

Shenzhen Xunyton Technology Co.,Ltd

Specification

Customer: Wisilica

Product Name: 2.4G 2DB RP SMA male antenna L=110MM

Product Part NO. : XYTR-2.4 -2-110

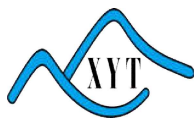
Date: 2019-02-18

Engineer confirmed:

核准	工程	制作	签章
Approval	Quality	Engineer	

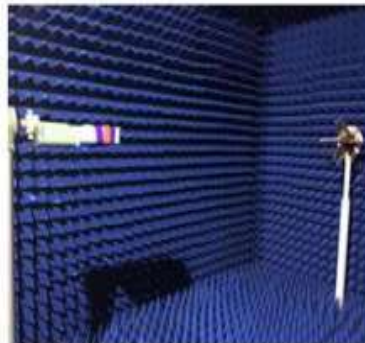
Customer confirmed:

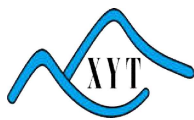
Approval	Engineer	Quality	Signature
Result: ☐ Yes ☐ NG ☐ Others			



1.测试项目与设备

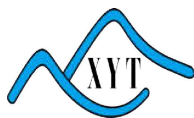
	测试项目	设备
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 综合测试仪: Agilent 8960 E5515B x2 StarPoint SP6011
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: Agilent E5071B HP 8753D





Specification:

Electrical Specifications:	
Frequency Range	2400-2500MHZ
Gain	2dBi
VSWR	≤ 2.1
Polarization	Vertical
Impedance	50ohm
Maximum Input Power	50W
Connector	RP SMA Male
Operating Temperature	-40°C to+80°C
Mechanical Specifications:	
Antenna Dimension	110mm
Weight	10g

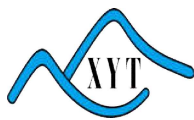


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Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40°C to 70°C ,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity: $95 \pm 3\%$, Test temperature: 40°C , last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal

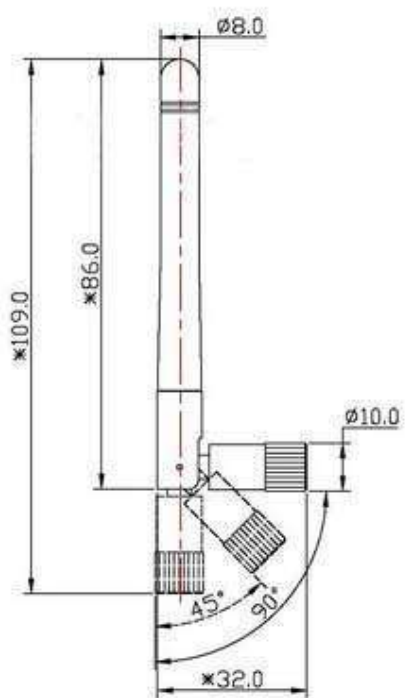
Picture:



