东莞市唯新实业有限公司

Dongguan Weixin Industry Co., Ltd

天线规格书

Antenna specifications

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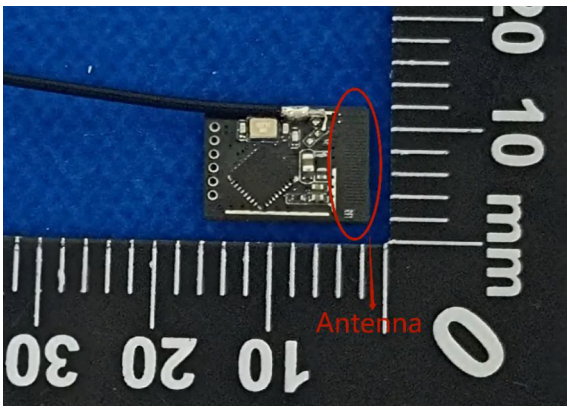
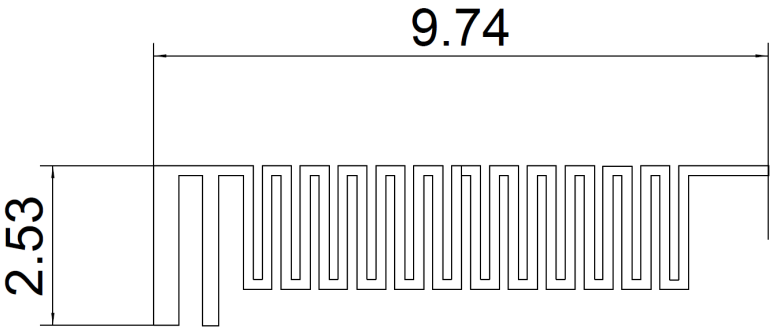
一.产品图片,尺寸（Product pictures, size）





二、产品参数（Product Parameters）

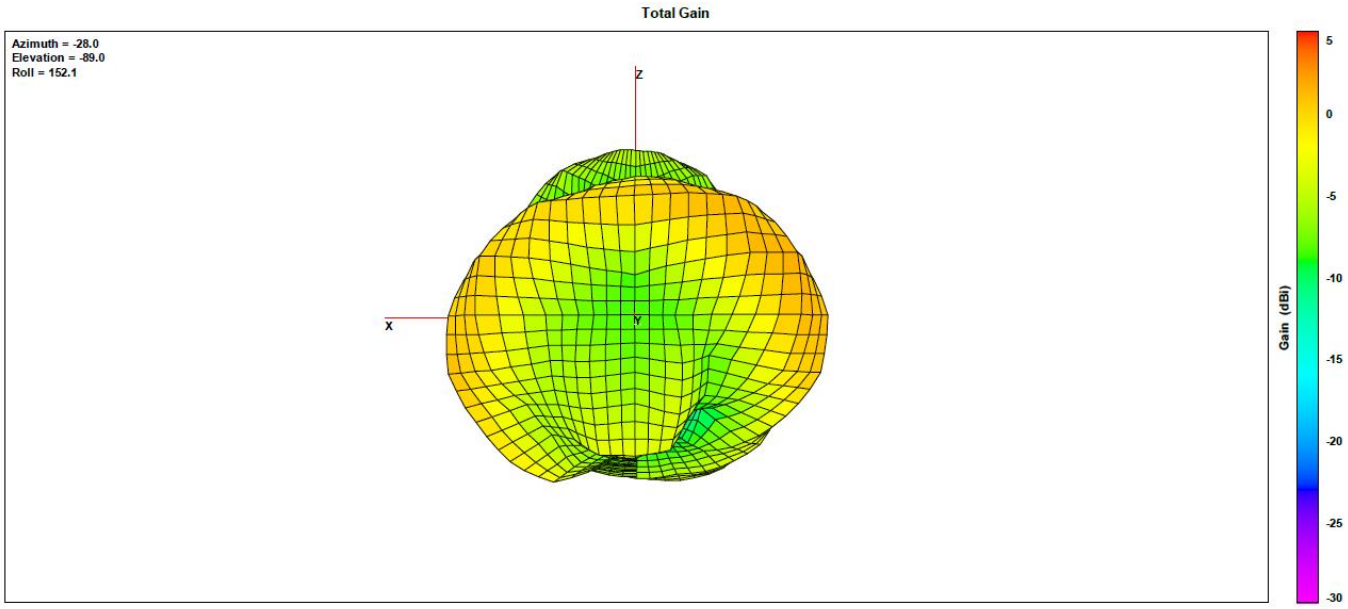
产品测试参数（Product test parameters）			
产品名称(Name)	内置天线（Internal antenna）	产品型号(Model Type)	MD US02A-V1.01
电 性 能 指 标 (Electrical Specifications)			
频率范围（Frenquency Range)	2400-2500MhZ	极化方式 （Polarization）	垂直（vertical）
输入阻抗(Impedance)	50 Ω	辐射方向（Radiation direction）	全向（Omnidirectional）
驻波比（VSWR）	2.29	功率容量(Power)	50W
增益(Gain)	2.09dBi	带宽 （bandwidth）	100MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	2.53*9.74mm	天线颜色(Radome Color)	黑色（black）
连接器型号（Connector)		引线长度(Cable Length)	
外壳材料 Radome Material			
工作温度 (Working Temperature)	-10℃-+60℃	存放温度 (Limit Temperature)	-10℃-+30℃

