

Shenzhen Ruitong Electronics Co., Ltd

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Customer Acknowledgement of Specification for approval

Customer		Frequency Band	2-3-4G-BT-WIFI
Type	FPCB	Version	V1.1
Product No.	RT1987-AB02-GSM	Issue Date:	2023-12-5

Testing Item & Equipments

	Testing Item	Equipment
1. S Parameter	1. Return Loss 2. S.W.R. 3. Impedance	Network Analyzer: Agilent 8753d
2. Radiation Pattern & Gain and Mobile Phone OTA Performance	1. TRP 2. TIS 3. EIRP 4. ETIS	GSM Tester: Agilent 8960 4G-LTE: 8820c
	1. Radiation Pattern 2. Antenna Gain	1. Anechoic Chamber 5x4x3 m (3D) 2. Network Analyzer- Agilent 8753d

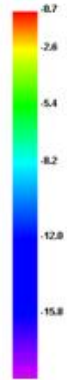
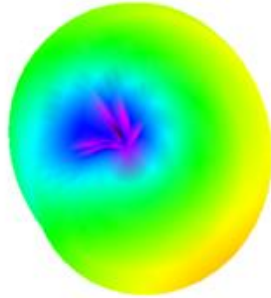
Gain

PEAK GAIN			
2G:	Frequency range		Gain dBi
GSM850	824~894Mhz		-0.71
GSM900	880~960Mhz		-1.05
DCS1800	1710~1880Mhz		0.63
PCS1900	1850~1990Mhz		0.81
3G:			
W1	1920~2170Mhz		0.91
W2	1850~1990Mhz		0.81
W5	824~894Mhz		-0.71
W8	880~960Mhz		-1.05
4G:			
LTE-B1	1920~2170Mhz		0.91
LTE-B2	1850~1990Mhz		0.81
LTE-B3	1710~1880Mhz		0.63
LTE-B5	824~894Mhz		-0.71
LTE-B7	2500~2690Mhz		1.12
LTE-B8	880~960Mhz		-1.05

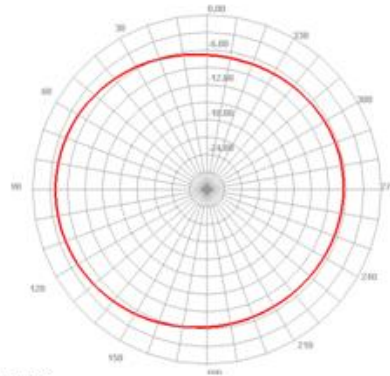
LTE-B20	791~862Mhz		-0.71
LTE-B38	2570~2620Mhz		1.05
LTE-B39	1880~1920Mhz		0.92
LTE-B40	2300~2400Mhz		1.14
LTE-B41	2500~2690Mhz		1.12
2. 4G-WIFI	2400~2500Mhz		1.37
BT	2400~2500Mhz		1.37
GPS	1575Mhz		0.43

Efficient (791-894MHz)

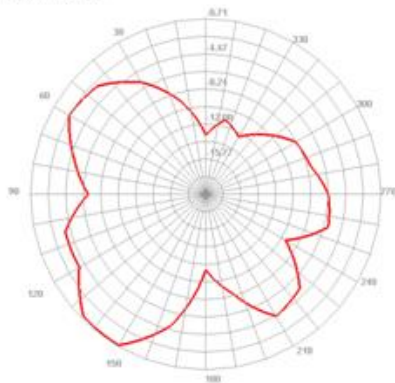
830.000MHz



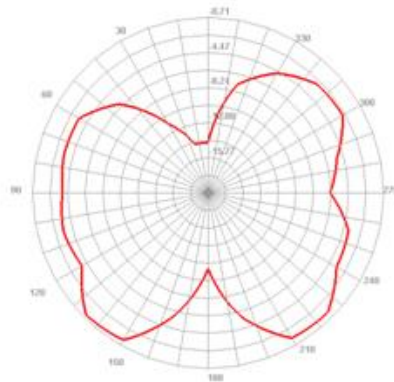
830.000MHz H



830.000MHz E1

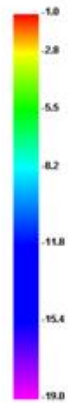
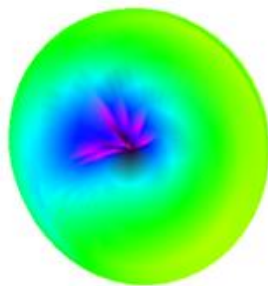


