

ShenZhen Yunxi Technology Co.,Ltd.

Antenna Specification

Customer: Hongteng

Project Name: HT9107_V1.2

RF Engineer: Towards the factory Testing Date: 2026-07-27

Operating band: BT

Manufacturer: Shenzhen Yunxi Technology Co., Ltd.

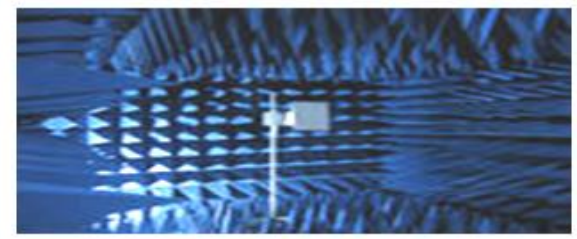
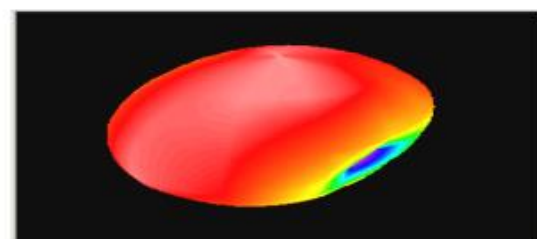
Address: 3rd Floor, Building A1, Xinyuan Industrial Zone, Gushu Shangwei Garden,
Xixiang Street, Bao'an District, Shenzhen, China

Project brief

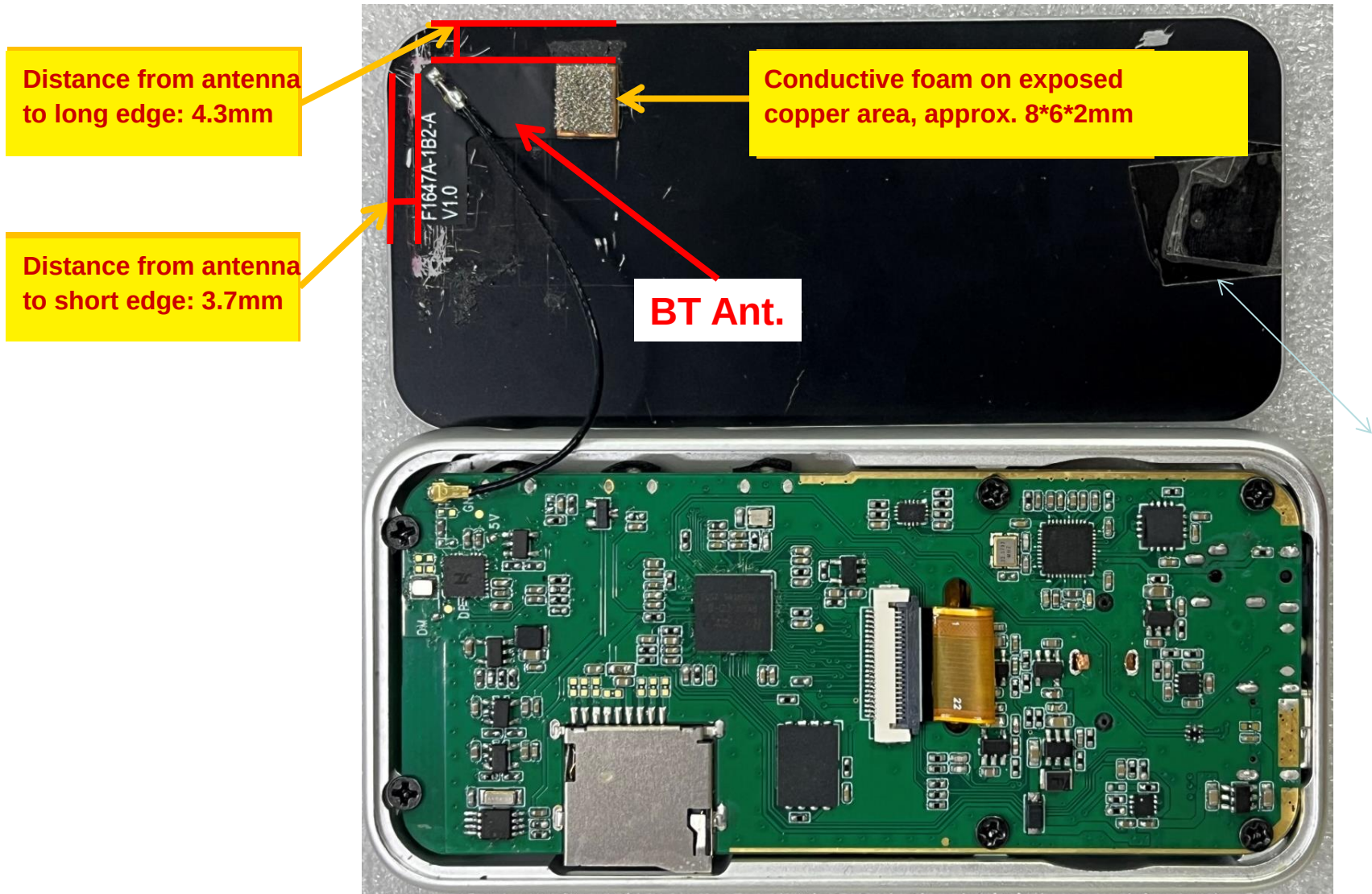
NO.	ITEMS	DETAILS
1	Operating band	BT
2	Frequency range	2400~2500MHz
3	Antenna Type	FPCB ANT
4	Antenna Materials and Implementation Forms	The FPC is attached to the back cover.
5	Antenna part number	F1647A-1L23-060-A
6	Input Impedance	50 Ohm

