



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: Tian Rui Xiang

Project Name: S6802-37A

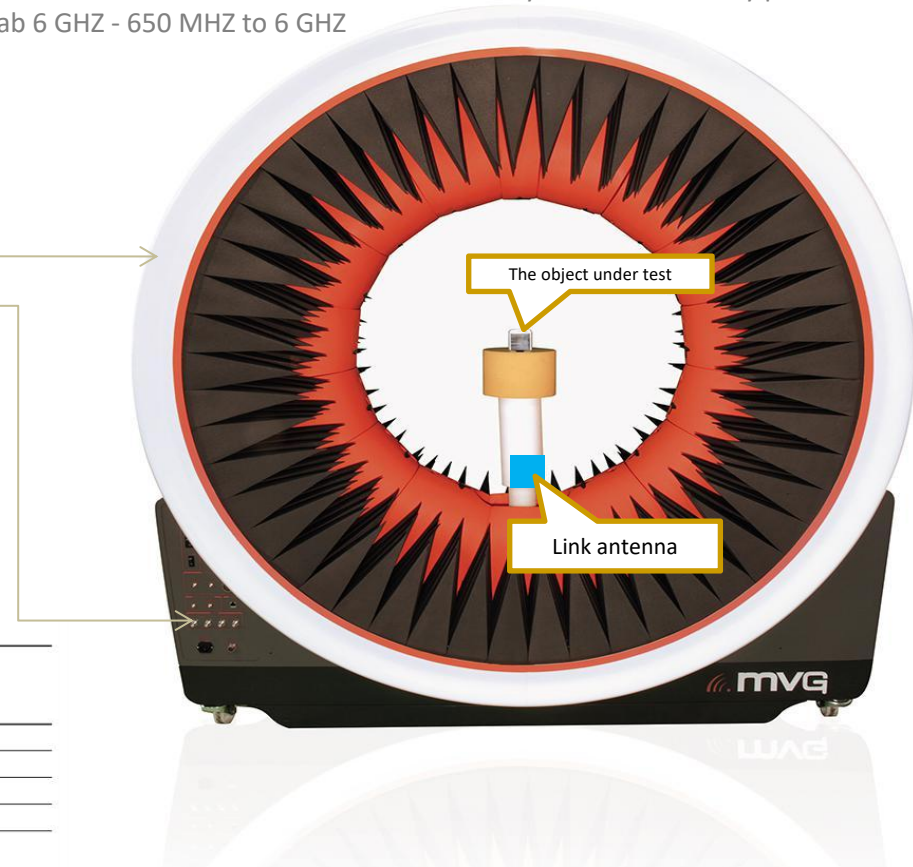
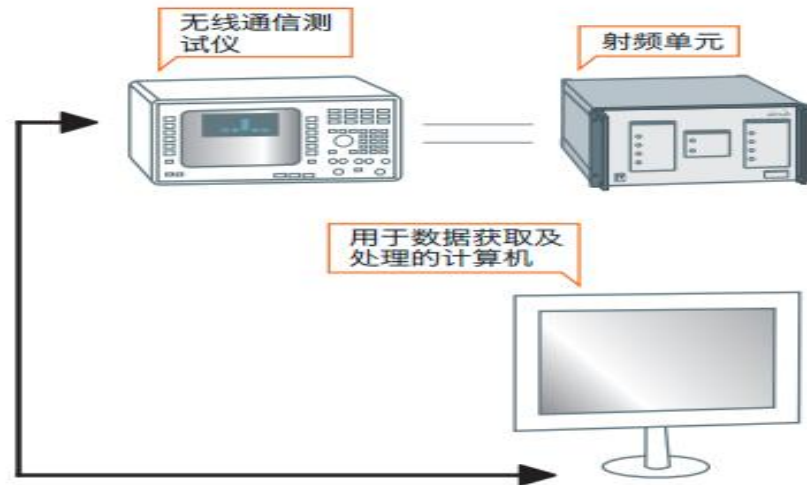
Designer: Liu Chun Yun

