



東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

客户名称 Customer: gongjin

客户料号 Customer Material number: 8000000019761341

物料名称 Material name: Internal Antenna

物料型号 Material type: SSR-1902033

物料描述 Material description: Internal Antenna, 3dBi@2.4GHz, 50Ω, FR4, 40*7*1mm, L=200mm, RF113, Gray, IPEX, EmP102-B-I200 (G) (Xinsheng)

版 本 Edition: V0

供 应 商 承 认 The supplier acknowledge	
工 程 Engineering	批 准 Approval
袁裕深	叶晔
盖章签署 Signed	
日 期 Date	2019-3-7

供应商名称 Supplier name: 东莞市新盛电子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

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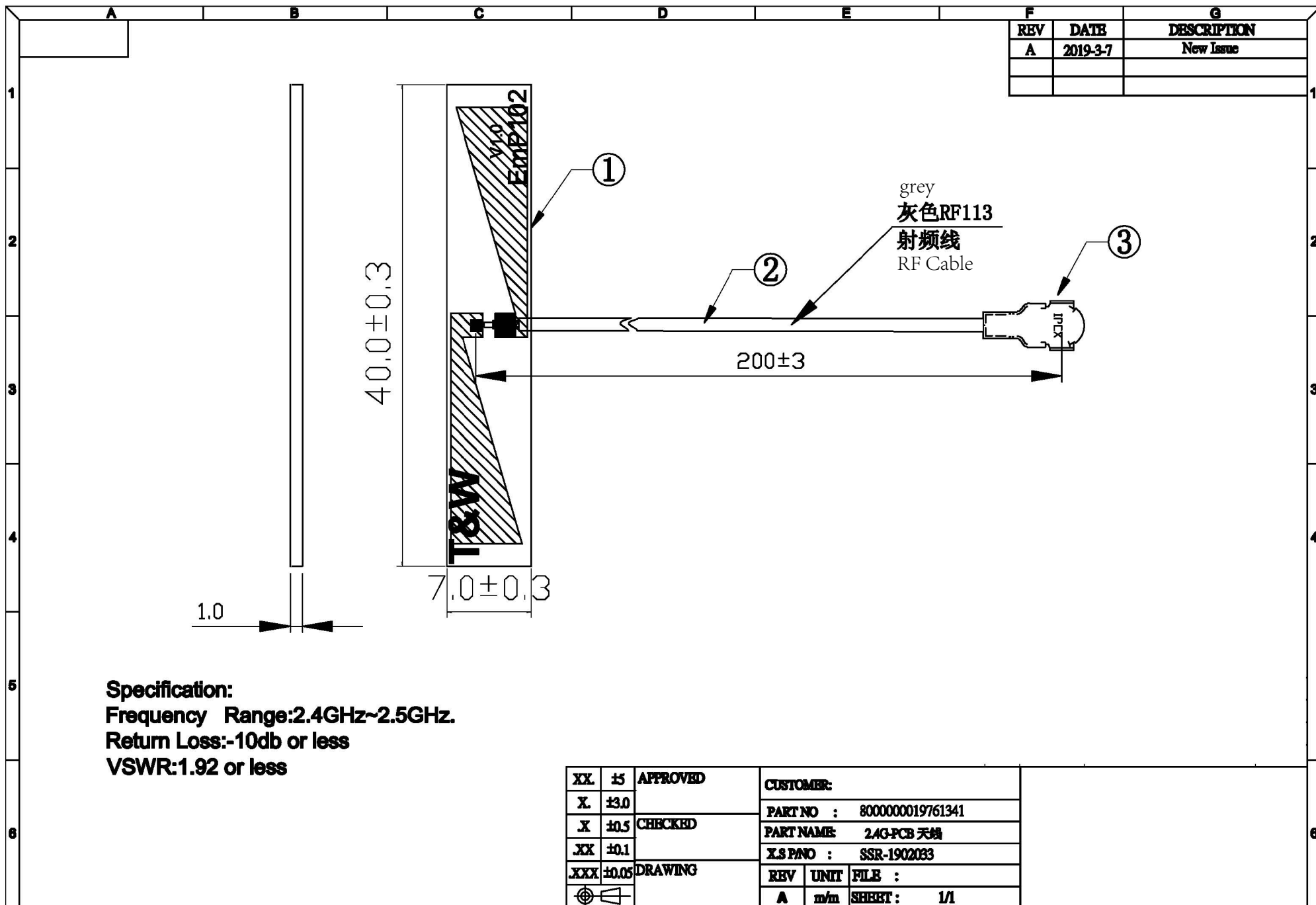


