

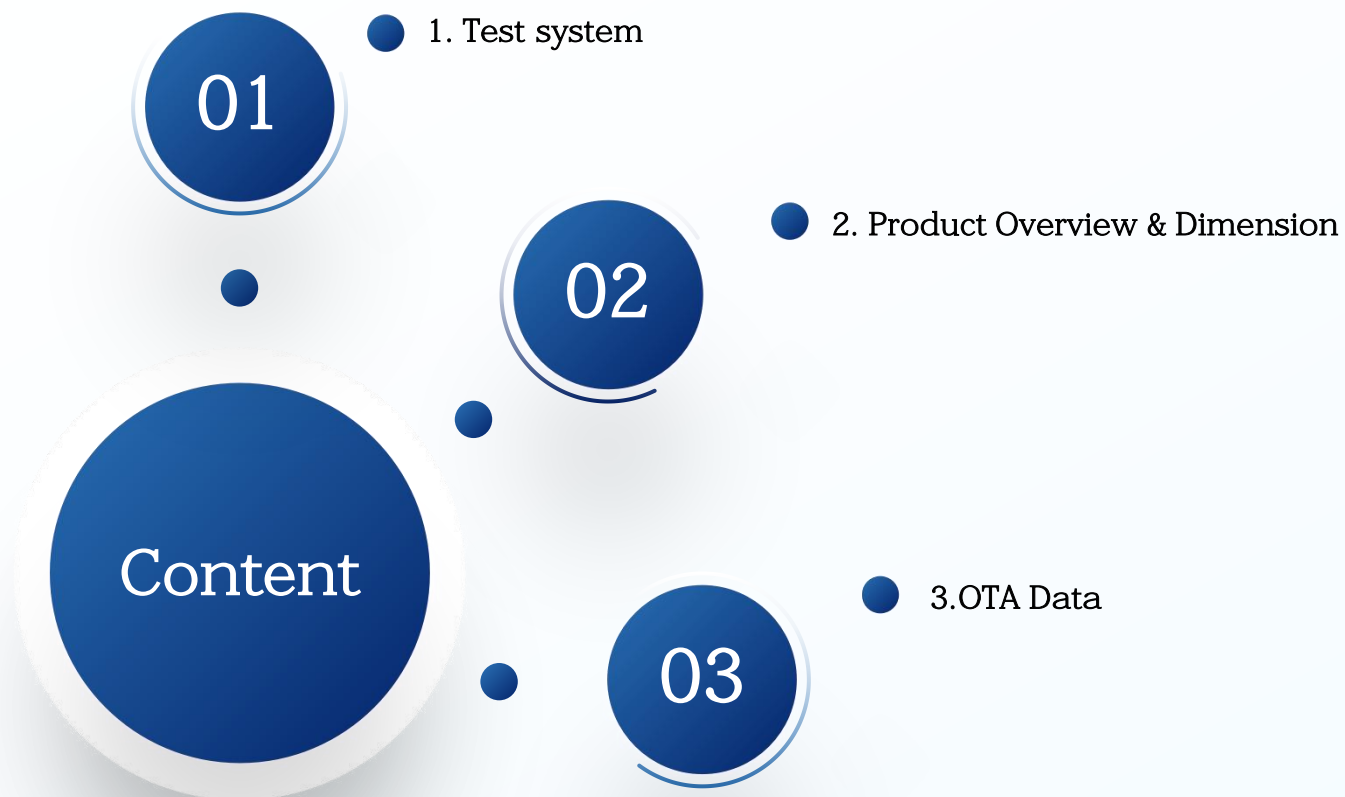


深圳合翊讯科技有限公司
Shenzhen Heyixun Technology Co., Ltd.