Date: 2022/10/12

The customer name		Tian Rui Xiang	Project Name	S6802-37A
NO.	project	Detailed above		
1	spectrum	WIFI/BT		
2	Project type	The mobile phone		
3	Antenna space area			
4	Feed point type			
5	The sensitivity			
6	Type of antenna			
7	The length of the PCB board			
8	note	Debugging prototype		
RF		Liu Chun Yun	15112340864	hxw_lcy@sz-hxw.cn

1、 Test system and test equipment

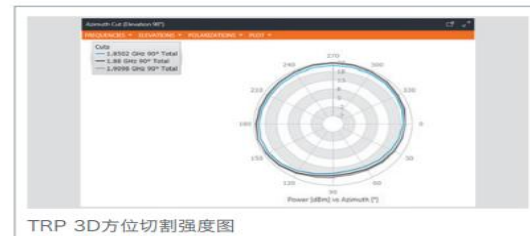
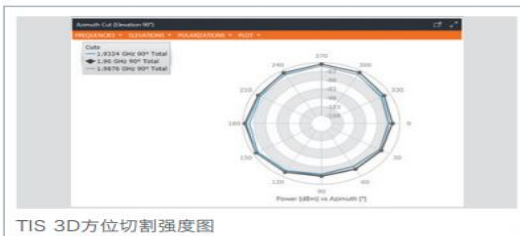
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHz - 650 MHz to 6 GHz



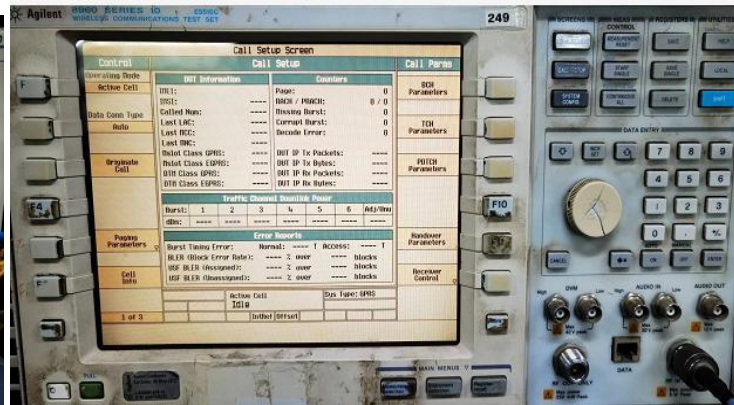
TIS预计测量时间 (一个信道每隔30° 取样)

灵敏度算法 \ 标准	GSM GPRS EDGE	CDMA 1 x RTT 1 x EvDO	WCDMA HSDPA LTE FDD/TDD	Wi-Fi 802.11 a/b/g/n	CTIA 批准方法
RSSI模式+线性化+TIS补偿	8 min		10 min		是
EIS模式+TIS补偿		5 min		5 min	是 ²
快速CDMA		8 min			No
EIRP模式+TIS补偿				10 min	No

