

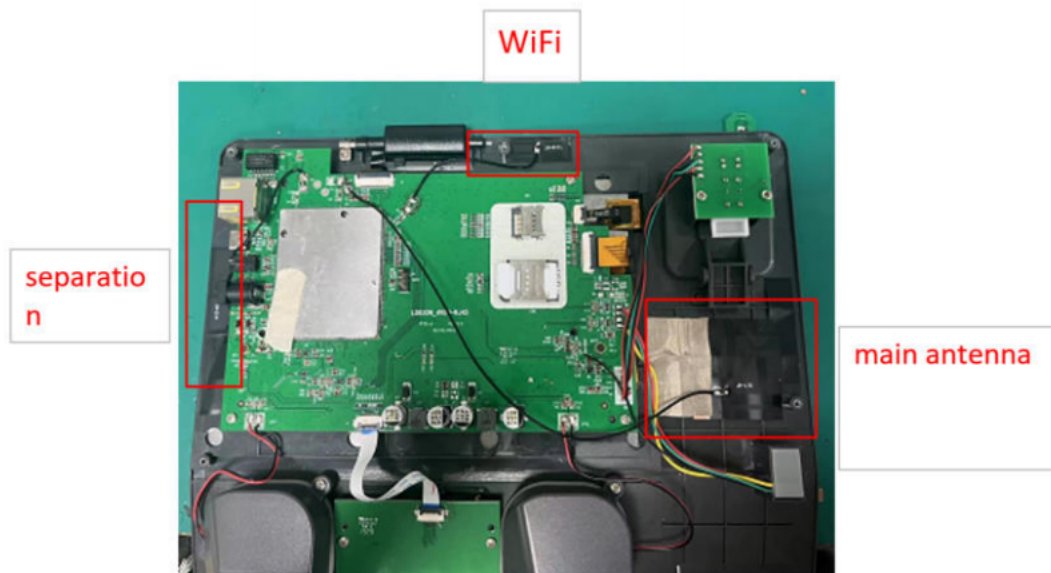


# Antenna Test Report

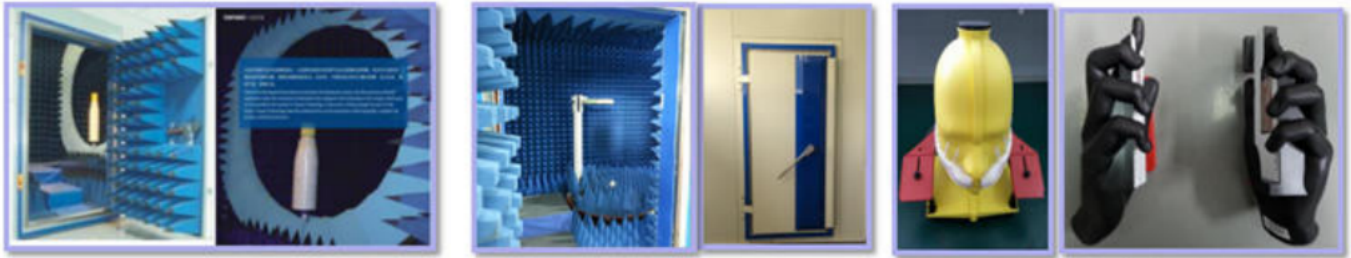
## Antenna Technical

Model: 830-4950

### 1. Antenna Assembly



## 2. Test Equipment



SATIMO-24

ETS

模拟人头手



安捷伦8960



安利MT8820C



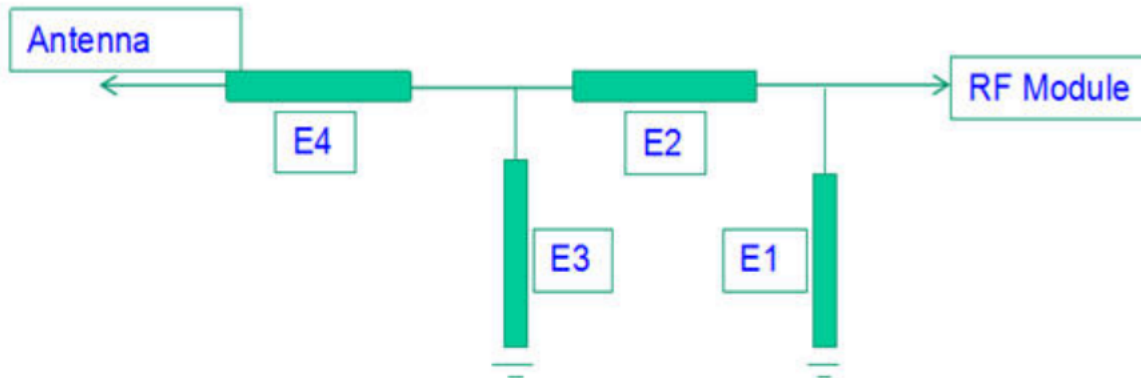
CMW500



安捷伦E5071C

测试系统	测试环境	有源测试	无源测试
SATIMO—24	温度：22℃ ± 3℃	支持2G/3G/4G	400MHZ——6G
ETS	湿度：50% ± 15%	BT/WIFI/GPS	

