

ACKNOWLEDGMENT LETTER

SPECIFICATION FOR APPROVAL

Specification Model/Description: Xin Ersheng (Xin'ersheng) / Antenna / 2.4G / 5.8G / XESANT11B131083 / XESANT333-863B-080PL / 3rd-Generation Terminal Coaxial Cable / 0.81MM Black Cable / Cable
Length: 95±2mm / Compliant with RoHS Quality Requirements

Material Code: F.P.W.0000034

Manufacturer Part Number: XESANT11B131083

Supplier: ShenZhen XinErSheng Technology Co.,Ltd

Part Type ☒ Standard (STANDARD) ☐ Special (Designated or SPECIAL)

Material Part Acceptance Item 'Implementation Standard (Reference Acceptance Checklist)		
Acknowledgment Items		Technical Confirmation Column / Time
Whether the appearance meets the overall machine requirements	☐	ID Engineer:
Confirm whether the electrical performance, pin definition, and power consumption meet the overall system requirements.	☐	Hardware Engineer:
Confirm whether the materials meet the complete machine EMC/SAFETY/RF requirements	☐	EMC Engineer:
Refer to the 'Material Approval Checklist' for confirmation of the organizational part.	☐	Structural Engineer:
Confirm whether the driver and other components meet the overall machine requirements	☐	Drive Engineer:
Thermal: Confirm whether it meets the requirements of the entire machine	☐	Thermal Engineer:
Confirm whether it meets the whole machine BIOS/EC requirements	☐	SW Engineer:
Confirm whether the whole machine meets system compatibility/reliability testing.	☐	DQA Systems Engineer:
Environmental Review Record (Applicable to ROHS Directive)	☐	Environmental Engineer:
Confirm the supplier's appearance inspection standards/key processes	☐	SQE Engineer:
Confirm whether it meets the customer's requirements	☐	Project Manager:
FAI full-size report, CPK report, packaging method (package), single unit reliability report, etc.	☐	CE Engineer:

Sample attached ☒ R&D ☐ Quality ☐ Purchasing ☒ Supplier ☐ Customer ☒ Assembly plant

Precautions for IQC Inspection:

Version	Description of changes	Change Date	Reviser
A	First edition release		
Formulate		Review	



ShenZhen XinErSheng Technology Co.,Ltd

SPECIFICATION FOR APPROVAL

Customer name: A333-863B-080PL

Product name: 2.4/5.8G FPC antenna, 0.81mm black wire, L=95mm, with third-generation IPEX connector.

Customer Part Number: F. P. W. 0000034

Manufacturers of Material: XESANT11B131083

Deliver quantity: 5PCS

Mark	Check	Examine and approve	Datelanded
Biao	Lisen	Amy	2025.05.15

That Customers:

Acknowledge	Check	Examine and approve	Datelanded

Admit that situation: ☒ new product ☐ product shanges

Admit that project: ☐ acknowledgement ☐ soecimen 5PCS

Admit that conclusion: ☐ reception ☐ refuse

Company address: Floor 3, Building D, No.96 Lingxia Road, Fuyong Fenghuang Fourth Industrial Zone, Baoan District, Shenzhen

Phone number: 0755-33881455

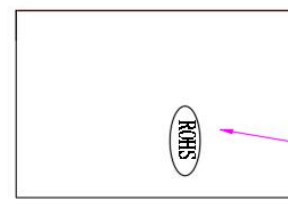
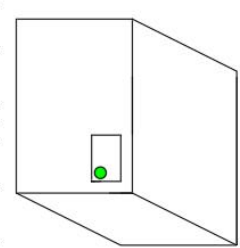
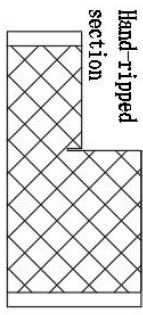
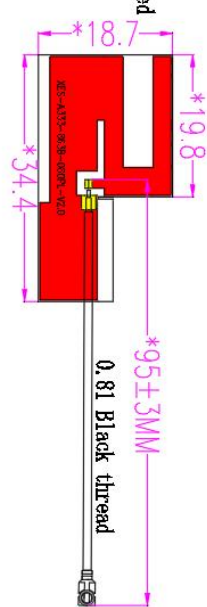
Fax NO.: 0755-33233276