Customer	六联
Project	M8786-T30J-160MG
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2026. 8. 3

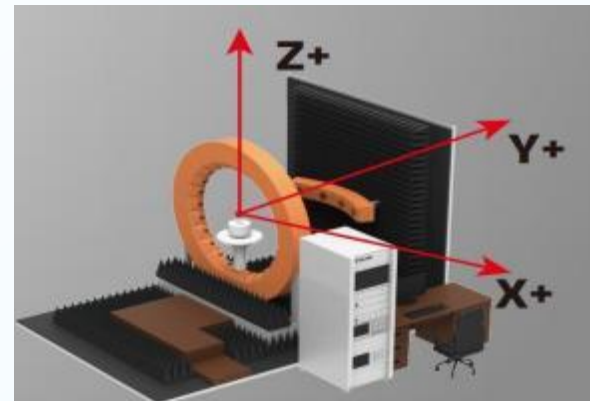
Purpose

This report is to measure the performance of antenna for **M8786-T30J-160MG** The antenna operating frequency at 1575.5MHZ 2400-2500MHZ 4800-5850MHZ All test data are showed as below.



1.TestSystem

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C

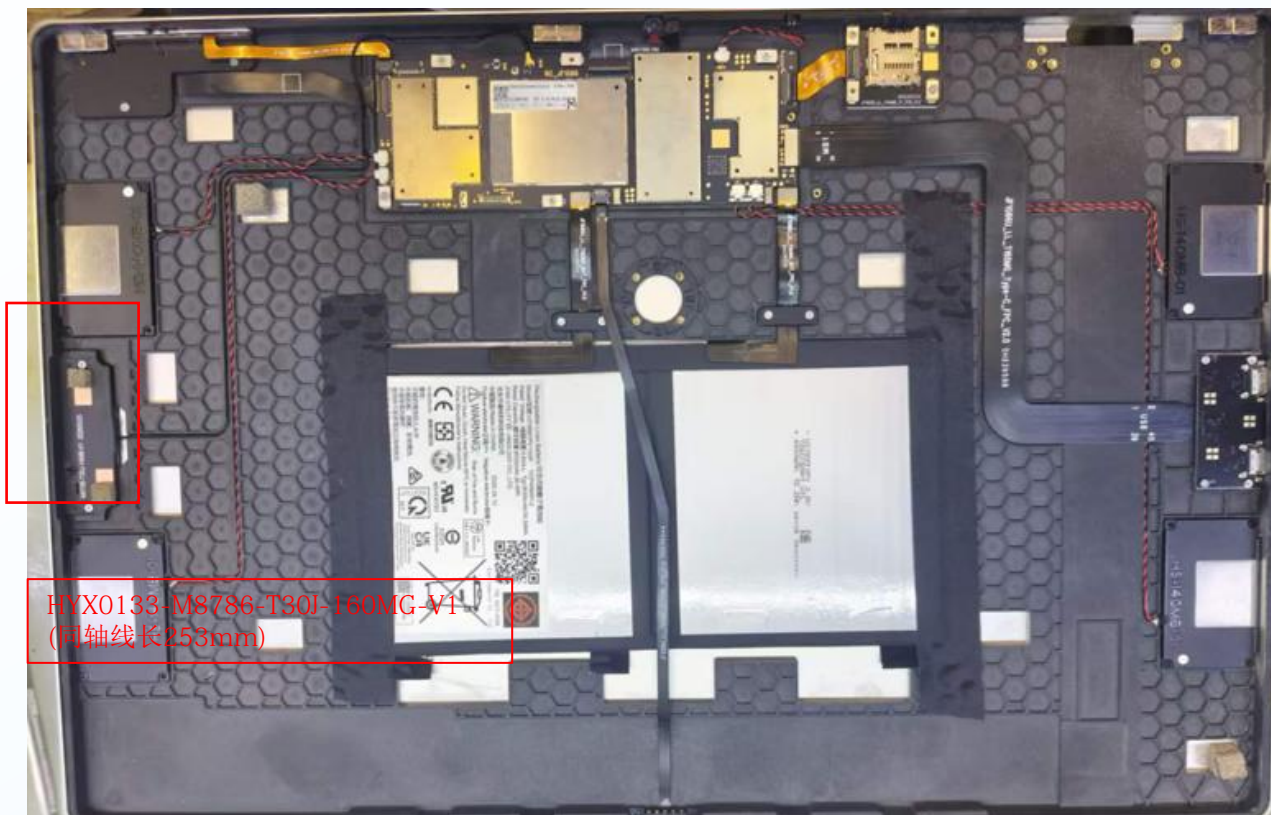
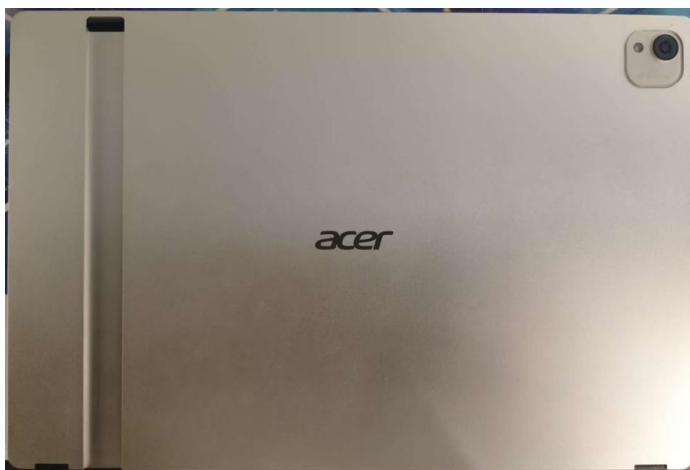


