



Shenzhen Yesheng Communication Technology Co.,Ltd

## Specification for built-in Antenna

### YHLBLUE8LP71 Antenna

### Product Confirmation

<b>Client</b>	BLU Products, Inc.	<b>Band</b>	BT/WIFI 2.4
<b>FCC ID</b>	YHLBLUE8LP71	<b>Version</b>	YST-V1.0-A
<b>Item Number</b>	YST-20221029-OS828-71 GWB antenna	<b>Copies</b>	5
<b>Sample type</b>	FPC Antenna	<b>Colour</b>	Black
<b>RF Designer</b>		<b>Structural design</b>	
<b>Department Manager</b>		<b>Date</b>	November 15, 2022

**Client confirms:**

Reach requirement of customer: OK NG

Producer: Ying Jia Bing

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## 1 Description of basic information

### 1.1 Description of machine information

<b>Product Name:</b>	QS828-71
<b>WireLess type:</b>	BT/WIFI/GPS Antenna
<b>Band:</b>	WIFI2.4G BT 2.4
<b>Sample type:</b>	FPC
<b>Set Type</b>	Tablet

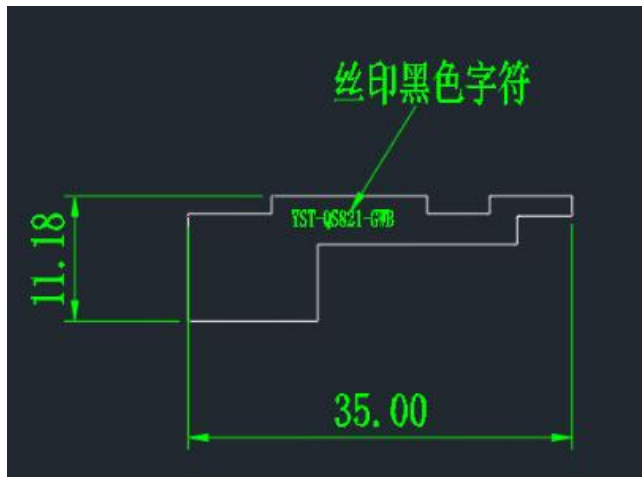
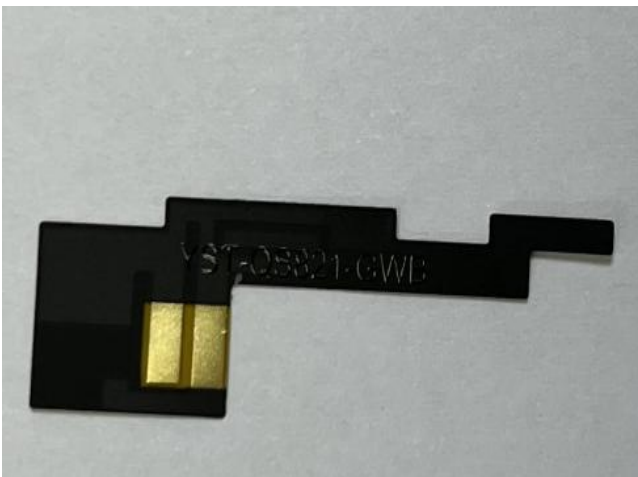
### 1.2 Machine photo

Please refer to 'Antenna Set up Photo' for details.

### 1.3 Antenna paste position map

Please refer to 'Antenna Set up Photo' for details.