830.000MHz E2

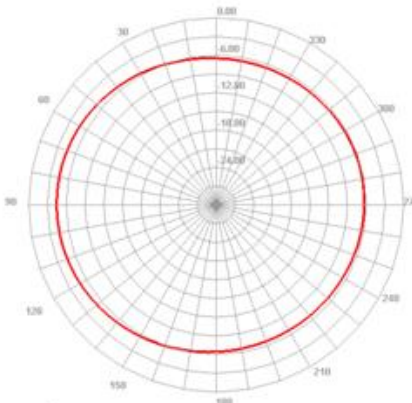


Efficient (880-960MHz)

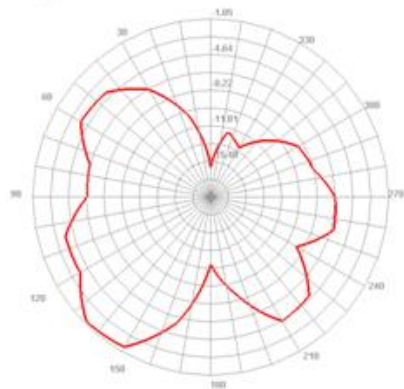
900.000MHz



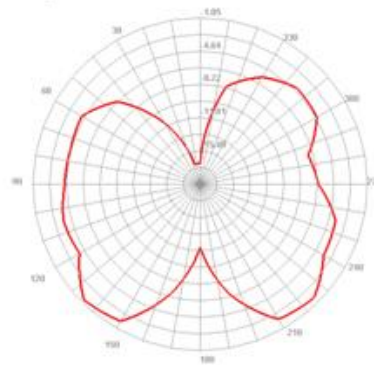
900.000MHz H



900.000MHz E1

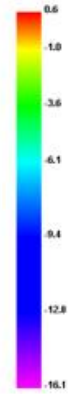
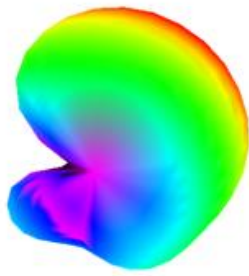


900.000MHz E2

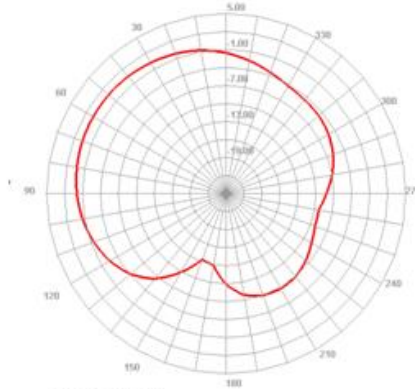


Efficient (1710-1880MHz)

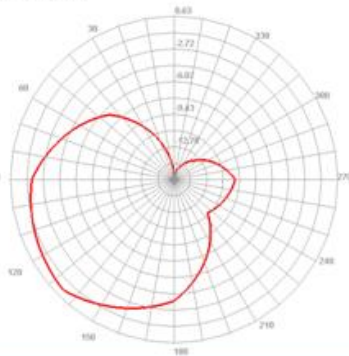
1820.000MHz



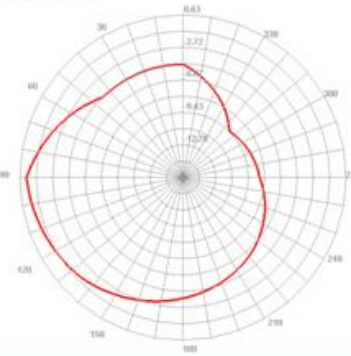
1820.000MHz H



1820.000MHz E1

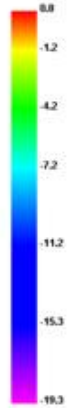
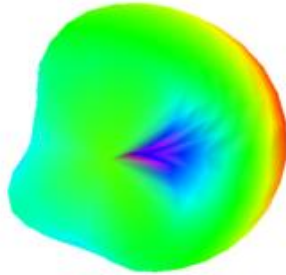