产品图片:

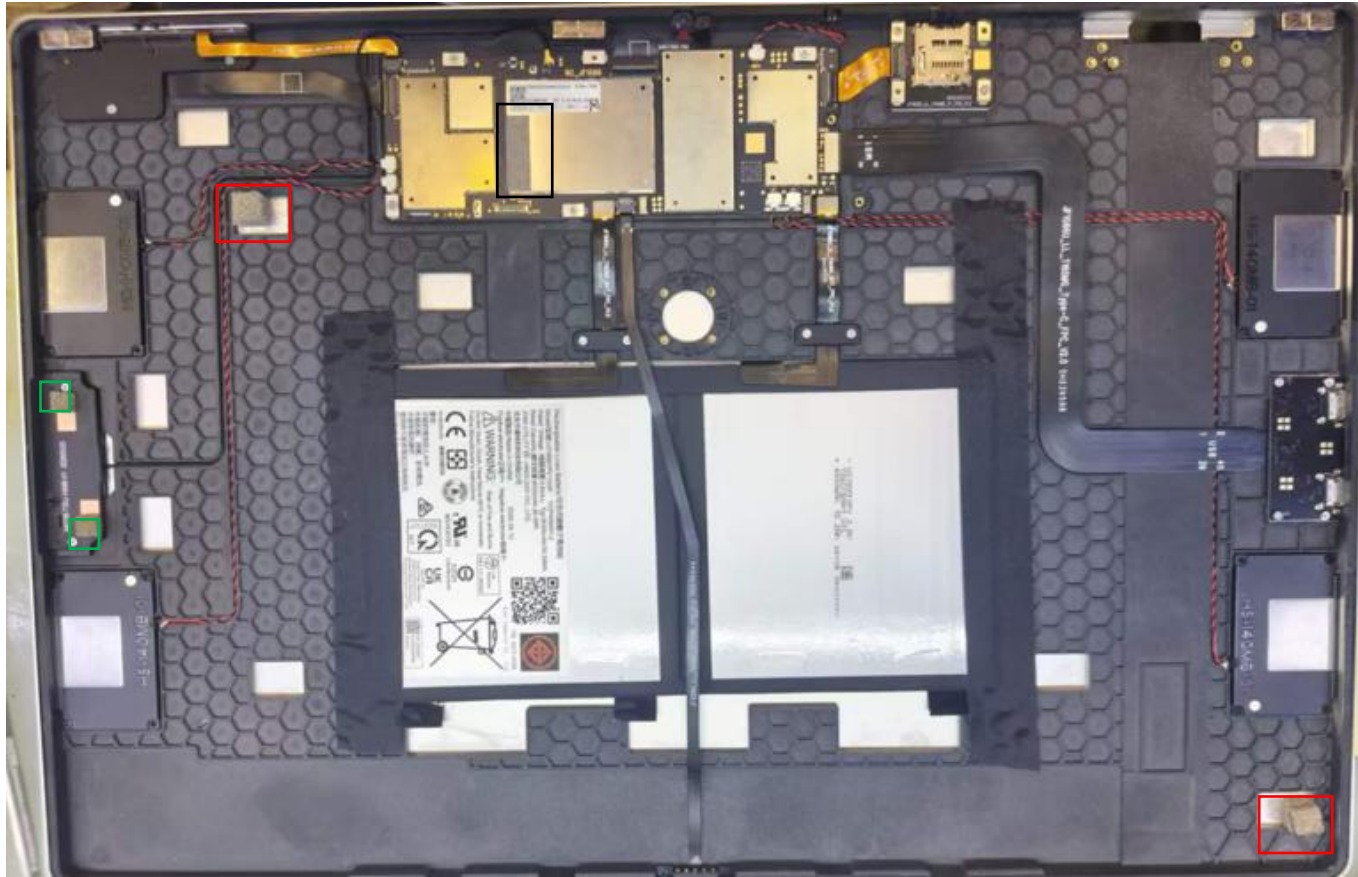
Front



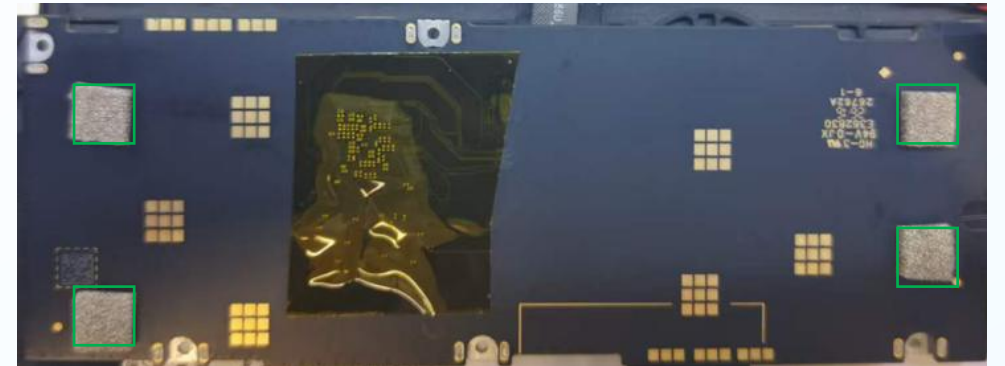
Back



环境处理:



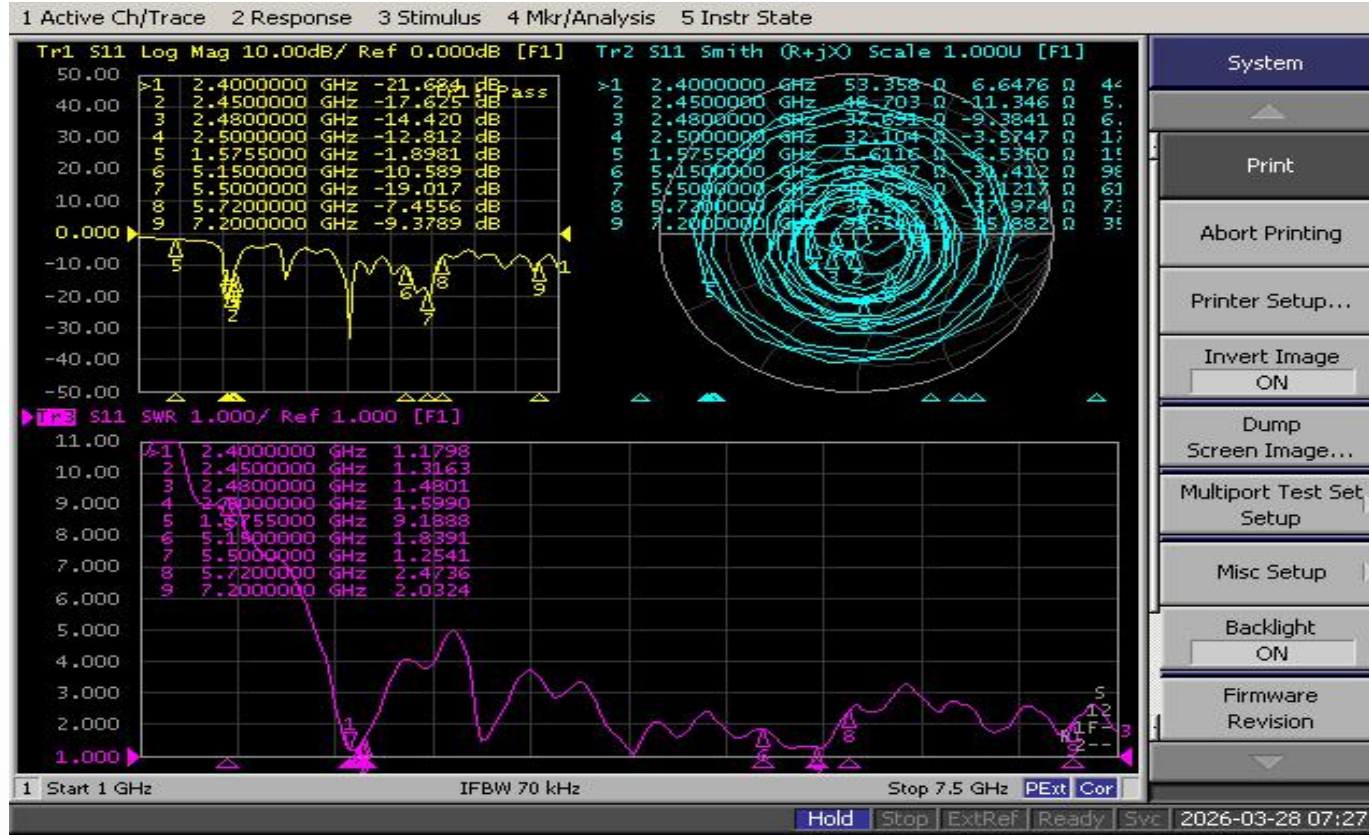
红色泡棉10*10*5mm
黑色泡棉8*20*2mm
绿色泡棉5*5*2mm



*注意：接地点对应底壳位置，金属需要漏出来。

2 Test

Result VSWR&Log Mag&Smith(Ω) WIFI



Frequency (MHz)	2400	2450	2480	2500	5150	5500	5720
Log Mag	-21.68	-17.63	-14.42	-12.81	-10.59	-19.01	-7.46
Smith(Ω)	53.36	48.70	37.69	32.10	62.70	40.69	37.62
VSWR	1.18	1.32	1.48	1.60	1.84	1.25	2.47

3.Test Result VSWR&Log Mag&Smith(Ω) WIFI

3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	32.63	-0.07
2410	33.47	0.36
2420	34.62	-0.12
2430	35.27	0.54
2440	34.62	0.33
2450	34.09	0.43
2460	33.82	0.61
2470	32.19	0.52
2480	31.94	0.17
2490	30.82	-0.21
2500	29.43	-0.36

