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深圳市云希科技有限公司
ShenZhen Yunxi Technology Co.,Ltd.

Antenna test Report

Customer:Chileaf

Project Name:PS215

RF Engineer:Mr.Xiang

Testing Date:2025-06-20

Address:Room 401, Building 3, Sanli Industrial Park, No.4 Chuangjian Road, Lijin Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China

云希科技射频空间

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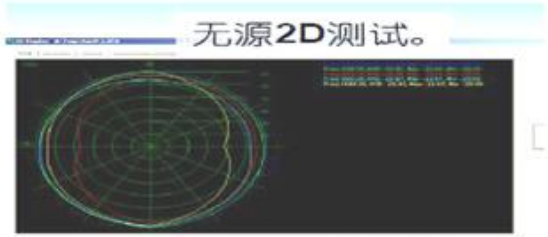
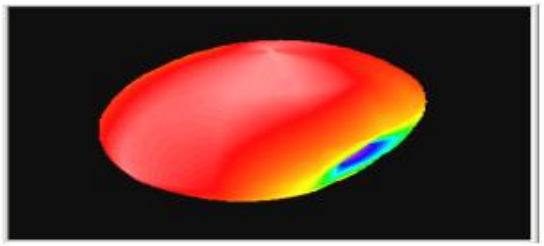
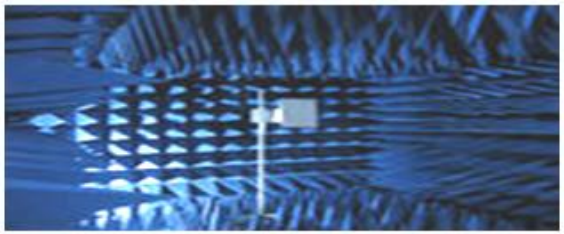
Project brief

NO.	ITEMS	DETAILS
1	工作频段 Operating band	BT
2	频率范围 Frequency range	2400~2500MHz
3	天线类型 Antenna Type	内置 Internal FPC Antenna
4	天线材质及实现形式	FPC Antenna intalled inside of enclosure
5	天线料号 Antenna part number 天线料号 Antenna part number	**F1524A-1B2-A**
6	输入阻抗 Input Impedance	**50（Ω）**
7	增益 Gain	
	RF	Mr. Xiang
	ME	Mr, Zou

Test system and equipment

	Test Items	Equipments
1. S Parameters	1. Return loss 2. SWR	Network analyzer: HP E5071C/Agilent8753D
2. Coupling power test	1.Transmitted power 2.Receive sensitivity	GSM Tester: Agilent 8960 LTE Tester: CMW500
3. Radiation mode and gain	1. Radiation mode 2. Antenna gain	1. Darkroom：7x4x3 m (ETS-3D) 2. Network analyzer：HP **Agilent8753ES**



