



SPECIFICATION FOR APPROVAL

CUSTOMER	Ouzhi Tong Technology Co. , Ltd.	
CS P/N	4A136XX2G4-00	
PART NAME	External screwable antenna Male needle 2.4G&5.8G Black L=136MM ROHS	
FREQUENCY	2.4-2.5GHz&5.15~5.85GHz	
RTANT NO.	K212-10037-A	
DATE	2021.05.10	
Sample signature		
APPROVED BY	CHECKED BY	DRAWED BY
DRAGON	LIU	JOHN
Remark:		
Customer acknowledges signature		
APPROVED BY	CHECKED BY	TESTED BY
Sign: _____		

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1. Contents

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2. Revision history

Revision	Date	Change the content
A0	21. 05. 10	New Edition

3. Product picture

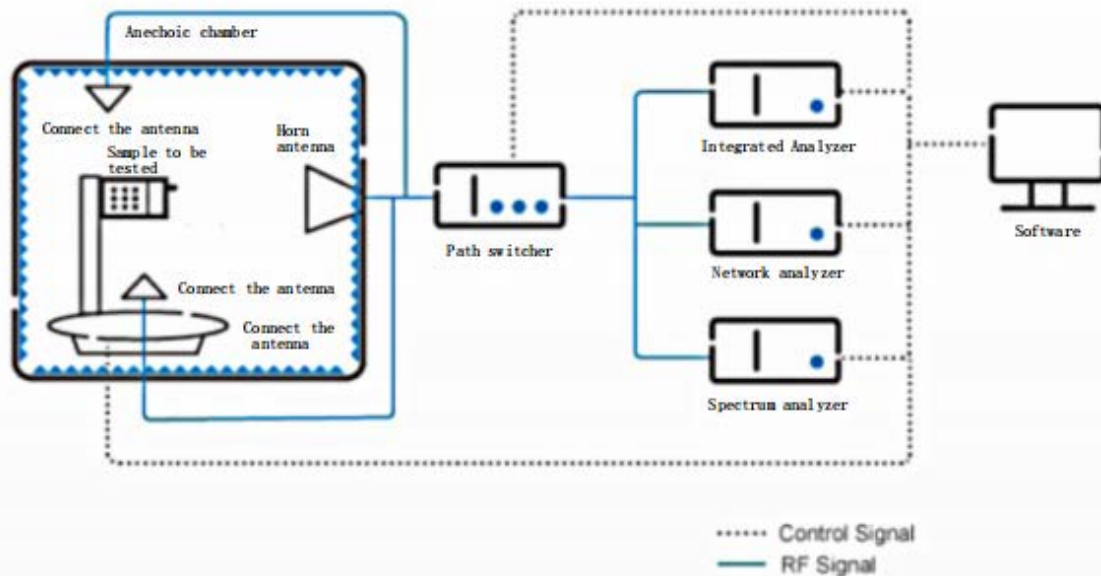


4. Specification

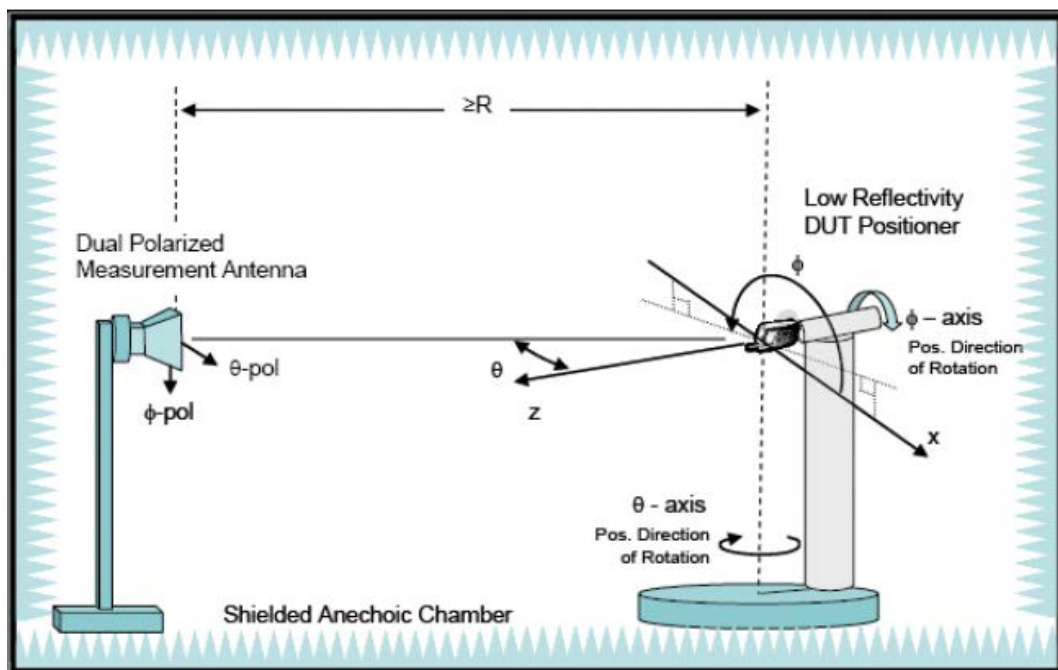
A. Electrical Properties	
Frequency Rang	2.4-2.5GHz&5.15~5.85GHz
Impedance	50 Ω Nominal
VSWR	2.0Max.
Gain(peak)	4.56dBi
Out of roundness	2.4G/5GHz: 2.98/4.56dBi (Max.)
Radiation	Omni-Directional
Polarization	Linear Vertical
B. Physical Properties	
Connector Type	SMA
Cable	RG-178
Antenna Radiator	PCB
C. Environmental	
Storage Temp	-10℃~+60℃
Operating Temp	-40℃~+65℃
Storage humidity	95%
Working humidity	5%~95%