1820.000MHz E2

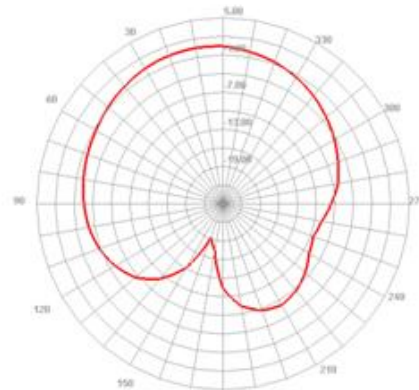


Efficient (1710-1990MHz)

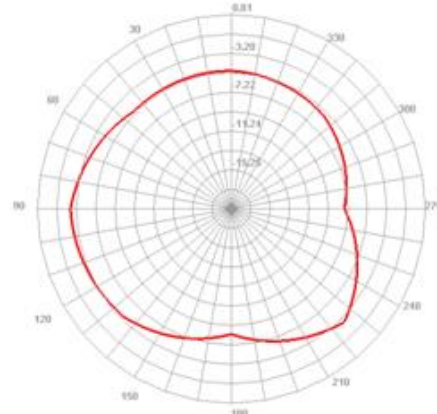
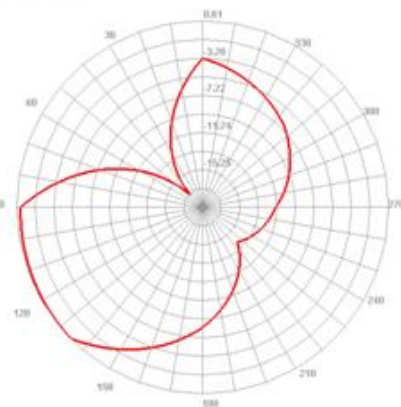
1920.000MHz



1920.000MHz H

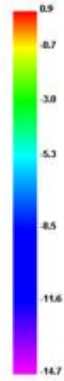
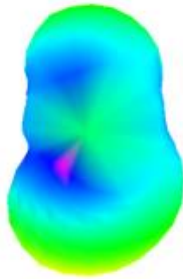


1920.000MHz E1

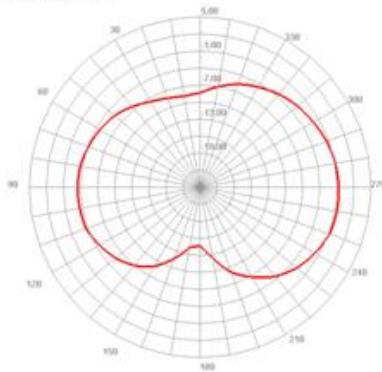


Efficient (1920–2170MHz)

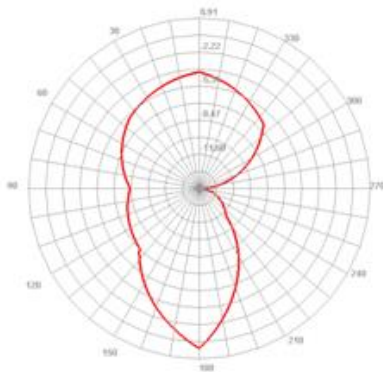
2010.000MHz



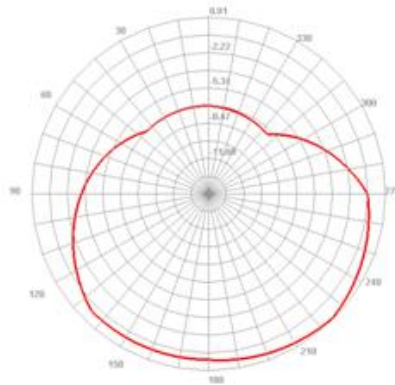
2010.000MHz H



2010.000MHz E1

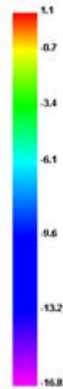
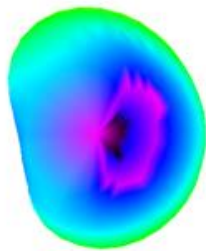