三、增益(Gain).效率(efficiency).方向图(direction map), VSWR,Impedance,Return Loss

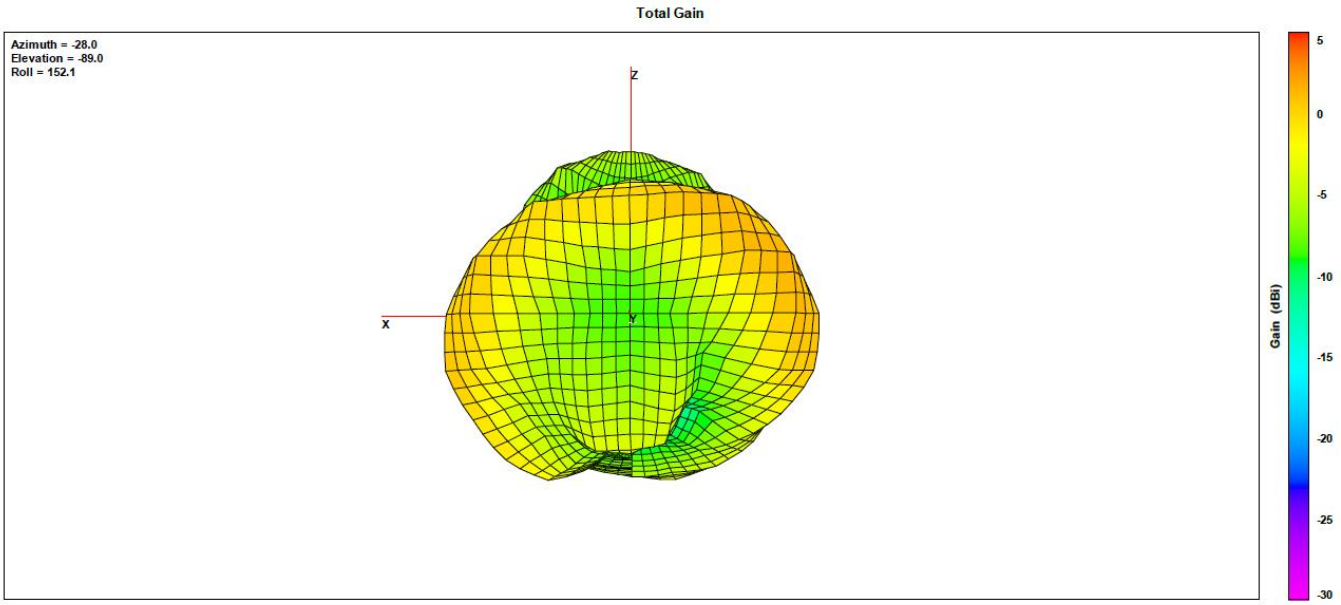
1.增益,效率(gain,efficiency)

Frequency（MHz）	Efficieny(%)	Gain(dB)
2400	27.98%	2.01
2410	28.45%	2.09
2420	27.95%	1.96
2430	27.41%	1.85
2440	27.41%	1.88
2450	27.27%	1.89
2460	26.78%	1.88
2470	25.23%	1.62
2480	23.95%	1.43
2490	22.36%	1.19
2500	21.05%	2.01

