

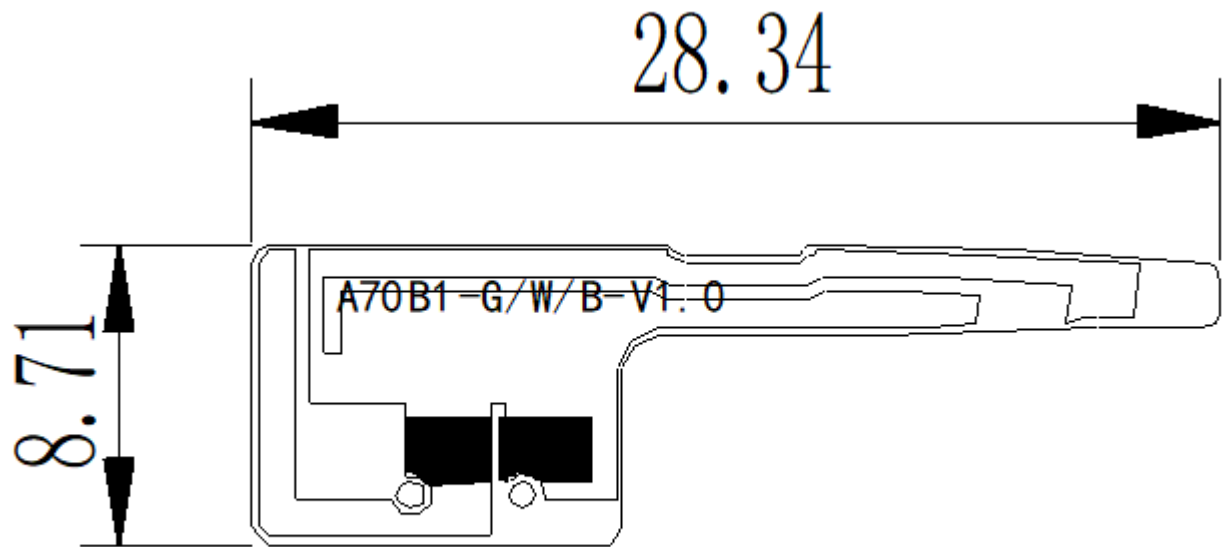
Shenzhen Sanhao Wireless Communication Co. , Ltd.

50, Jinfulai Complex Building, No. 49-1 Dabao Road, Dalang Community, Xin 'an Street, Bao 'an District, Shenzhen China

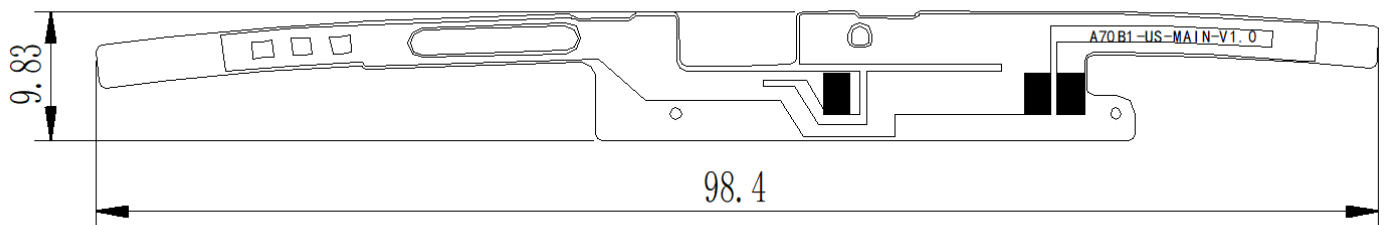
Specification

客户 Customer	亿博通 EBOT	规格型号 Specs	A70B1 (K69)
三好料号 Part Number		频 段 Frequency Band	BT&2.4G WIFI:2400~2483.5MHZ 5GWIFI:5150~5850Mhz GPS:1575Mhz GSM850/900/1800/1900 WCDMA1/2/5/8 B2.3.4.5.7.8.12.17.28AB
颜 色 Color	black	版 本 Edition	REV:A1
销 售 Salesperson		设 计 Design	付雄 Xiong Fu
结 构 Structure	李富伦 Fulun Li	确 认 Confirm	周武 Wu Zhou
日 期 Date		签字日期 Signing Date	
客户确认 Customer confirmation:			
Join hands to create the future			