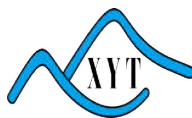


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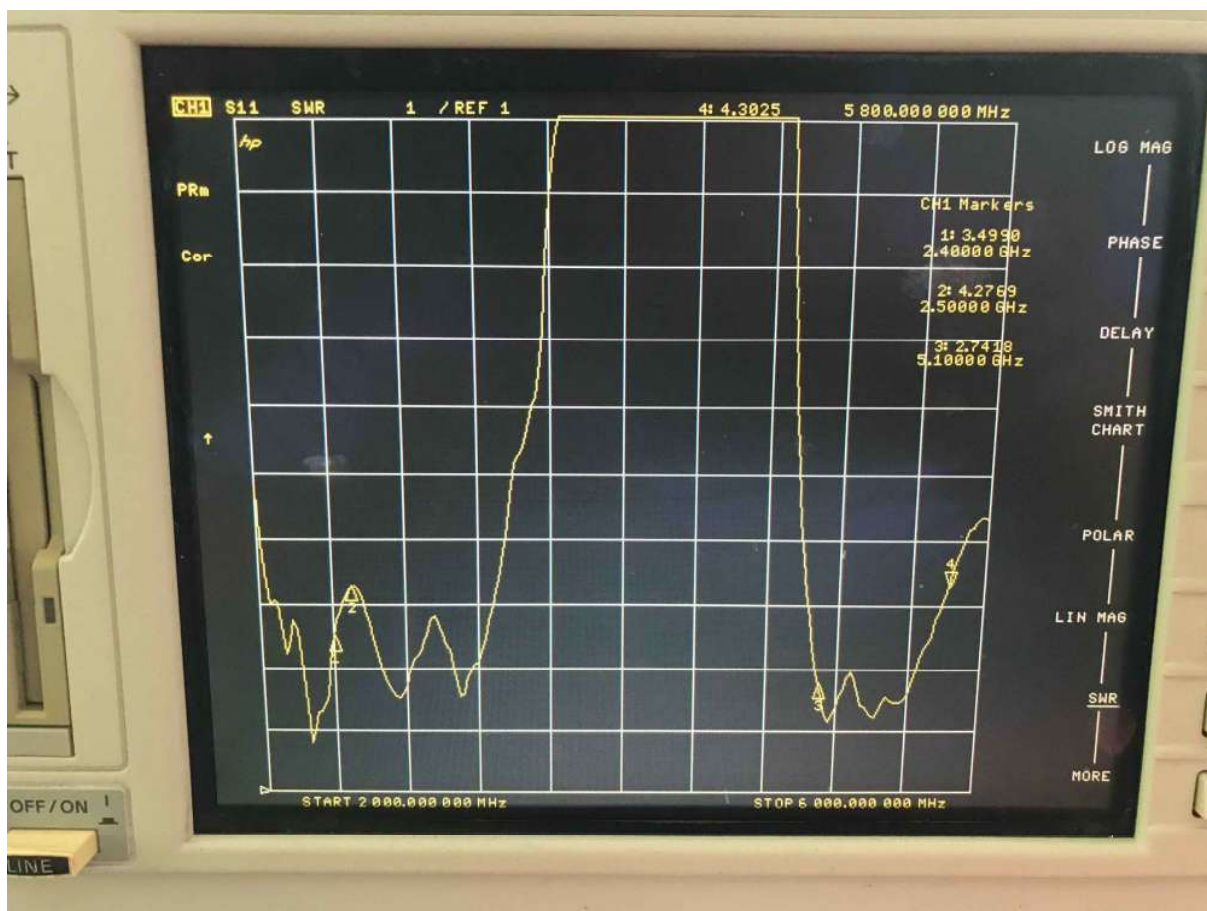
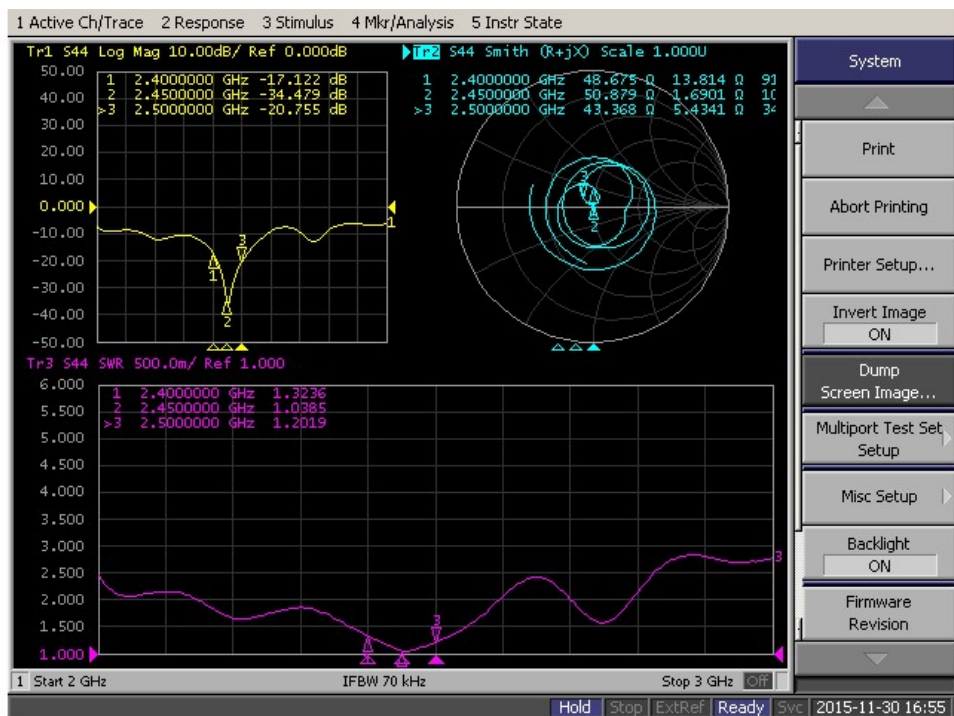
Drawing :