2010.000MHz E2

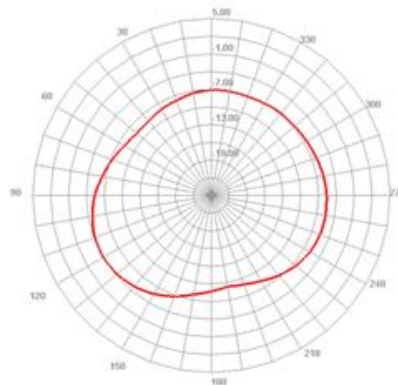


Efficient (2500–2690MHz)

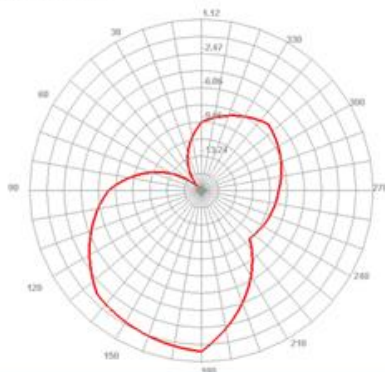
2660.000MHz



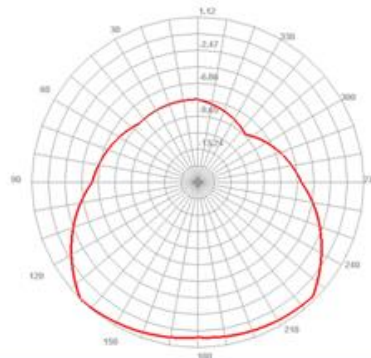
2660.000MHz H



2660.000MHz E1

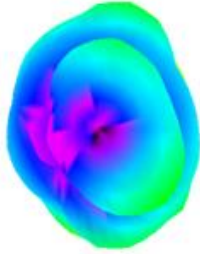


2660.000MHz E2

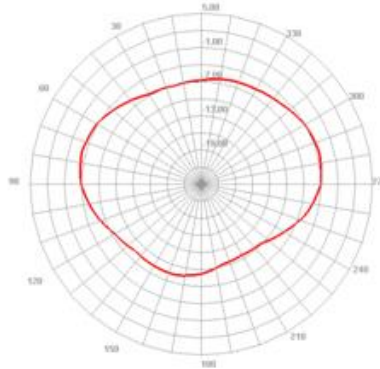


Efficient (2300–2400MHz)

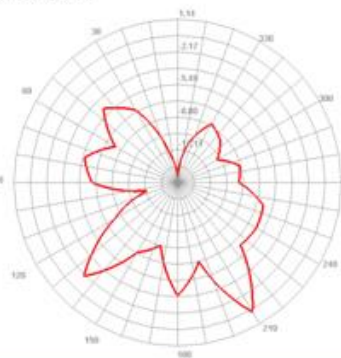
2370.000MHz



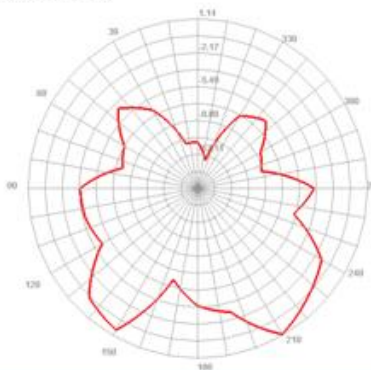
2370.000MHz H



2370.000MHz E1

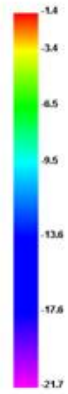
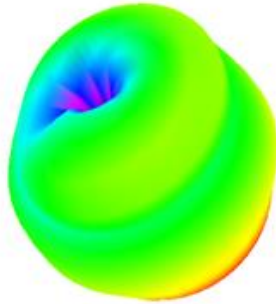


2370.000MHz E2

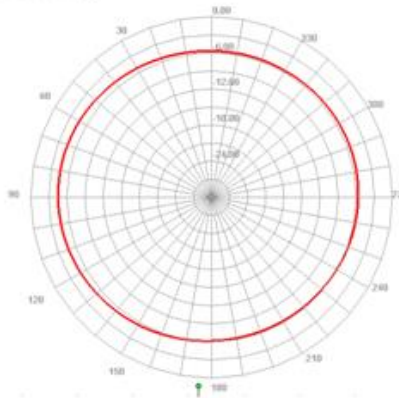


Efficient (698–798MHz)

