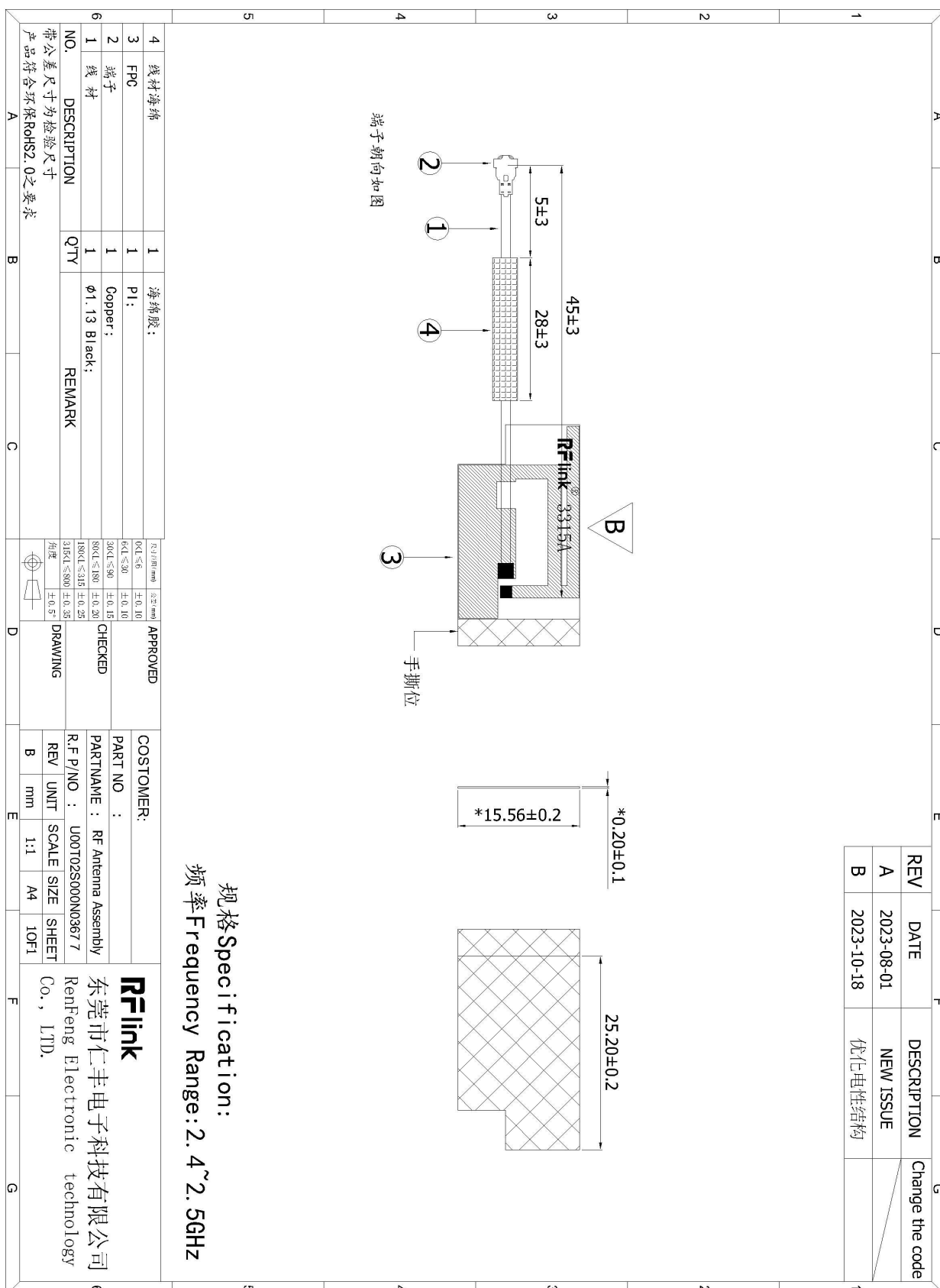
Ren Feng P/N: U00T02S000N03677 REV: B

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	黄 磊	
AUDITOR BY:	刘小林	
APPROVED BY:	姚定军	
DATE:	2023-10-19	