Test:



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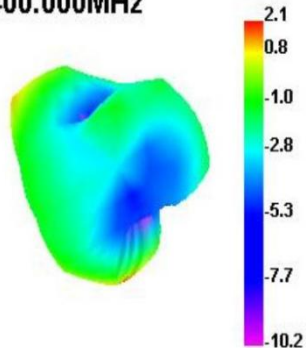


Test data

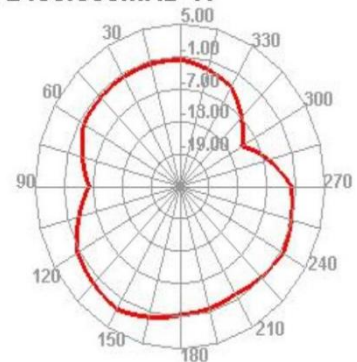
Passive Test For 2400–2500									
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	62.6	-2.00	2.00	26.5	35.697	2.00	-10.14	48.57	48.53
2410	62.2	-2.08	1.83	26.7	35.215	1.83	-9.83	48.55	48.51
2420	56.5	-2.52	1.15	24.4	31.752	1.15	-10.27	48.74	48.45
2430	53.7	-2.75	0.71	23.9	29.64	0.71	-10.8	48.41	48.17
2440	60.8	-2.18	1.04	27.4	33.213	1.04	-9.99	48.53	48.29
2450	64.5	-1.90	1.01	30.1	34.745	1.01	-9.62	48.74	48.42
2460	60.1	-2.21	0.48	28.5	31.888	0.48	-10.05	49.01	48.64
2470	57.2	-2.43	0.21	27.2	29.910	0.21	-10.01	48.93	48.64
2480	63.8	-1.95	0.89	30.5	32.763	0.89	-9.92	48.87	48.40
2490	73.9	-1.33	1.19	35.1	37.261	1.19	-9.62	49.09	48.71
2500	69.5	-1.55	1.03	34.3	35.016	1.03	-10.35	49.25	48.77

Test pattern (2D/3D)