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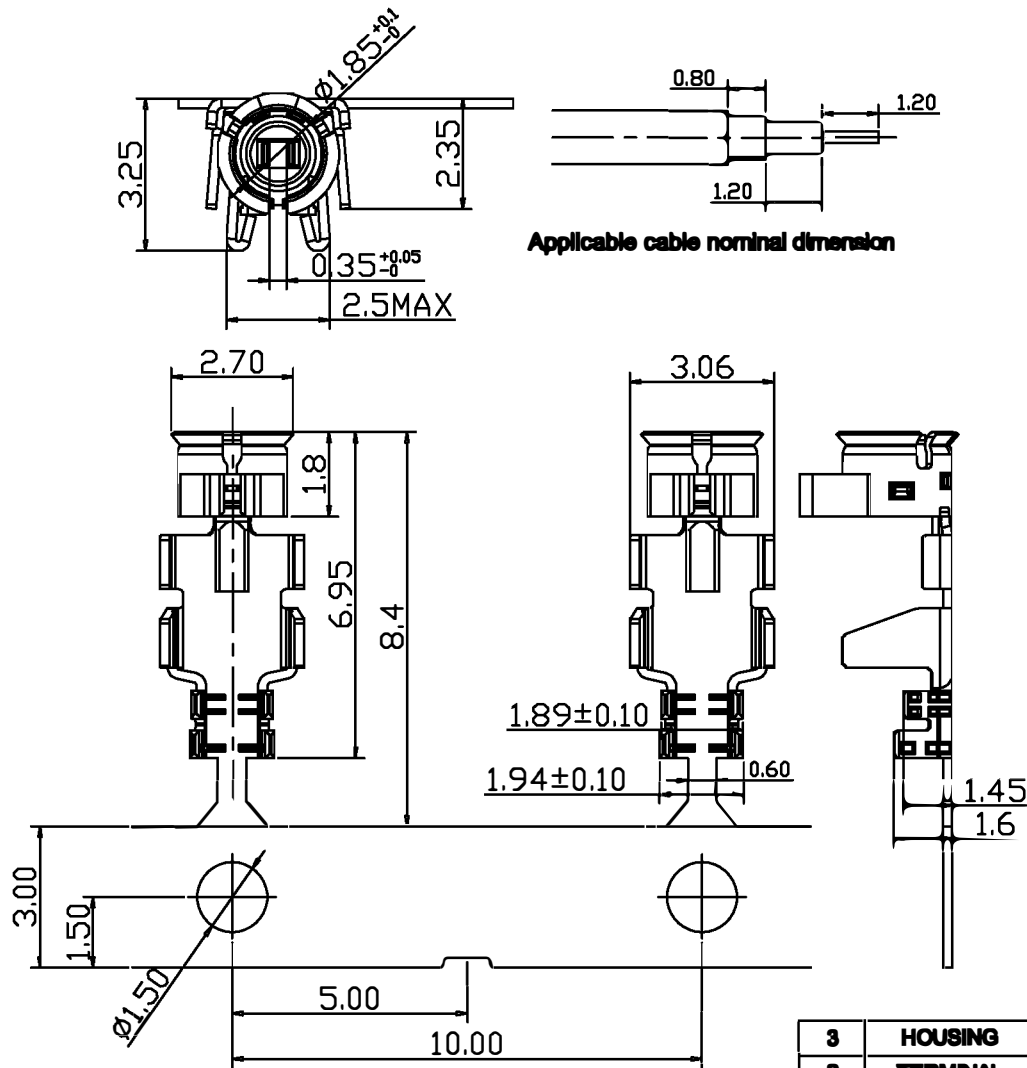
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Specification

1. Antenna Electrical Properties:		
1.1	Frequency	2.4-2.5GHz
1.2	Impedance	50 ohm Nominal
1.3	VSWR	1.92:1 Max
1.4	Return Loss	-10 dB Max.
1.5	Polarization	Line
1.6	Gain	3.27dBi
2. Physical Properties:		
2.1	Operating Temperature	-40~+80℃
2.2	Storage Temperature	-40~+90℃
2.3	Humidity	≤95℃ @ 25℃
2.4	Cable Length	200mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	MHF