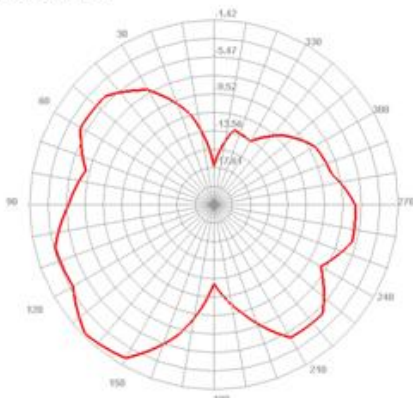
710.000MHz



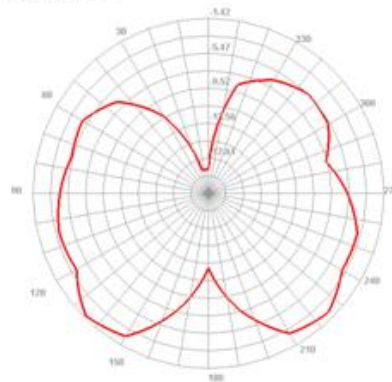
710.000MHz H



710.000MHz E1

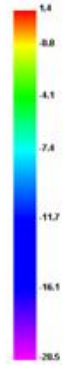
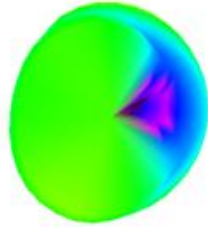


710.000MHz E2

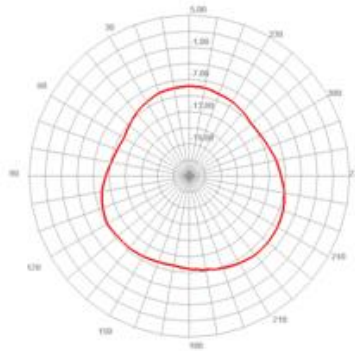


Efficient (2. 4G-WIFI/BT 2400-2500MHz)

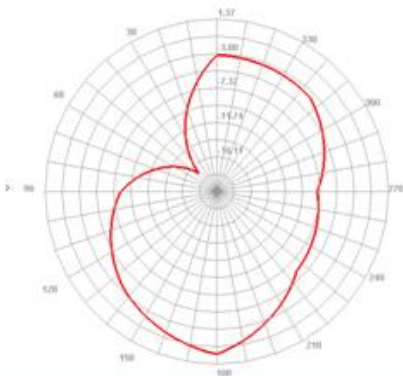
2450.000MHz



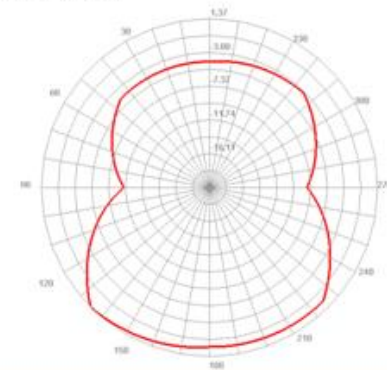
2450.000MHz H



2450.000MHz E1

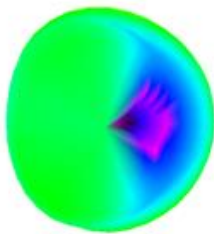


2450.000MHz E2

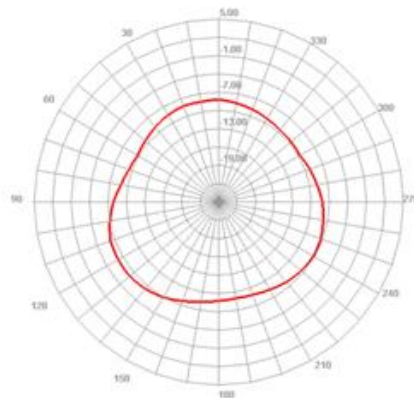


Efficient (5G-WIFI 5000-5250MHz)