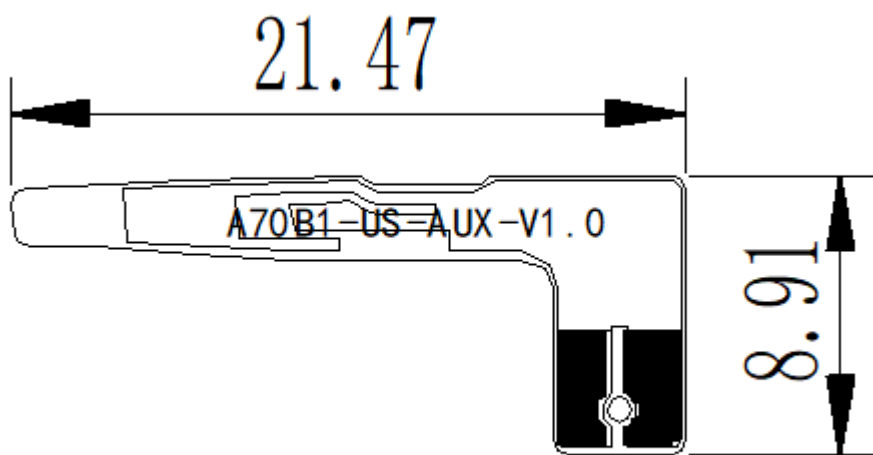
Three in one antenna



Main set antenna



Diversity antenna



二、Electrical performance

1.Specifications

The operating frequency band of A70B1 antenna is 699~960MHZ and 1710~2700MHZ, in which resonance occurs.

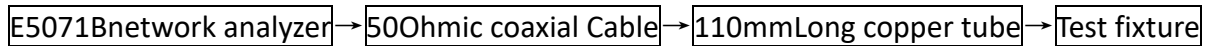
2.Matching circuit of antenna

Structure of antenna: FPC

三、 Test of parameters

1.Test settings

The connection of VSWR test device is:



Treatment of test fixture:

Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, connect it to the copper tube with a choke, and then connect other devices in turn.

Passive parameters of main antenna:

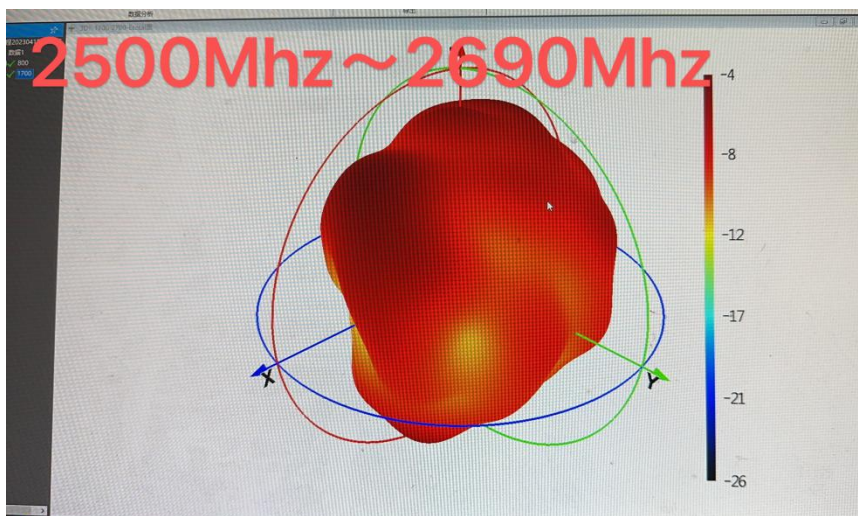
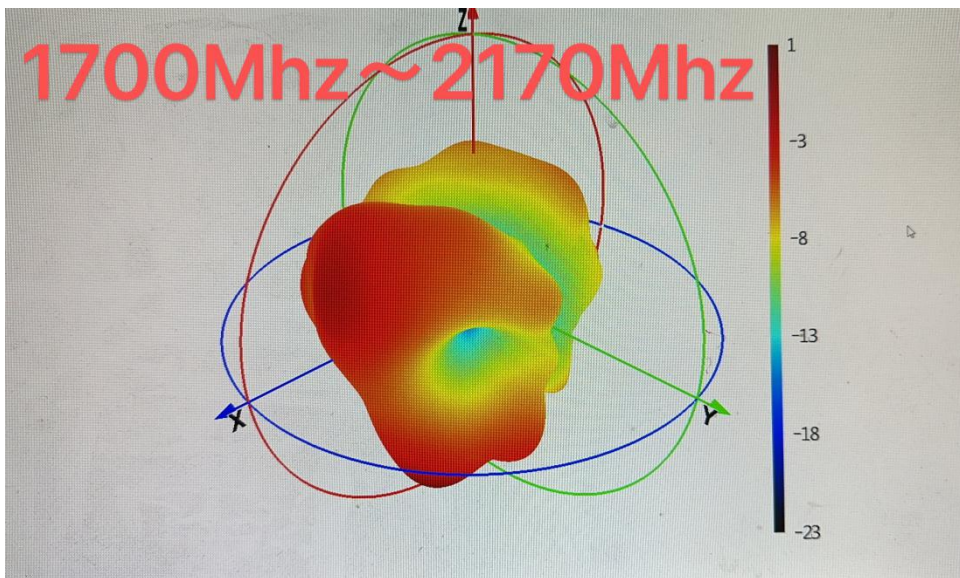
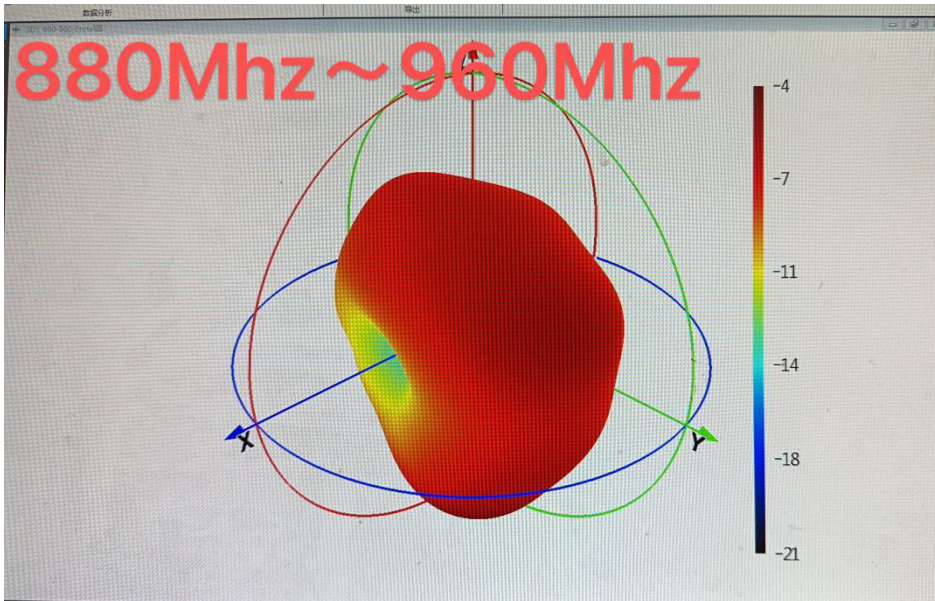
工作频段(Working frequency band): 699~960MHZ, 1710~2700MHZ