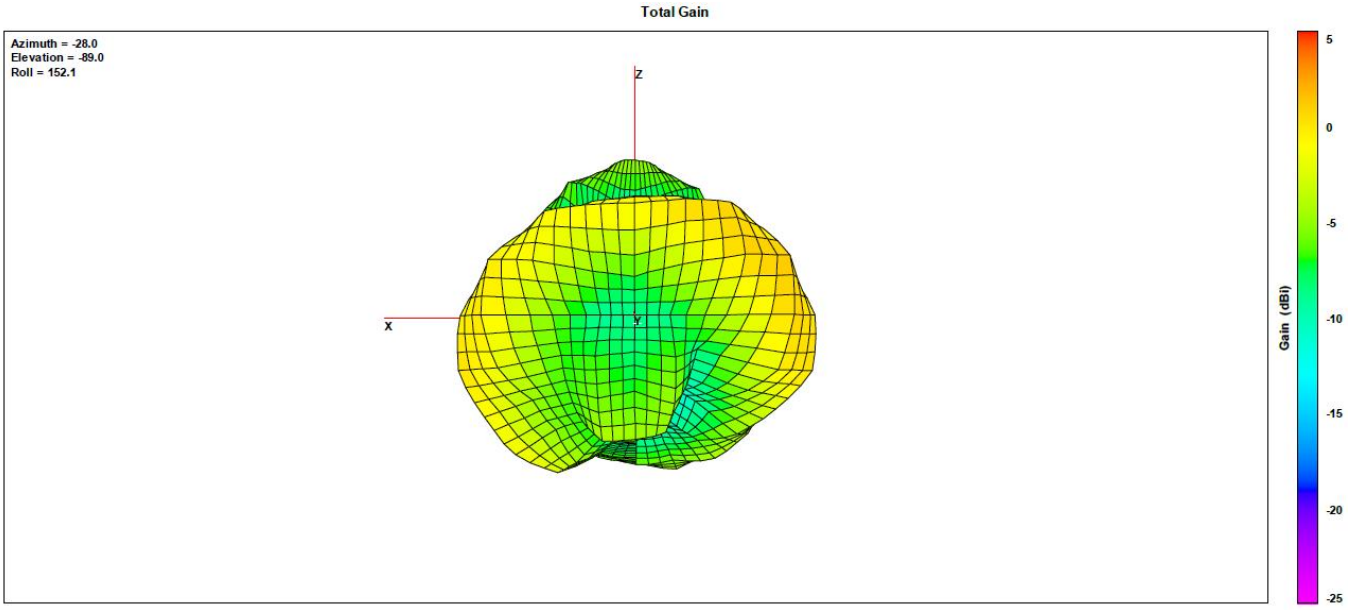
2.苹果图(apple diagram)