Specification

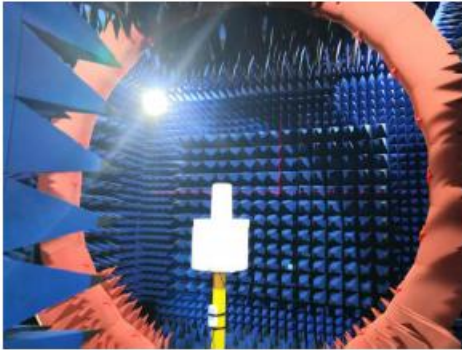
主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	≤ 4.45	Peak Gain(dBi)	≤ 4.45
输出电压 驻波比	≤ 2.0	VSWR	≤ 2.0
方向性	全向性	Radiation	Omni-directional
连接方式	端子	Connector Type	MHF Plug
物理性能		Physical Properties	
天线外套材料	FPC	Antenna cover	PI
工作温度	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$

三、成品图：



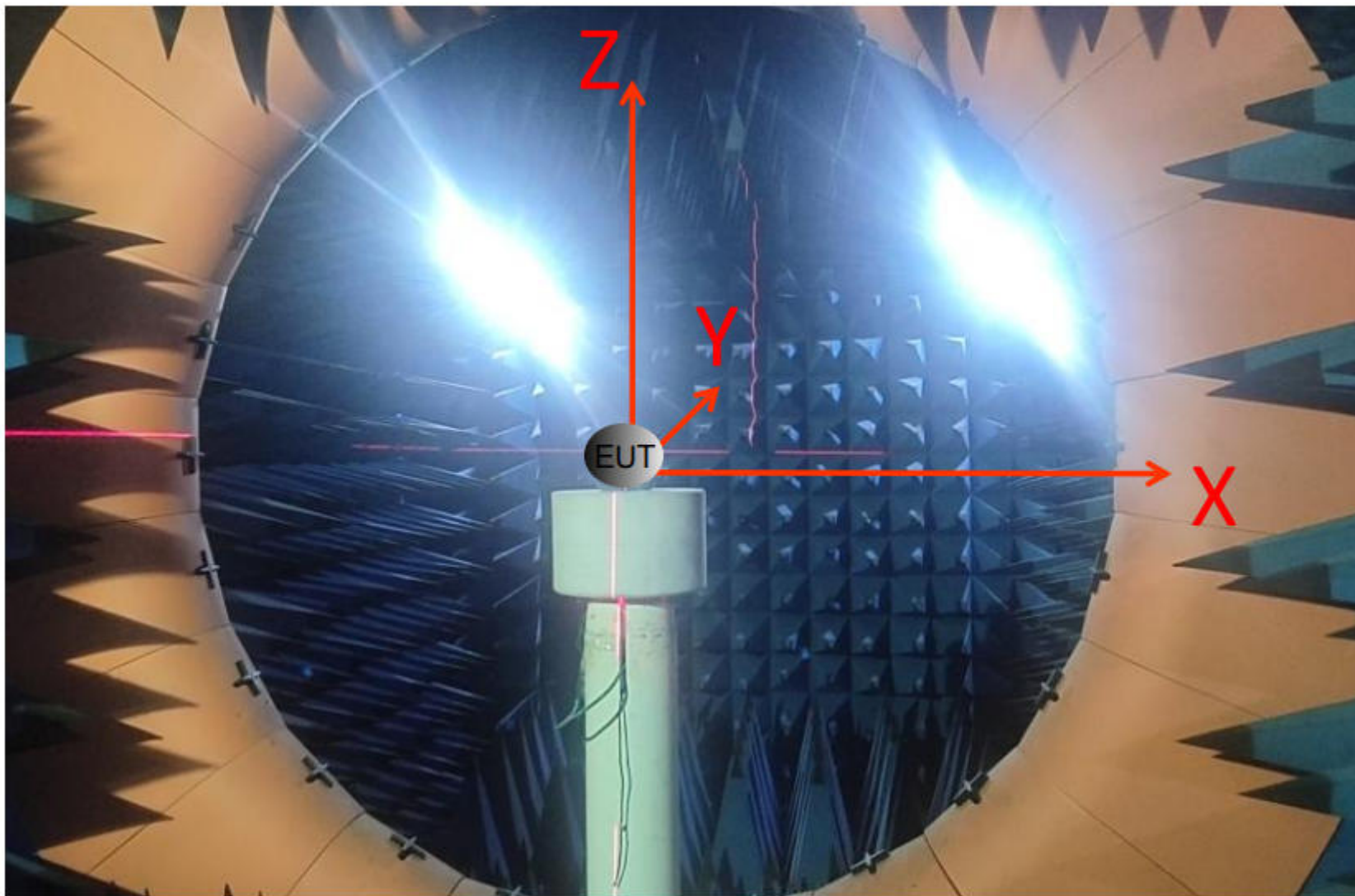
测试设备 (Test Equipment)

◆ 测试设备 (Test Equipment)

