

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Tonly Technology Co., Ltd.

PRODUCT NAME: 2.4/5G Internal antenna L=268mm

CUSTOMER P/N:

Ren Feng P/N: U00T02S000N02718 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Liu Xiaolin	
APPROVED BY:	Yao Dingjun	
DATE:	2023-02-13	

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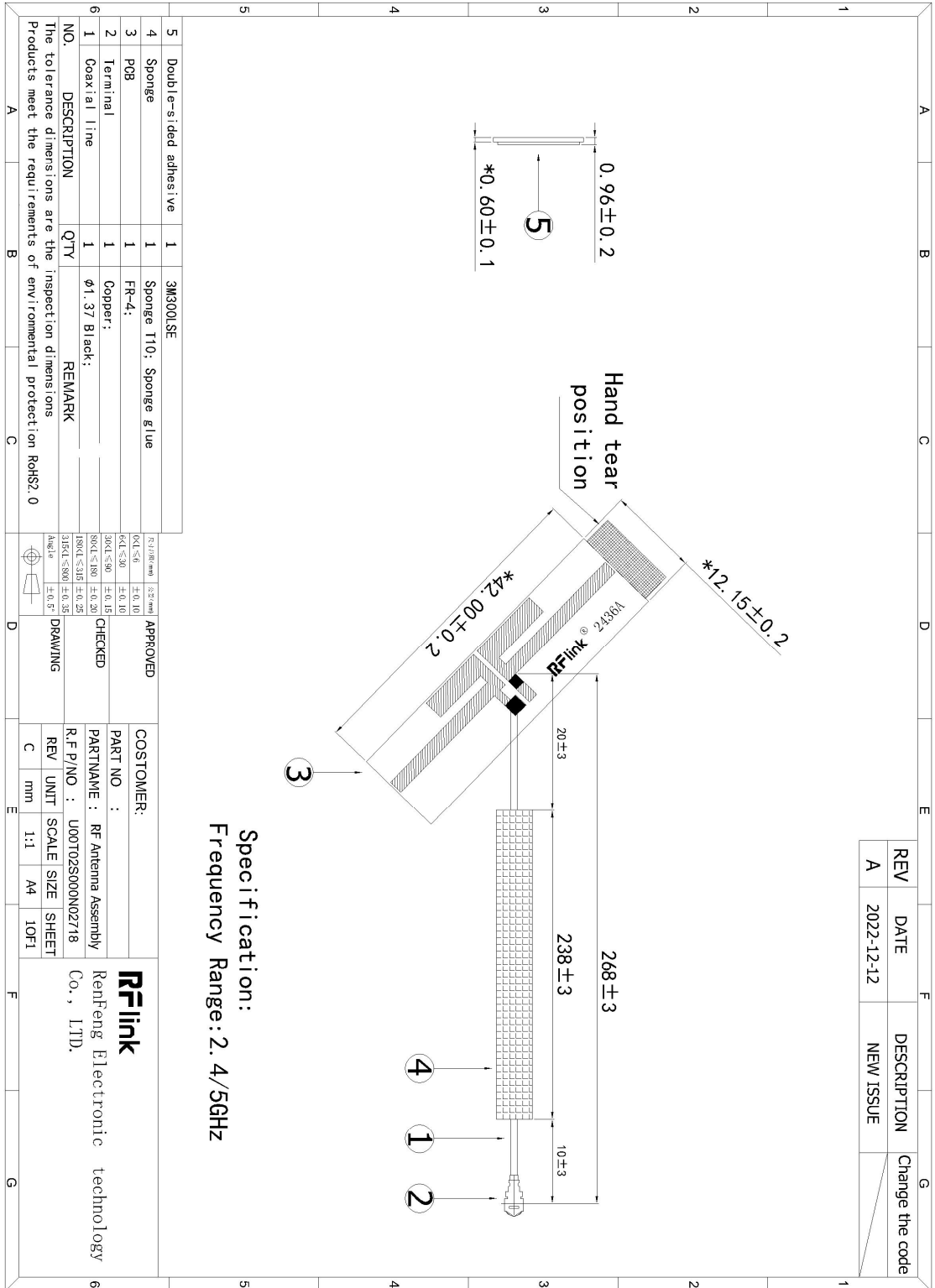
二、 Specification sheet:

Product main technical parameters

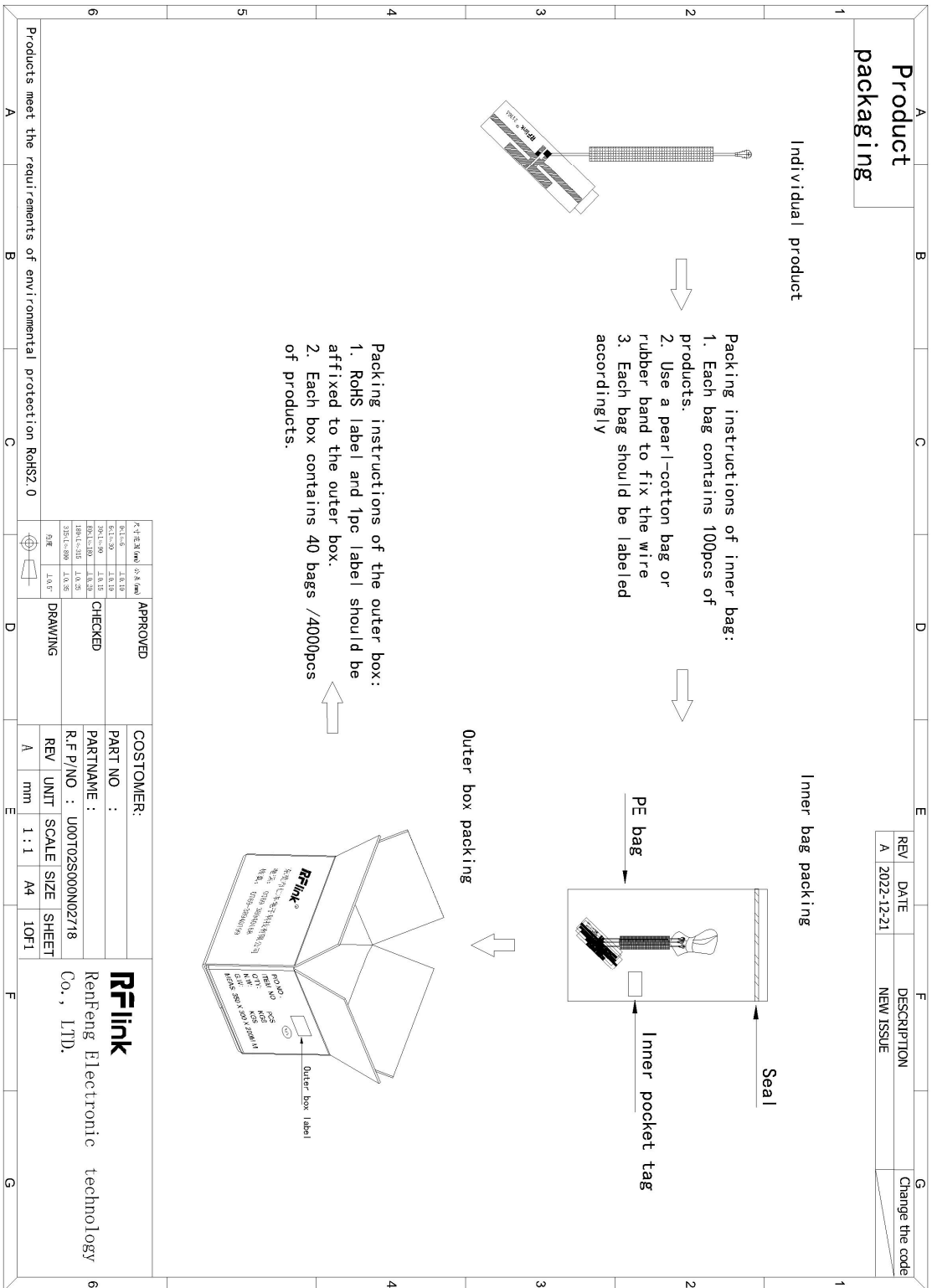
Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	2.94 3.78	Peak Gain(dBi)	2.94 3.78
VSWR	≤ 2.0	VSWR	≤ 2.0
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	I-PEX	Connector Type	I-PEX
Physical Properties		Physical Properties	
Antenna cover	PCB	Antenna cover	FR-4
Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C
Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

