

东莞市森岭智能科技有限公司
DONGGUAN CITY SLEING INTELLIGENCE TECHNOLOGY CO.,LTD

规格承认书
SPECIFICATION FOR APPROVAL

客 户
CUSTOMER: Shenzhen Lianke Network Technology Co., Ltd

地址
Address: Room 501, Building A, Huafeng Zhigu-Yuanshan High-Tech Industrial Park, No. 62, Shenzhen, China

品 名
PART NAME 2.4~2.5GHz metal Antenna

供 方 料 号
SUPPLIER NO: SLE-100060103-R

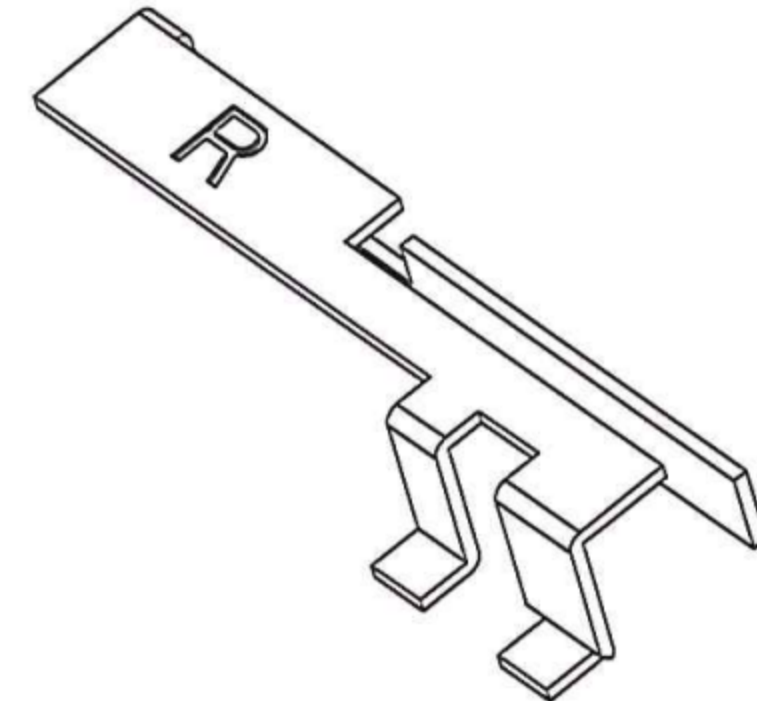
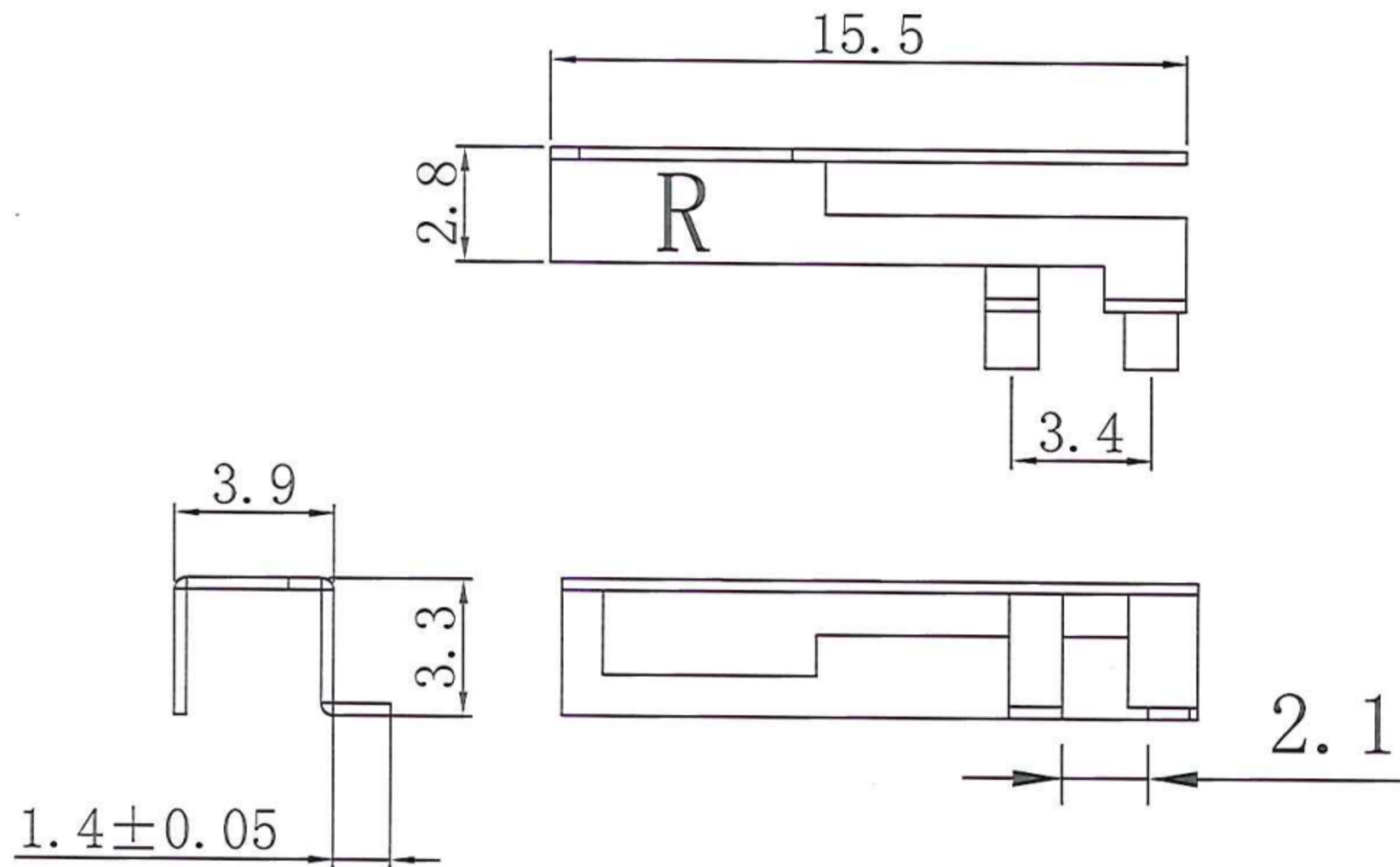
送样日期Date: 2017.09.20