Email: liqinghui@xinershengant.com

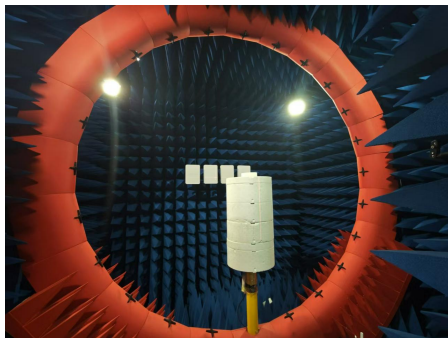
Main technical parameters of the product

Main technical specifications	
Frequency Range(MHZ)	2400-2500/5150-5850
Impedance(Ω)	50 ± 10
Gain(dBi)	2.5 ± 1
ReTurnLoss(dB)	≤ -10
VSWR	≤ 2
Admitted Power	1W
Polarization	Linear Vertical
Connector Type	IPEX
Physical Properties	
Antenna Base	FPC
Operating Temp	$-20^{\circ}\text{C} - +60^{\circ}\text{C}$
Storage Temp	$-20^{\circ}\text{C} - +70^{\circ}\text{C}$

Product drawing

Finished product image.		 ROHS Environmental Protection Label																																													
																																															
1. An IPCS/ROHS label needs to be affixed to the outer box label. 2. A IPCS/outer carton label needs to be affixed to the upper right corner of the outer carton side.		Specification: Frequency Range:2400-2500MHZ 5150-5850MHZ Return Loss:-10DB or less VSWR:2 Max Gain:2.5 dbi																																													
2	RF cable	0.81 line																																													
1	terminal	copper																																													
NO	DESCRIPTION	Q'TY	REMARK																																												
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 0.81 Black thread The Third Generation IPX																																															

Test equipment



OTA testing system

Brand: Feitu

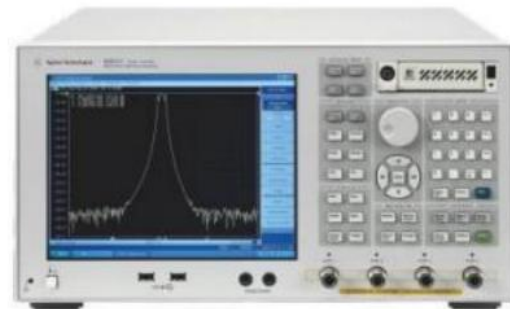
Frequency range: 400MHz-8.5GHz

Dimensions of the dark chamber: 4m x 4m x 4m

Number of probes: 24 (23 dual-polarized probes and 1 communication probe)

Functions: Passive and active testing; G network, C network, 2G/3G/4G.

WIFI, BT, and other standard TRP, TIS testing, and so on.



Model: 5071C

Brand: Agilent

Frequency range: 9KHz-8.5GHz

Function: Comprehensive passive testing of antennas, including 2G/3G/4G/BT/WIFI.



Model: 8960

Brand: Agilent

Frequency range: 292MHz-2700GHz

Function: Suitable for active testing of 2G/3G devices.