## 3. Matching Circuit: Unmodified

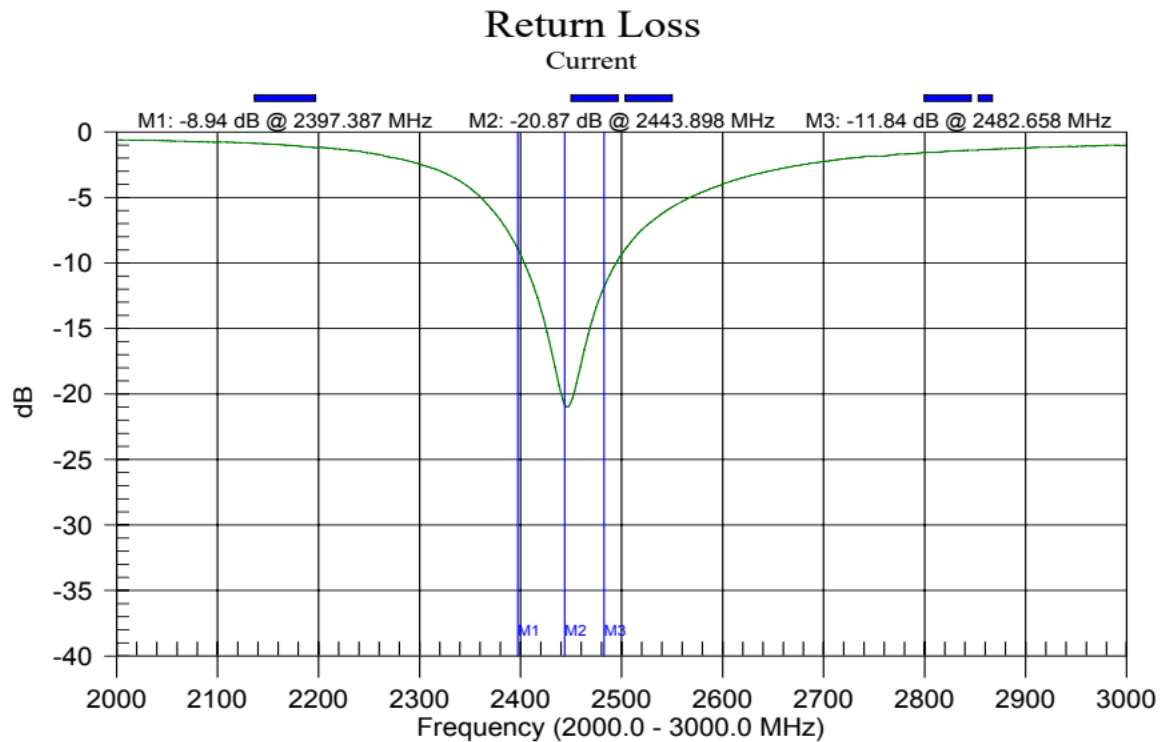




## 2. Electrical Characteristics

No.	Item	Specifications
1	Working Frequency	2400~2500MHz
2	Gain	2.54dBi
3	V.S.W.R (in BW)	<2.0
4	Polarization	Linear
5	Azimuth Beam width	Omni-directional
6	Impedance	50 $\Omega$