1、根据RTC
2、根据协议



Test Equipment



Antenna position

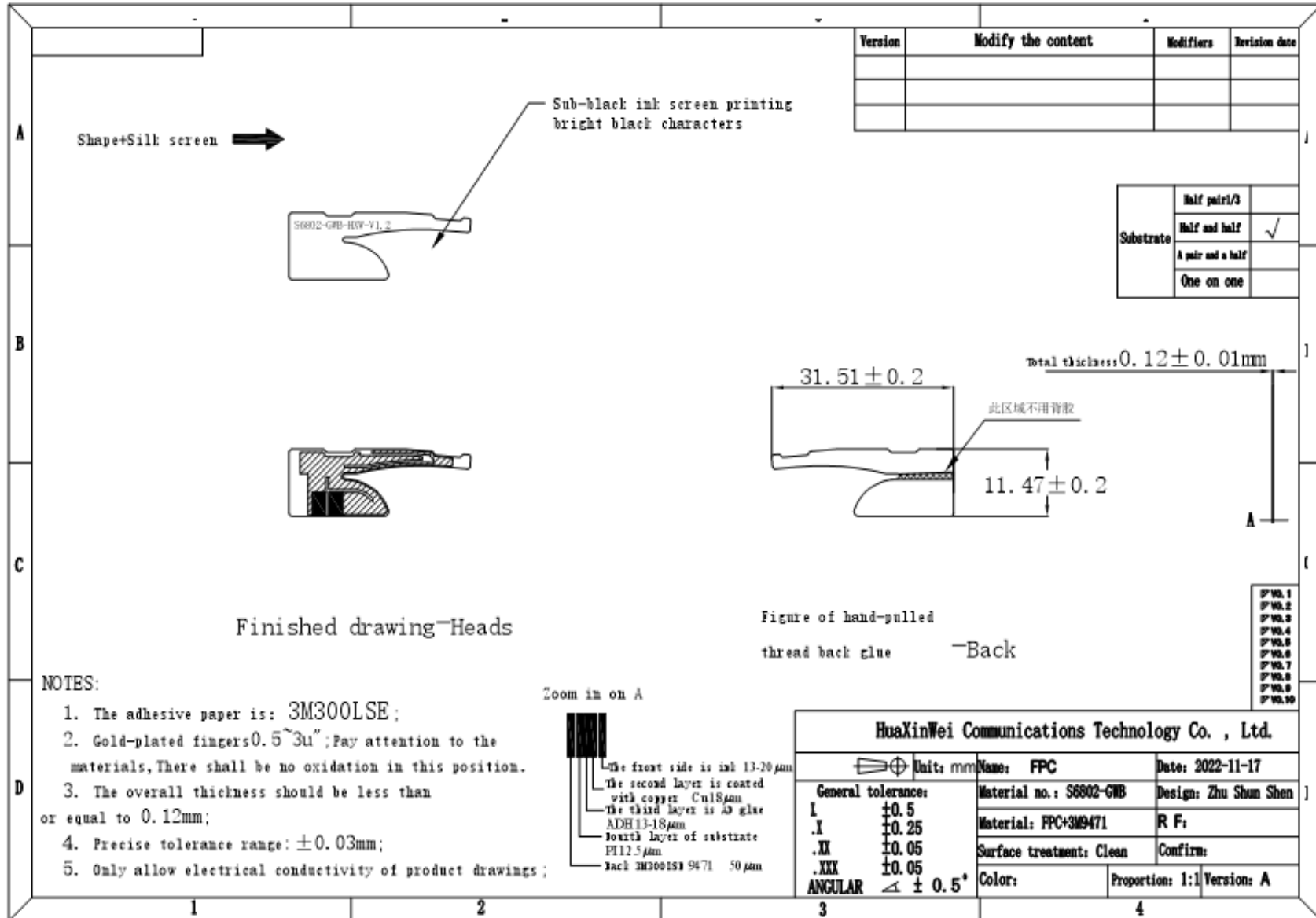
main antenna



diversity antenna



GPS/WIFI/BT antenna



Version	Modify the content	Modifiers	Revision date

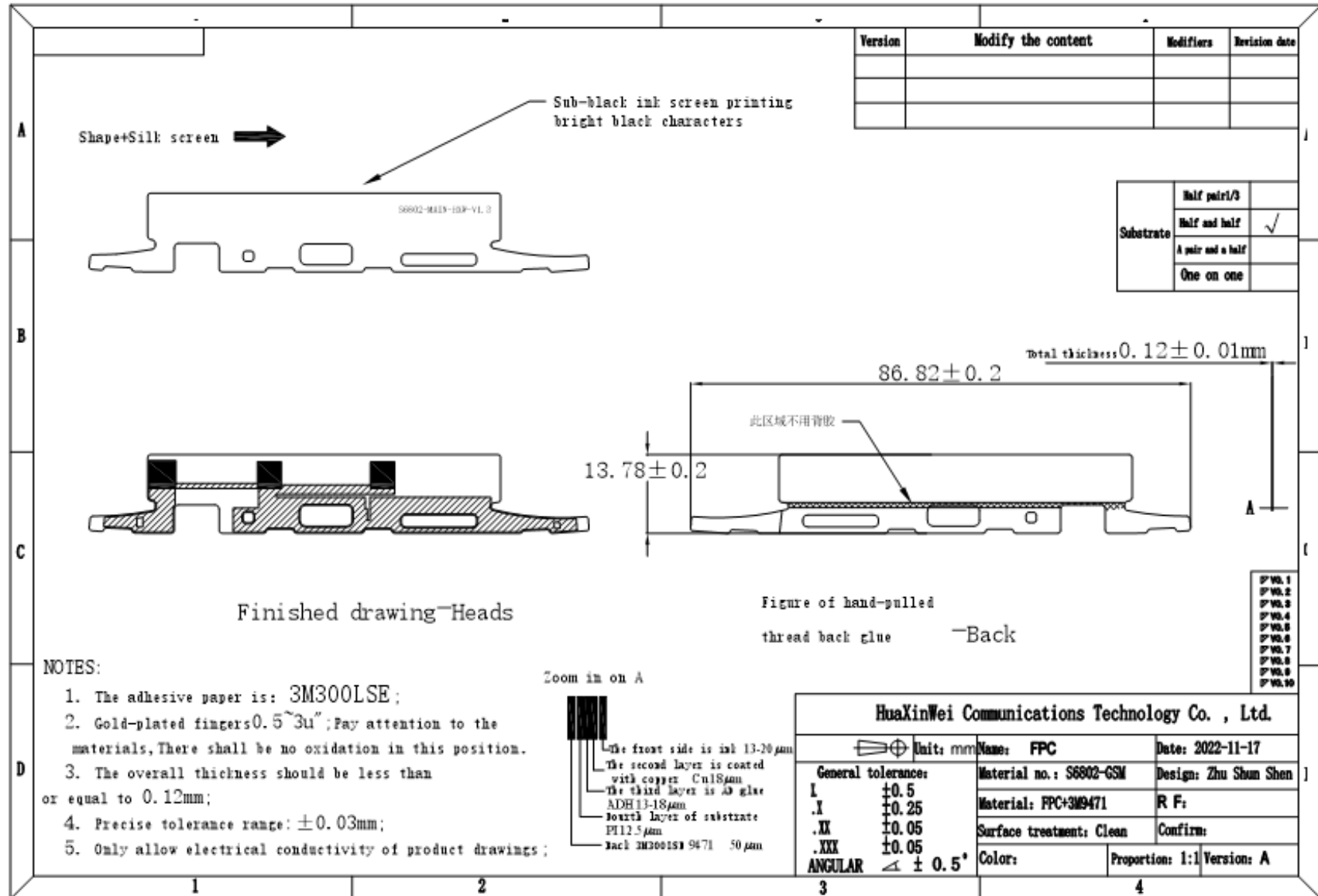
Substrate	Half pair/3	Half and half	A pair and a half	One on one
		✓		

- P/W.1
- P/W.2
- P/W.3
- P/W.4
- P/W.5
- P/W.6
- P/W.7
- P/W.8
- P/W.9
- P/W.10

NOTES:

- The adhesive paper is: 3M300LSE;
- Gold-plated fingers $0.5 \sim 3\mu$; Pay attention to the materials, There shall be no oxidation in this position.
- The overall thickness should be less than or equal to 0.12mm;
- Precise tolerance range: ± 0.03 mm;
- Only allow electrical conductivity of product drawings;

HuaXinWei Communications Technology Co., Ltd.			
Unit: mm	Name: FPC	Date: 2022-11-17	
General tolerance:	Material no.: S6802-GWB	Design: Zhu Shun Shen	
I ± 0.5	Material: FPC+3M9471	R F:	
.Y ± 0.25	Surface treatment: Clean	Confirm:	
.XX ± 0.05	Color:	Proportion: 1:1	Version: A
.XXX ± 0.05			
ANGULAR $\leq \pm 0.5'$			