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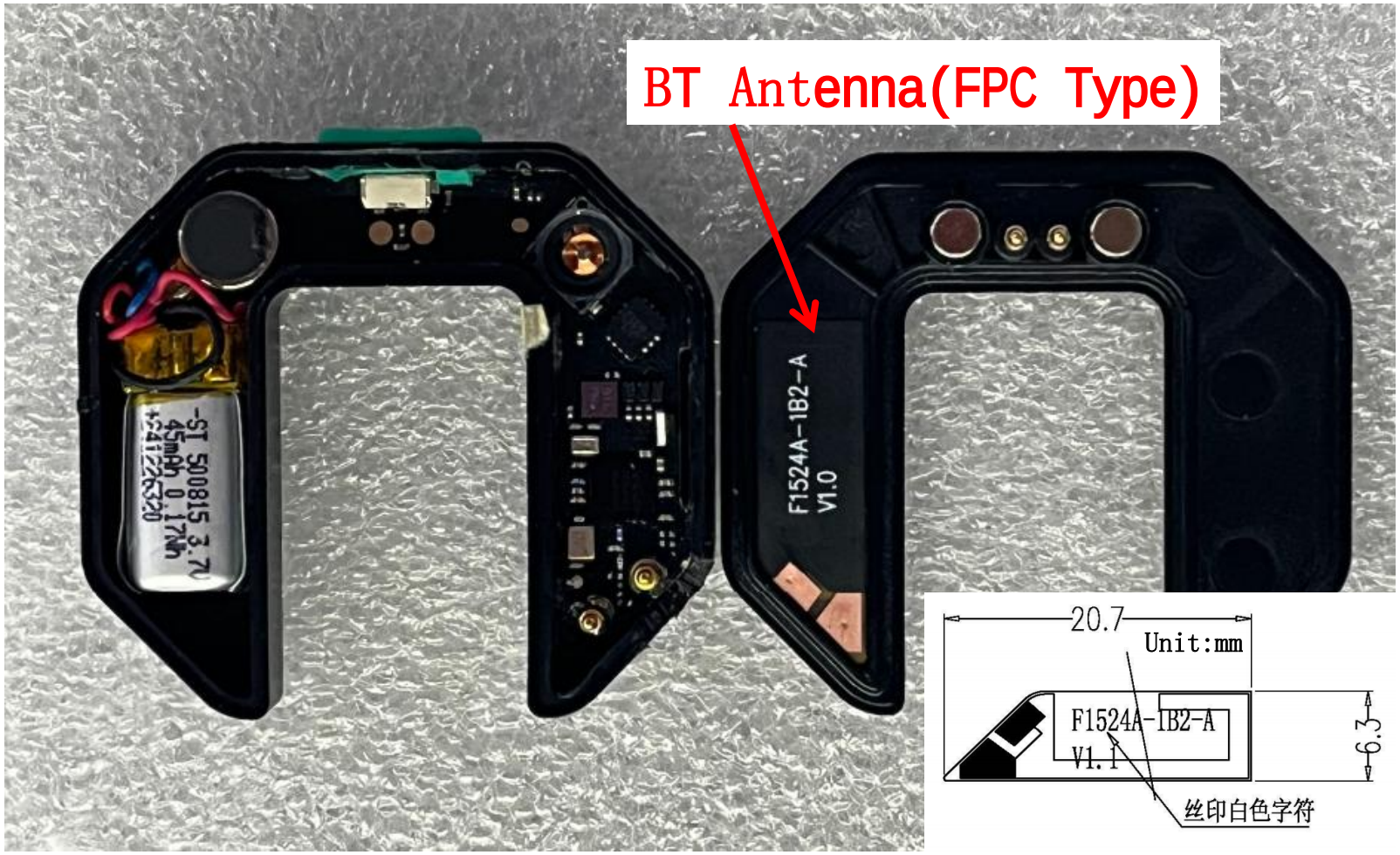
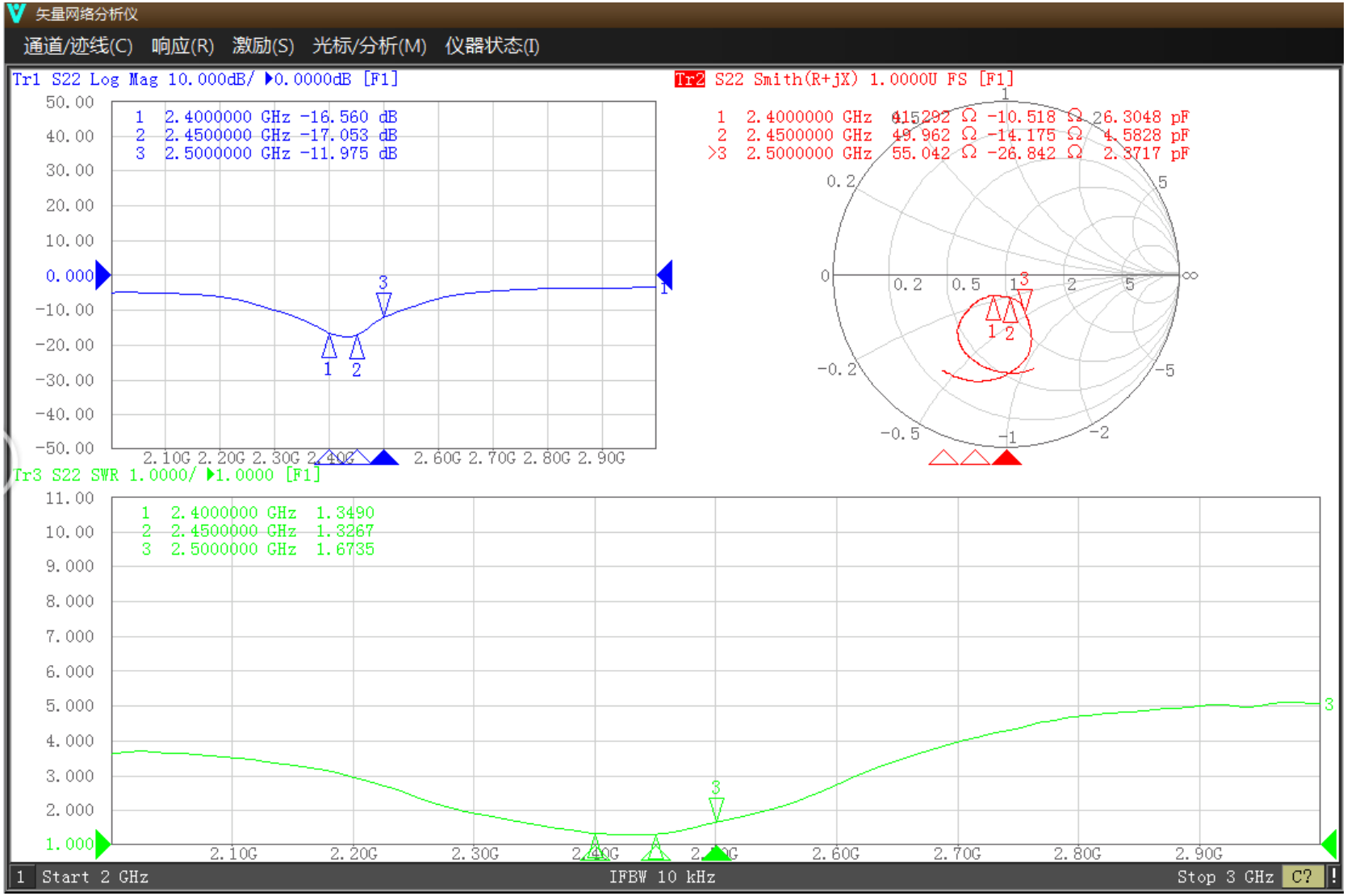
Antenna assembly environment processing diagram