2400MHz

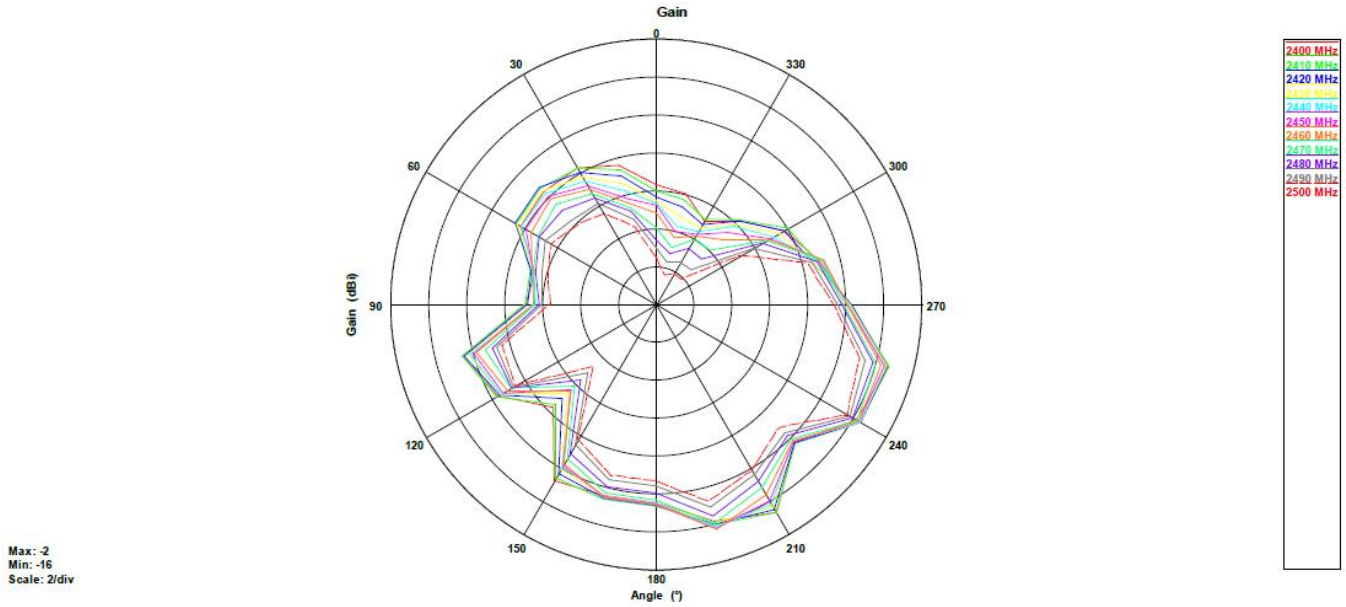


2440MHz

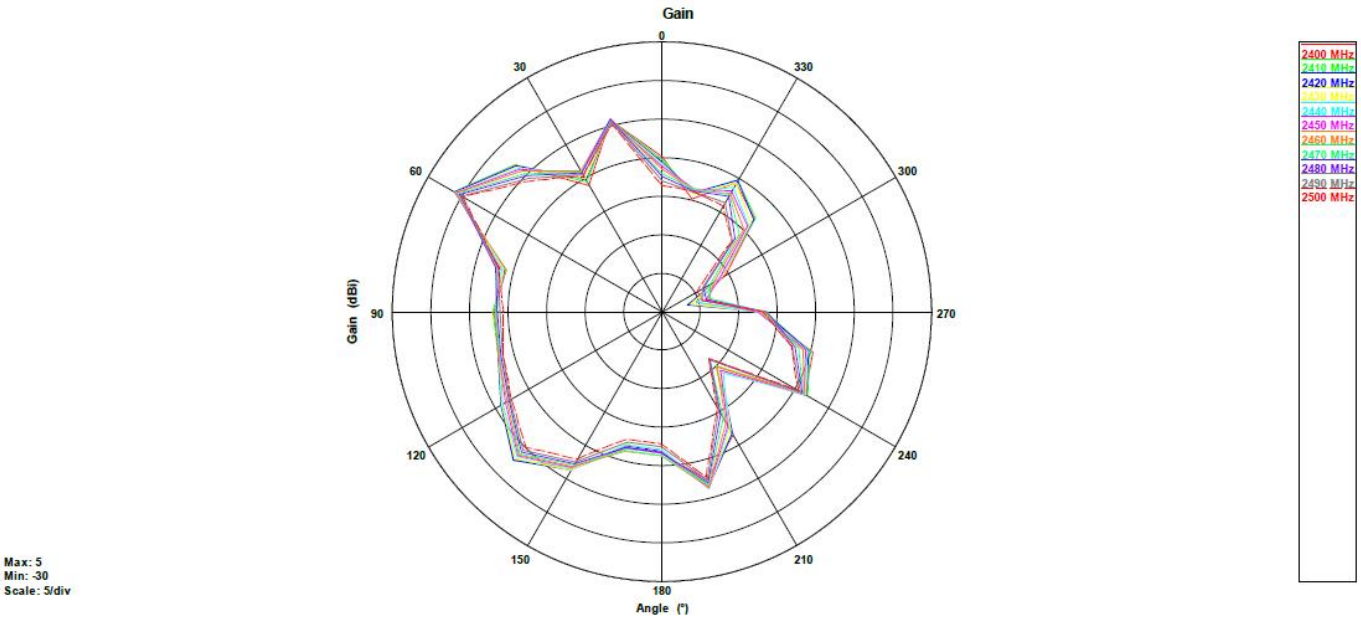


