

Antenna report

Product: Antenna

Model: TS-Y531

Color: Black

Company: Shenzhen Chuanqisheng Industrial Co., Ltd

Address: A28301, Tangjia Avenue, Tangjia Community, Fenghuang Street,
Guangming District, Shenzhen

A. Description

This report contains several equipment, test environment and test results for the electrical performance test of the antenna, as well as structural drawings and inspection reports of the antenna. The following is the picture of the PCB containing the antenna.



B. Product technical data

Electrical Parameter	
Frequency Range (MHz)	433M
Gain (dBi)	-0.15
VSWR	≤2.0
Input Impedance (Ω)	50
Polarization	
Maximum input power (W)	10
Input connector type	NA
Mechanical Parameter	
Dimensions(mm)	45
Antenna weight (kg)	0.003
Antenna color	bronze
Coaxial cable color	bronze
Antenna Size	80mm*1mm

C . Performance test

Test equipment and environment



SATIMO-24

ETS

模拟人头手
Simulated human head hand



8960

MT8820C

CMW500

E5071C

测试系统

SATIMO—24

ETS

Testting System

测试环境

温度: $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$

湿度: $50\% \pm 15\%$

Environment

有源测试

支持2G/3G/4G

BT/WIFI/GPS

Active testing

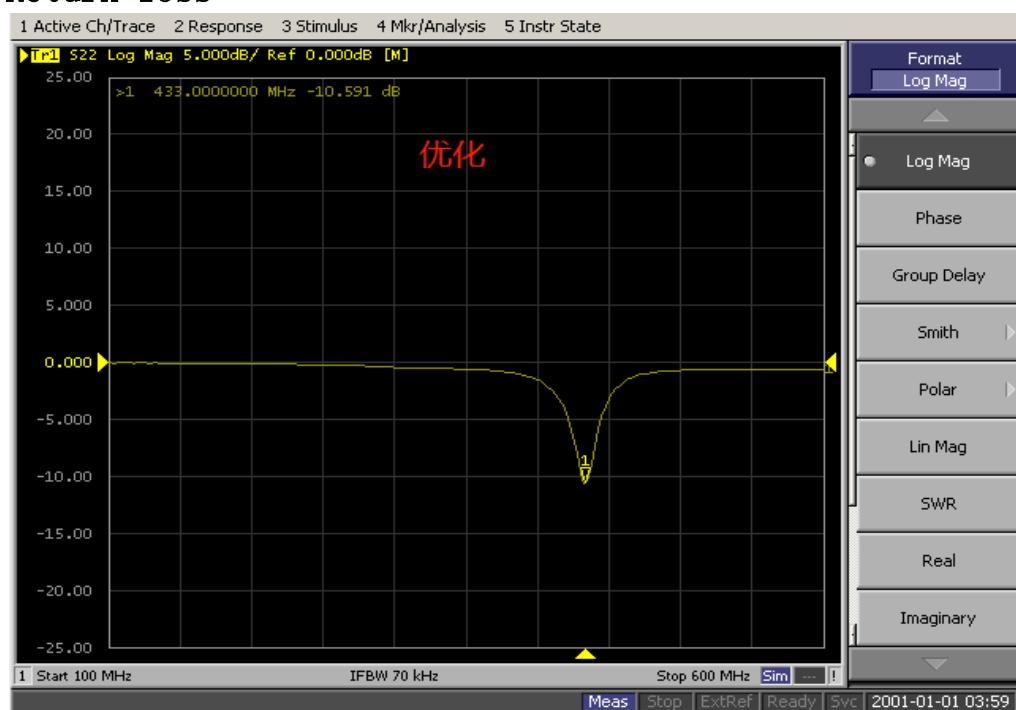
无源测试

400MHZ—6G

Passive testing

D . Electrical performance test

Return loss



Passive efficiency and gain testing

Freq. (MHz)	Gain (dBi)	Efficiency (%)
433 Mix	-0.18	20.32%
433 优化 optimize	-0.15	23.10%

3D-Chart