设备 (Equipment)	型号 (Type)	照片 (photo)
微波暗室 Microwave anechoic chamber	SATM:4M*3M*3M	
综合测试仪 (Comprehensive tester)	R&S CMW500	
网络分析仪 (Network Analyzer)	KEYSIGHT E5063A	

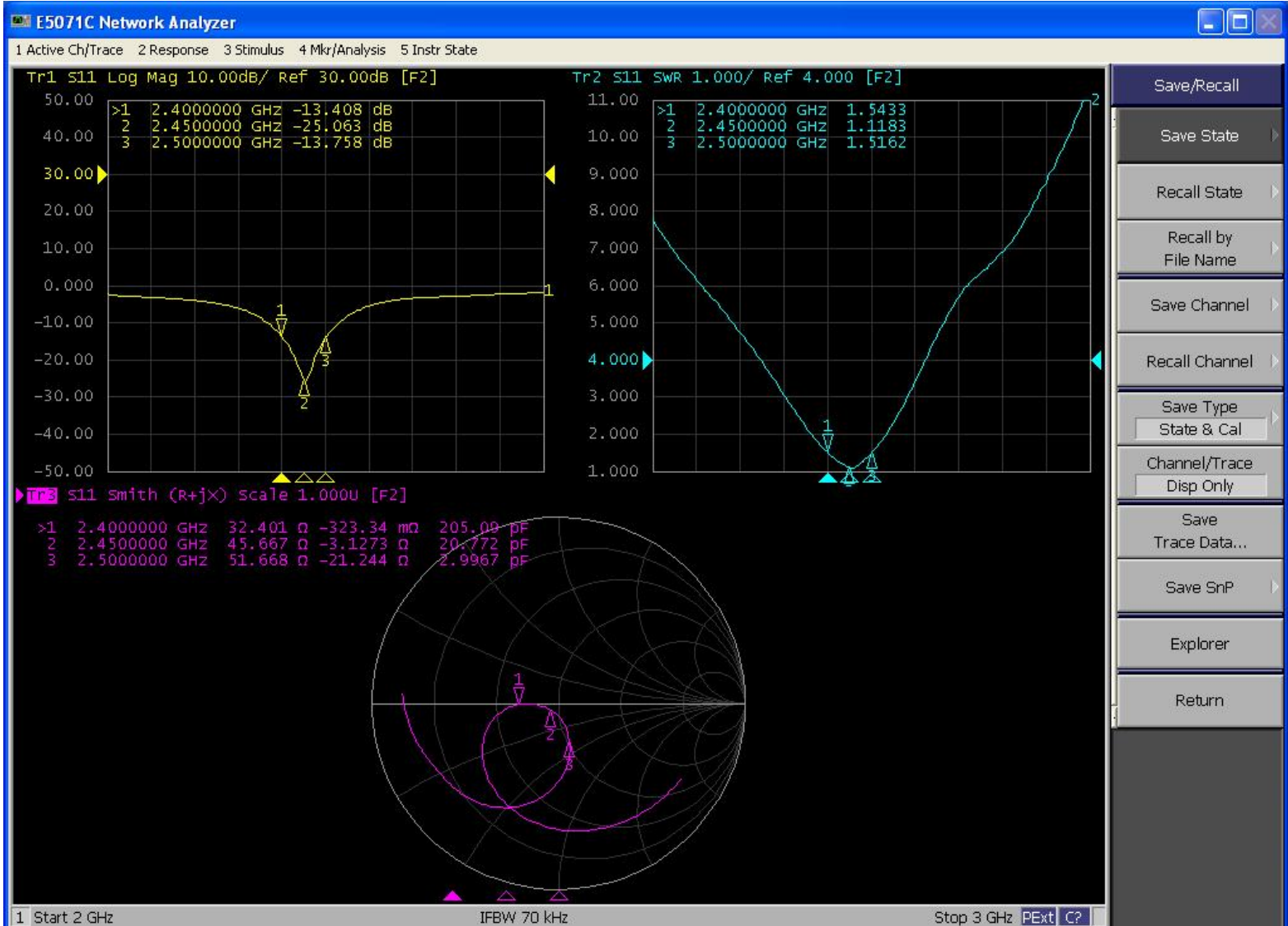
实际测试图片 (test photo)

◆ 实际测试图片 (test photo)



无源S11 (Passive S11)

◆ 无源S11 (Passive S11)