2480MHz

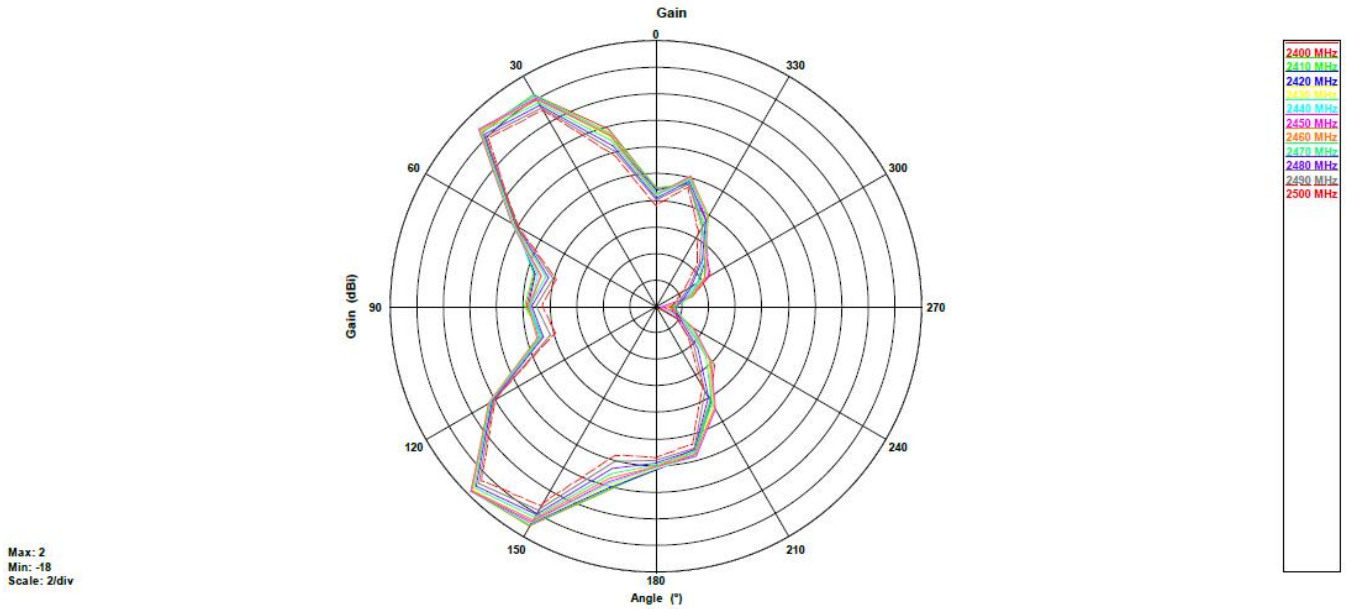
3.方向图(direction map)