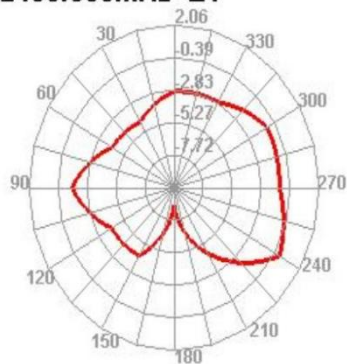
2400.000MHz



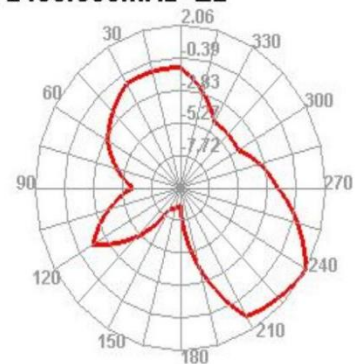
2400.000MHz H



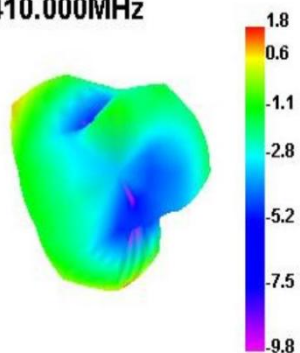
2400.000MHz E1



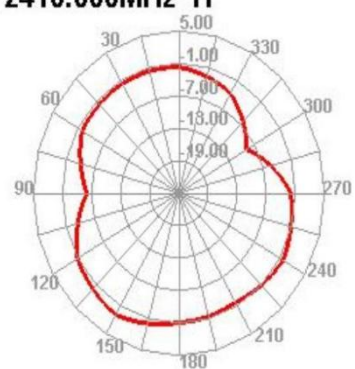
2400.000MHz E2



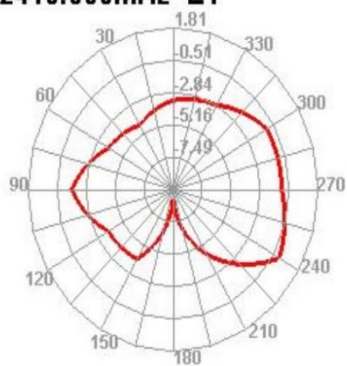
2410.000MHz



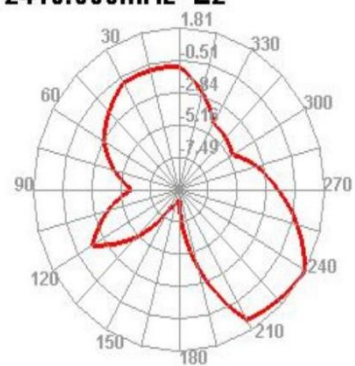
2410.000MHz H



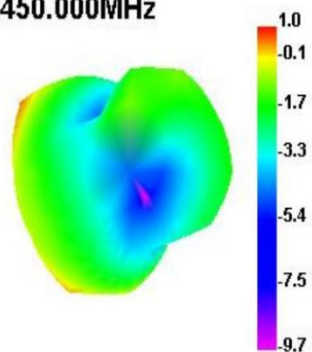
2410.000MHz E1



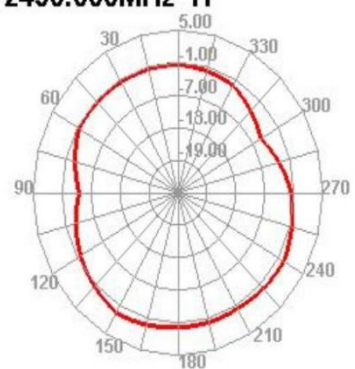
2410.000MHz E2



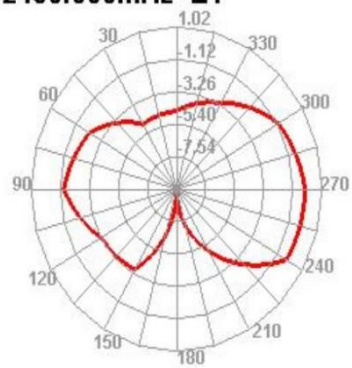
2450.000MHz



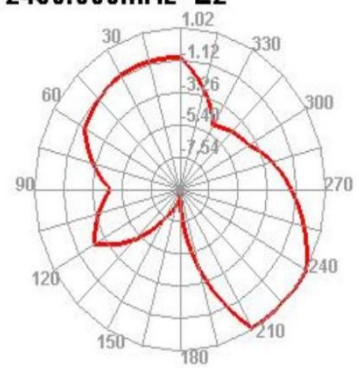
2450.000MHz H



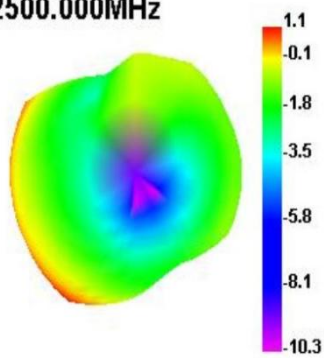
2450.000MHz E1



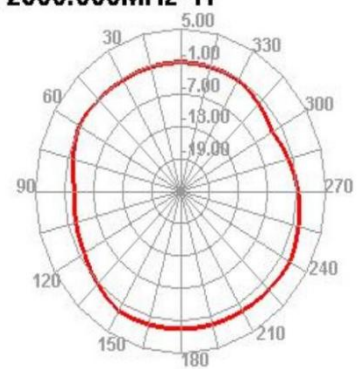
2450.000MHz E2



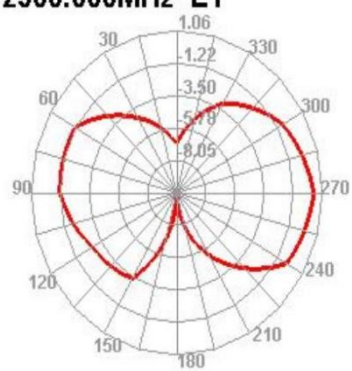
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