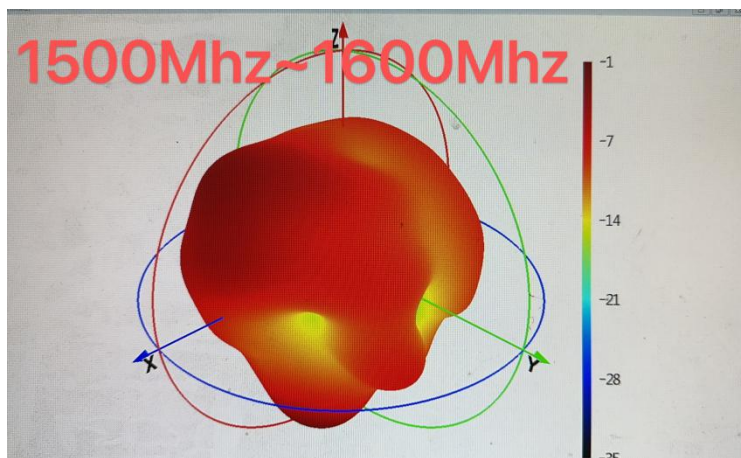
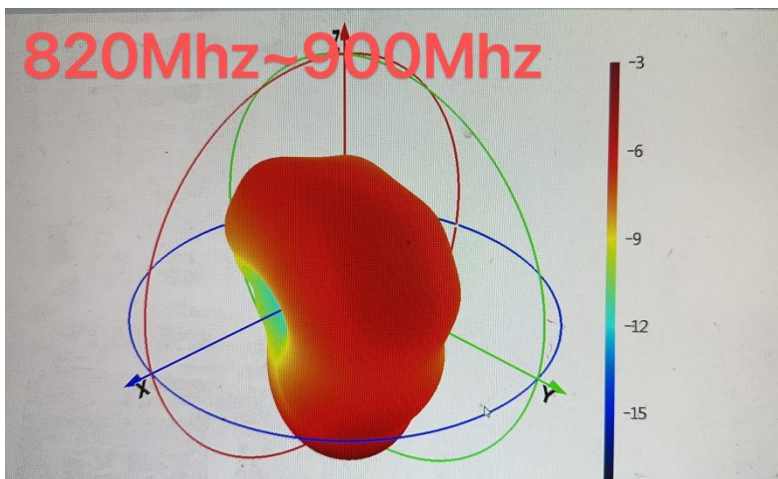
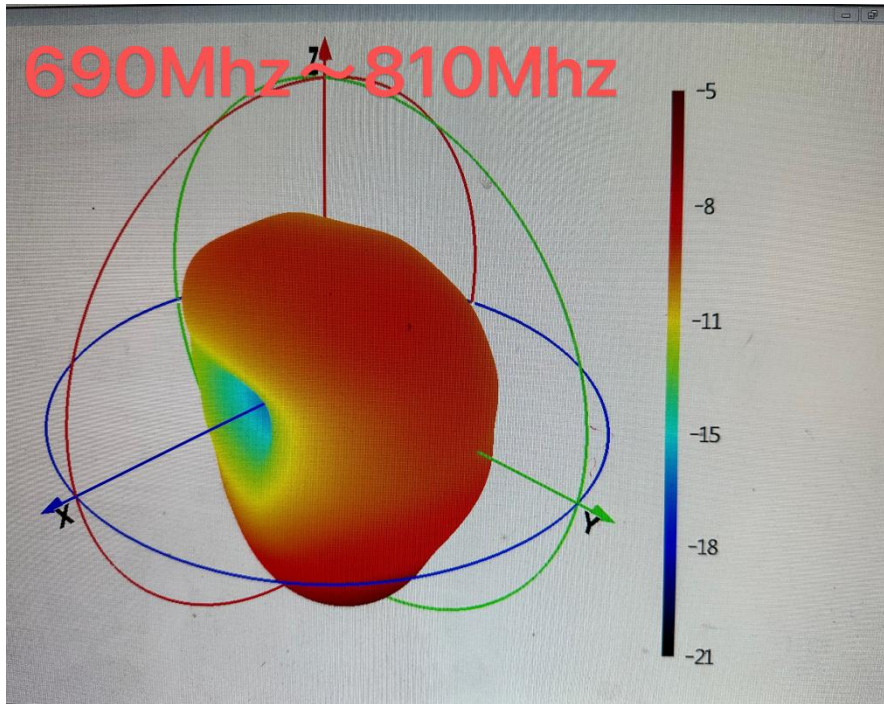
GSM850/900/1800/1900