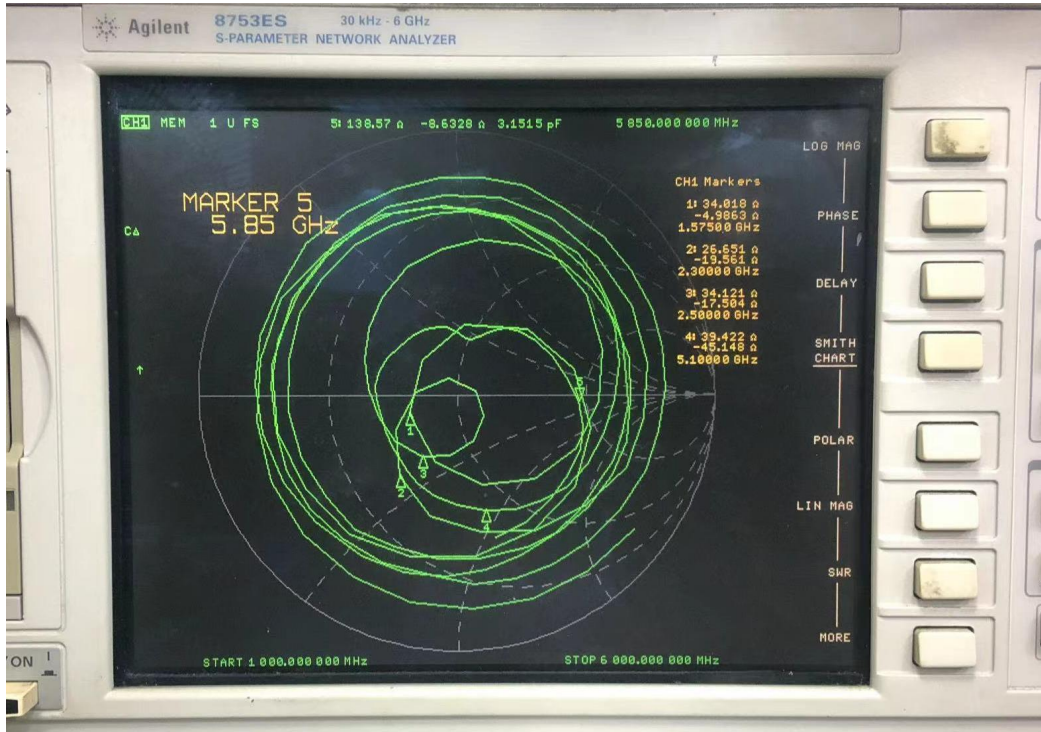
### 1.4 Antenna appearing diagram



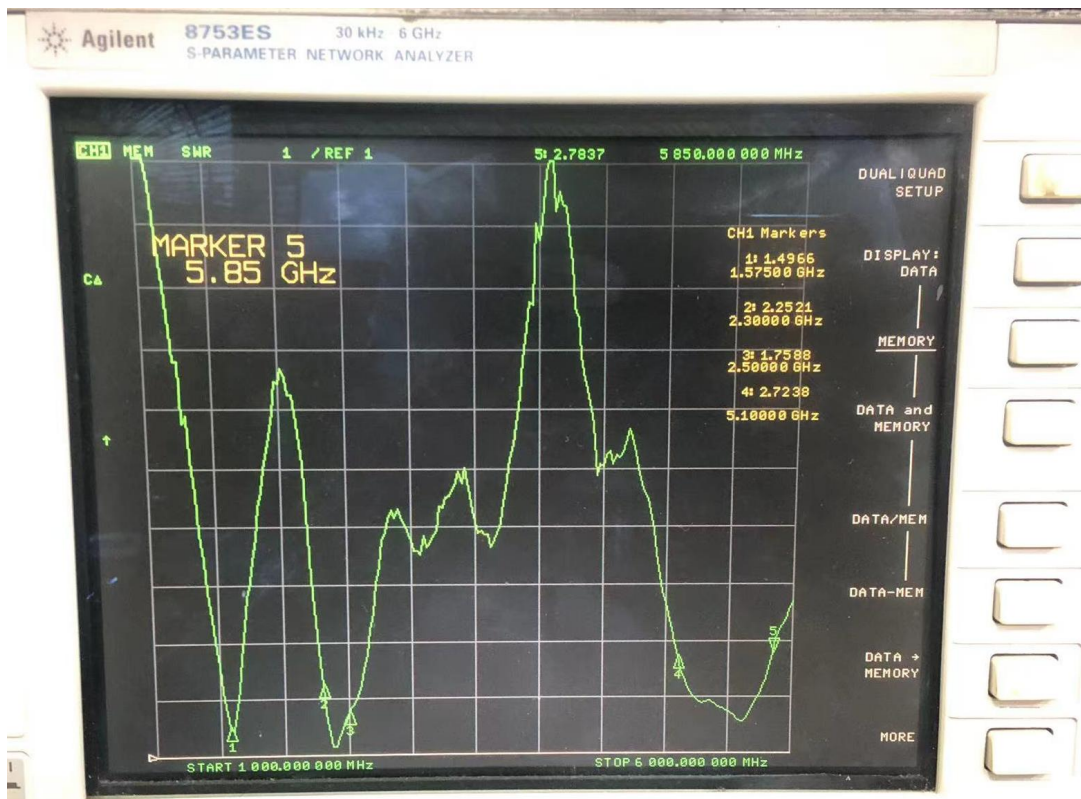
## 2 Electrical specifications

## 2.1 VSWR & Return Loss -3 in 1 ( WIFI&BT&GPS ) Antenna

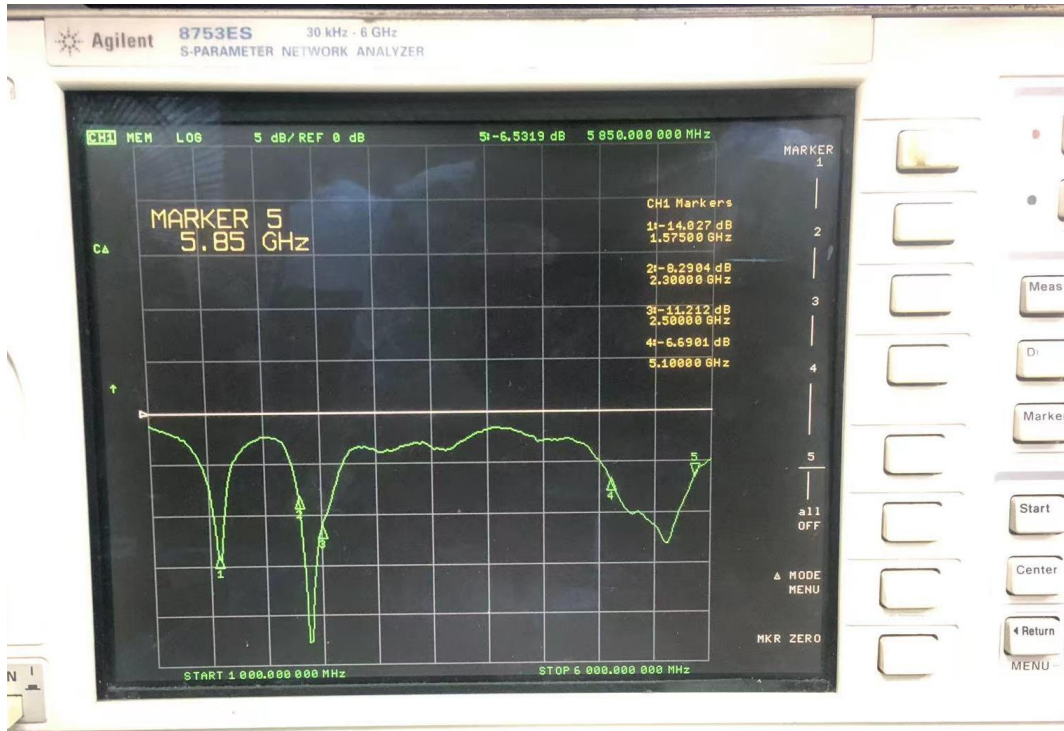
### smith



### SWR



## LOG MAG



## 2.2 Gain test

	Band	Gain
2.4G BT	2400MHz-2500MHz	1.8dBi
2.4G WIFI	2400MHz-2500MHz	1.8dBi

## **2.3 Step-by-step instructions for gain testing**

Please refer to 'Antenna Set up Photo' for details.

- 1、 Open computer and instrument , choose passive test include Gain by program-controlled computer
- 2、 Put EUT on turntable and connect EUT with RF cable
- 3、 Control computer desk and finish test
- 4、 Export and save test result

## **3 Test method for antenna samples**

### **Test Picture**

Please refer to 'Antenna Set up Photo' for details.

### **3.1 A description of the test procedure :**

- 1、 Use 'start' key and 'stop' key to set up frequency range
- 2、 Calibrate test port of the instrument
- 3、 Connect EUT and instrument with RF cable, and finish VSWR&Return Loss&Smith chart
- 4、 Export and save test result