版本Revision: X3

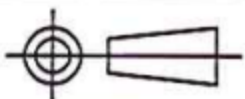
客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
		

REV.	CONTENT	DATE
X1	First Sample	2017.09.16
X2	更改尺寸	2017.09.19
X3	增加印字	2017.09.20



Specification:
Frequency Rang: 2.4~2.5GHz(带机测试)
Return Loss: -10 dB Max
VSWR: ≤ 1.92

SLEing® 森岭			S.L P/NO		SLE-100060103-R	
东莞市森岭智能科技有限公司			PART NAME		2.4GHz WiFi	
DONGGUAN SLEing INTEL-TECH CO.,LTD			PRODUCT			
		TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE		DRAWN
UNIT:mm		ANGLES ±0.5°		X. ±0.3		CHECKED
SHEET: 1/1		.XX ±0.05		XX. ±0.5		APPROVED
SCALE: 1/1				XXX. ±2.0		

NO	PART NO.	PART NAME	MATERIAL	REMARK	Q' TY
1		PIFA	洋白铜	L15.5*W3.9*H3.3*T0.3mm	

电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4~2.5GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	1.9 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	
Physical Properties	
Antenna Material	PIFA
Cable Type	
Operating Temp.	-40~+85 °C
Storage Temp.	-40~+85 °C

