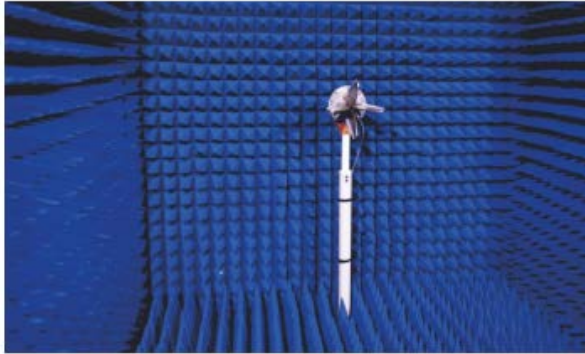


Antenna test report

Manufacturer: Zhongshan Smartek Security Technology Co., LTD.

Manufacturer address: 2F, Building B, No.8 Baocheng Rd.Baofeng, Xiaolan Town,
Zhongshan City, Guangdong, China

Device under test



OTA-800

Brand: ETS ✓

Frequency range: 370MHz-8.5GHz

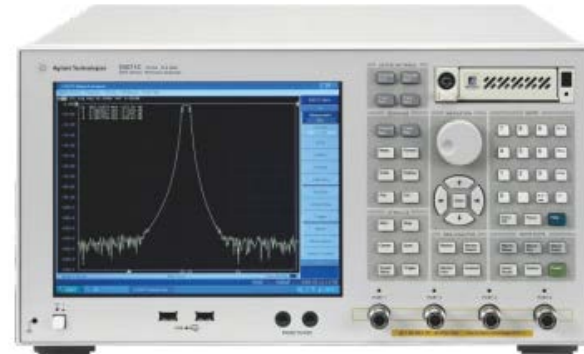
Function: passive, active test; G network, C network, 2G/3G/4G, WIFI, BT and other standard TRP, TIS test.



8960

Brand: 安捷伦

Function: 292MHz-2700GHz功能:
Meet 2G/3G active test.



5071C

Brand: 安捷伦 ✓

Frequency range: 9KHz-8.5GHz

Function: 2G/3G/4G/BT/WIFI antenna comprehensive passive test.



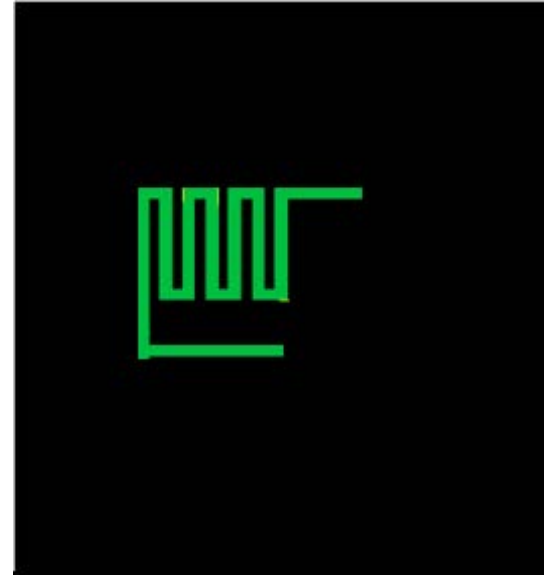
CMW500

Brand: 罗德与施瓦茨

Function: 70KHz-6GHz

Functions: 2G/3G/4G/BT/WIFI/ NB-LTE and other antennas comprehensive active test.