## 3. Return Loss and Smith Chart



Resolution: 517  
Std: ---

FlexCAL:ON(COAX)  
Channel: N/A

CW: ON

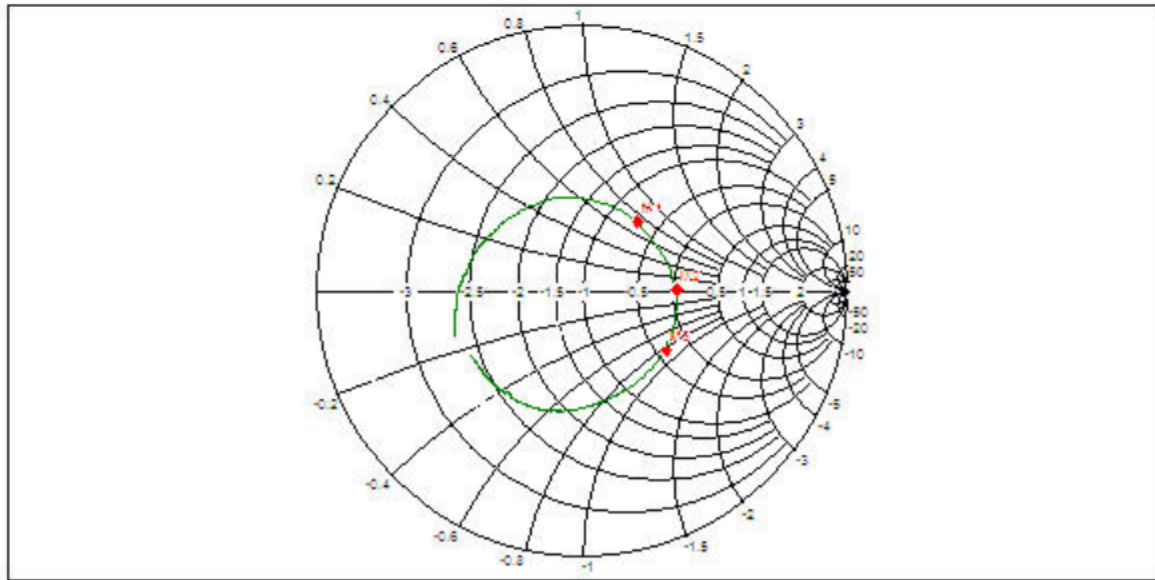


# Antenna Test Report

M1:  $r=0.54, x=0.33$  @ 2397.367 MHz

M2:  $r=0.63, x=0.01$  @ 2443.898 MHz

M3:  $r=0.70, x=-0.33$  @ 2482.658 MHz

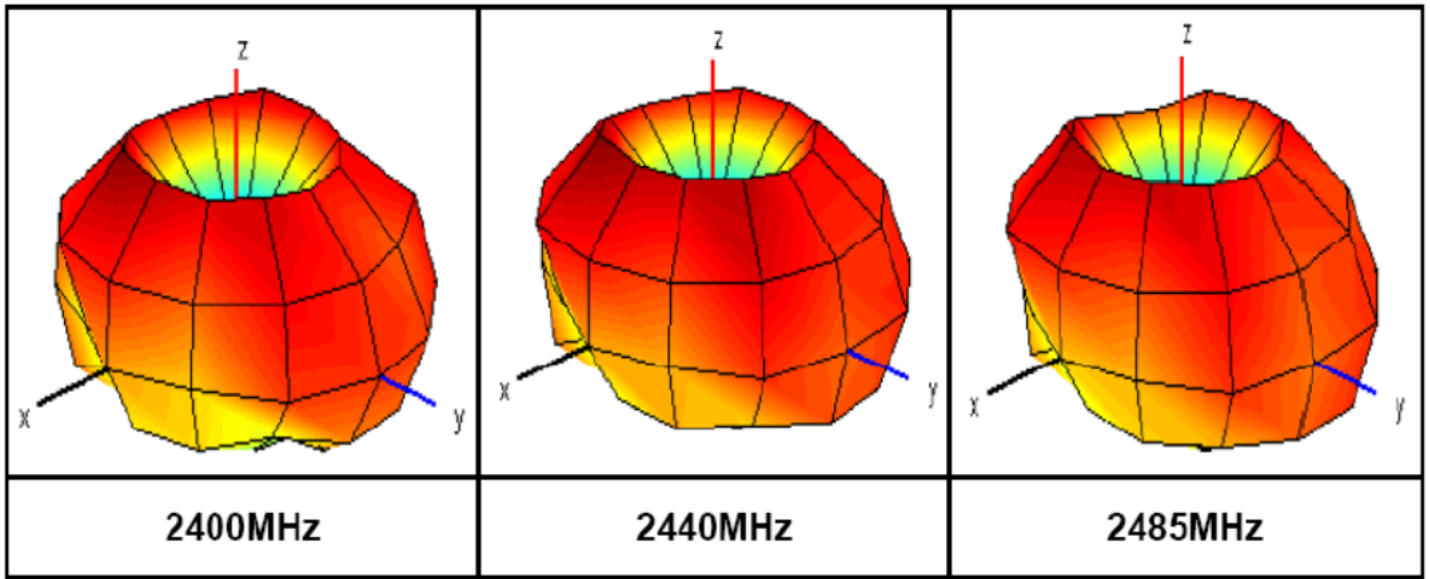


Resolution: 517

FlexCAL:ON(COAX)

CW ON

## 3D Radiation Pattern



Frequency (GHz)	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.5GHz
Efficiency(dB)	-5.1	-4.81	-4.60	-4.19	-4.00	-4.10	-3.78	-3.69	-3.81	-3.51
Efficiency(%)	52.98	55.36	58.09	63.39	66.01	65.09	70.01	70.26	68.74	73.51
Pick Gain (dBi)	2.13	2.33	2.22	2.38	2.41	2.37	2.45	2.41	2.54	-2.43

1. Please pay attention to whether the matching in the report is changed and whether the environmental treatment is feasible; this will directly affect the performance of the antenna. If you have any objection, please contact our company in time;
2. If your machine has to replace materials, update software, change the ring processing, etc., you must provide the latest state of the machine in time to come to our company for verification;
3. If your company's machine needs to be sent to a third party for verification or inspection, it is best to provide a test machine to our company for testing and verification before sending it for testing (because the consistency of the motherboard, environmental processing, antenna assembly, etc. will affect the ringer linearity deviation)