5. Electrical Test Report

OTA System architecture diagram



5.1 Test equipment



5.2 Antenna pasting position



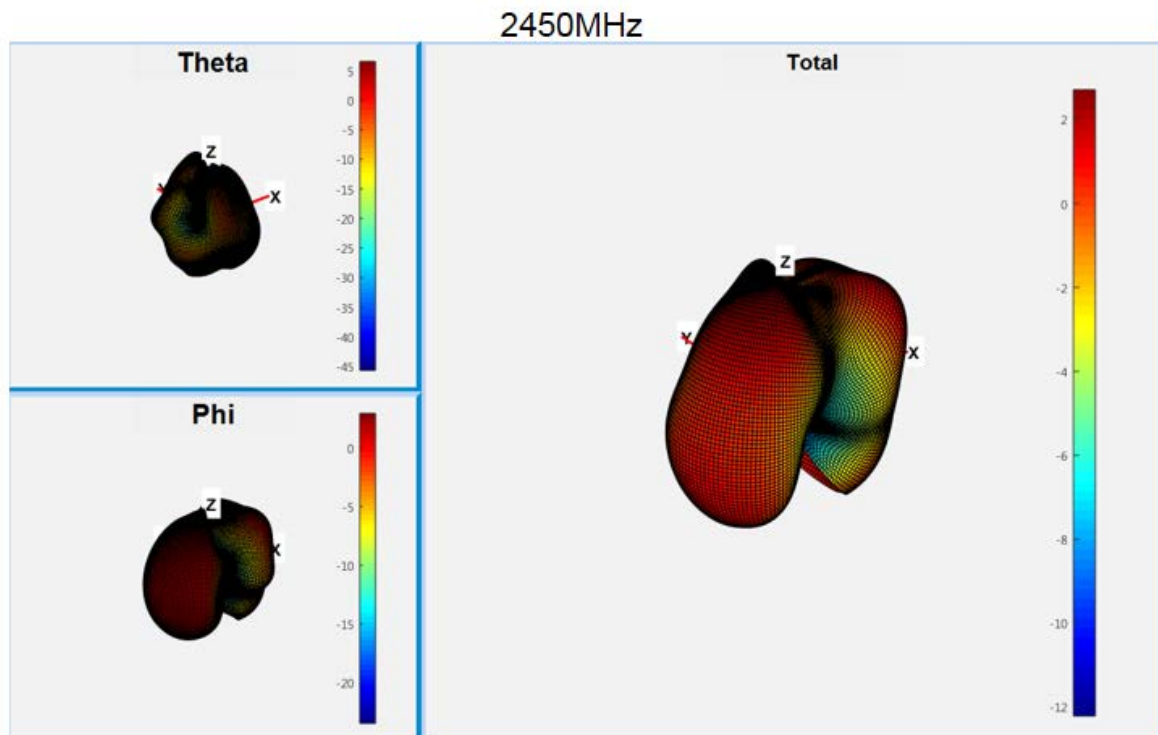
5.3 Network Analyzer



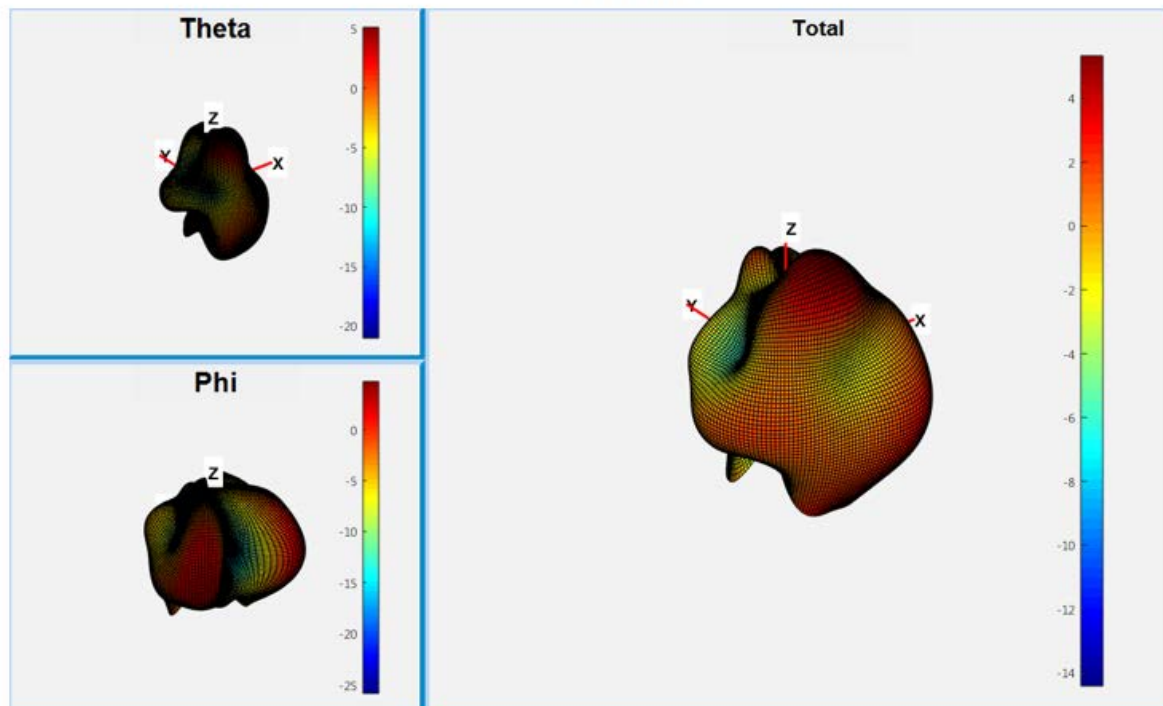
5.4 Darkroom passive test data

Frequency	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.5GHz				
Efficiency (%)	65.11	67.5	73.11	71.2	68.51	70.99	70.78	75.94	77.72	81.62	81.86				
Gain (dBi)	2.23	2.19	2.7	2.63	2.52	2.53	2.45	2.77	2.98	3.28	3.35				
Frequency	5.15GHz	5.20GHz	5.25GHz	5.30GHz	5.35GHz	5.40GHz	5.45GHz	5.50GHz	5.55GHz	5.60GHz	5.65GHz	5.70GHz	5.75GHz	5.80GHz	5.85GHz
Efficiency (%)	61.45	58.55	65.51	71.66	66.74	62.78	72.6	69.07	67.62	69.98	64.64	67.62	69.25	71.85	72.99
Gain (dBi)	3.59	3.01	3.26	3.79	3.92	3.84	4.08	4.56	4.42	3.86	3.56	3.48	3.77	3.85	4.01

5.5 2D、3DRaditation Pattern



5450MHz



9. Sample inspection report

Date: 2021. 5. 10

Total quantity		5PCS	Qualified quantity		5PCS				
Inspection item		Inspection standards and instructions	Inspection result					decision	
			No.1	No.2	No.3	No.4	No.5		
Appearance	Plastic cement	No dirt, no damage, no scratch	pass	pass	pass	pass	pass	pass	■OK □NG
	SMA	No color difference, no dirt, no damage, no scratch	pass	pass	pass	pass	pass	pass	■OK □NG
	IPEX	Contrast no dirt, no damage, no scratch							□OK □NG
	Tin solder	Plump and smooth							□OK □NG
	other								□OK □NG
Main dimensions	1	136±3mm	136	136	136	136	136	136	■OK □NG
Electrical and functional testing	Frequency Rang	2.4~2.5GHz 5.15~5.85GHz							
	VSWR	<2.0	pass	pass	pass	pass	pass	pass	■OK □NG
Mechanical properties	Cable and IPEX pull	> 1.5kg							□OK □NG
Notes									
Final Judgment		<input checked="" type="checkbox"/> Qualified <input type="checkbox"/> Disqualified <input type="checkbox"/> Conditions							