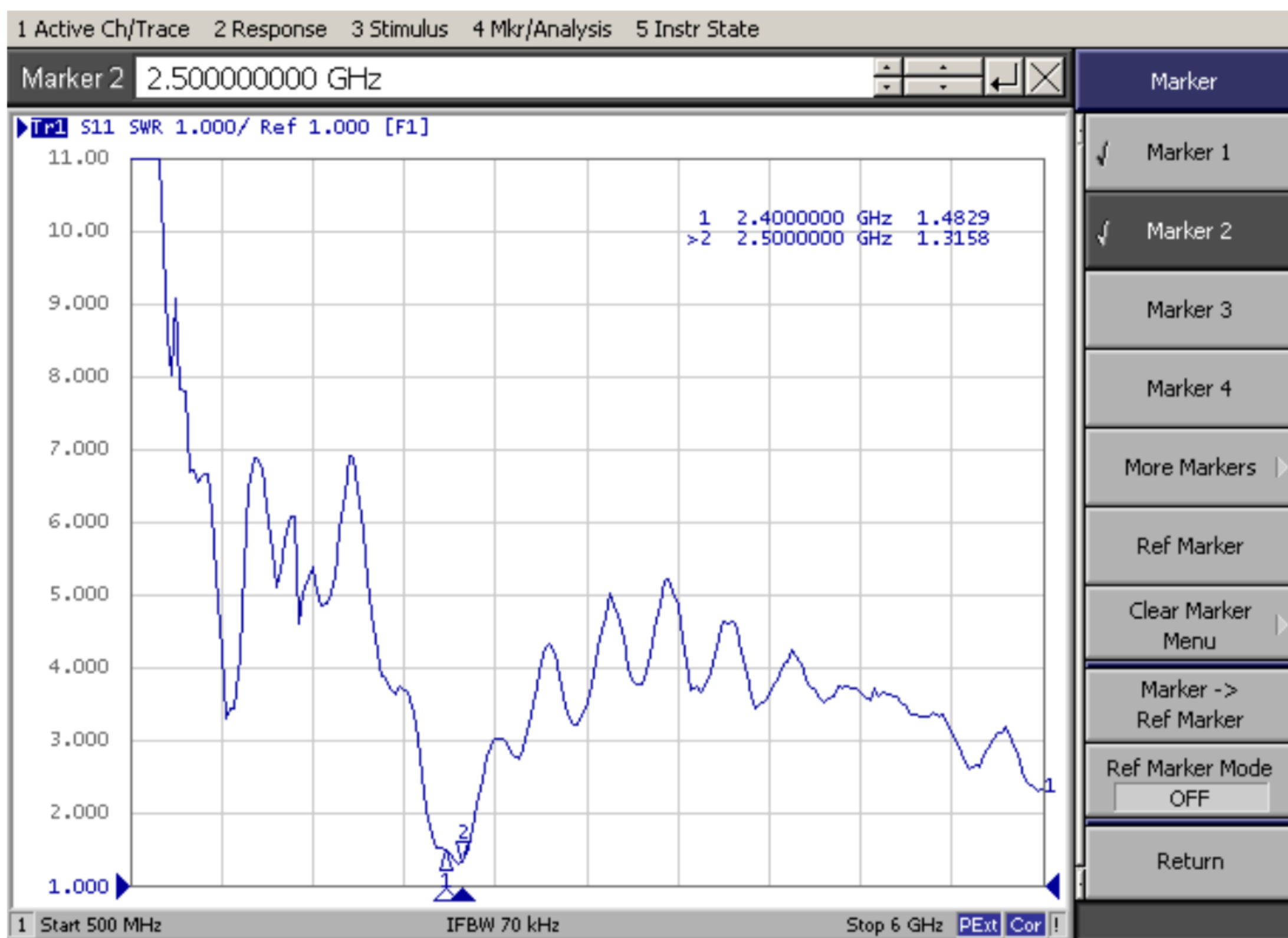
S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer

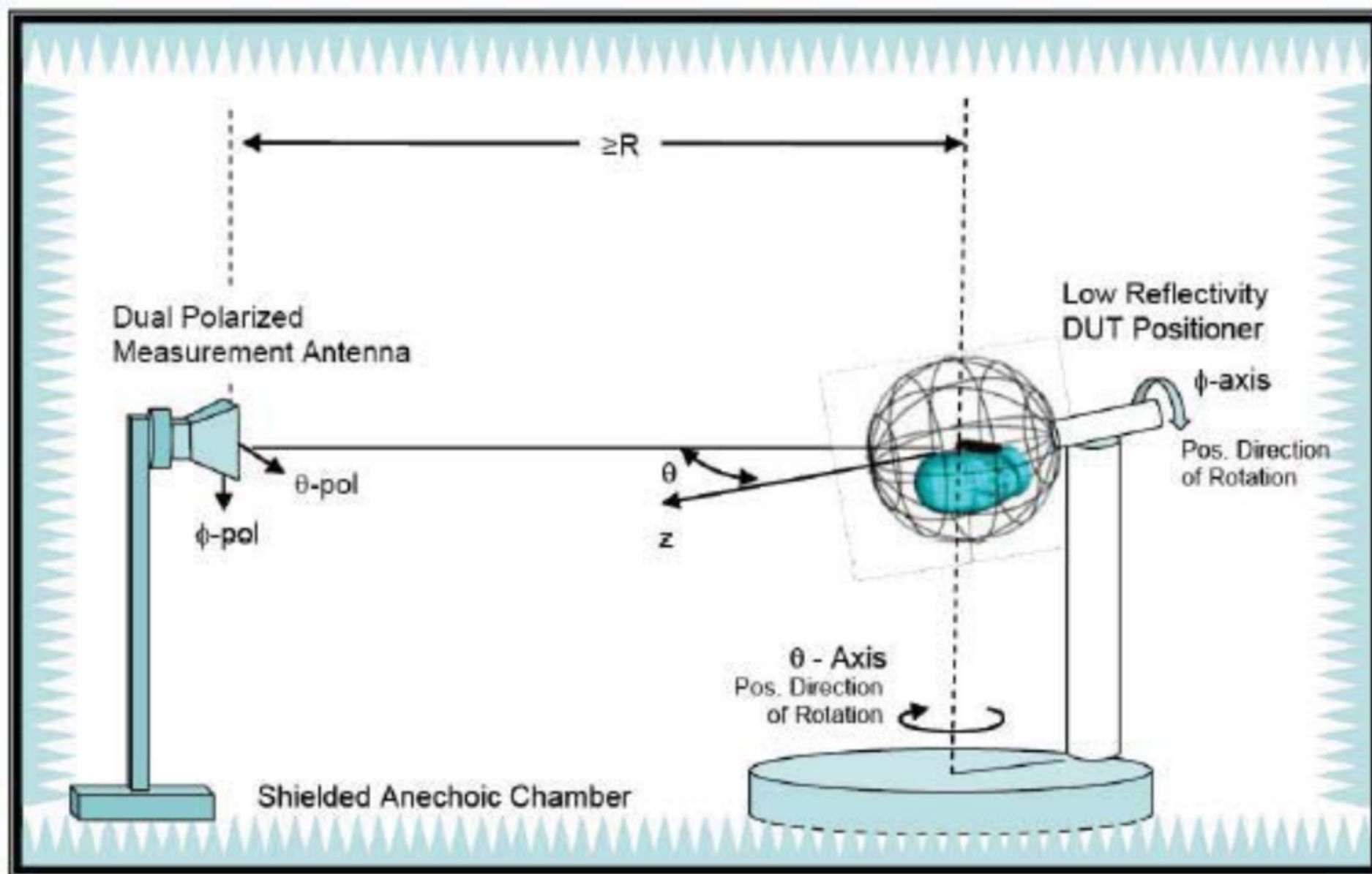