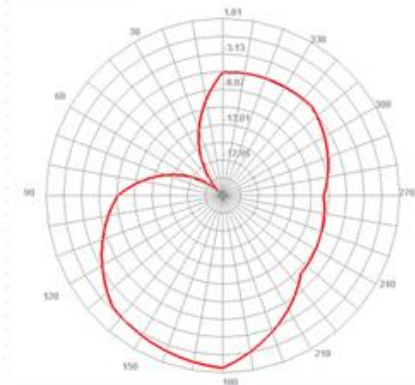
5150.000MHz



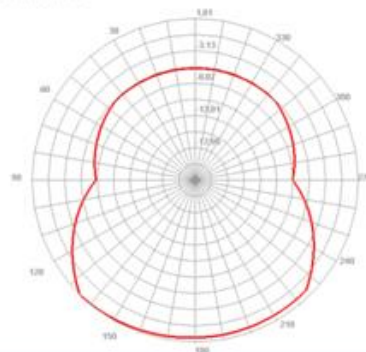
5150.000MHz H



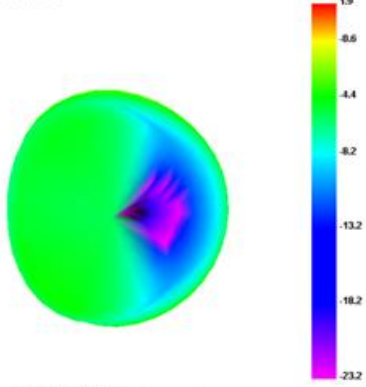
5150.000MHz E1



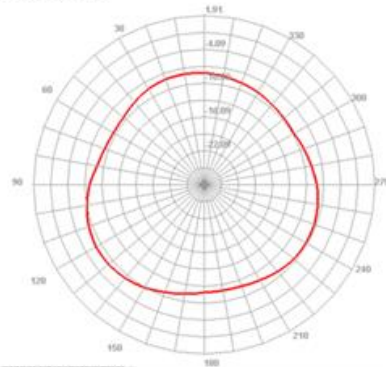
5150.000MHz E2



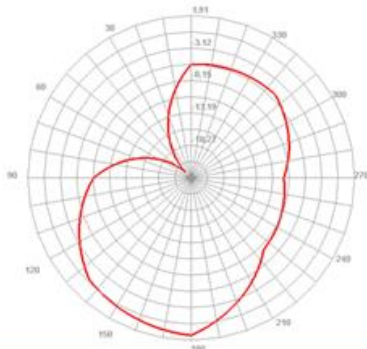
Efficient (5G-WIFI 5725-5850MHz)
5740.000MHz



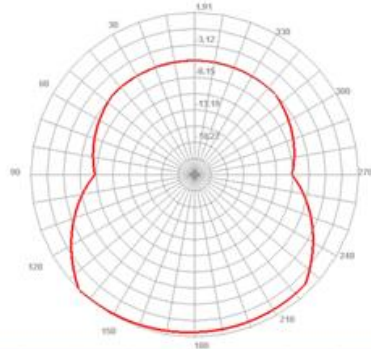
5740.000MHz H



5740.000MHz E1

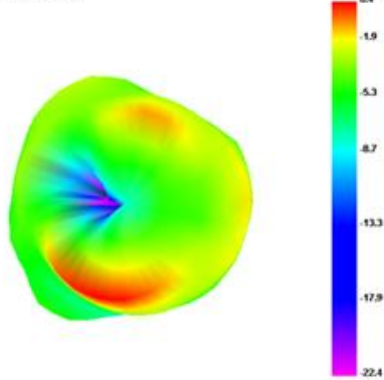


5740.000MHz E2

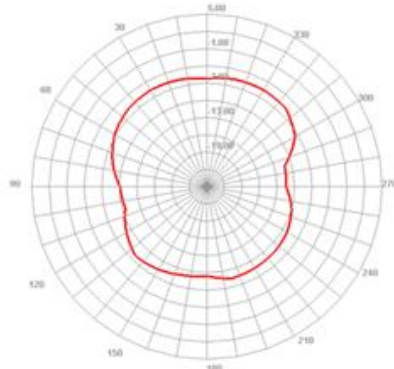


Efficient (GPS 1575.42MHz)