REV	DATE	DESCRIPTION
A	10/28-2012	New Issue



Applicable cable nominal dimension

3	HOUSING	1	Thermoplastic UL94V-0	Glass:30%	Black
2	TERMINAL	1	Copper Alloy	Ni:50° ~90° Gold Flash	
1	SHELL	1	Copper Alloy	Ni:50° ~90° Gold Flash	
ITEM	DESCRIPTION	QTY	MATERIAL	FINISH	REMARK

XX.	±0.5	APPROVED
X.	±0.2	
.X	±0.15	CHECKED
.XX	±0.08	
.XXX	±0.05	DRAWING

VENDER					
PART NO					
PART NAME		Technova RF Plug Connector for 113			
X.S P/NO		2212-0215004-01			
REV	UNIT	SCALE	SIZE	SHEET	FILE NAME
A	mm	1/1	A 4	1 OF 1	

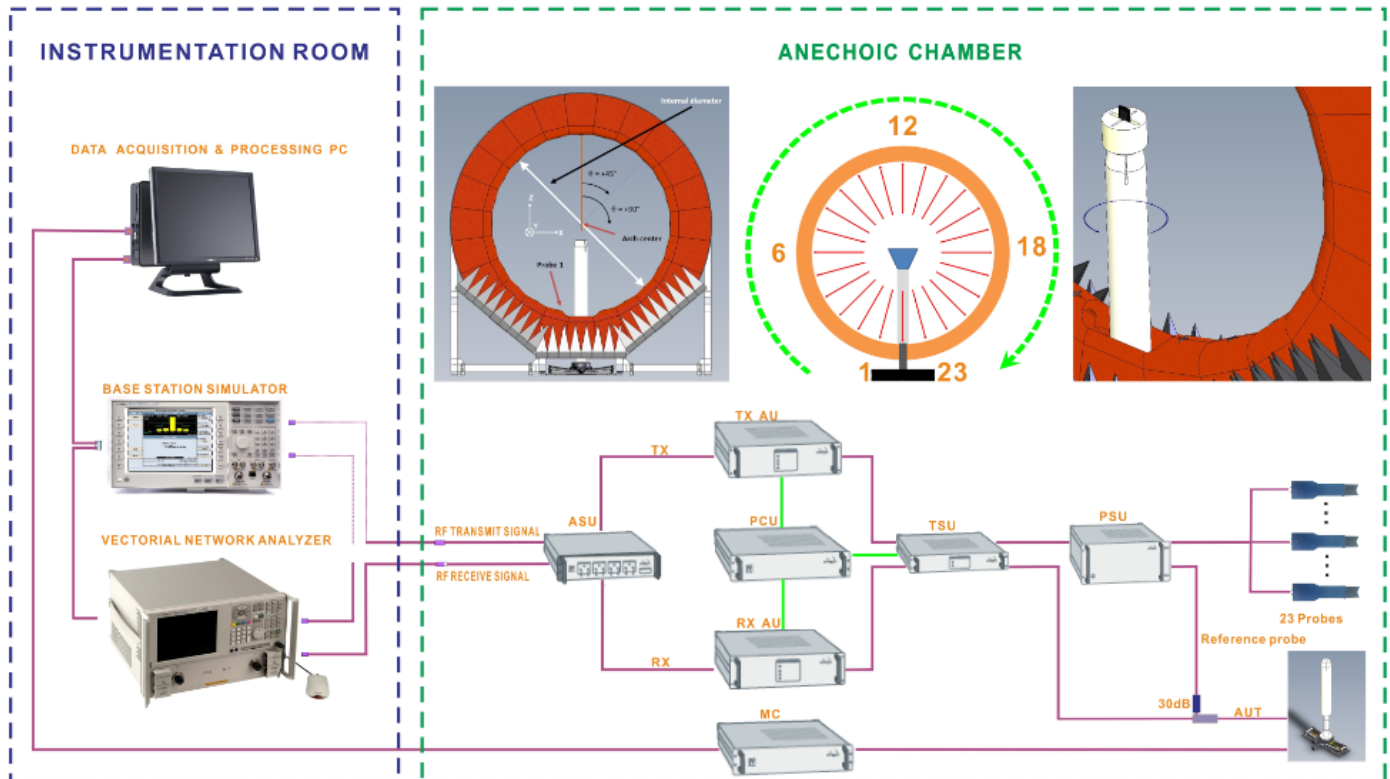
P/N REMARK



Test Results

Antenna

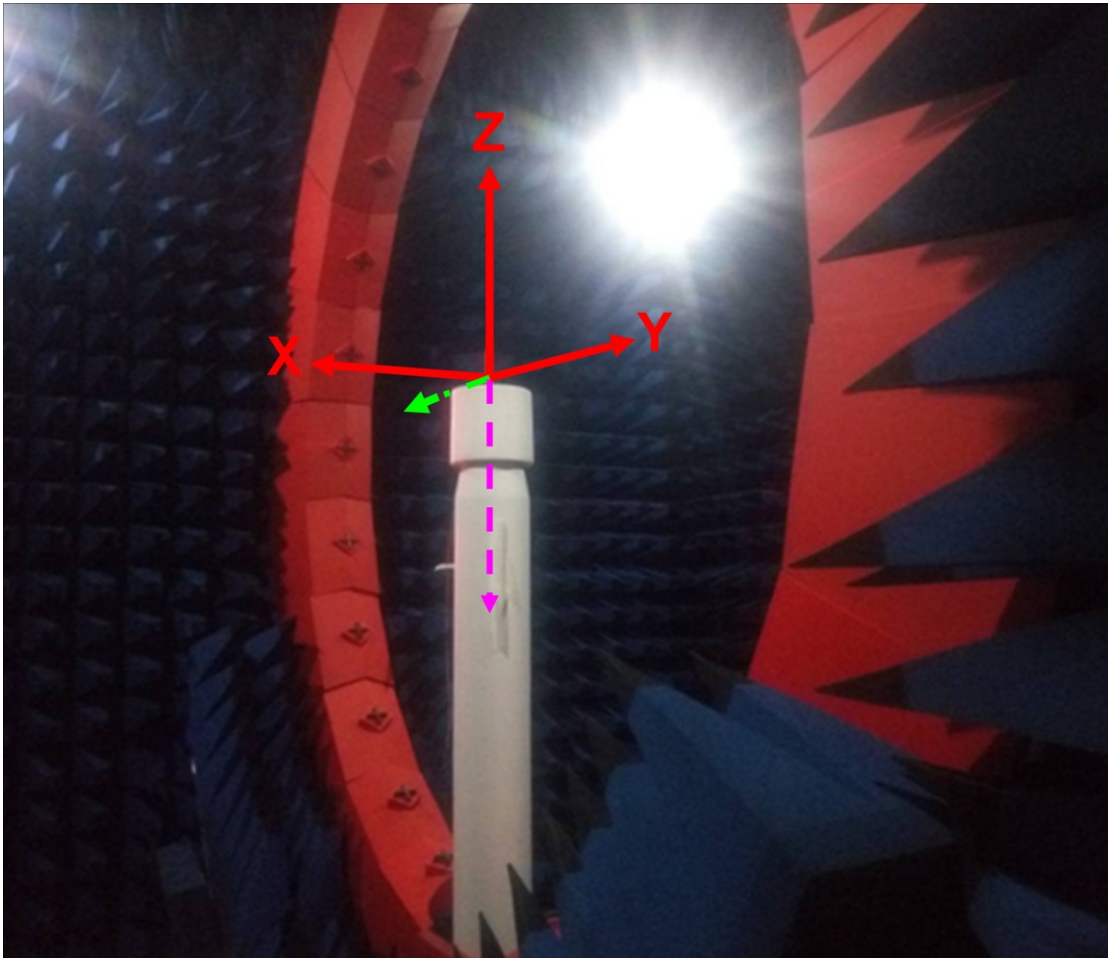
1 Test Setup





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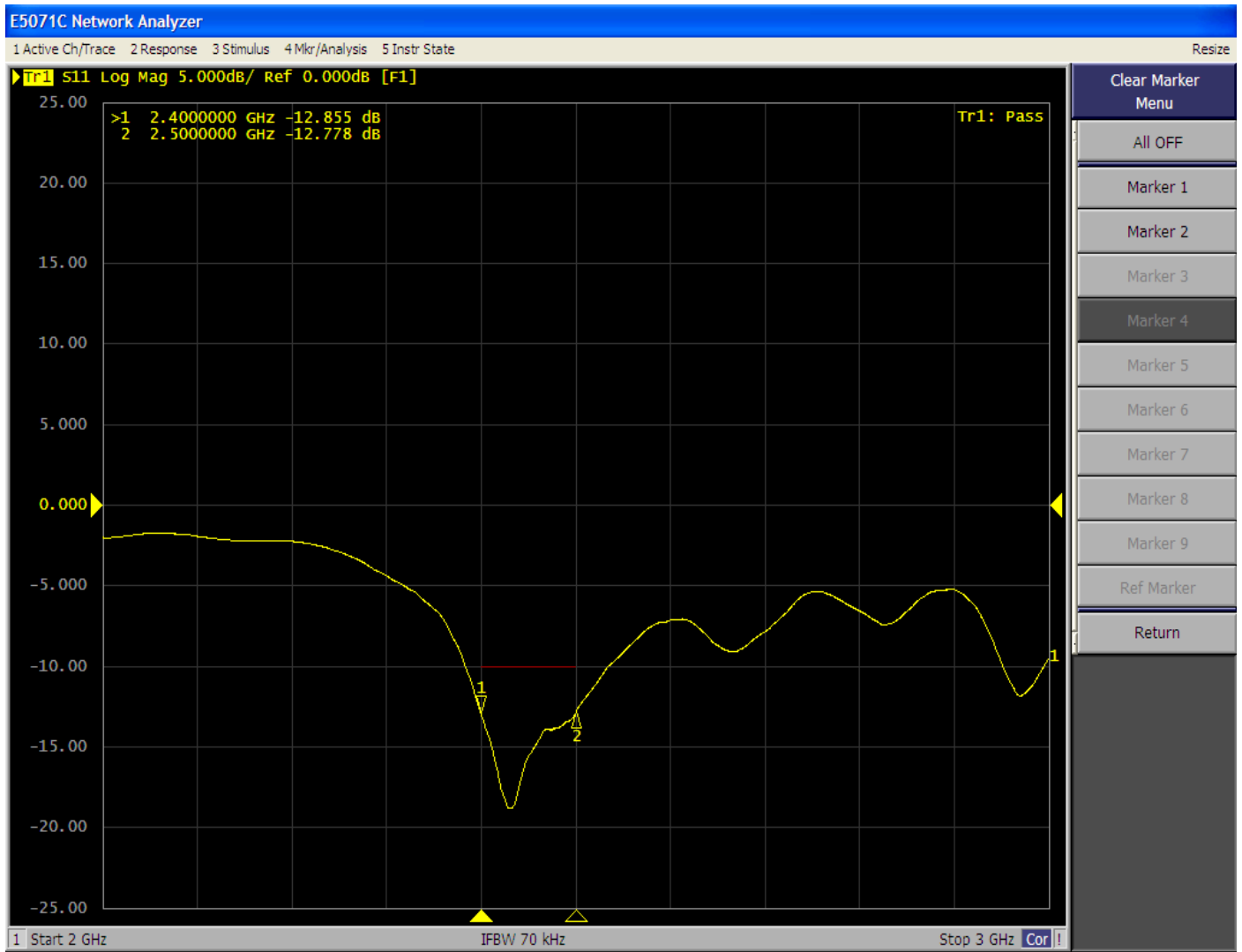
Configuration and Coordinate





