

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) Shenzhen BatWireless Technology Co., Ltd.

产品名称：_____2.4G 棒状天线 (2.4G Rubber Antenna)_____

(Description)

产品选型表：

(Product Type)

型号 (Model number)	说明 (Introductions)	备注 (Remarks)
BW2.4GJWX50-10WJ	SMA 内螺内针 (internal screw thread and internal needle)	接口可订制 (Interface can be customized)

供应商承认签栏 (Vendor acknowledgement signature column)

制表者 (Tabulator)	审核者 (Auditor)	核准者 (Authorizer)

客户承认栏 (Client acknowledgement column)

审核者 (Auditor)	核准者 (Authorizer)

1.1 Specifications

天线型号 Antennas Type	BW2.4GJWX50-10WJ
频率范围 Frequenc Range (MHz)	2400-2500
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 V. S. W. R	<2
增益 Gain (dBi)	2dBi (Customizable)
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)	50
接口形式/Connector Type:	SMA 弯头内螺内针 (可定制) Bend header with internal screw thread and internal needle (customizable)
电缆型号 Cable type (mm)	None
电缆长度 Cable length (mm)	None
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。

Note: The above data is for reference only; due to the sensitive nature of the antenna function, please notify us of any changes in the organization surrounding the subject for evaluation.

1.2 Antenna Picture



Figure above model: : BW2.4GJWX50-10WJ

(Customizable)

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Note: Due to the sensitive nature of the antenna function, please notify us of any changes in the organization surrounding the subject for evaluation.

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).