Phi=0°

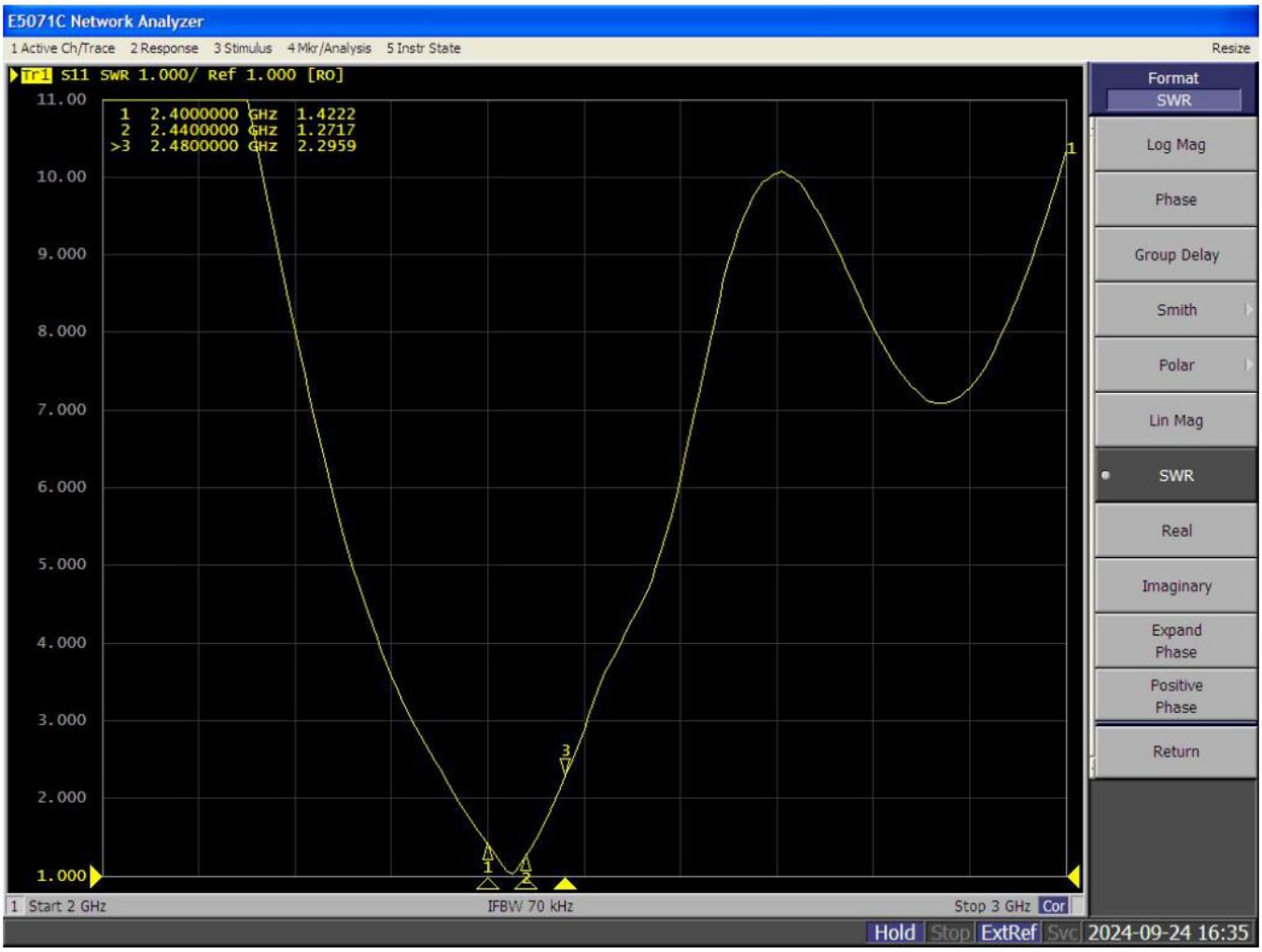


Phi=90°



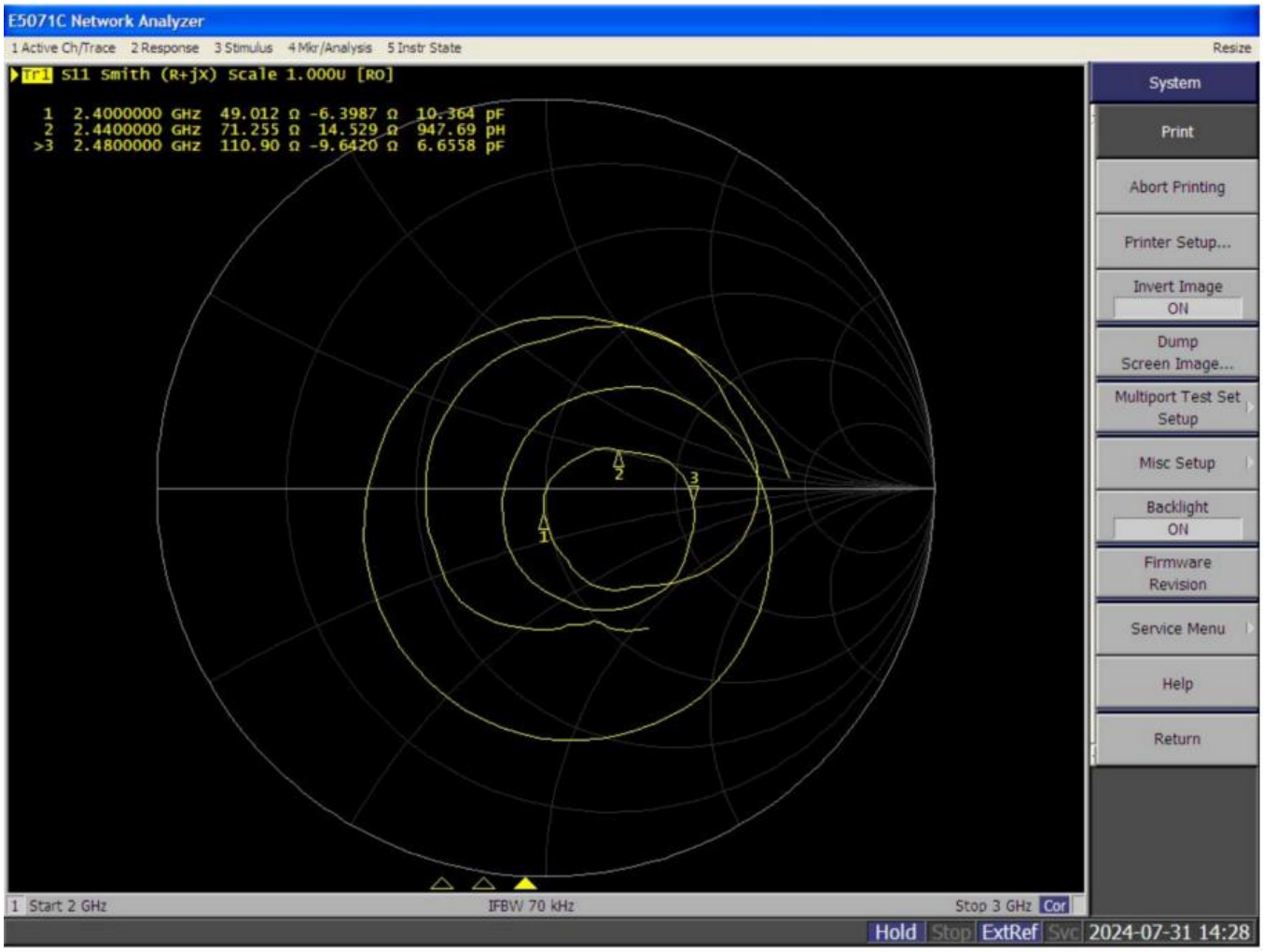
Theta=90°

4.VSWR

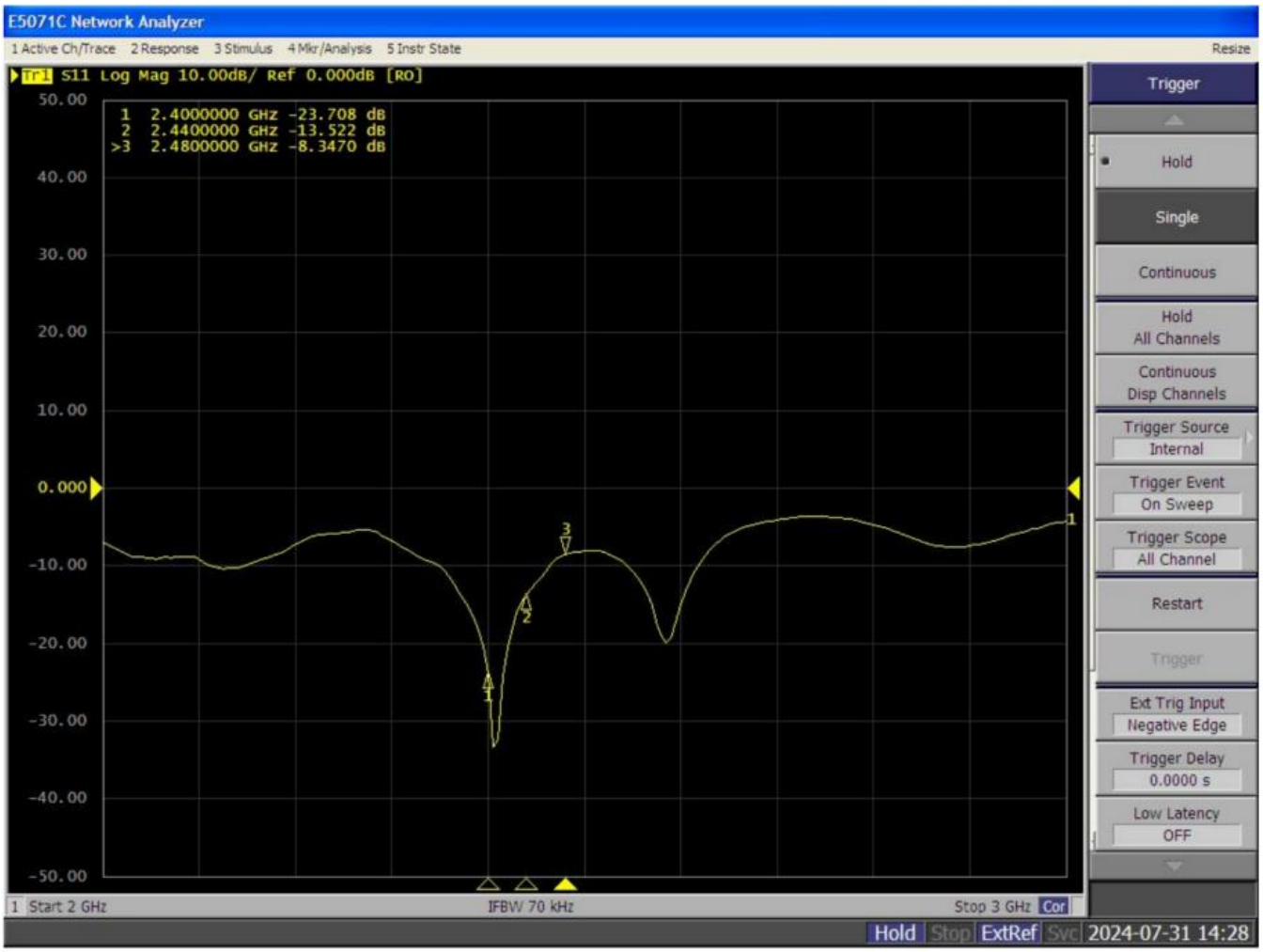