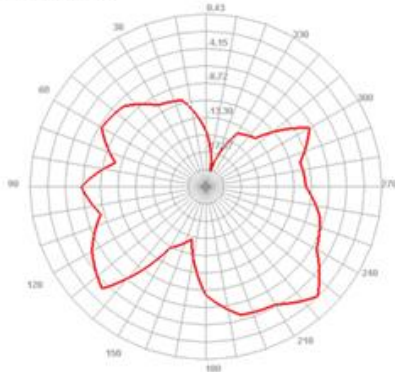
1575.491MHz



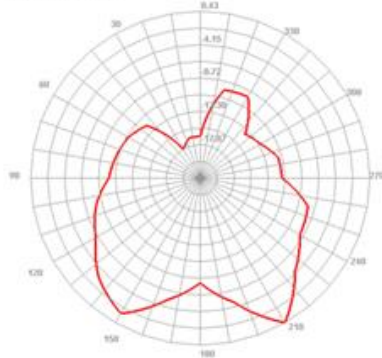
1575.491MHz H



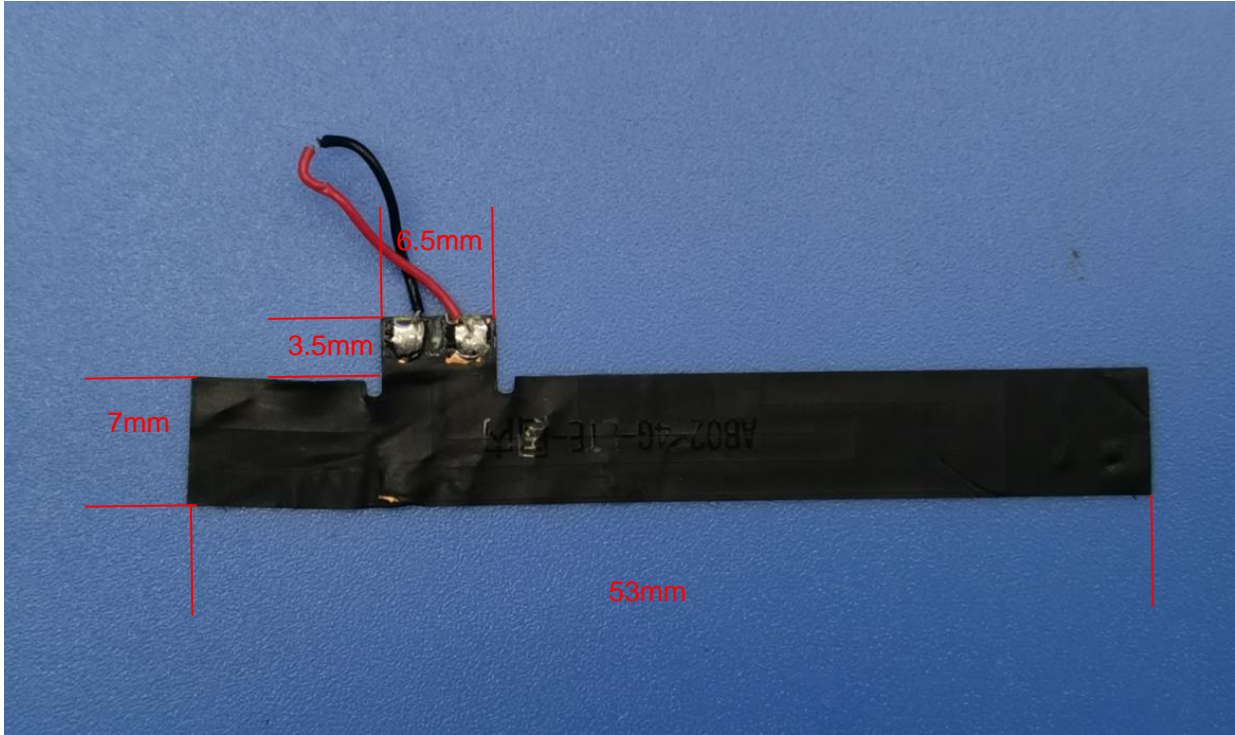
1575.491MHz E1



1575.491MHz E2



WCDMA/LTE



BT/WIFI

