



# 产品规格承认书

Product specifications  
acknowledgment

承认厂商： \_\_\_\_\_

(Recognized manufacturers)

制造厂商： \_\_\_\_\_ 深圳市蝙蝠无线技术有限公司

(Manufacturer)

产品名称： \_\_\_\_\_ 433 弹簧天线

(Description)

## 产品选型表：

(Product Type)

型号	说明	备注
BW433SNX21-5W2		可订制

## 供应商承认签栏

制表者	审核者	核准者

## 客户承认栏

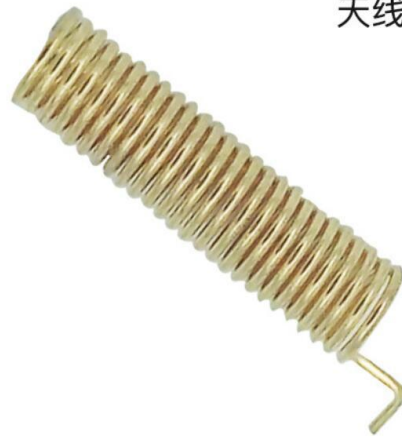
审核者	核准者

## 1.1 Specifications

天线型号 Antennas Type	BW433SNX21-5W2
频率范围 Frequenc Range (MHz)	433
输入阻抗 Input Impedence ( $\Omega$ )	50 $\Omega$
电压驻波比 V. S. W. R	<1.8
增益 Gain (dBi)	2dBi
极化形式 Polarization Type	垂直 Vertical
功率容量 Power Capacity (w)	50
雷电保护 Lingtning Protection	None
工作电压 DC Voltage (V)	None
天线尺寸 Dimension (mm)	21x5
接口形式/Connector Type:	None
电缆型号 Cable type (mm)	None
电缆长度 Cable length(mm)	None
辐射体 Radiator	铜
天线颜色 Color	黄色
重量 Weight (g)	None
工作温度 Operating Temperature ( $^{\circ}\text{C}$ )	-40~80
储藏温度 Storage Temperature ( $^{\circ}\text{C}$ )	-20~85

\*注：以上数据仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

## 1.2 Antenna Picture



天线增益: 3DBI

[www.batwireless.com](http://www.batwireless.com)

天线尺寸: 21mm(总长) 5mm(直径) 2mm(直角)

**快速寄样 可按要求定制**

上图型号: BW433SNX21-5W2

(定制客户中间连接线长度定制, 天线形状定制)

\*注: 因天线功能较为敏感, 主体周边机构有变更请通知我们评估。

## **2. Electrical Specification**

### **2.1 Test Equipment**

- A. VSWR and input impedance: Agilent 8753/E5071 Network Analyzer
- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

### **2.2 Test Setup**

#### **2.2.1 Frequency Range**

#### **2.2.2 VSWR**

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



**Figure.1**

#### **2.2.3 Radiation pattern and Gain**

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 4 and 5).