Antenna Performance Test



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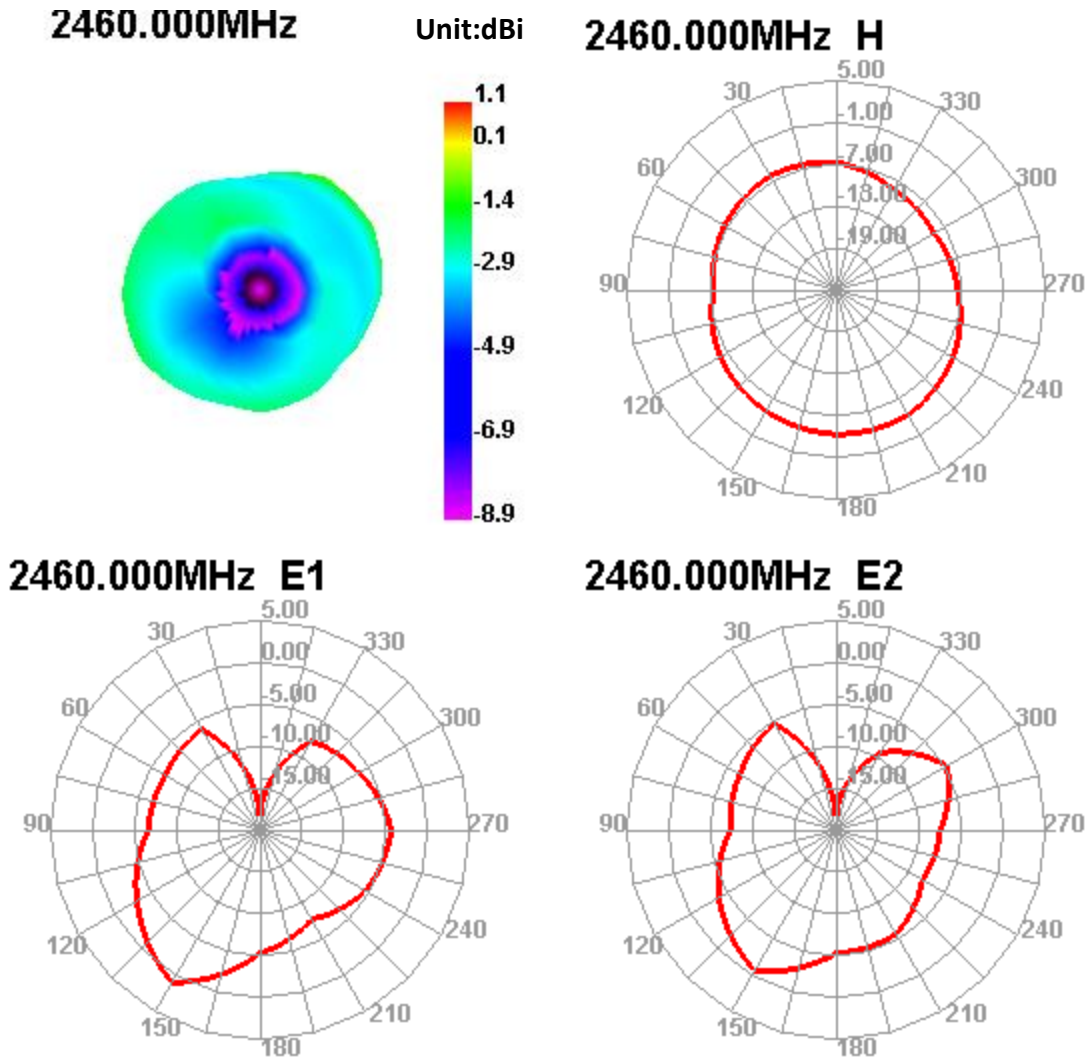
Passive Test For BT			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	28.7	-5.4	0.3
2410	28.6	-5.4	0.3
2420	29.7	-5.3	0.5
2430	29.1	-5.4	0.4
2440	30.6	-5.2	0.8
2450	31.4	-5.0	1.0
2460	30.6	-5.1	1.1
2470	28.7	-5.4	0.8
2480	28.3	-5.5	0.8
2490	28.2	-5.5	0.8
2500	27.9	-5.5	0.8

Antenna Pattern