Version	Modify the content	Modifiers	Revision date

Substrate	Half pair/3	Half and half	A pair and a half	One on one

φ0.1
φ0.2
φ0.3
φ0.4
φ0.5
φ0.6
φ0.7
φ0.8
φ0.9
φ1.0

- NOTES:
1. The adhesive paper is: 3M300LSE;
 2. Gold-plated fingers $0.5 \sim 3\mu$; Pay attention to the materials, There shall be no oxidation in this position.
 3. The overall thickness should be less than or equal to 0.12mm;
 4. Precise tolerance range: ± 0.03 mm;
 5. Only allow electrical conductivity of product drawings;


Zoom in on A

- The front side is ink 13-20 μm
- The second layer is coated with copper Cu18 μm
- The third layer is Ag glue ADH13-18 μm
- Fourth layer of substrate PI12.5 μm
- Back 3M300153 9471 50 μm

HuaXinWei Communications Technology Co., Ltd.			
Unit: mm	Name: FPC	Date: 2022-11-17	
General tolerance:	Material no.: S6802-GSM	Design: Zhu Shun Shen	
L ± 0.5	Material: FPC+3M9471	R F:	
.X ± 0.25	Surface treatment: Clean	Confirm:	
.XX ± 0.05	Color:	Proportion: 1:1	Version: A
.XXX ± 0.05			
ANGULAR $\triangleleft \pm 0.5^\circ$			

	Version	Modify the content	Modifiers	Revision date

A

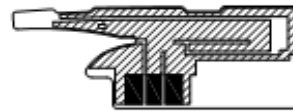
Shape+Silk screen → 

Sub-black ink screen printing
bright black characters

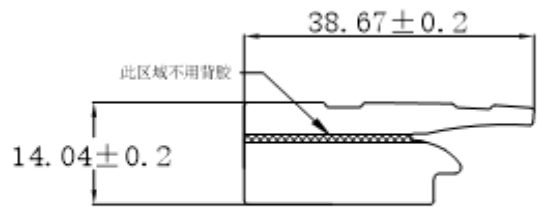
S6802-DIT-80W-V1.2

Substrate	Half pair/3		
	Half and half	✓	
	A pair and a half		
	One on one		

B



C



38.67 ± 0.2

14.04 ± 0.2

此区域不用背胶

Total thickness 0.12 ± 0.01mm


D

Finished drawing—Heads

NOTES:

- The adhesive paper is: 3M300LSE;
- Gold-plated fingers 0.5~3u"; Pay attention to the materials, There shall be no oxidation in this position.
- The overall thickness should be less than or equal to 0.12mm;
- Precise tolerance range: ±0.03mm;
- Only allow electrical conductivity of product drawings;

Zoom in on A



- The front side is ink 13-20 μm
- The second layer is coated with copper Cu18 μm
- The third layer is AD glue ADH13-18 μm
- Fourth layer of substrate PI12.5 μm
- Jack 3M3001S1 9471 50 μm

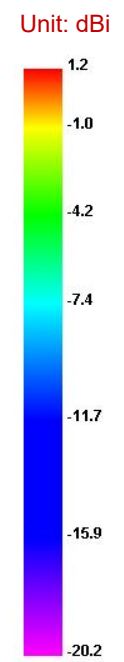
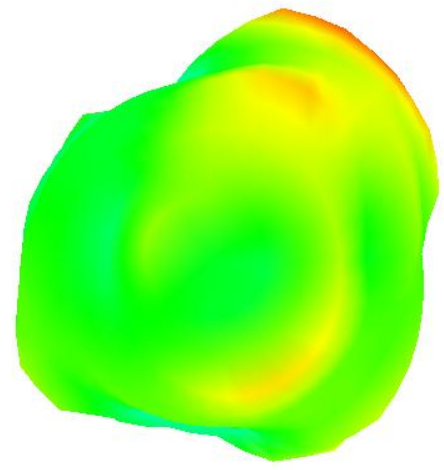
HuaXinWei Communications Technology Co., Ltd.			
Unit: mm	Name: FPC	Date: 2022-11-17	
General tolerance:		Material no.: S6802-LTE	Design: Zhu Shun Shen
I	±0.5	Material: FPC+3M9471	RF:
.I	±0.25	Surface treatment: Clean	Confirm:
.XX	±0.05	Color:	Proportion: 1:1
.XXX	±0.05	Version: A	
ANGULAR	≤ ± 0.5°		