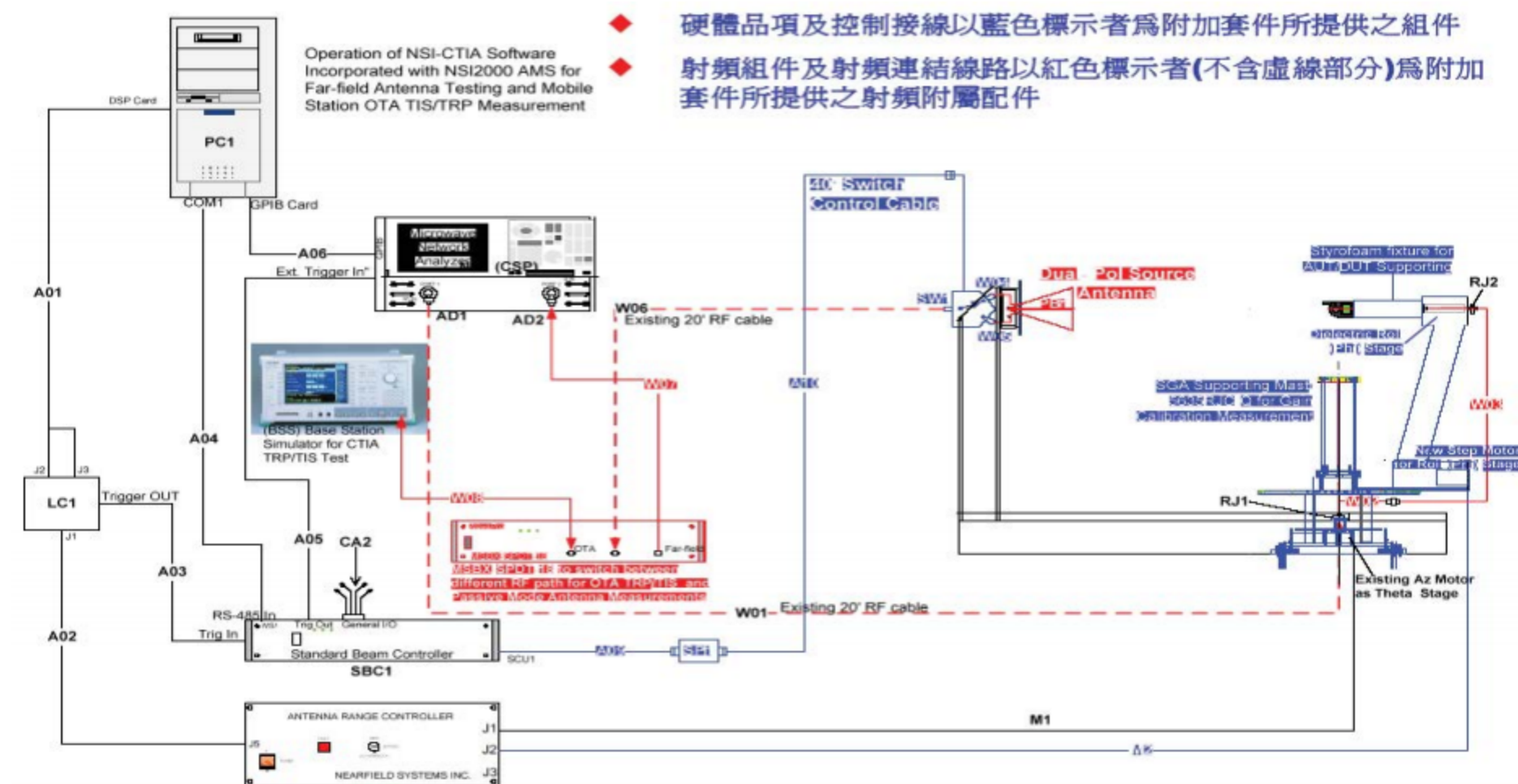