3. Physical picture of antenna assembly position

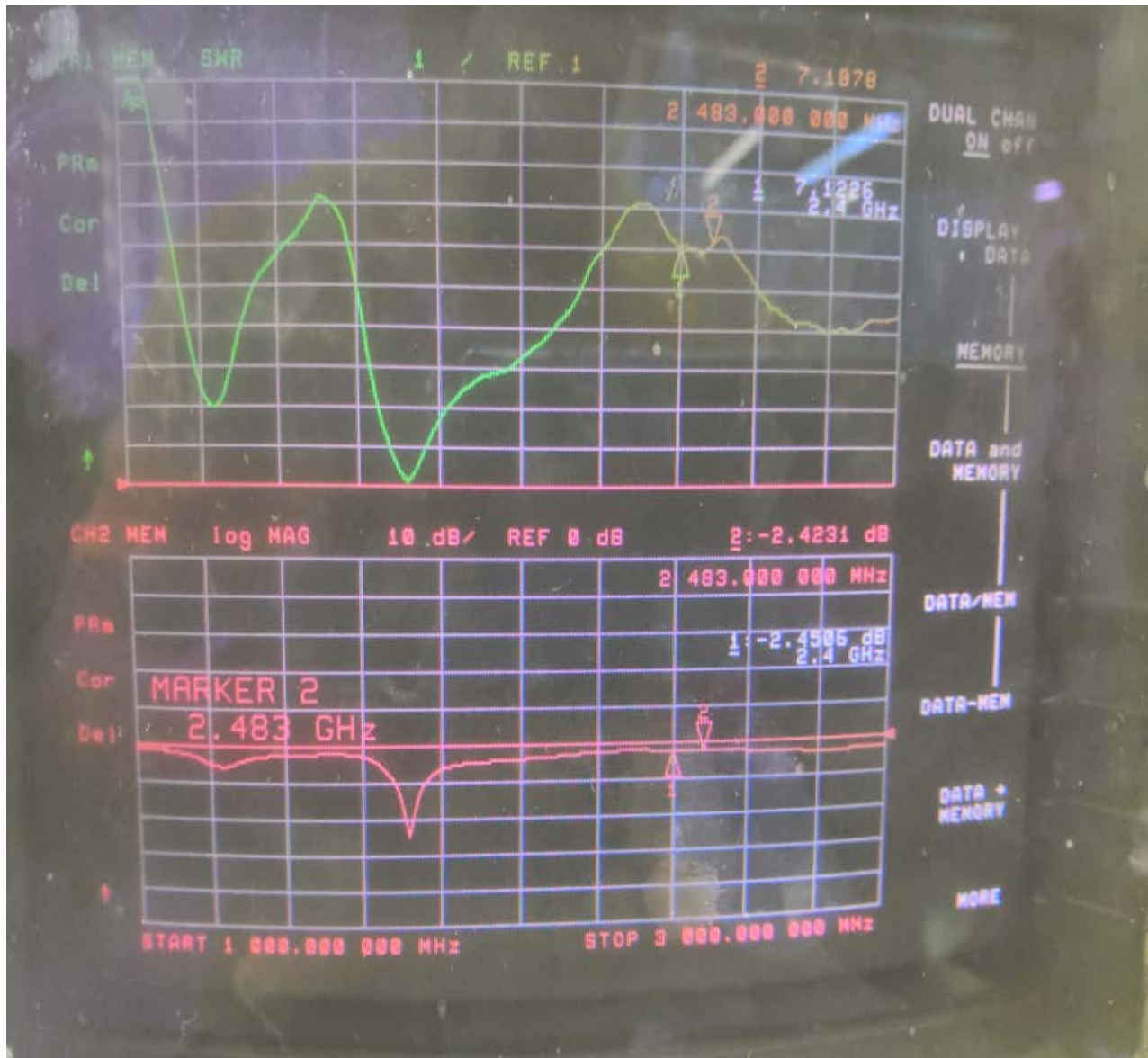


antenna size

4.Electrical performance index

电性能指标 Electrical Parameter		
频率范围(MHz)	Frequency Range (MHz)	2400~2500
电压驻波比	VSWR	≤7.0
输入阻抗(Ω)	Input Impedance(Ω)	50
增益(dBi)	Gain(dBi)	0.89
极化形式(°)	Polarization(°)	vertical
最大功率(W)	Max power(W)	10
天线类型	Antenna Type	Monopole
工作温度(℃)	Working Temperature(℃)	-40~+80

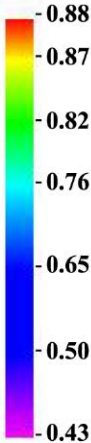
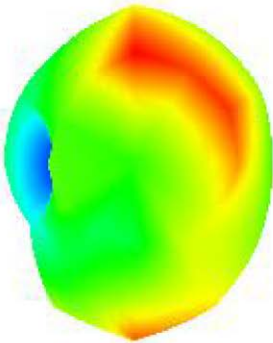
5. Antenna passive data



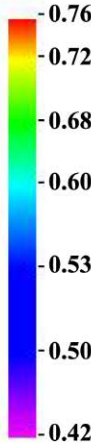
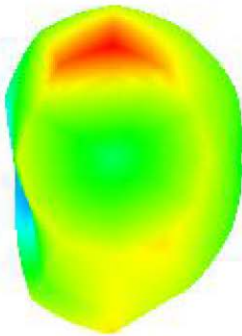
6.Antenna gain/efficiency /3D Apple diagram

Freq (MHz)	Effi (%)	Gain (dBi)
2400	1.6	0.86
2410	1.36	0.87
2420	1.77	0.89
2430	1.45	0.85
2440	1.42	0.79
2450	1.18	0.78
2460	1.63	0.77
2470	1.01	0.76
2480	1	0.69
2490	0.73	0.61
2500	1.42	0.67

