



APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N	H. DZ. SJ. TX. 00026	
PART NAME	2.4G/5.8G black rubber antenna	
P/ N	YJC-60302-B30	
APPROVAL REV.	A0	
DELIVERY DATE	February 23, 2023	
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APPROVED BY		
Customer Approved		
Approved By	Checked By	Prepared By

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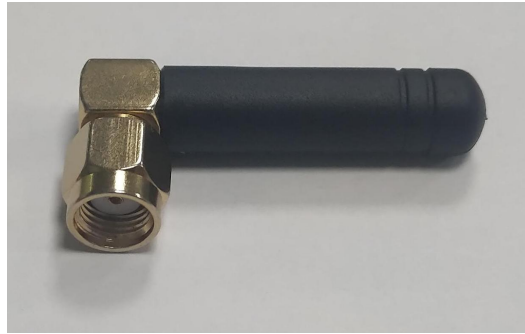
Antenna technical parameters and environmental testing:

Electrical parameters of electrical apparatus			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500/5150-5850M Hz	Antenna Color	Black
VSWR	<1.92	Input connector	SMA
Input Impedance	50 Ω	Antenna length	37 mm
Direction	All	Working Temperature	-20℃~+70℃
Gain	3 dBi	Working Humidity	20%~80%

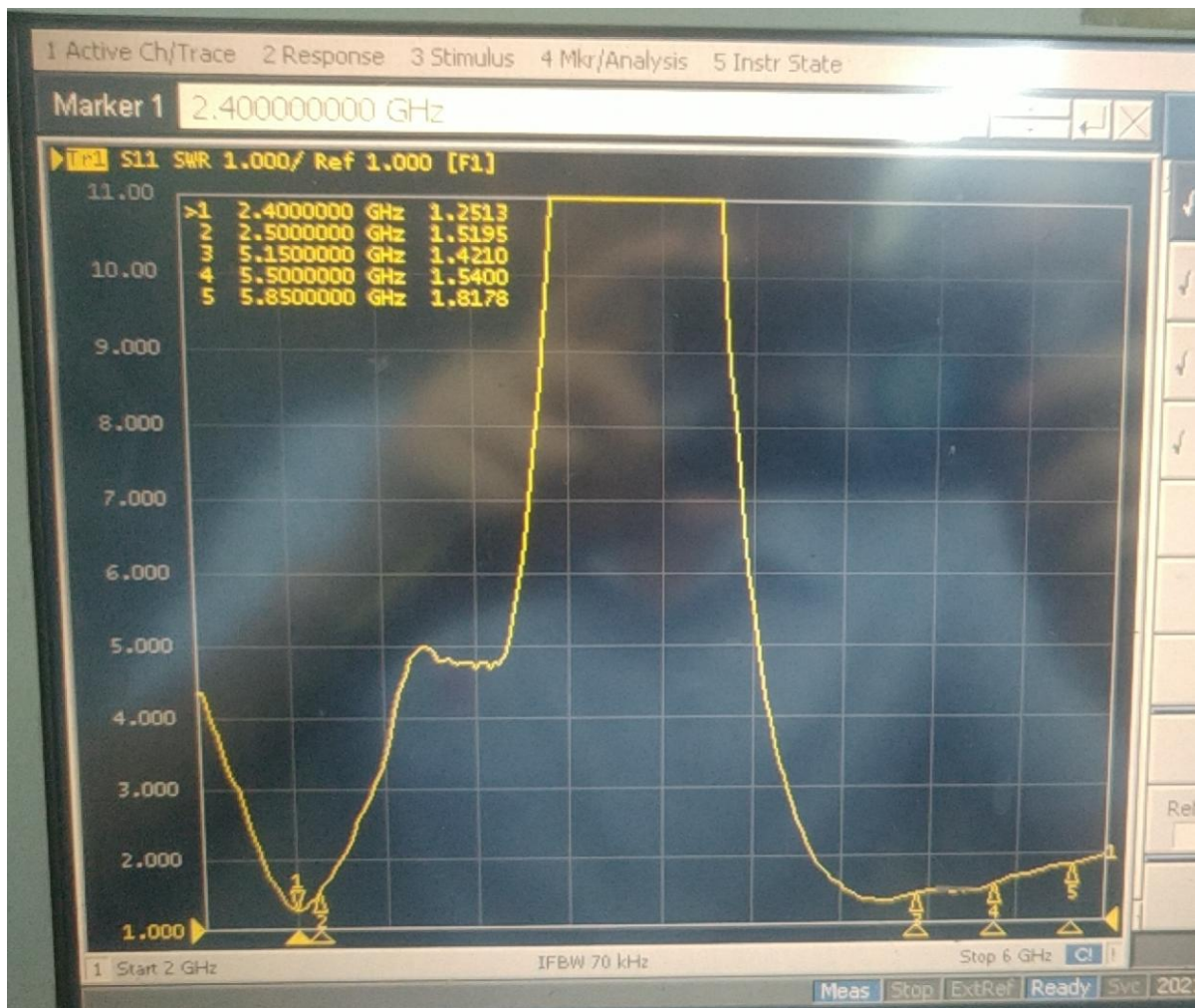
Environmental performance test:

project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 °C ~ + 70 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal

Physical antenna picture:



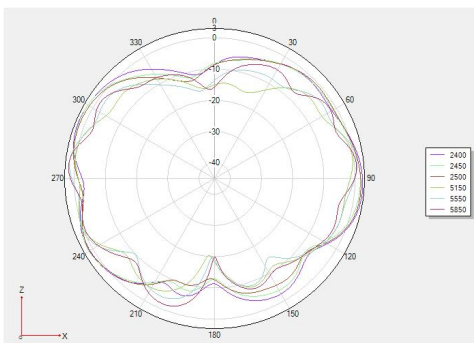
Antenna performance test diagram:



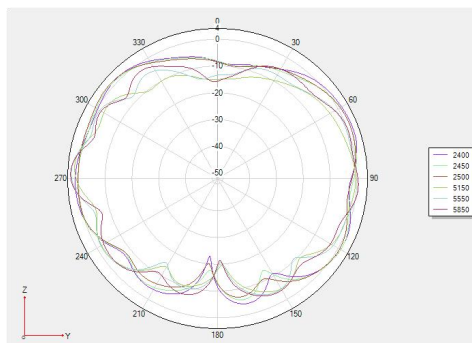
2D、3D(2.4G/5G)Antenna pattern testing:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	76.18	3.04
2410MHz	78.36	3.05
2420MHz	76.68	2.95
2430MHz	76.31	3.18
2440MHz	76.69	3.02
2450MHz	81.91	3.18
2460MHz	78.35	2.86
2470MHz	76.46	3.03
2480MHz	77.36	3.11
2490MHz	80.25	3.08
2500MHz	80.43	3.10
5150MHz	81.13	3.91
5250MHz	77.87	3.27
5350MHz	81.48	3.35
5450MHz	77.65	2.92
5550MHz	81.51	3.17
5650MHz	80.53	3.09
5750MHz	74.15	2.91
5850MHz	74.67	3.91

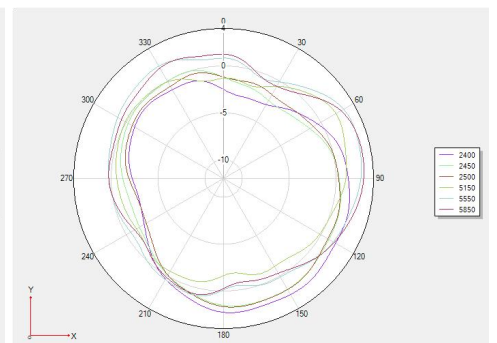
Phi 0 2D 图:



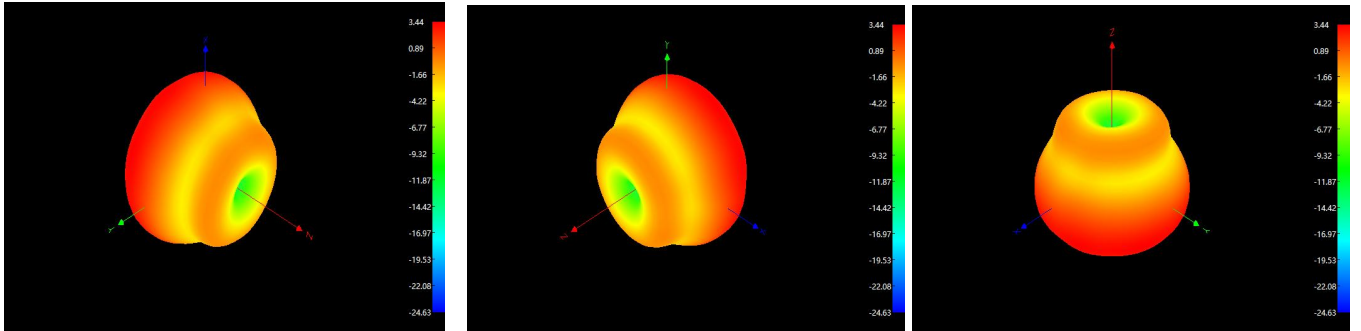
Phi 90 2D 图



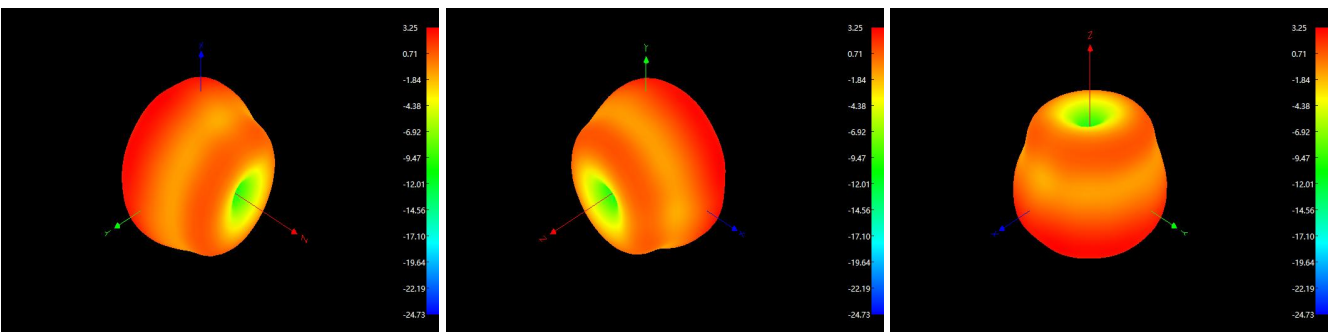
Theta 90 2D 图



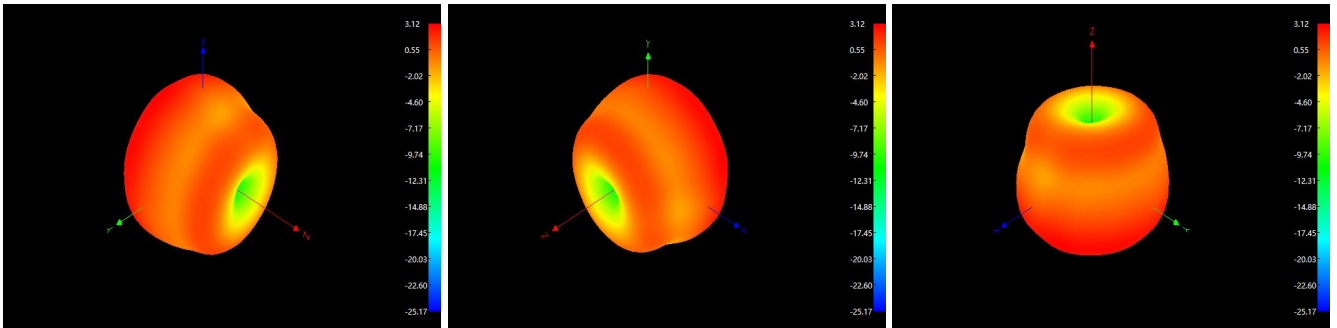
3D 2400:



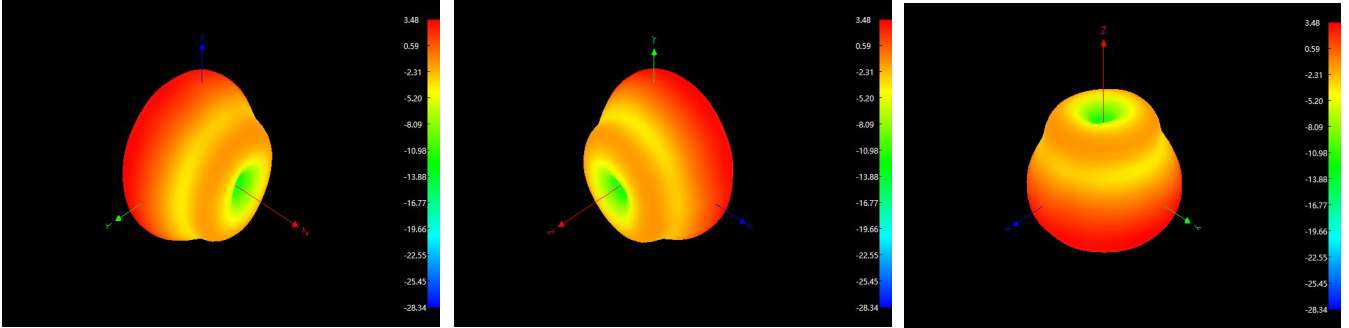
3D 2450:



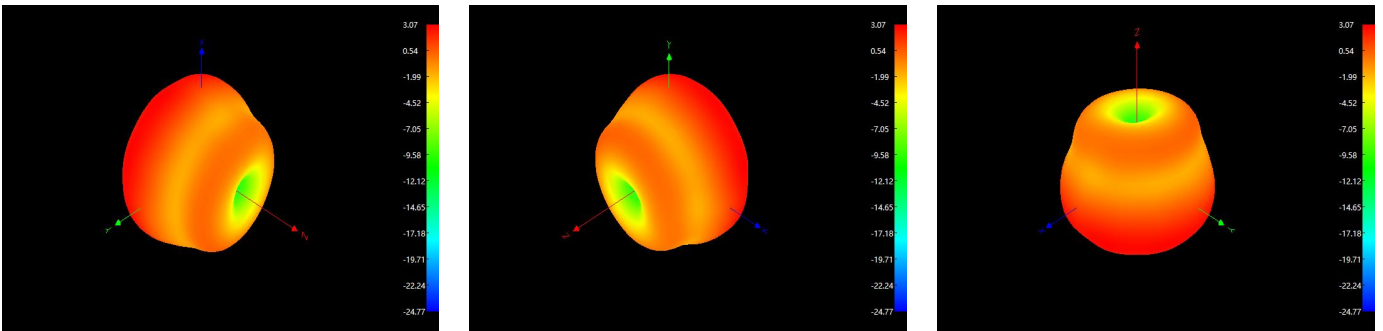
3D 2500:



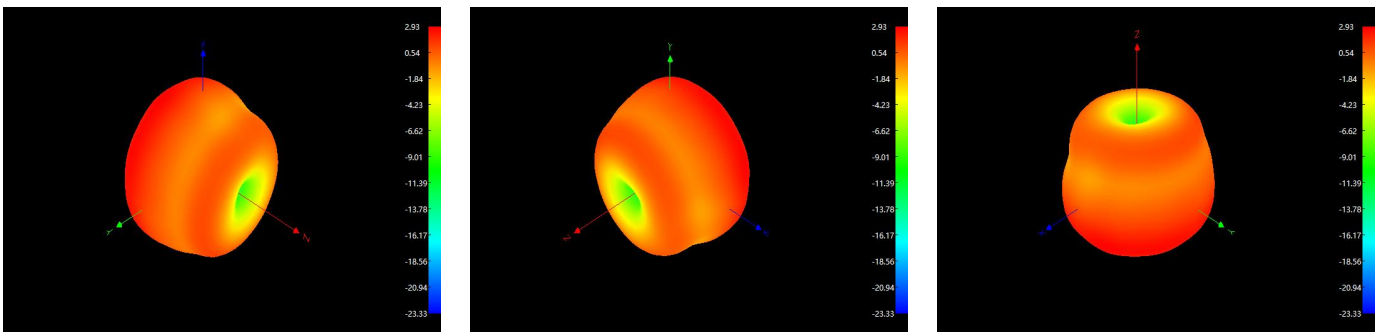
3D 5150:



3D5550:



3D5850:



**Material RoHS conformity declaration form**

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
spring	copper	CANEC2219550104	SGS	22/09/16	ND	20	ND	ND	ND	ND	PASS
Plastic parts	ABS	238539448h001	TUV	22/02/17	ND	ND	ND	ND	ND	ND	PASS
Environment-friendly tinwire	Environment-friendly tinwire	SHAEC2206174502	SGS	22/06/13	ND	181	ND	ND	ND	ND	PASS
SMA	Rubber core	SHAEC22000767001	SGS	22/08/23	ND	ND	ND	ND	ND	ND	PASS
	Zinc alloy	SZXML2200496902	SGS	22/03/09	ND	19	ND	ND	ND	ND	PASS
	Gold coating	SZXML2201289201	SGS	22/05/09	ND	13	ND	ND	ND	ND	PASS