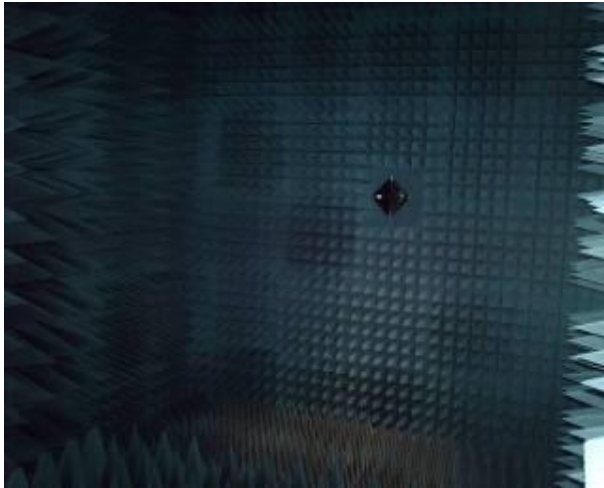


Figure.2



Figure.3

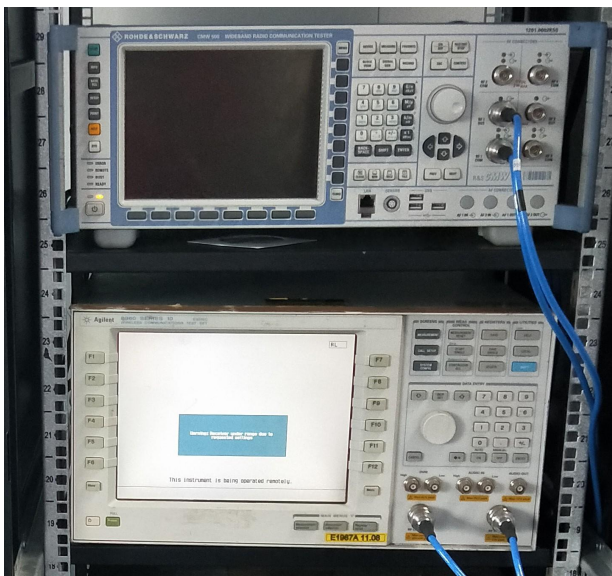


Figure.4

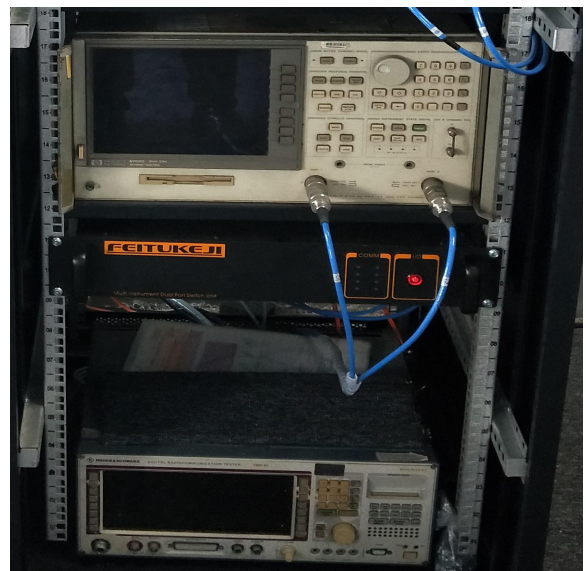
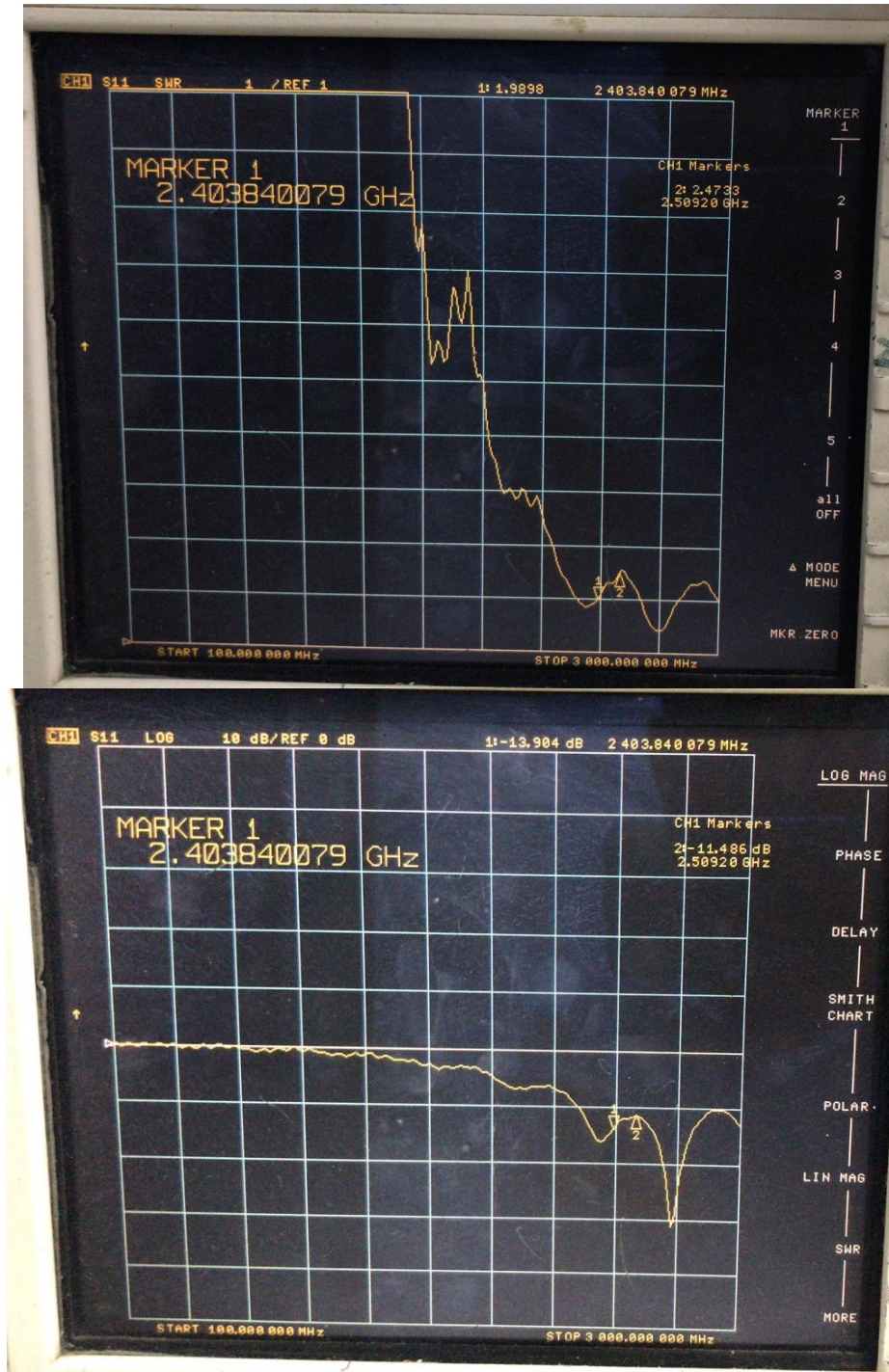