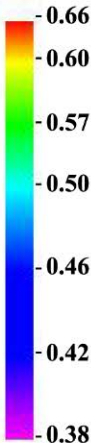
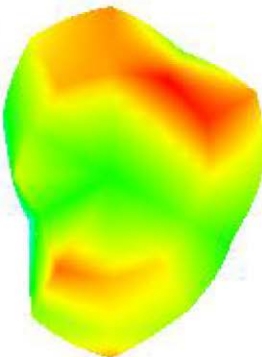
2400.000MHz



2450.000MHz

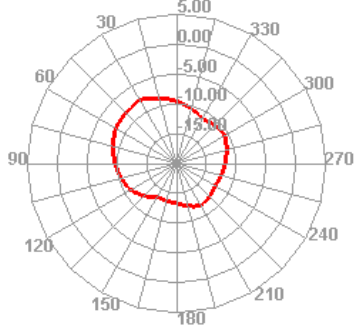


2500.000MHz

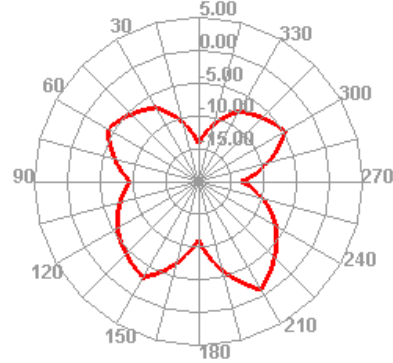


7. Antenna pattern

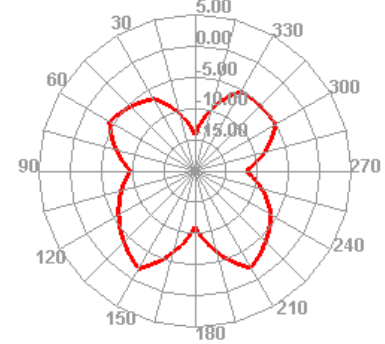
2400.000MHz H



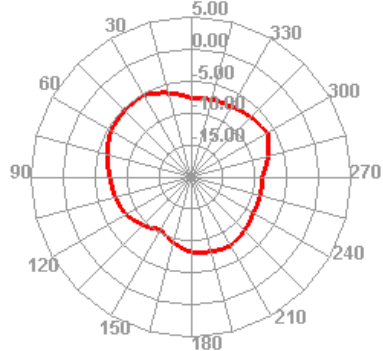
2400.000MHz E1



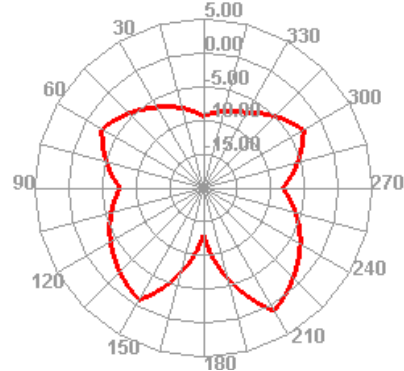
2400.000MHz E2



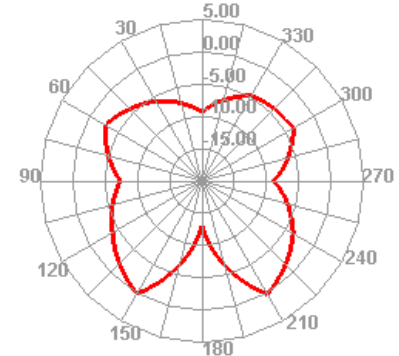
2450.000MHz H



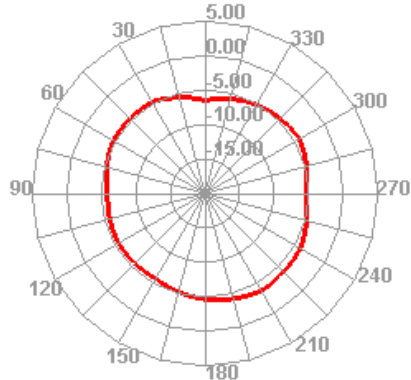
2450.000MHz E1



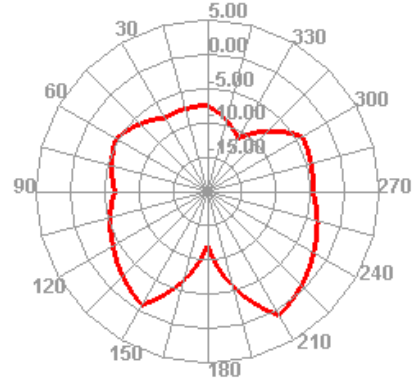
2450.000MHz E2



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