Figure.2



Figure.3



Figure.4

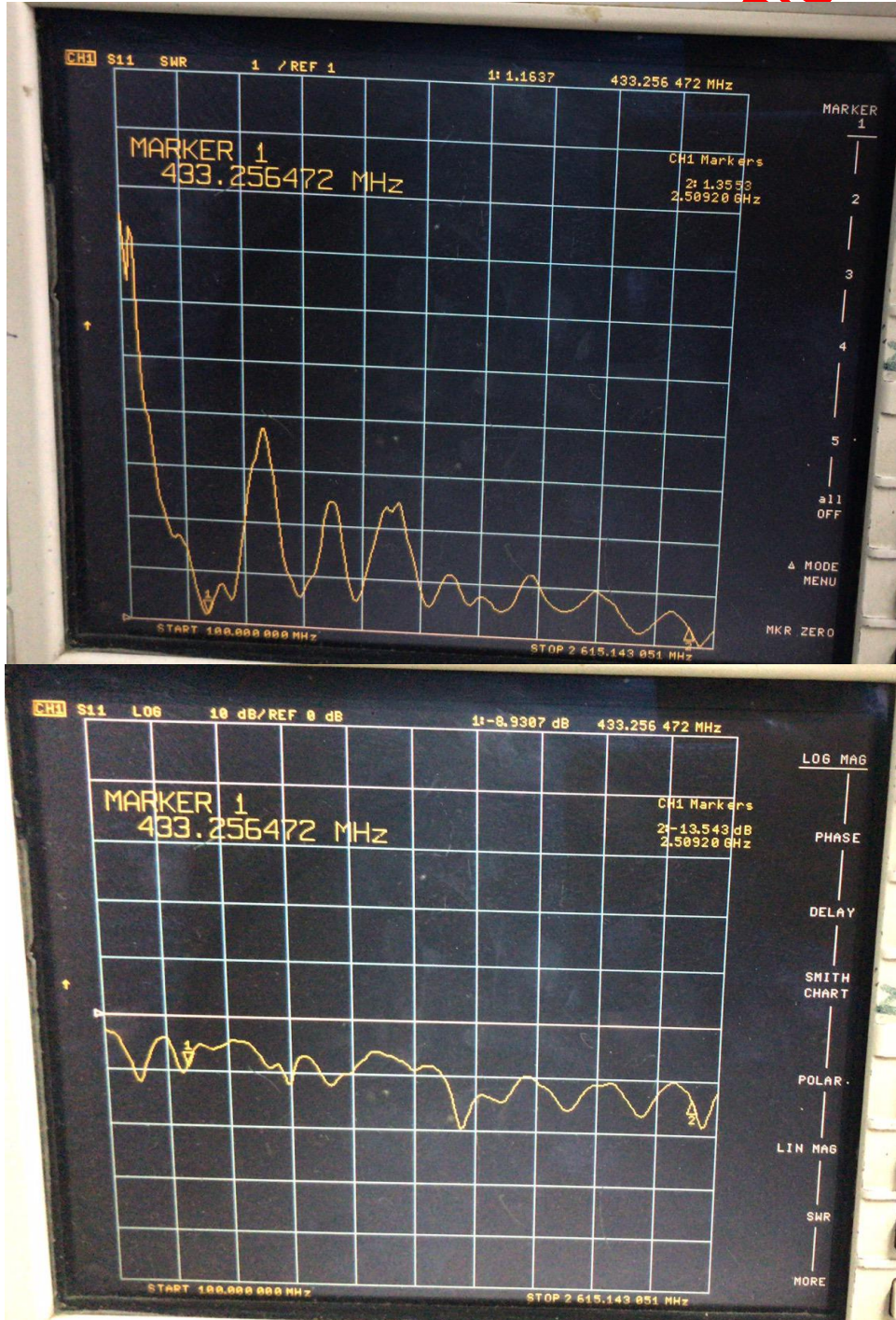


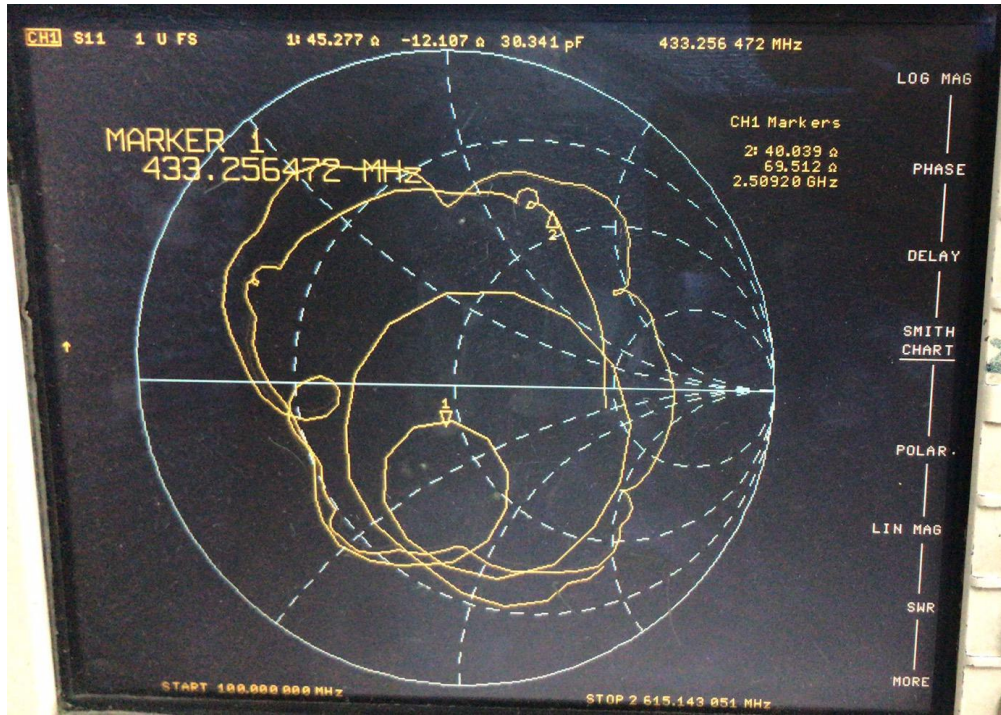
Figure.5

### 3. Performance Data

#### 3.1 Passive data

VSWR (电压驻波比) / Return Loss (回波损耗) / Smith Chart (史密斯圆图)





\*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。



## 4.Mechanical Specification

### 4.1 Assembly Drawing

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