Freq	Return Loss	VSWR
2400	-13.41	1.54
2450	-25.06	1.12
2500	-13.76	1.52

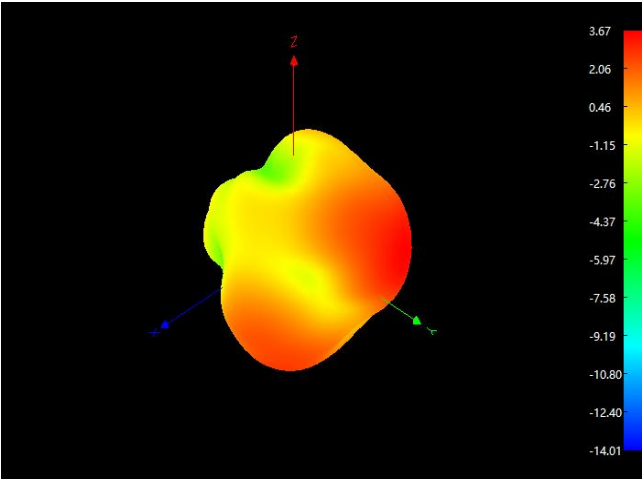
无源效率、增益测试报告 (Passive efficiency and gain test report)

◆ 无源效率、增益测试报告 (Passive efficiency and gain test report)

Freq	(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Effi	(%)	58.21	59.7	59.29	59.16	61.52	62.52	59.57	57.02	57.28	54.95	52.48
Gain	(dBi)	3.67	3.81	3.82	3.75	3.98	4.06	4.01	4.00	4.22	4.41	4.45

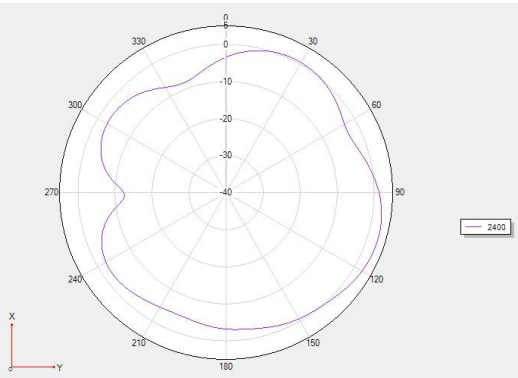
辐射方向图 (Radiation pattern)

◆ 辐射方向图 (Radiation pattern)

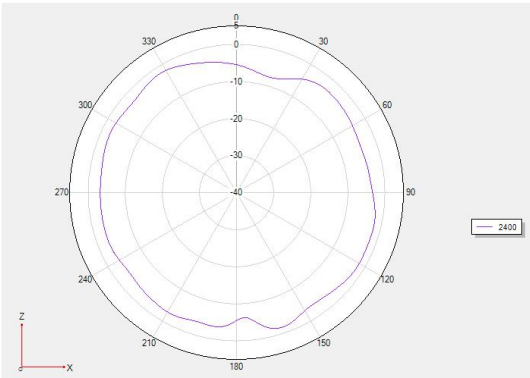


2400MHz

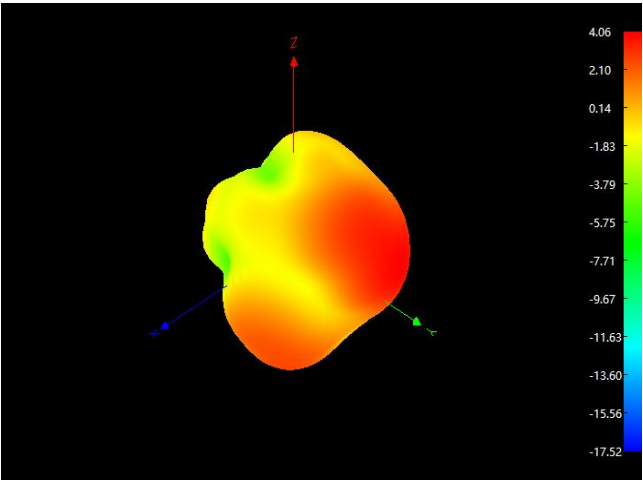
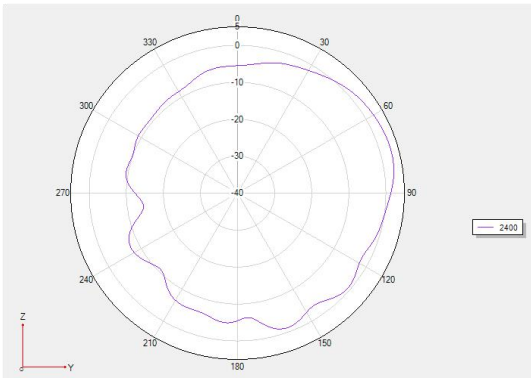
H面