Model: CMW500

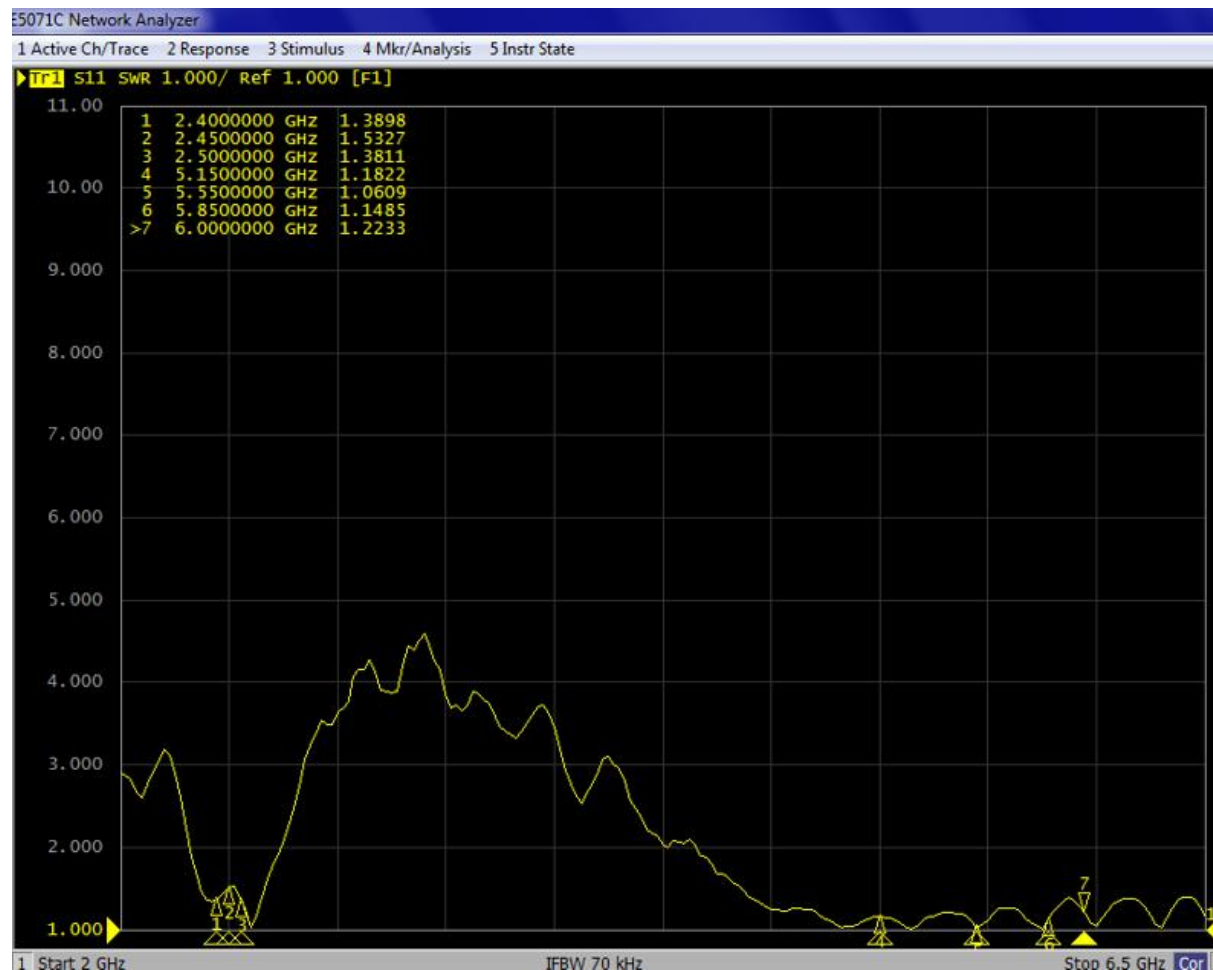
Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