Configuration of Wave Pro FFC-700 Chamber

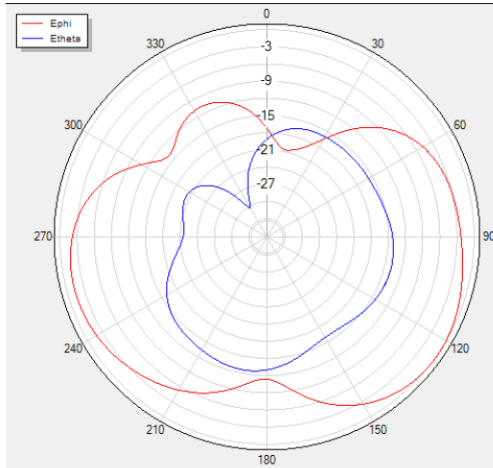
2. Antenna S-parameter test results



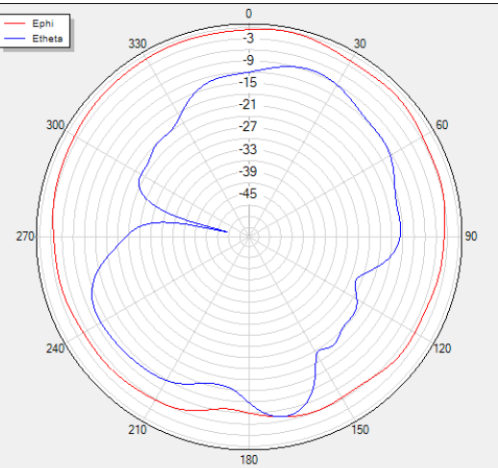


3. 2D Radiation patterns test results (Passive Antenna)