三、 Finished product drawing & packing drawing:

2.1、 Antenna size diagram



2.2、Packing specification



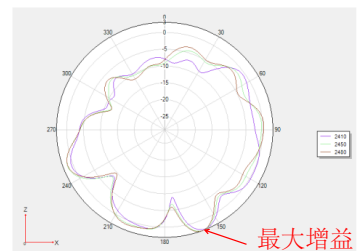
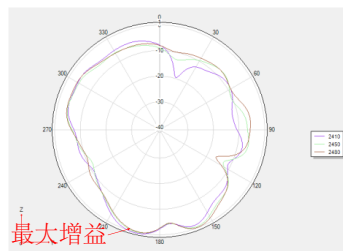
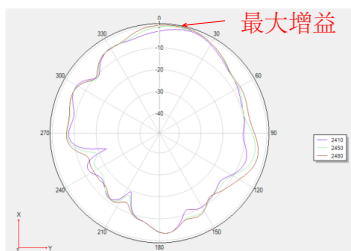
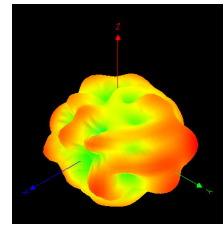
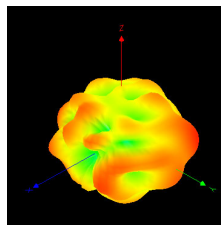
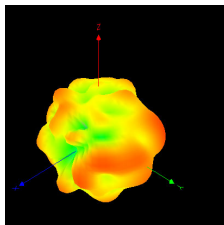
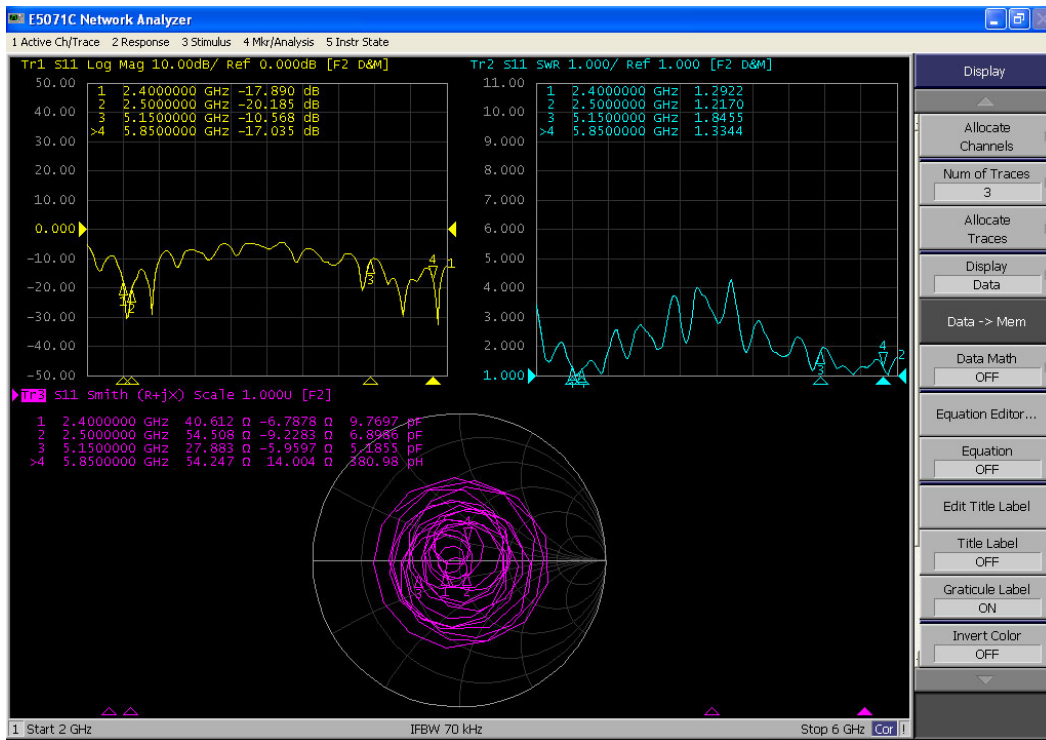
四、Antenna assembly position:

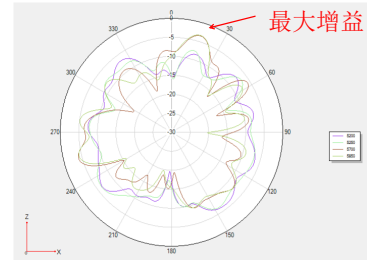
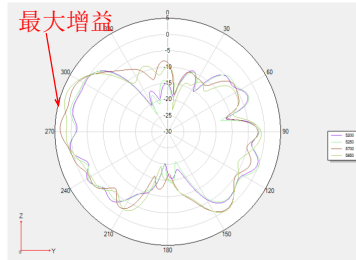
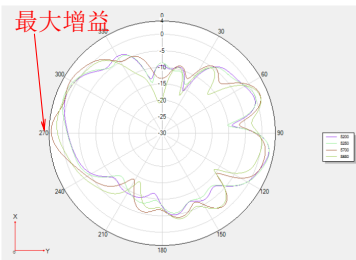
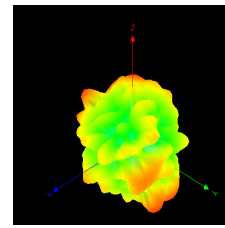
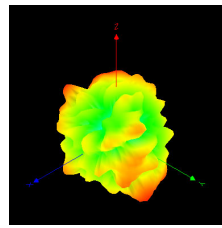
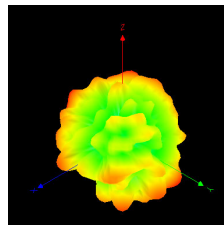
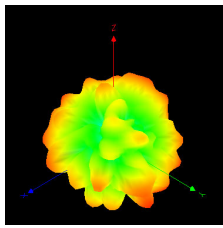


五、Test report

ANT1-WIFI2

5.1: Network analyzer test report





Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.03	2.8	5150	54.65	3.56
2410	53.75	2.89	5200	53.65	3.58
2420	55.58	2.94	5250	55.97	3.42
2430	55.47	2.77	5300	54.43	3.2
2440	58.33	2.86	5350	56.14	3.05
2450	60.21	2.94	5400	57.05	3.59
2460	60.34	2.88	5450	57.55	3.73
2470	58.83	2.75	5500	56.83	3.59
2480	59.33	2.78	5550	57.26	3.46
2490	57.97	2.79	5600	55.44	3.49
2500	57.24	2.79	5650	53.29	2.71
			5700	52	2.28
			5750	50.21	3.16
			5800	50.21	3.63
			5850	50.21	3.78

六、ROHS/ Raw material list:

Meet RoHS requirements。

Serial number	Name	Material	QTY	Unit	Supplier	UL certification number
1	PCB	FR-4	1	pc	Junyi	/
2	1.37 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/
5	Double-sided adhesive	3M300LSE	1	pc	Pengsheng	/