Efficient (2. 4G-WiFi /BT)

PEAK GAIN		
WIFI	2400~2500Mhz	1.26dBi
WIFI	5150~5850Mhz	1.17dBi
BT	2400~2500Mhz	1.26dBi

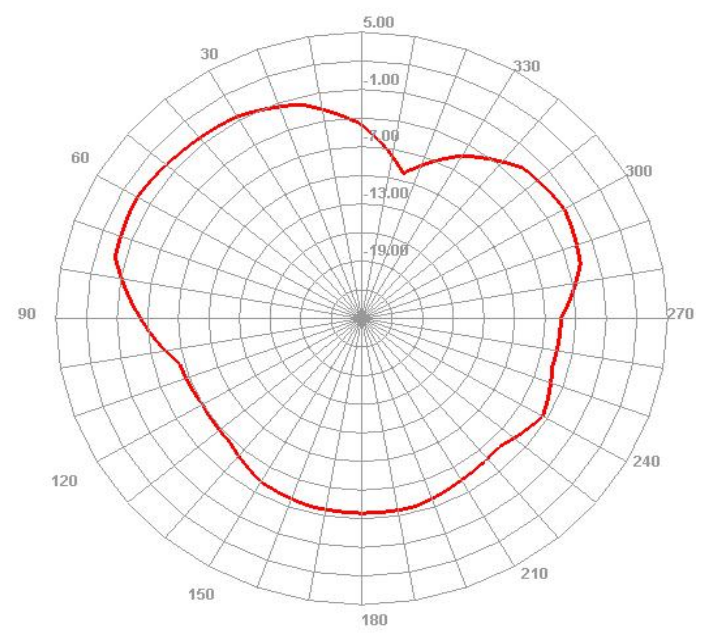
Efficient (2.4GWIFI/BT)

