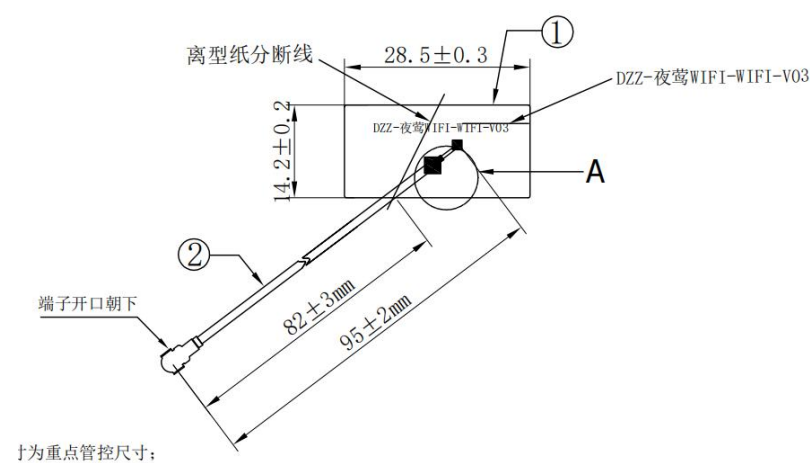


1. Antenna Information

Product Model	夜莺
Antenna Model	夜莺 WiFi 版-WiFi & BLE
Antenna Type	PIFA
Manufacturer	Shenzhen Be-Comfortable Technology Co. Ltd