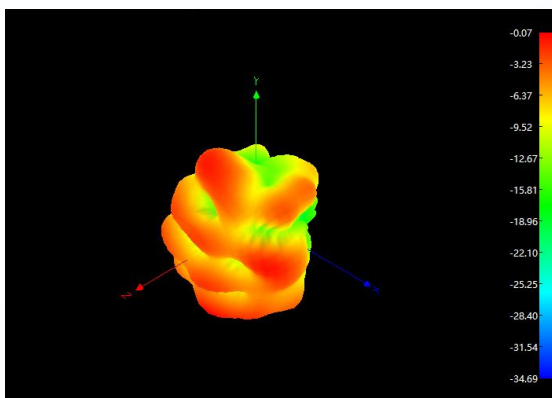
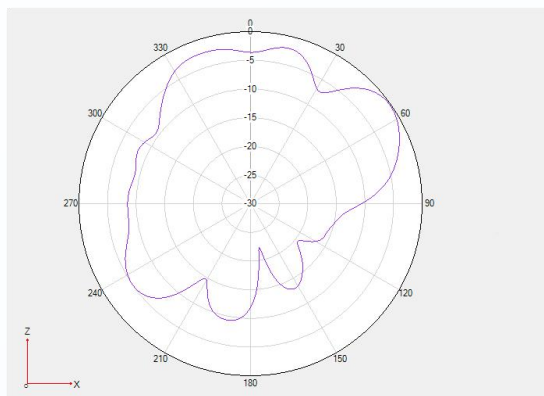
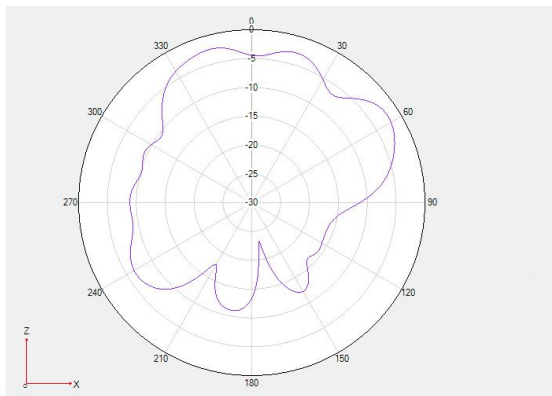
3. Test Result VSWR&Log Mag&Smith(Ω) WIFI

3.2 Gain & Efficiency——ANT

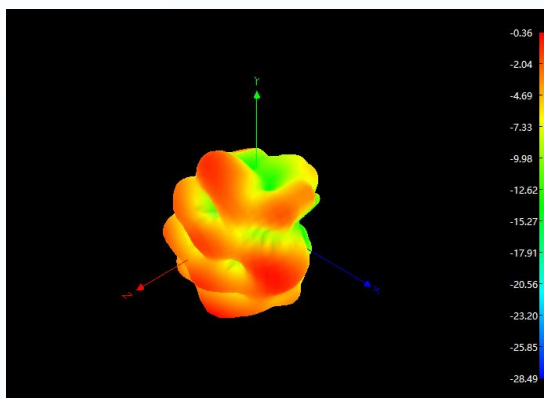
Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
4800	30.26	-0.74
4900	33.54	-0.89
5000	34.62	-1.12
5100	36.71	-0.73
5200	35.43	-0.94
5300	36.41	-1.23
5400	37.26	-0.99
5500	36.53	-1.14
5600	35.47	-1.23
5700	34.33	-0.87
5850	32.19	-0.66

3. Test Result

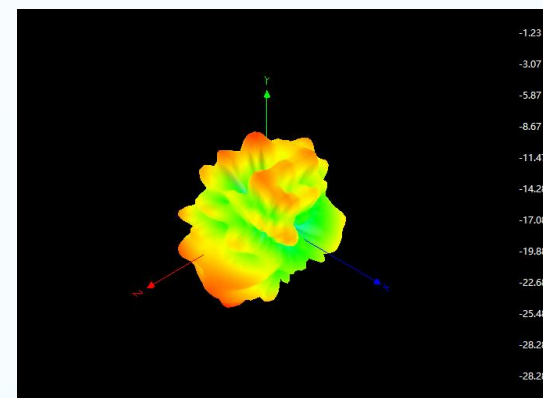
3.1 2D Pattern—BTANT



2400MHz



2500MHz



5300MHz

3.4-OTA Data

Test Equipment:	R&S CMW500			
Test Condition:	3 D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TRP(dBm)
WIFI	802.11 b/ 11Mbps	1	10.81	-80.27
		6	11.62	-80.97
		11	10.71	-80.62
	802.11 A/54Mbps	36	8.81	-69.13
		100	9.43	-69.54
		149	8.71	-69.33

WORK REPORT

谢谢观看