2460.000MHz



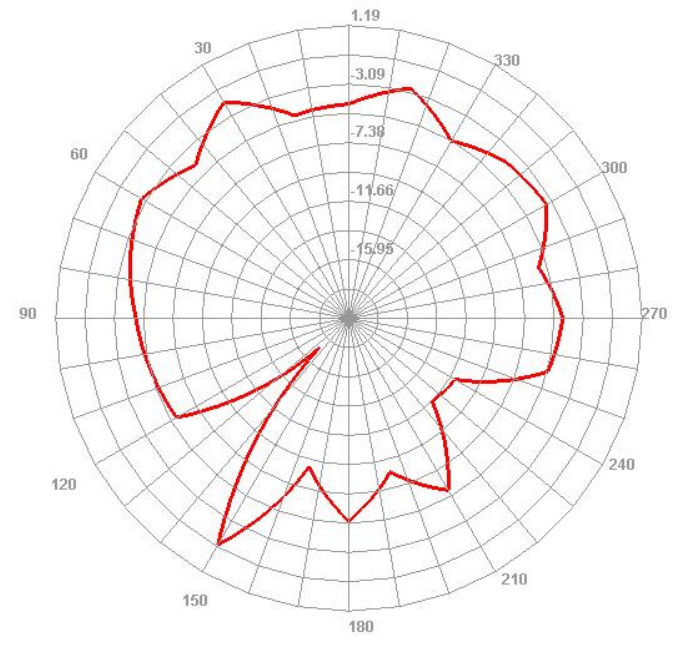
2460.000MHz H

Unit: dBi



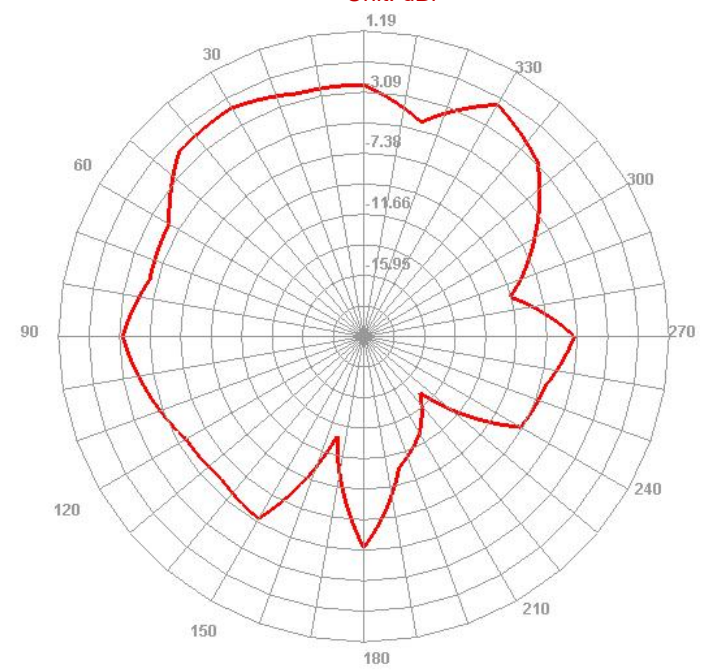
2460.000MHz E1

Unit: dBi



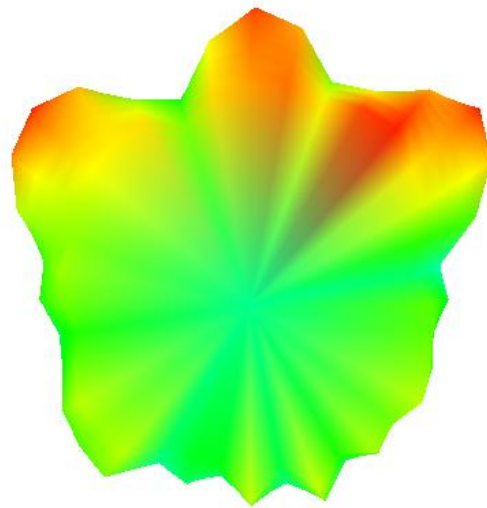
2460.000MHz E2

Unit: dBi



Efficient (5.8GWIFI)