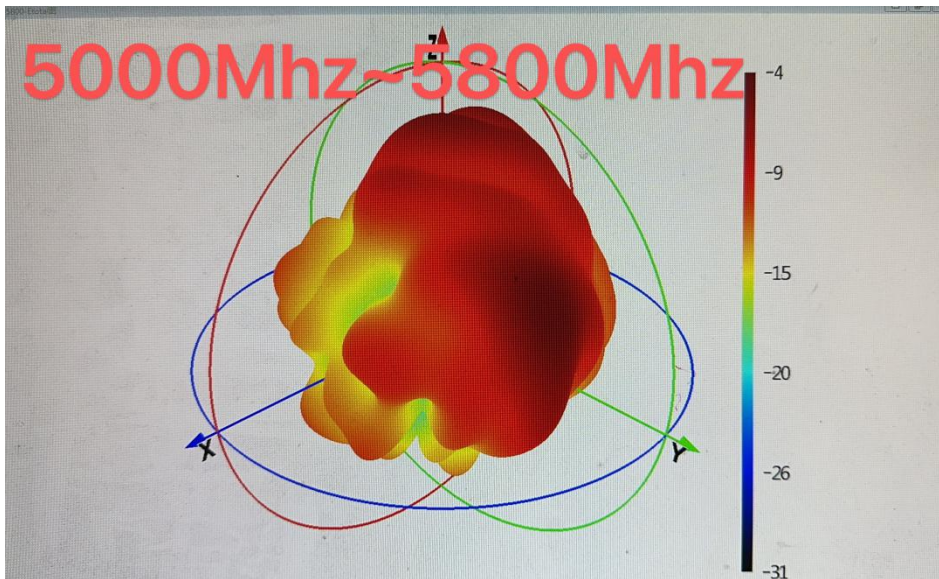
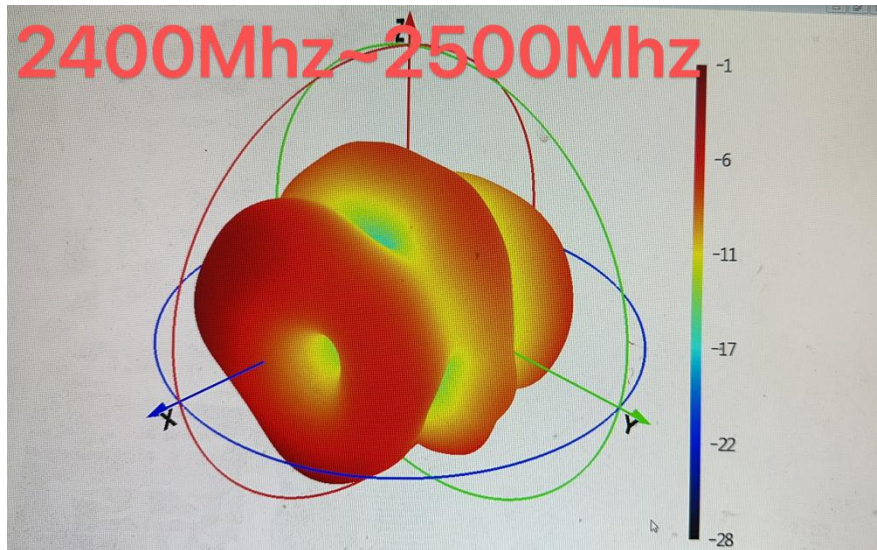
WCDMA1/2/5/8/

B2.3.4.5.7.8.12.17.28AB

Gain	
频段 Band	gain 增益 (dBi)
LTE-B12/B17/B28	-4.2
GSM850,WCDMA-B5,LTE-B5	-3.7
GSM900,WCDMA-B8,LTE-B8	-3.8
DCS1800,LTE-B3,	0.96
LTE-B4	0.78
PCS1900,WCDMA-B2,LTE-B2	0.83
WCDMA-B1	0.46
LTE-B7	-3.3
GPS	-1.37
2.4G WIFI/BT	-1.1
5GWIFI	-3.1







GPS/WIFI/BTPassive parameters of antenna:

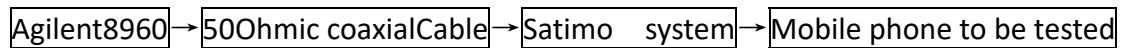
工作频段(Working frequency band): 1560~1580MHZ, 2400~2500MHZ

2.test result

business as usual.