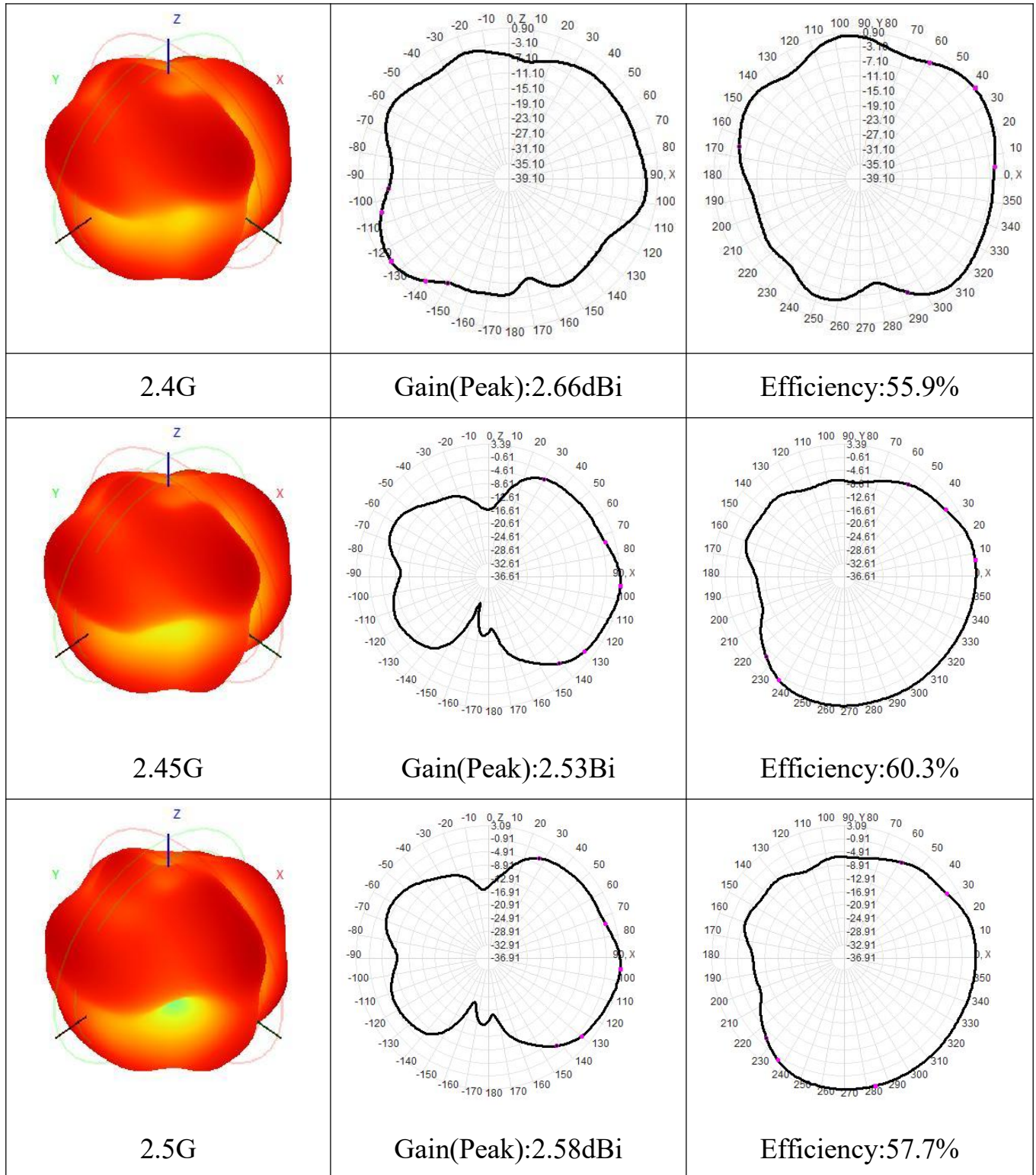
Function: Comprehensive active testing of antennas, including 2G/3G/4G/BT/WIFI/NB-Lot.