WIFI Antenna (NO. 1)



测试设备 Test Setup

NFC-500S 3D Chamber Coordinate System Definition

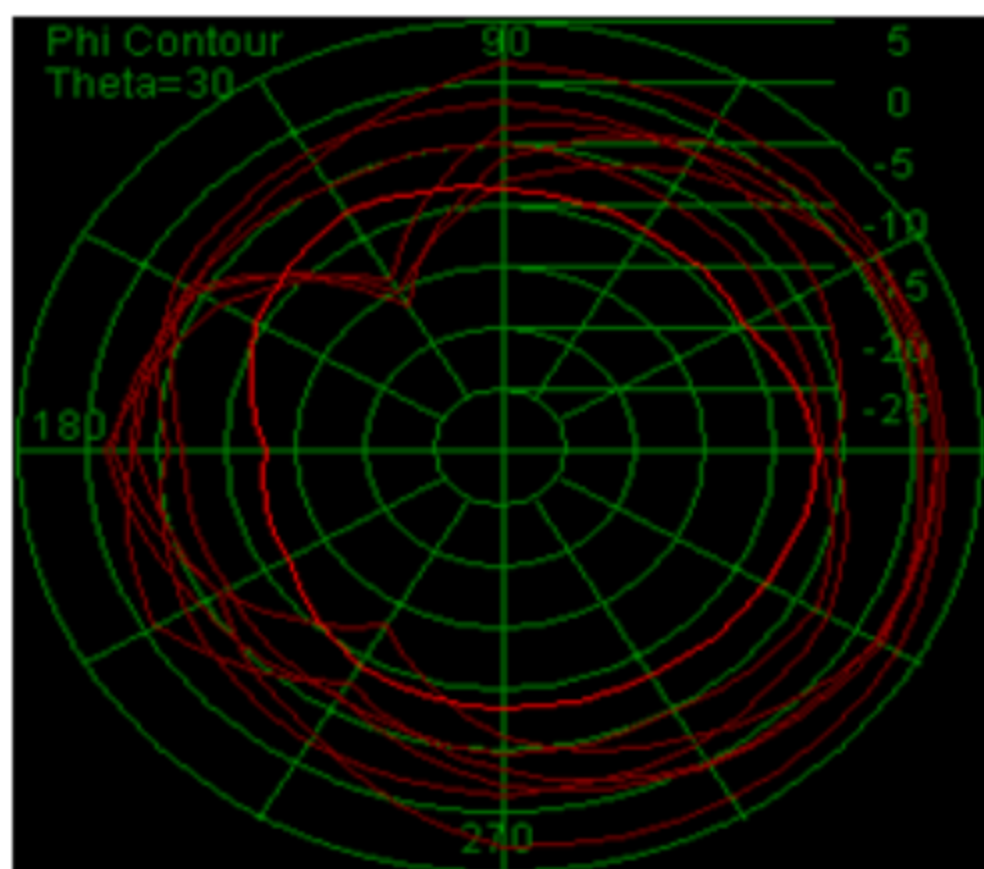


Configuration of 3D Chamber

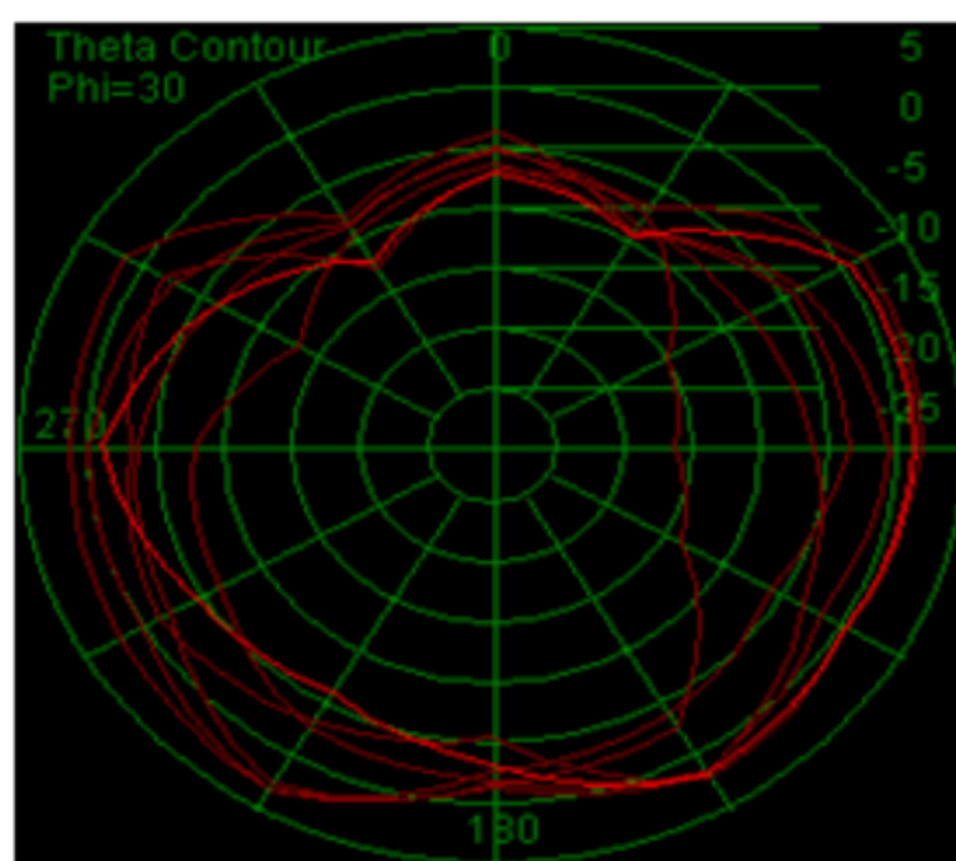
方向图 Patten

1.3 2D Radiation patterns test results (Passive Antenna)