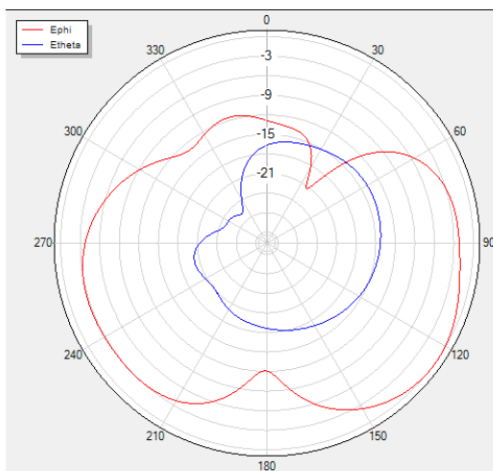
H Theta=90 freq=2400MHz



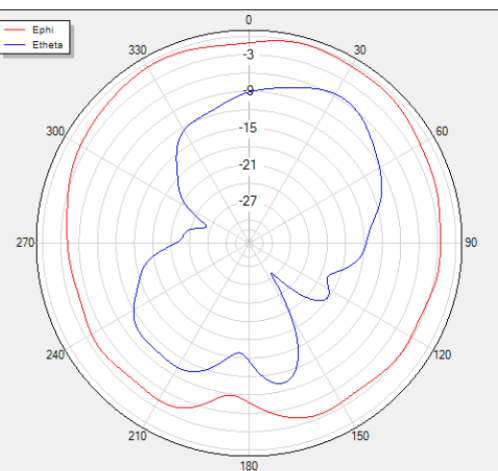
V Phi=90 freq=2400MHz



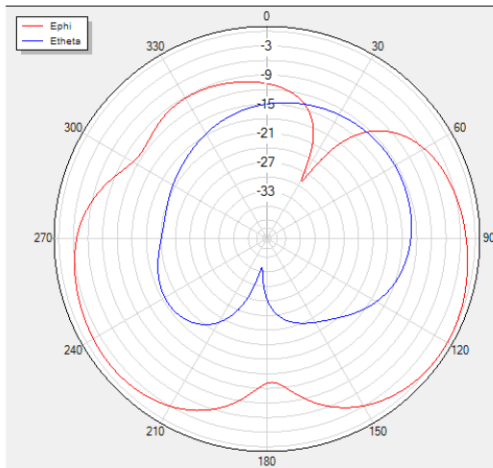
H Theta=90 freq=2450MHz



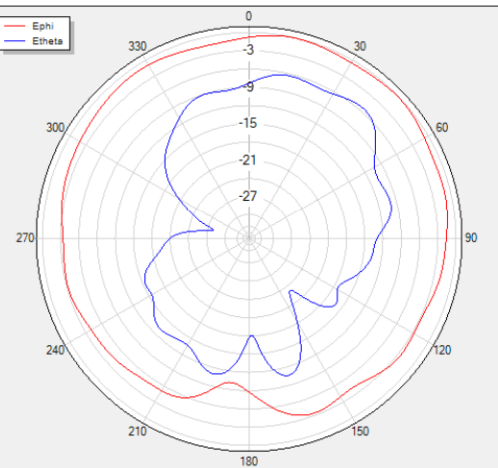
V Phi=90 freq=2450MHz



H Theta=90 freq=2500MHz



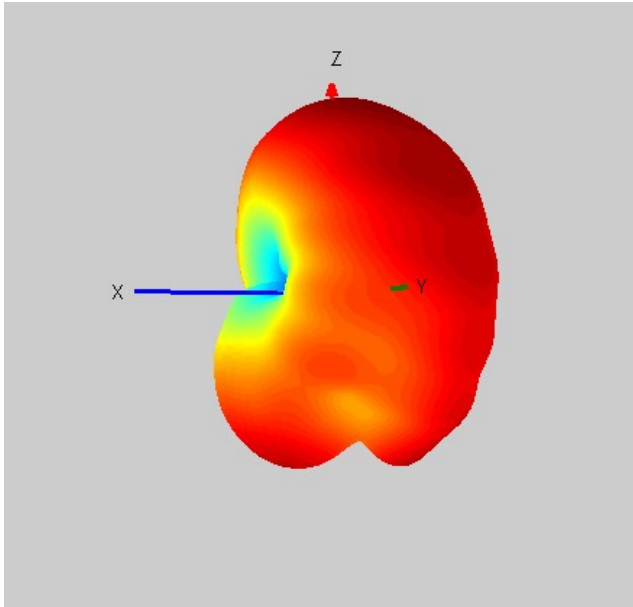
V Phi=90 freq=2500MHz



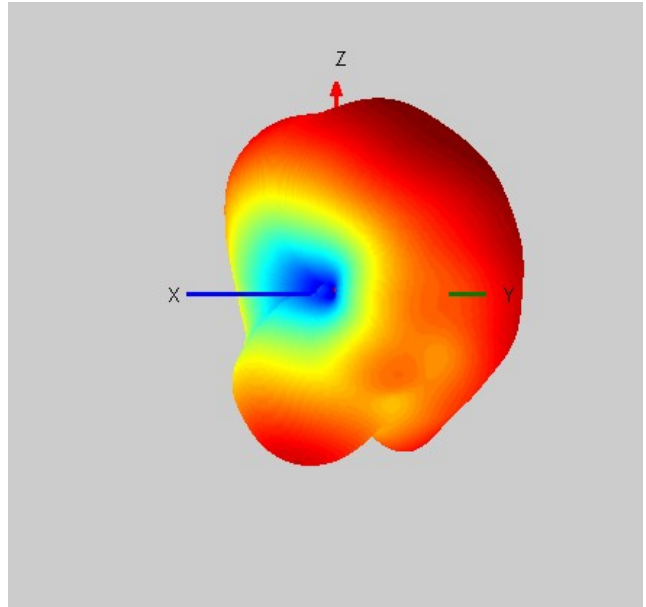