四、Active test setup

The active test devices are sequentially connected as follows:



1.Test site

AW microwave anechoic chamber: the test frequency range is 400MHz - 6GHz, the quiet zone range is 40cm circumference, and the reflectivity is less than - 90 dB.

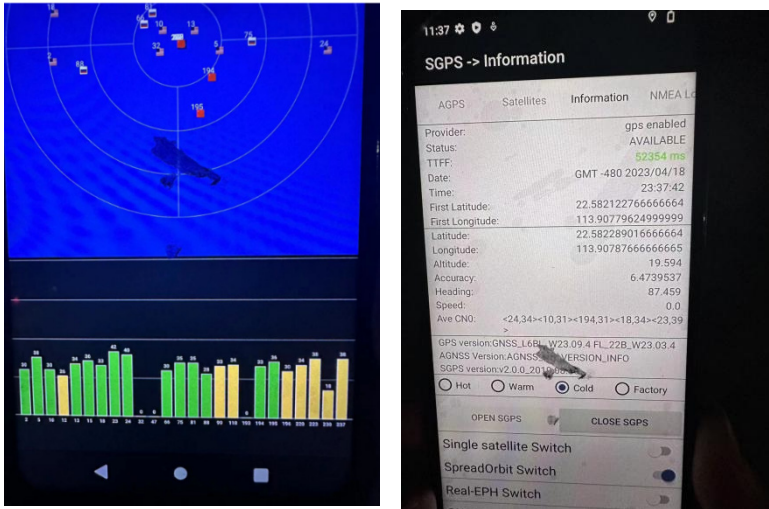
2.test result

The maximum radiation power and maximum receiving sensitivity reflect the maximum power radiation value and the optimal receiving performance of the antenna in the entire radiation space. TRP and TIS reflect the average radiation power and average receiving sensitivity of the antenna, that is, the overall receiving performance of the antenna.

The following is the active test result of A70B1(K69)mobile phone main antenna:

Test data (测试数据)								
2G	CH	TRP	灭屏TIS		4G	CH	TRP	TIS
GSM850	L	23.2			LTE-B2	L	17.39	
	M	23.87				M	17.06	
	H	24.54	-101.87			H	17.94	-91.69
EGSM900	L	23.78			LTE-B3	L	17.08	
	M	24.78				M	17.37	
	H	25.32	-102.23			H	17.26	-91.15
DCS1800	L	24.85			LTE-B4	L	17.33	
	M	24.99				M	17.13	
	H	26.32	-103.82			H	17.81	-91.55
PCS1900	L	24.01			LTE-B5	L	17.62	
	M	23.83				M	16.15	
	H	24.15	-102.88			H	16.79	-90.73
3G	CH	TRP	TIS		LTE-B7	L	15.68	
W-B1	L	16.7				M	16.31	
	M	16.7				H	17.24	-90.33
W-B2	H	16.65	-100.28		LTE-B8	L	15.45	
	L	16.22				M	16.38	
	M	15.94				H	16.77	-90.12
W-B5	H	15.98	-101.86		LTE-B12	L	16.43	
	L	14.88				M	15.83	
	M	14.76				H	15.86	-89.96
W-B8	H	15.06	-101.11		LTE-B17	L	16.08	
	L	14.15				M	15.92	
	M	14.57				H	15.91	-76.68
	H	15.02	-104.78		LTE-B28AB	L	16.62	
						L	15.55	
						M	15.65	
						M	15.4	
						H	14.96	-79.5

2-1.Three in one test results



2-2.蓝牙测试（Bluetooth Test）：

10 meters online listening to music, making calls smoothly without interruption