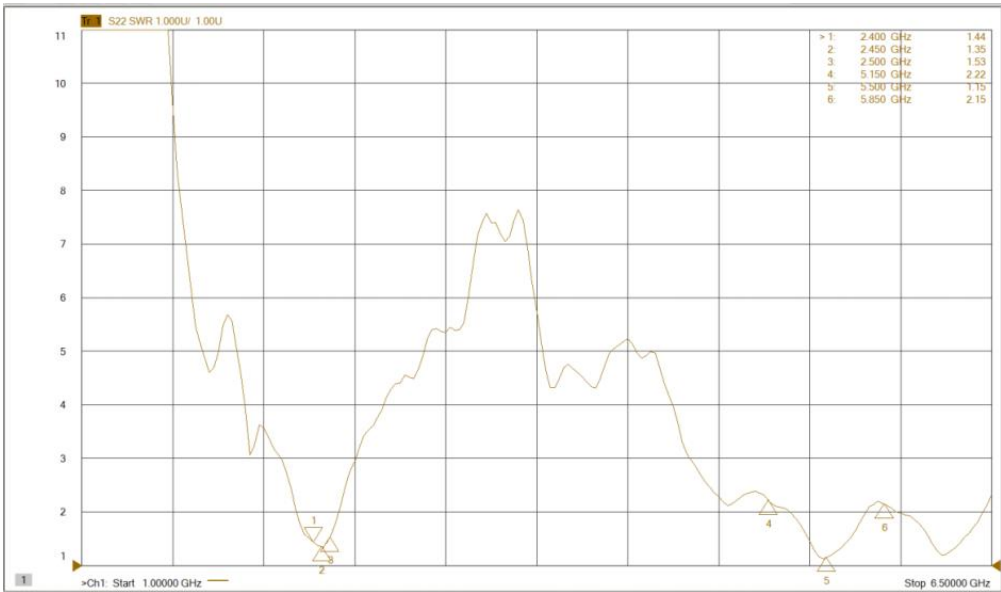
2. Antenna Picture



3. Electrical Specification

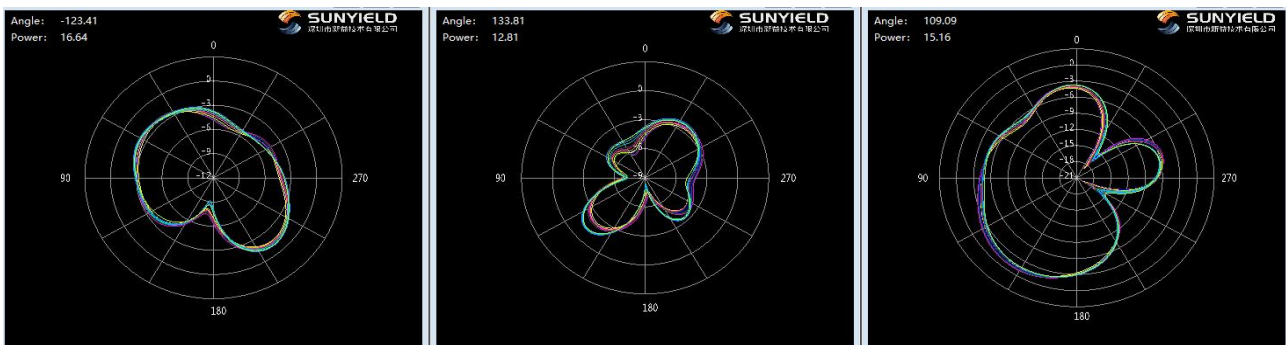
Frequency Range	2.4G WiFi & BLE: 2400 - 2500 MHz 5G WiFi: 5150 - 5850 MHz
Bandwidth	2.4G WiFi & BLE: 100 MHz 5G WiFi: 700MHz
Input Impedence	50 Ω
S11	≤ -10 dB
Peak Gain	2.4G WiFi & BLE: 0 dBi 5G WiFi: 0.5 dBi

4. Antenna S11

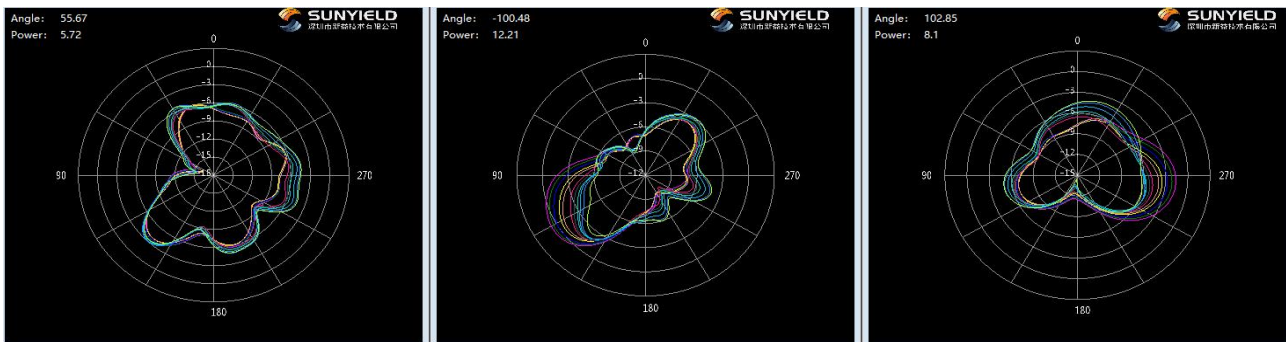


5. Radiation Pattern

2.4G WiFi & BLE



5G WiFi



6. Test Results

2.4G WiFi & BLE

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1	2400	-1.3	-3.4	45.3
2	2410	-1.5	-3.5	44.2
3	2420	-1.2	-3.4	45.8
4	2430	-1.0	-3.2	47.9
5	2440	-0.9	-3.2	47.8
6	2450	0.0	-3.1	48.6
7	2460	-0.3	-3.0	50.4
8	2470	-0.4	-2.9	51.4
9	2480	-0.8	-2.9	51.0
10	2490	-0.8	-2.9	51.7
11	2500	-0.6	-2.8	52.6

5G WiFi

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1	5150	0.4	-2.8	52.4
2	5200	0.4	-2.9	51.8
3	5250	0.5	-2.9	51.2
4	5300	0.5	-2.8	52.0
5	5350	0.4	-3.1	49.0
6	5400	0.5	-3.1	48.8
7	5450	0.5	-3.2	48.2
8	5500	0.5	-3.3	47.1
9	5550	0.4	-3.1	48.8
10	5600	0.4	-3.1	49.1
11	5650	0.4	-3.1	49.3
12	5700	0.4	-3.1	49.5
13	5750	0.3	-3.0	50.1
14	5800	0.3	-3.0	50.1
15	5850	0.4	-2.9	51.3