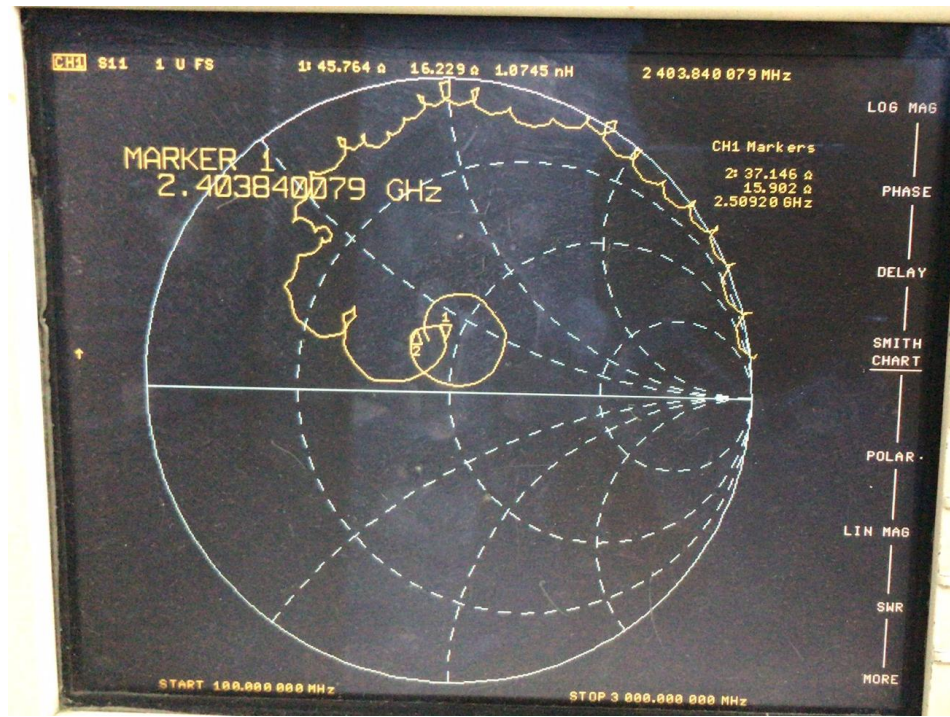
Figure.5

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)