4. 3D Radiation patterns test results (Passive Antenna)

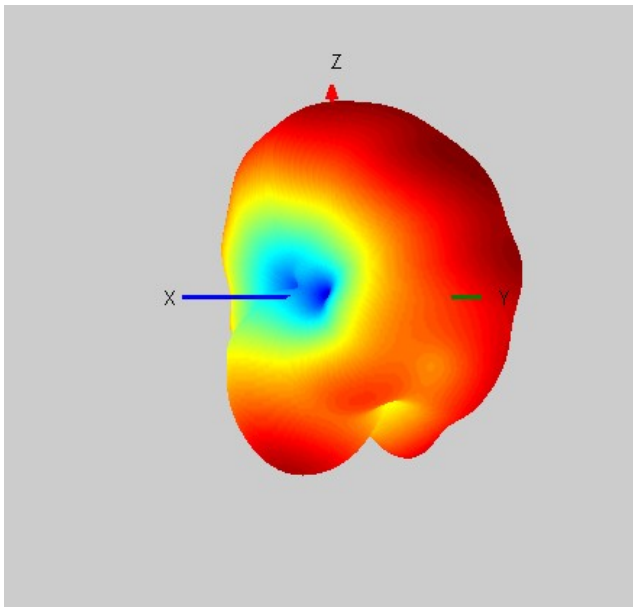
2400MHZ



2450MHZ



2500MHZ





5.Test Value

增益和效率 gain @efficiency		
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率
2400M	3.04	66.21%
2410M	3.13	66.54%
2420M	3.18	67.82%
2430M	3.11	68.24%
2440M	3.22	68.90%
2450M	3.27	72.56%
2460M	3.08	73.68%
2470M	3.12	77.30%
2480M	3.23	79.18%
2490M	2.88	75.77%
2500M	2.94	76.62%