Test system and equipment

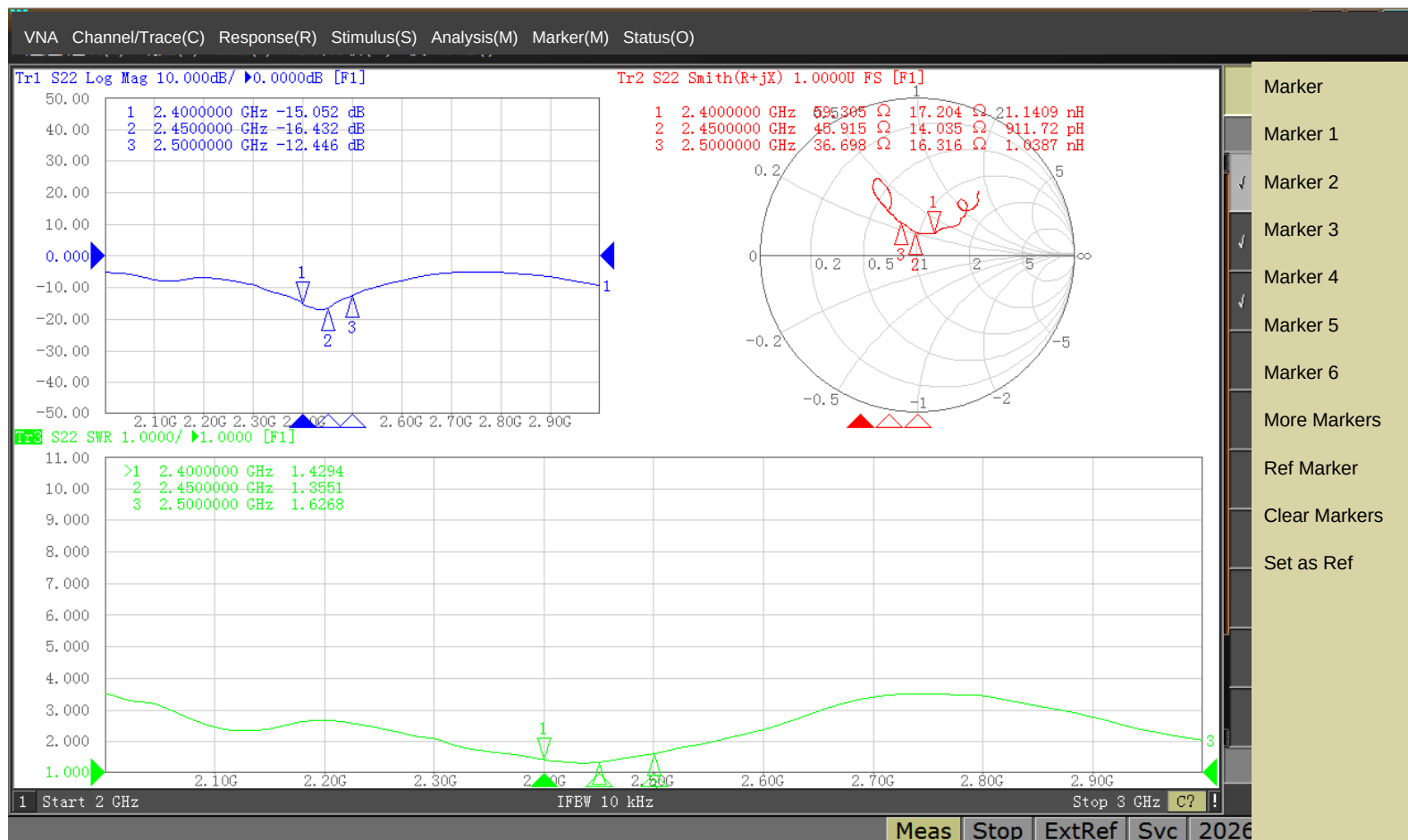
	Test Items	equipment
1. S-parameters	1. Return loss 2. Standing wave ratio	Network Analyzer: HP E5071C / Agilent 8753D
2. Coupled Power Test	1. Transmit Power 2. Receive Sensitivity	GSM Tester: Agilent 8960 LTE Tester: CMW500
3. Radiation Pattern and Gain	1. Radiation Pattern 2. Antenna Gain	1. Anechoic Chamber: 7x4x3m (ETS-3D) 2. Network Analyzer: HP Agilent 8753ES



Antenna assembly environment processing diagram



Antenna Performance Test



Antenna Passive Test

Passive Test For BT			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	27.5	-5.6	-2.1
2410	27.3	-5.6	-2.1
2420	28.3	-5.5	-1.7
2430	28.5	-5.5	-1.7
2440	28.0	-5.5	-1.9
2450	27.8	-5.6	-2.0
2460	27.1	-5.7	-2.2
2470	26.6	-5.7	-3.0
2480	26.0	-5.9	-2.8
2490	25.4	-6.0	-2.8
2500	24.9	-6.0	-2.3