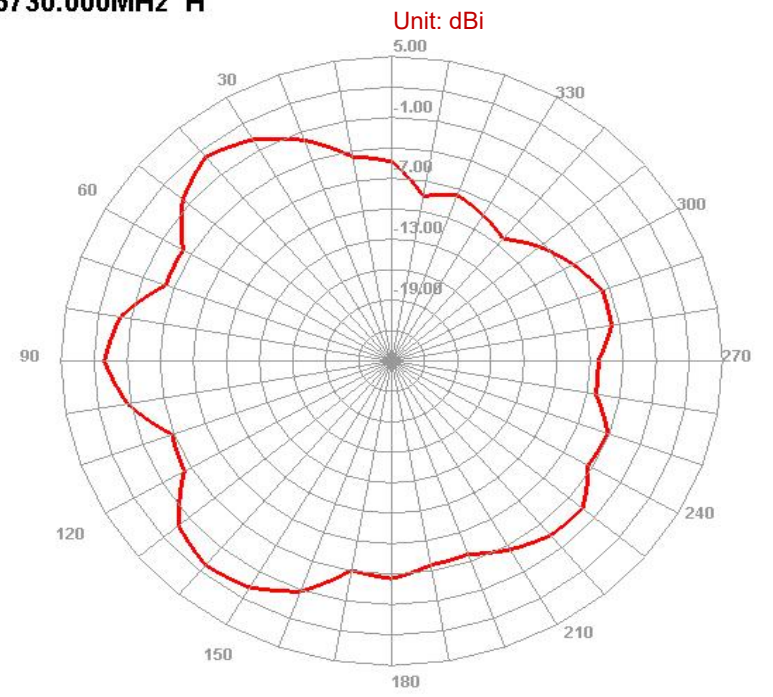
5730.000MHz



Unit: dBi

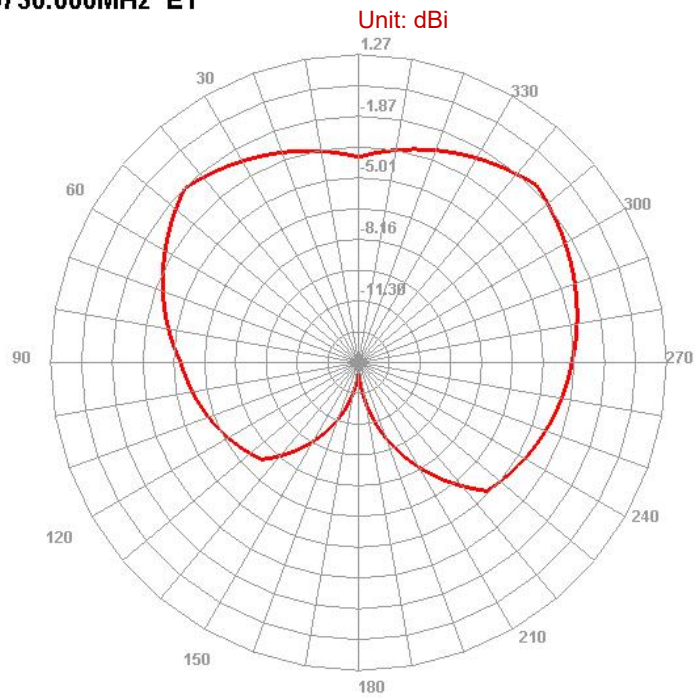


5730.000MHz H



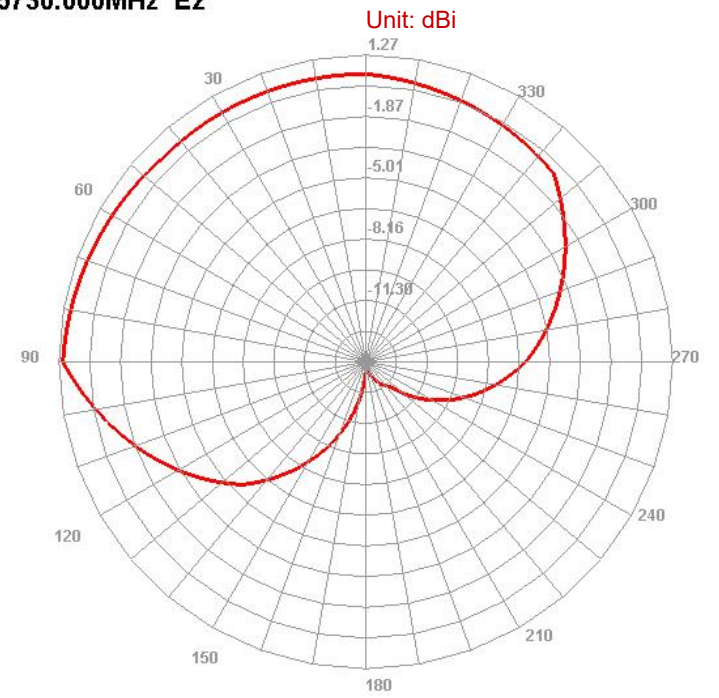
Unit: dBi

5730.000MHz E1



Unit: dBi

5730.000MHz E2



Unit: dBi

Wifi Antenna test



Environmental treatment



喇叭接地 马达接地 摄像头接地

