

# 产品规格承认书

Product specifications  
acknowledgment

承认厂商：\_\_\_\_\_

(Recognized manufacturers)

制造厂商：\_\_\_\_\_深圳市沃进科技有限公司\_\_\_\_\_

(Manufacturer)

产品名称：\_\_\_\_\_433 吸盘天线\_\_\_\_\_

(Description)

产品选型表：

(Product Type)

| 型号                  | 说明       | 备注    |
|---------------------|----------|-------|
| VG433XWX120-8L1000J | SMA 内螺内针 | 线长可选配 |
|                     |          |       |
|                     |          |       |

## 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                               | VG433XWX120-8L1000J |
| 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                                 | <1.5                |
| 增益 Gain (dBi)                                    | 8dBi                |
| 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)                              | H=12                |
| 接口形式/Connector Type :                            | SMA 内螺内针            |
| 电缆型号 Cable type (mm)                             | RG174               |
| 电缆长度 Cable length(mm)                            | 1000                |
| 辐射体 Radiator                                     |                     |
| 天线颜色 Color                                       | 黑色 Black            |
| 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



上图型号：VG433XWX120-8L1000J

（可定制）

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## **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).

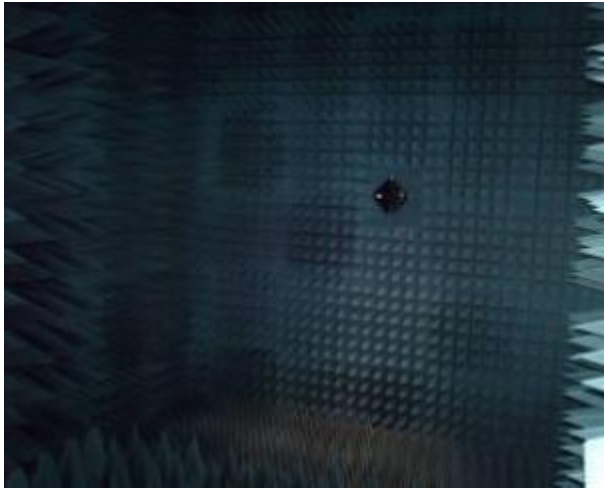


Figure.2



Figure.3



Figure.4

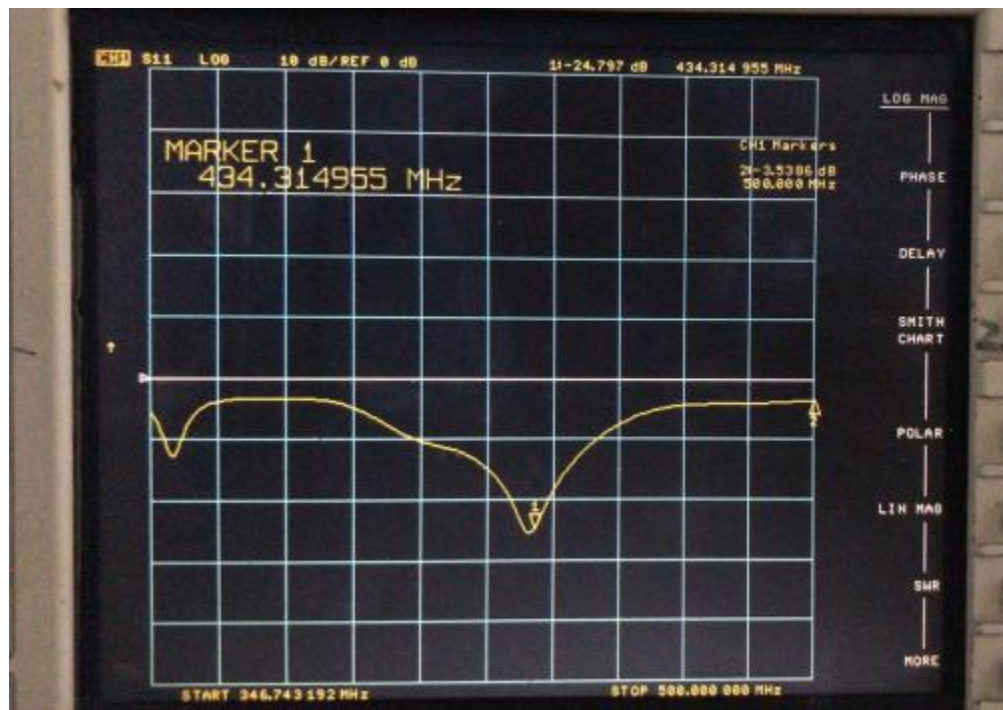
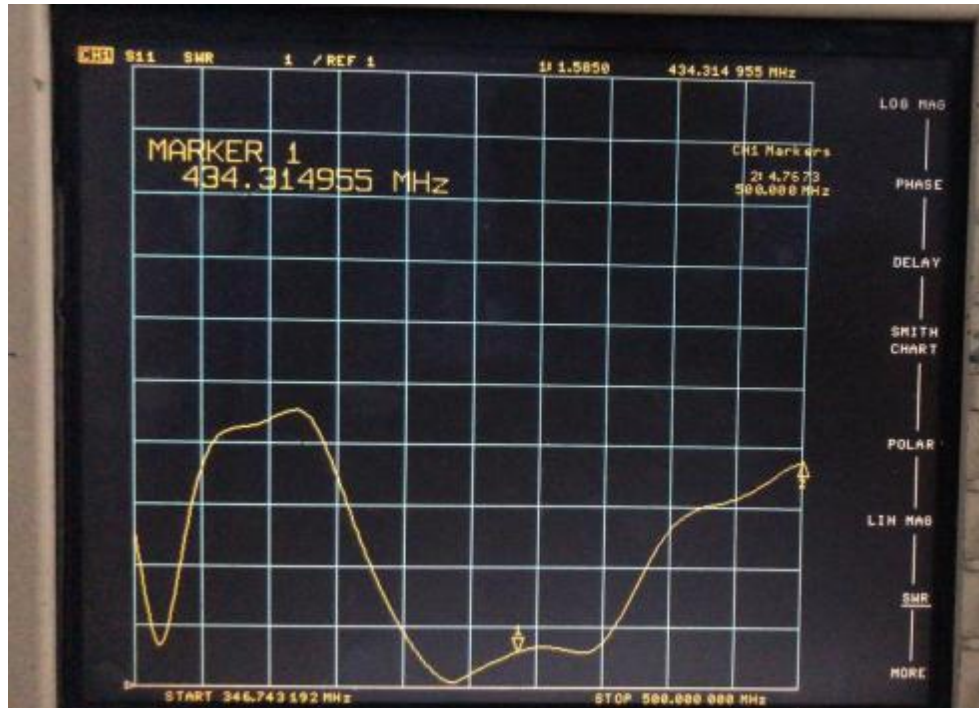