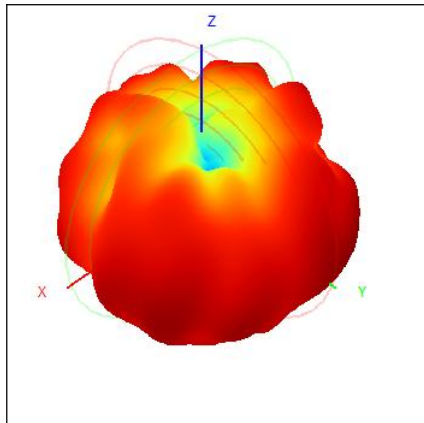
Network analyzer test report

1. SWR

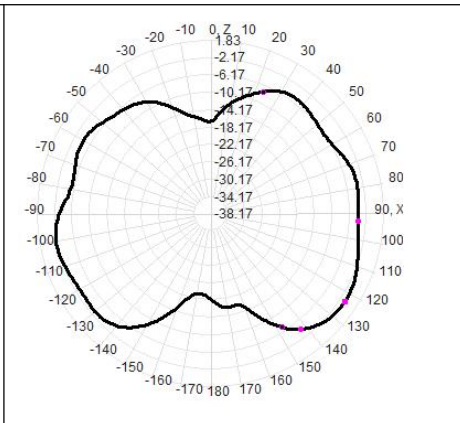


2D、3DRaditation Pattern

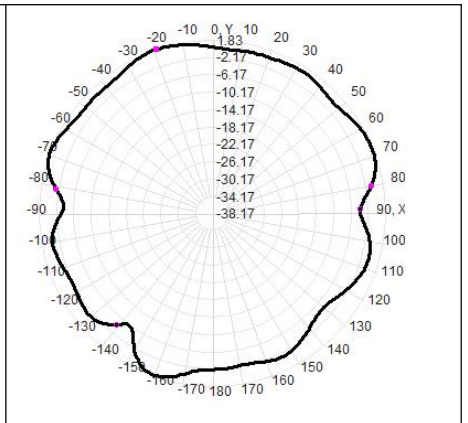




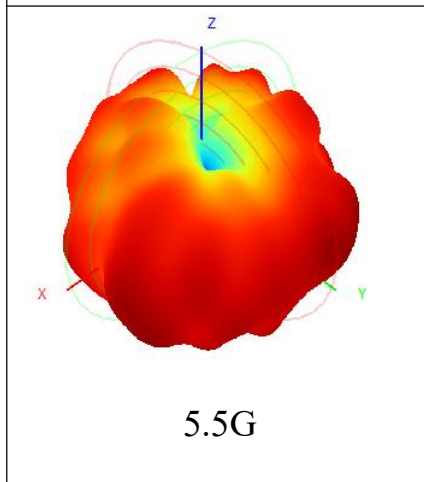
5.15G



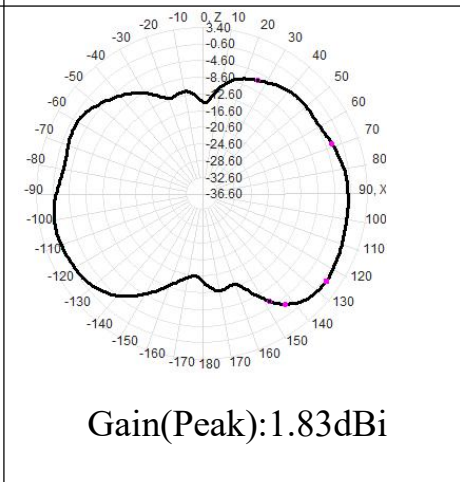
Gain(Peak):2.28dBi



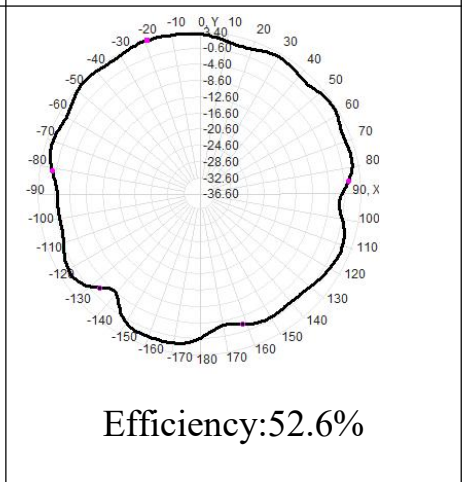
Efficiency:57.71%



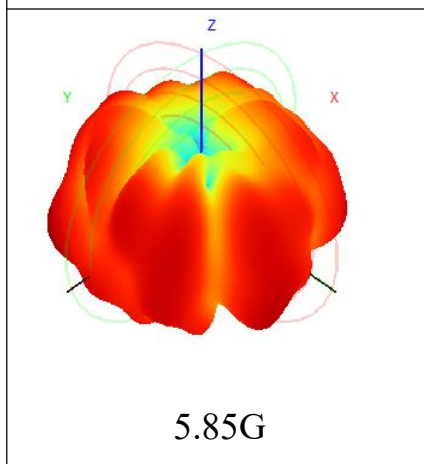
5.5G



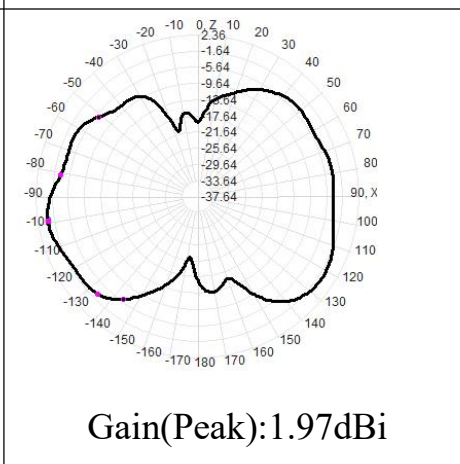
Gain(Peak):1.83dBi



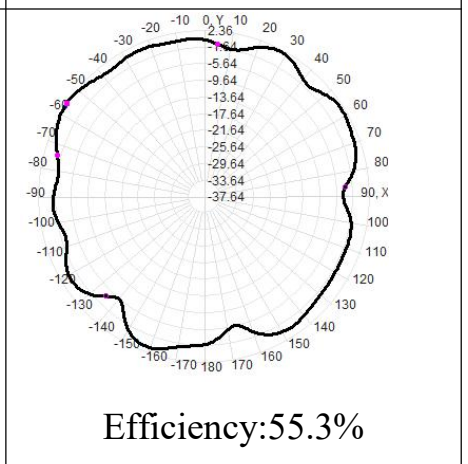
Efficiency:52.6%



5.85G

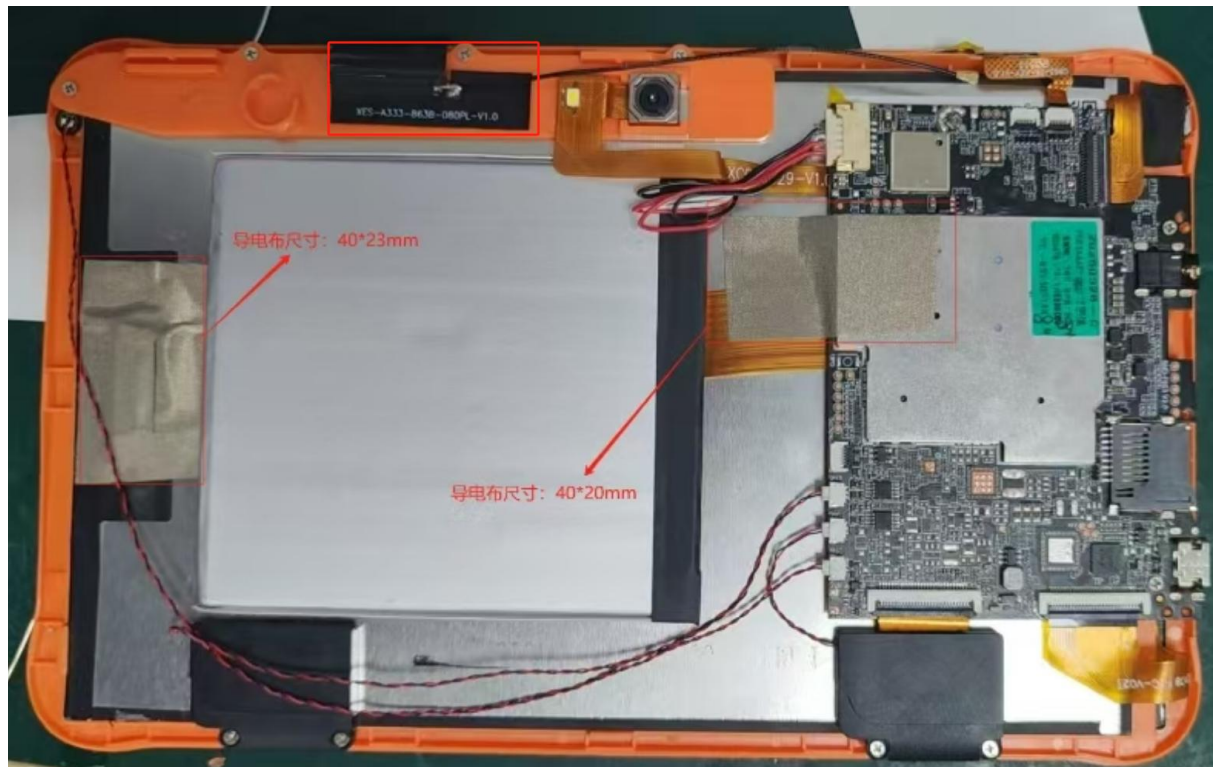


Gain(Peak):1.97dBi



Efficiency:55.3%

Assembly picture



OTA testing data

	Band		TRP	Band		TIS
A333-863B-080PL	B-11■	1	12.74	B-11■	1	-77.81
