

Shenzhen Qianmu Communications Technology Co., Ltd.

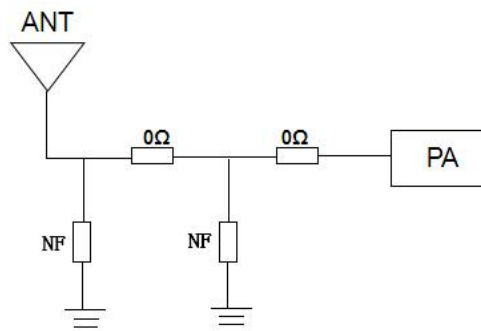
Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna Sample Acknowledgement Certificate

Applicable model	M70、M71、M72		
Client	Dongxin Taihe (Guangzhou) Co., Ltd.		
Specification Description			
	Product Content	Specifications	Customer Material Code
Specification Description	Bluetooth antenna	Electronic wire, 0.6×25 mm, single-ended tin-plated, black	Y.01.15.0007
Edit Resume			
Order number	Date	Edition	Change Summary
1	2026-01-06	V1.0	New Project
2			
3			

Supplier Sample Confirmation					
Research and development	Structure	Examine and verify	Judge		
			PASS ☒ FAIL ☐		
Customer Sample Confirmation					
Electron	Structure	Project	Purchase	Quality	Examine and verify
Reason for refusal or other important notes:					

1、 Matching Circuit –BT Antenna



Your company's original matching circuit has not been modified in any way.

2、 BT Antenna Environmental Processing



The Bluetooth cable's end and the entire Bluetooth cable should not be placed near devices with iron frames or motherboards.

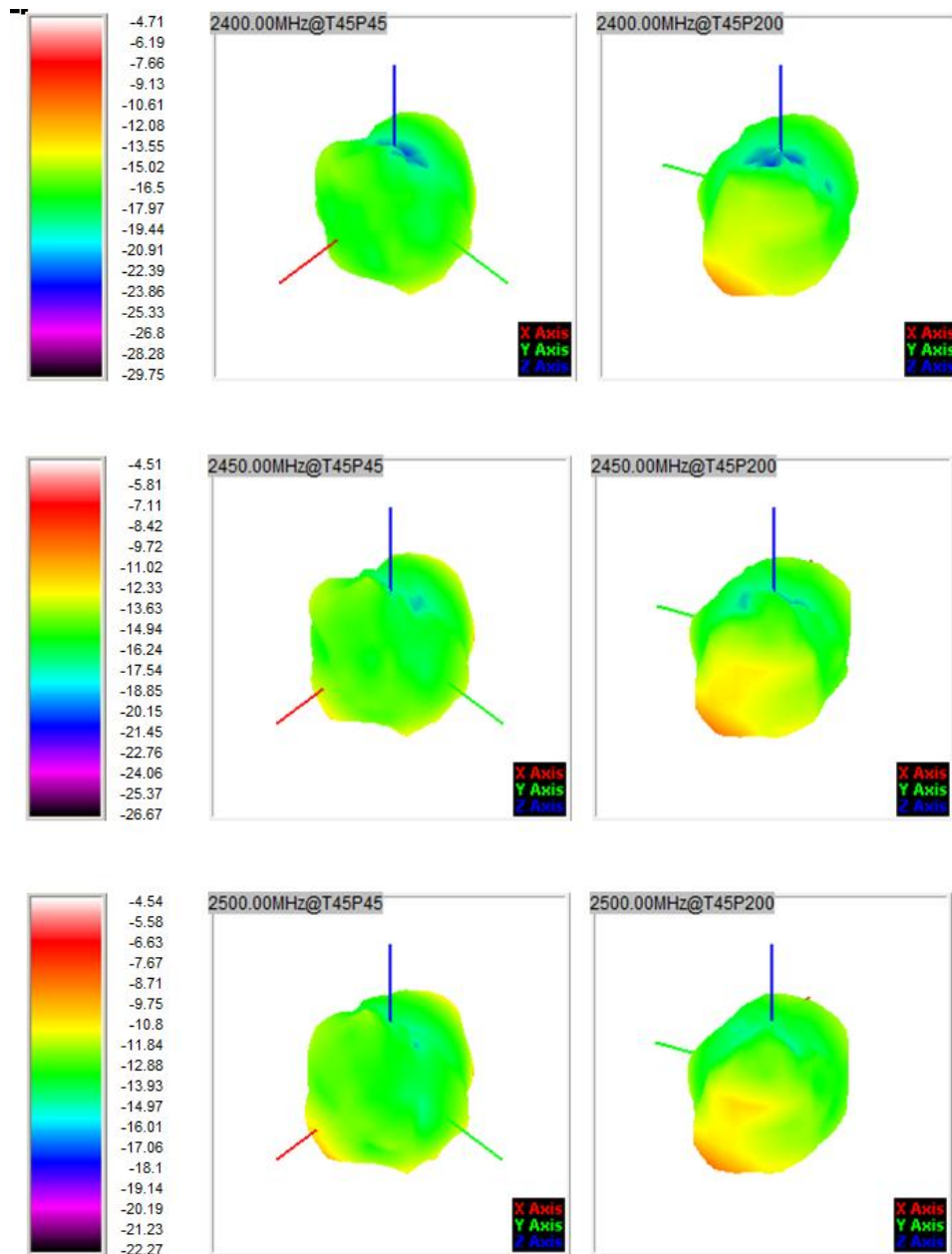
Bluetooth cable with rubber foam padding for height adjustment and fixation, featuring an iron-framed base to maintain distance.