E1面

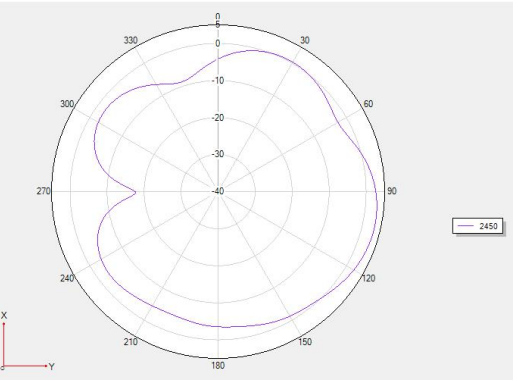


E2面

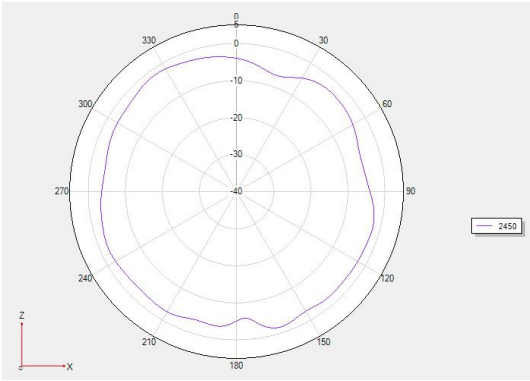


2450MHz

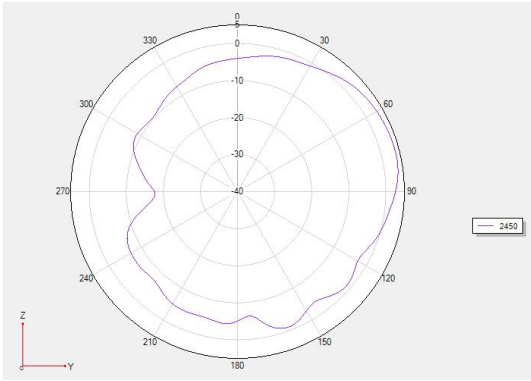
H面



E1面

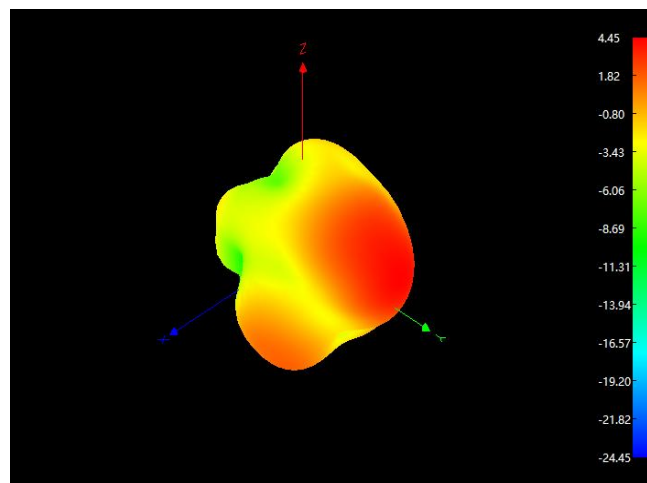


E2面



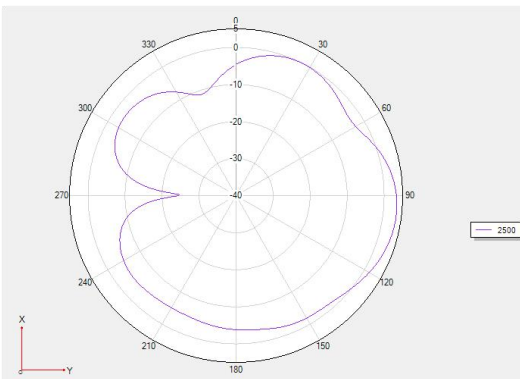
辐射方向图 (Radiation pattern)

◆ 辐射方向图 (Radiation pattern)

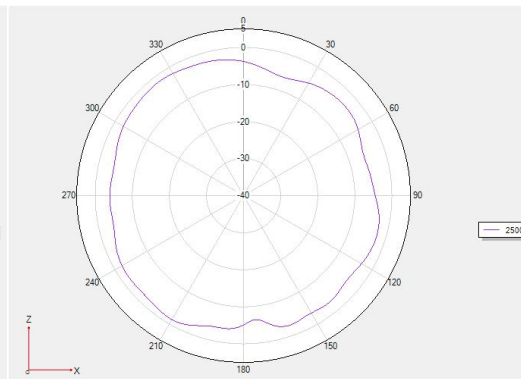


2500MHz

H面



E1面



E2面