		6	13.03		6	-78.59
		11	13.21		11	-78.55
	A-54■	36	15.83	A-54■	36	-74.35
		149	13.98		149	-71.56
		165	15.59		165	-70.91

Reliability testing report

1	SAIT SPRAY TEST	Saltwater spray test: in accordance with the standard GB1266-86. Distilled water: Single distillation PH6.5~7 Spray volume: 1.4me80cm ² /h Compressed air pressure: 1Kgf/cm ² Relative test angle: 98° Temperature: 45° to 47° Pressure-temperature: 35° Test duration: 48 hours
2	HEAT TEST	for 96 hours, after keep in normal condition for 30mim the to test.
3	HUMIDITY TEST	40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30mim the to test.
4	COLD TEST	-20+2℃ for 96hours, after keep in normal condition for 30mim the to test.

All characteristic range is 30% of the initial value

There are no signs indicating any damage to the electrical performance of the device.

Product packaging specifications

Product name/Specifications

1、 Labeling Requirements

采购单号	*****
物料编码	*****
品名规格	*****
数量/单位	*****
备注	*****

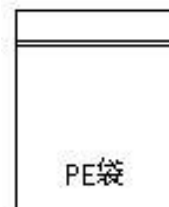
采购单号	*****
物料编码	*****
品名规格	*****
数量/单位	*****
备注	*****

2、 Packing requirements

Homework instructions:

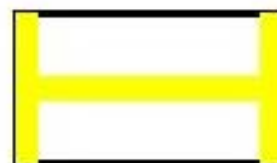
Inner packaging:

Product: 100 pieces per small bag

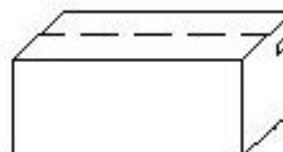


Exterior packaging:

Quantity determined based on actual quantity/box



纸箱



Precautions:

1. Is it necessary to add dividers or polyethylene foam;
2. Adhesion of labels, such as ROHS;