Figure.5

### 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)



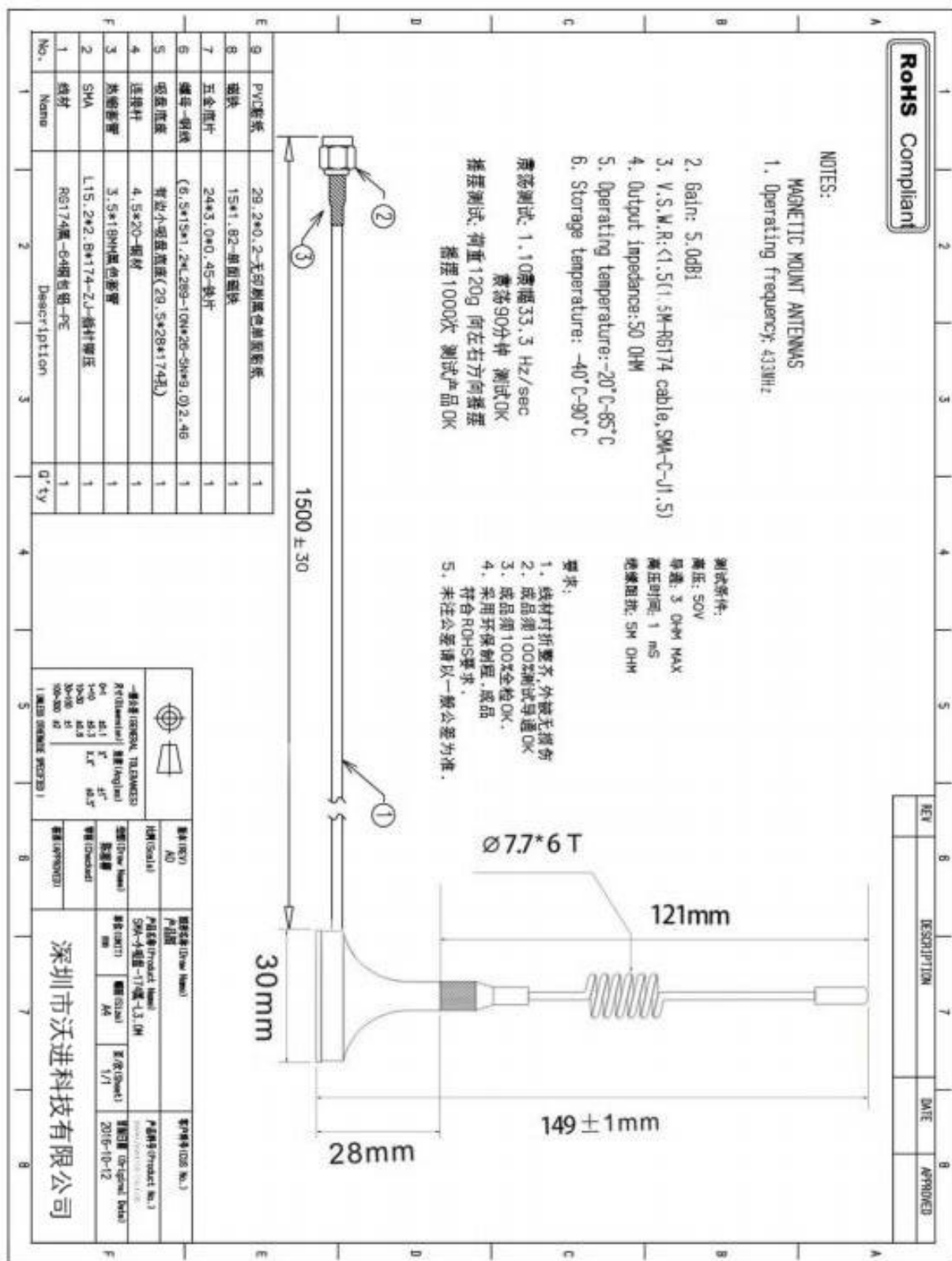




\*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

## 4.Mechanical Specification

### 4.1 Assembly Drawing





## 5.免责声明(Disclaimer)：

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