XZ Plane

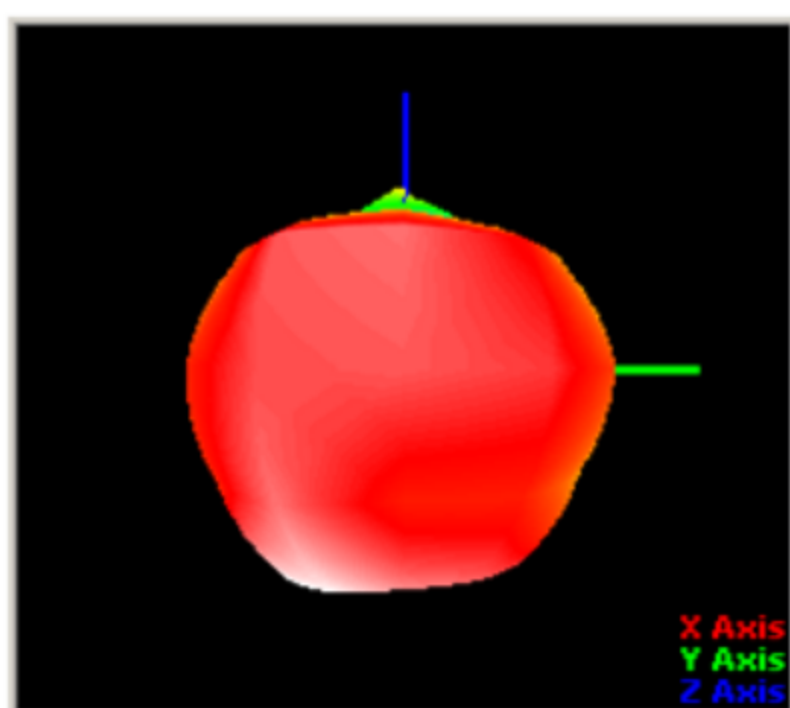


YZ Plane



1.5 3D Radiation patterns test results (Passive Antenna)

3D



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测试效率

Test Efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2412.0	2412.00	1.10	5.64	45.7%	-2.54	1.10	150	300	-16.57	90	120	-2.26	19.66	5.36	-14.31
2	2417.0	2417.00	1.86	5.41	45.6%	-2.55	1.86	150	300	-16.45	60	120	-2.25	19.31	5.11	-14.20
3	2422.0	2422.00	1.89	5.29	47.6%	-2.40	1.89	150	330	-16.89	60	120	-2.15	19.78	5.04	-14.74
4	2427.0	2427.00	1.25	4.75	46.3%	-2.49	1.25	150	330	-15.81	60	120	-2.46	18.06	4.71	-13.35
5	2432.0	2432.00	1.70	4.43	43.3%	-2.74	1.70	150	300	-17.17	90	120	-2.75	18.86	4.45	-14.41
6	2437.0	2437.00	1.55	4.96	47.4%	-2.41	1.55	150	300	-19.29	120	120	-2.43	21.84	4.98	-16.86
7	2442.0	2442.00	1.80	4.30	46.2%	-2.50	1.80	150	300	-15.75	60	120	-2.65	17.55	4.45	-13.10
8	2447.0	2447.00	1.45	4.19	43.2%	-2.74	1.45	150	300	-17.78	90	120	-3.11	19.22	4.56	-14.67
9	2452.0	2452.00	1.33	3.86	45.8%	-2.53	1.33	150	330	-17.63	60	120	-2.97	18.96	4.30	-14.66
10	2457.0	2457.00	1.90	4.43	45.8%	-2.53	1.90	150	300	-16.84	120	120	-2.95	18.74	4.85	-13.89
11	2462.0	2462.00	0.87	3.67	42.5%	-2.80	0.87	90	330	-17.57	60	120	-3.26	18.44	4.13	-14.31
12	2467.0	2467.00	1.35	3.82	46.6%	-2.47	1.35	90	330	-16.19	90	120	-2.89	17.55	4.24	-13.31
13	2472.0	2472.00	1.71	4.09	47.8%	-2.38	1.71	120	330	-16.10	90	120	-2.71	17.81	4.42	-13.39
14	2484.0	2484.00	1.55	3.98	47.1%	-2.43	1.55	150	300	-14.03	60	120	-2.72	15.58	4.27	-11.31
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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