3、WIFI/BT Antenna – Passive Efficiency and Gain

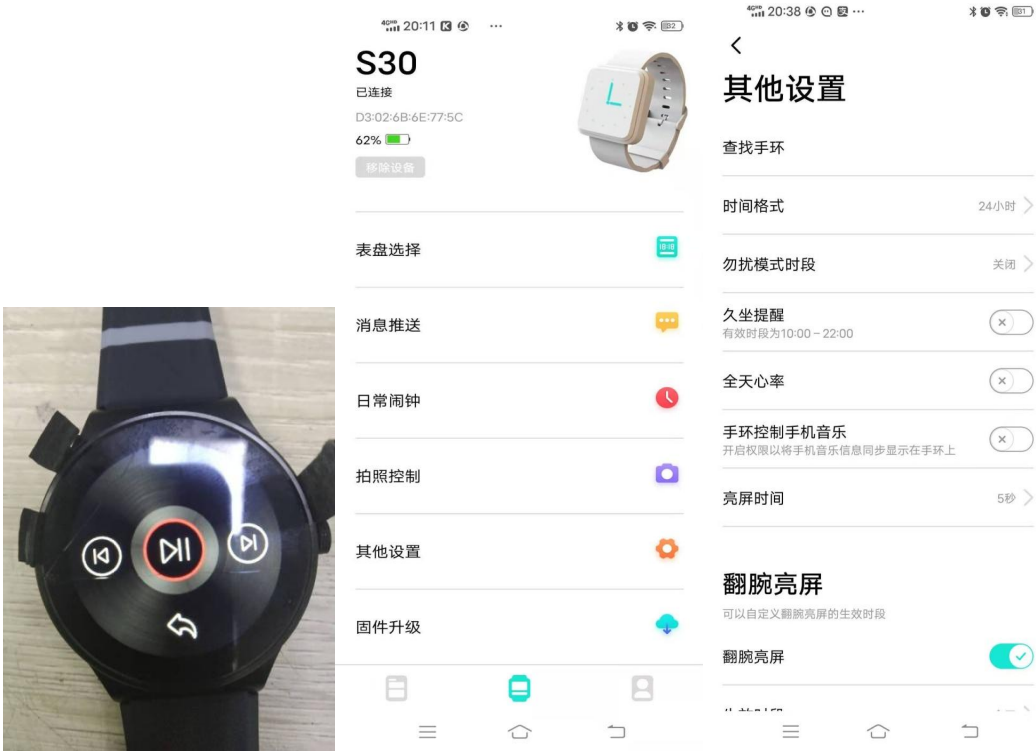
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-11.43	-11.46	-11.32	-11.15	-11.03	-10.74	-10.70	-10.89	-10.83	-10.58	-10.48
Peak EIRP (dBm)	-4.71	-4.89	-4.83	-4.76	-4.69	-4.51	-4.62	-4.89	-4.95	-4.75	-4.54
Directivity (dBi)	6.71	6.57	6.49	6.40	6.35	6.23	6.08	6.00	5.88	5.83	5.94
Efficiency (dB)	-11.43	-11.46	-11.32	-11.15	-11.03	-10.74	-10.70	-10.89	-10.83	-10.58	-10.48
Efficiency (%)	7.20	7.10	7.40	7.70	7.90	8.40	8.50	8.20	8.30	8.70	9.00
Gain (dBi)	-4.71	-4.89	-4.83	-4.76	-4.69	-4.51	-4.62	-4.89	-4.95	-4.75	-4.54
NHPRP $\pm$ Pi/4 (dBm)	-12.68	-12.71	-12.59	-12.43	-12.31	-12.01	-11.97	-12.16	-12.11	-11.87	-11.76
NHPRP $\pm$ Pi/6 (dBm)	-14.25	-14.24	-14.09	-13.90	-13.77	-13.46	-13.42	-13.63	-13.59	-13.36	-13.24
NHPRP $\pm$ Pi/8 (dBm)	-15.54	-15.50	-15.32	-15.12	-14.98	-14.67	-14.64	-14.84	-14.80	-14.57	-14.43
Upper Hem. PRP (dBm)	-15.99	-15.99	-15.84	-15.64	-15.48	-15.18	-15.13	-15.34	-15.30	-15.10	-15.02
Lower Hem. PRP (dBm)	-13.29	-13.35	-13.22	-13.06	-12.97	-12.67	-12.64	-12.82	-12.74	-12.48	-12.36
Upper Hem. PRP (%)	2.52	2.52	2.61	2.73	2.83	3.04	3.07	2.93	2.95	3.09	3.15
Lower Hem. PRP (%)	4.68	4.62	4.77	4.94	5.05	5.40	5.44	5.23	5.32	5.65	5.81

Efficiency (%)

4、Antenna Pattern and Apple Diagram



5、 BT Antenna Field Measurement



Music Control Test

Connection Test Interface

6、 BT Antenna Field Measurement



testing software

BT Actual Connection APP Test:

- 1. For Android smartphones connected to a fitness tracker to control the phone for playing music, the maximum indoor straight-line distance without obstacles is over 15 meters.
- 2. Bluetooth cable specifications: L=25 mm, D=0.6 mm

7、 Structural Drawings