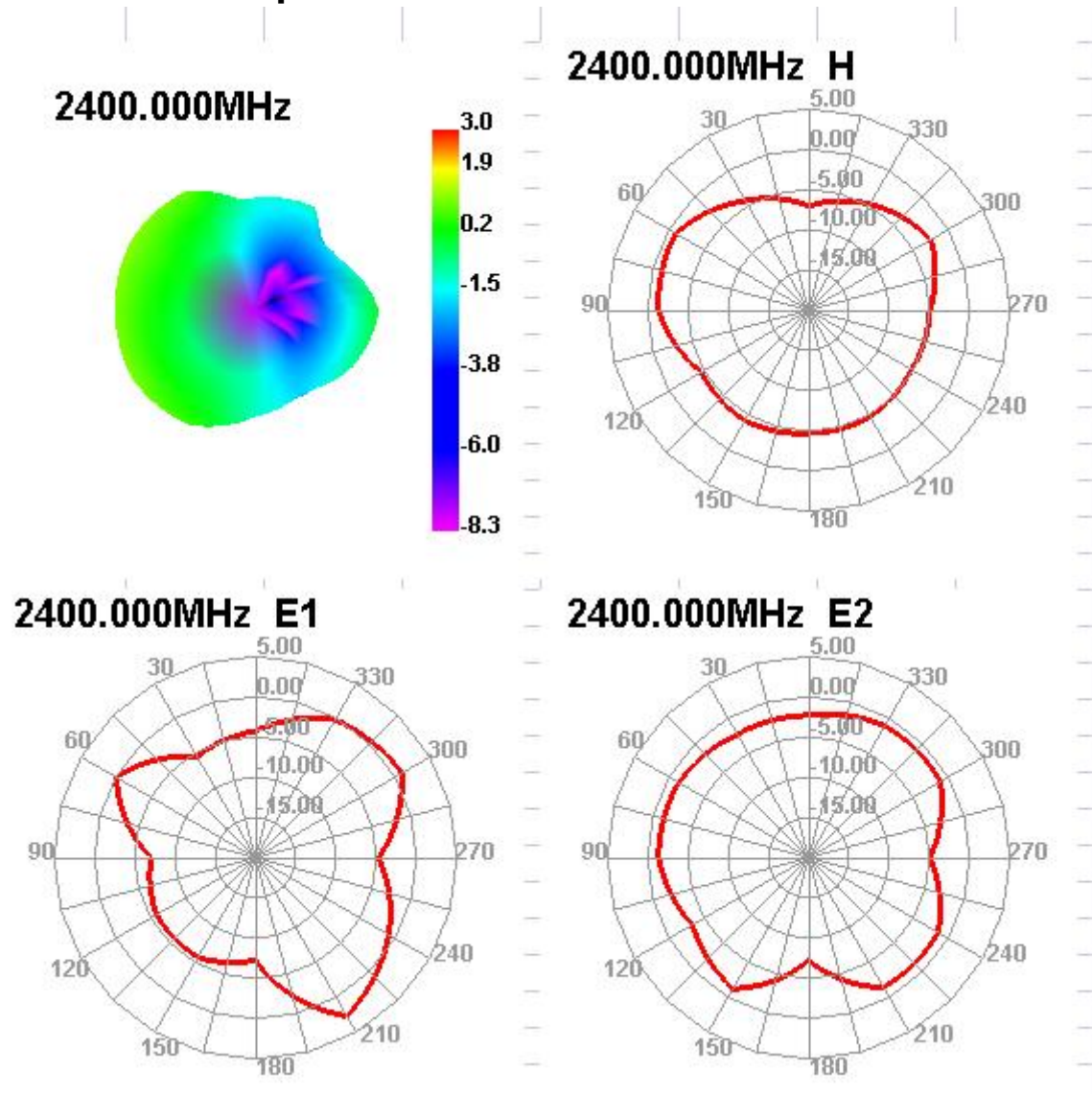


*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。
*Note: The above is measured data for reference only; as the antenna function is more sensitive, please notify us of any changes in the subject's neighboring organizations for evaluation.

3.2 Efficiency & Gain

2.4G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
2400	44.38	-2.79	1.26	-0.88	40.28	13.32	2.29	-23.79	48.26	49.33
2410	44.63	-2.46	1.66	-0.48	42.42	13.54	2.46	-21.29	48.66	49.58
2420	44.94	-2.12	1.82	-0.32	40.96	14.77	2.68	-20.97	48.71	49.88
2430	44.27	-2.70	1.40	-0.74	43.24	15.23	2.29	-22.77	48.21	49.35
2440	44.75	-2.39	2.00	-0.14	40.71	15.79	2.53	-25.39	48.58	49.56
2450	44.82	-1.83	1.50	-0.64	41.19	16.18	3.15	-21.98	49.11	49.99
2460	44.28	-2.63	1.23	-0.91	42.39	18.25	2.31	-25.62	48.37	49.22
2470	44.49	-2.34	1.44	-0.70	41.78	18.80	2.50	-24.31	48.50	49.54
2480	45.08	-2.23	1.00	-1.14	40.89	19.05	3.14	-23.23	48.98	49.99
2490	44.21	-2.68	1.25	-0.89	43.21	19.23	2.35	-21.77	48.24	49.20
2500	44.46	-2.32	1.61	-0.53	40.44	19.62	2.48	-20.30	48.48	49.61

3.3 3 - D antenna pattern

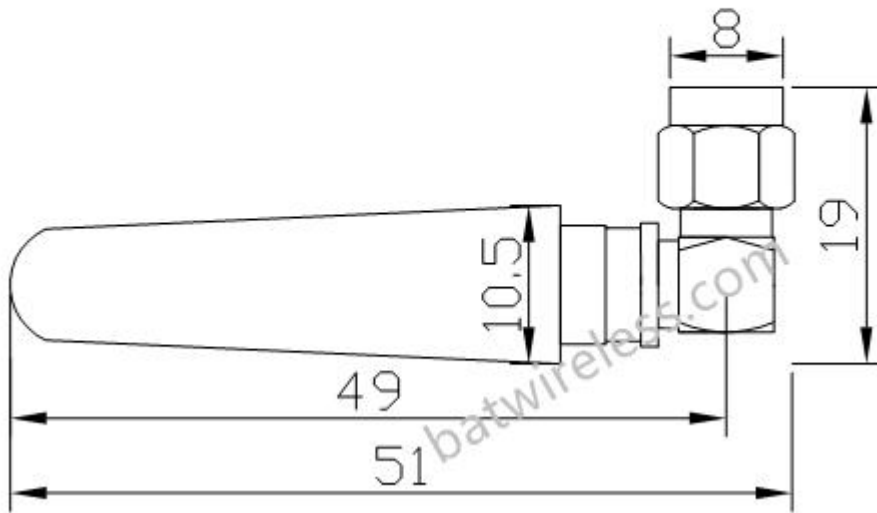


4. Mechanical Specification

4.1 Assembly Drawing

单位: mm

比例: 1:1



5. 免责声明 (Disclaimer):

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In order to provide our users with better service, Shenzhen Bat Wireless Technology Co., Ltd (hereinafter referred to as Bat Wireless) will try to present as detailed and accurate product information as possible in this manual. However, due to the timeliness of the manual content, Bat Wireless shall not absolutely guarantee the unlimited timeliness and applicability of the file. Bat Wireless has the right to update the manual content without further notice. To get the latest edition information, pls visit the official website of Bat Wireless or contact our customer service staff. Thanks for your trust and support!

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