Frequency (MHz)	VSWR	Impedance (Ω)
2400	1.42	68.35
2440	1.27	39.95
2480	2.29	31.9

5.Impedance

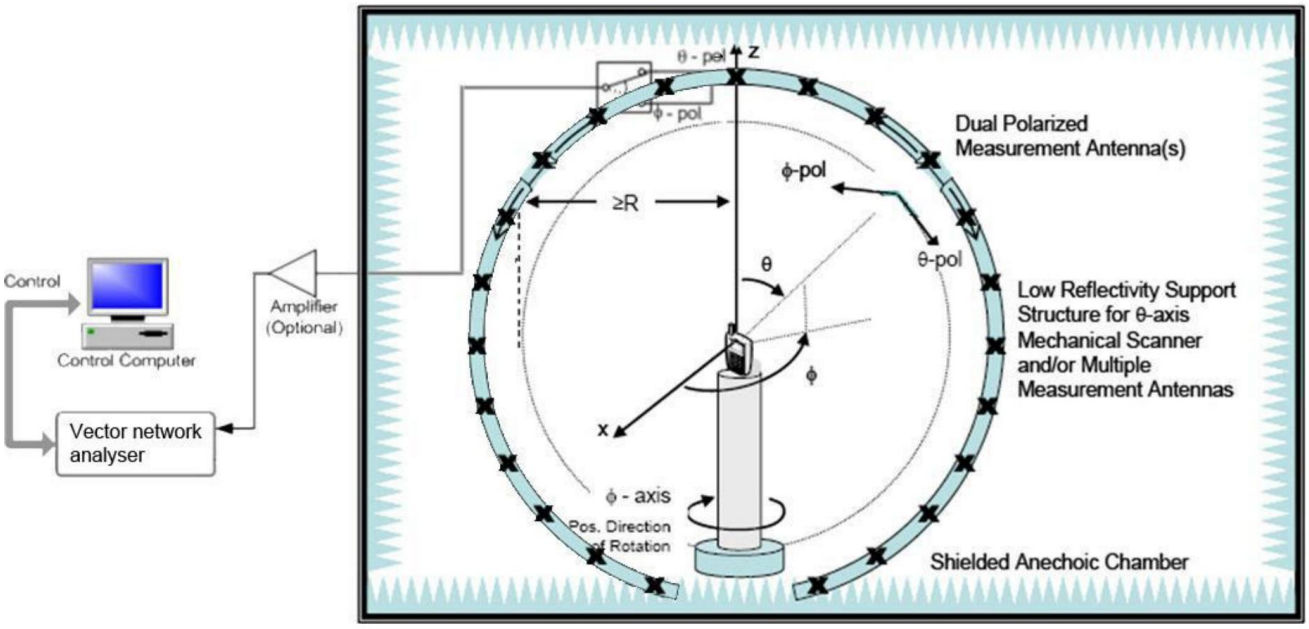


6.Return Loss



Frequency (MHz)	Return Loss (dB)
2400	-15.17
2440	-18.44
2480	-8.1

测试连接系统(Test connection system)



测试机构（testing agency）：

Shenzhen Morlab Communications Technology Co., Ltd