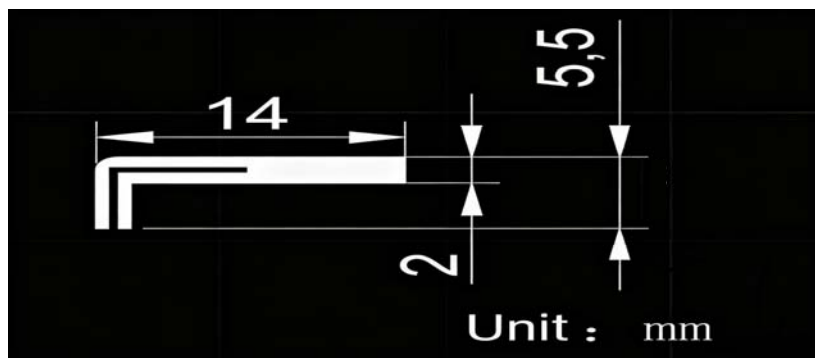


Test Reports

Sample Photo



A.Electric Characteristics

Frequency	2400MHz~2500MHz
SWR	≤ 2
Return Loss	> 10 dB
Antenna Gain	1.5 dBi
Polarization	Linear
Impedance	50 Ohm

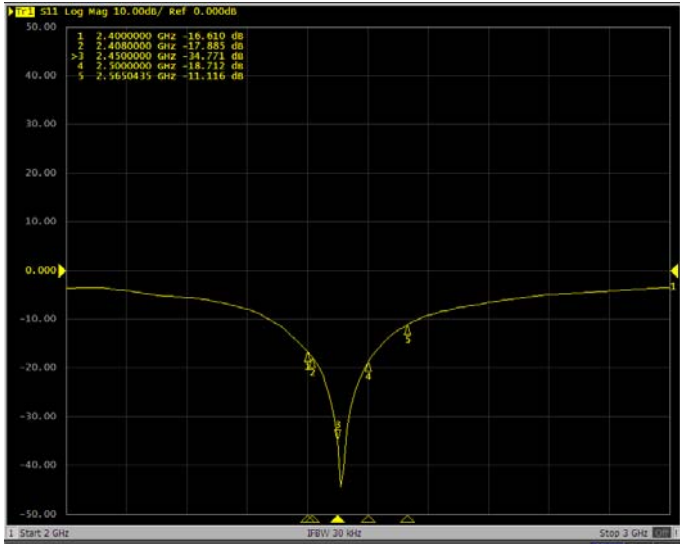
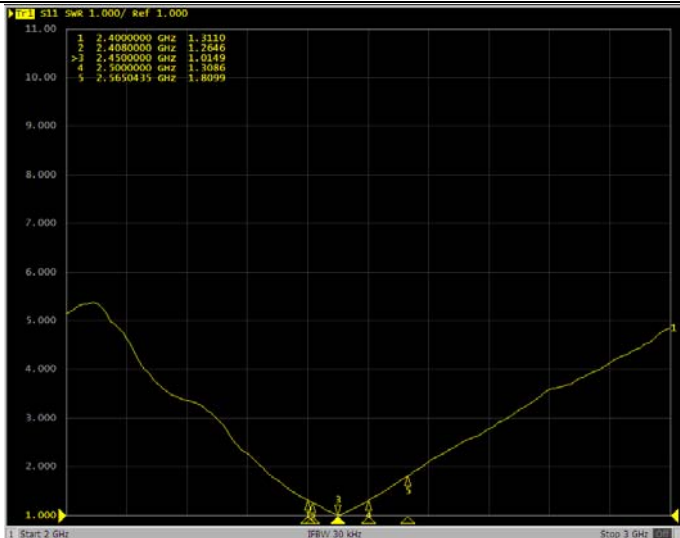
B.Material & Mechanic Characteristics

Material of Radiator	Cu
Material of Plastics	Epoxy Resin

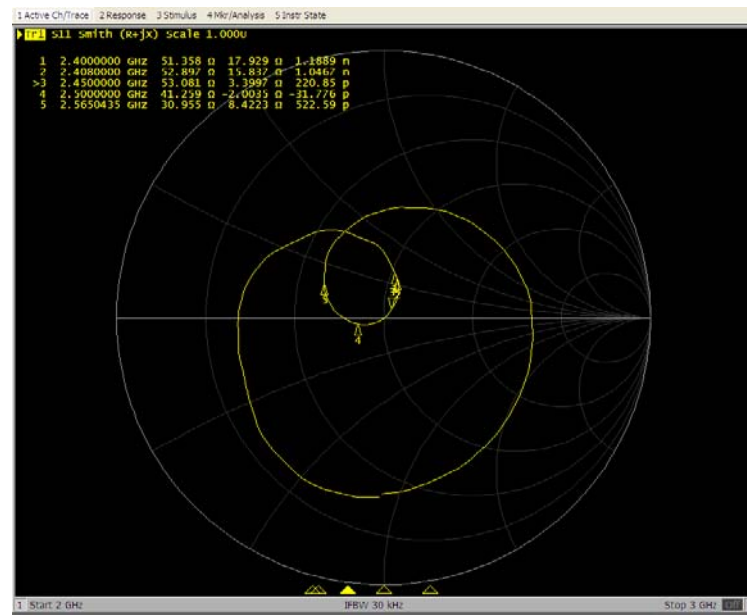
C.Enviromental

Operation Temperature	-10℃~+50℃
Storage Tempeture	-30℃~+85℃
Model Name	LS0213-A
Manufacturer	Qingdao Wintec IoT Co., Ltd.
Manufacturer's Address	Room 201, Workshop 1, No. 28 Xinye Road, High-tech Zone, Qingdao, Shandong Province, China

S Parameter Test Reports

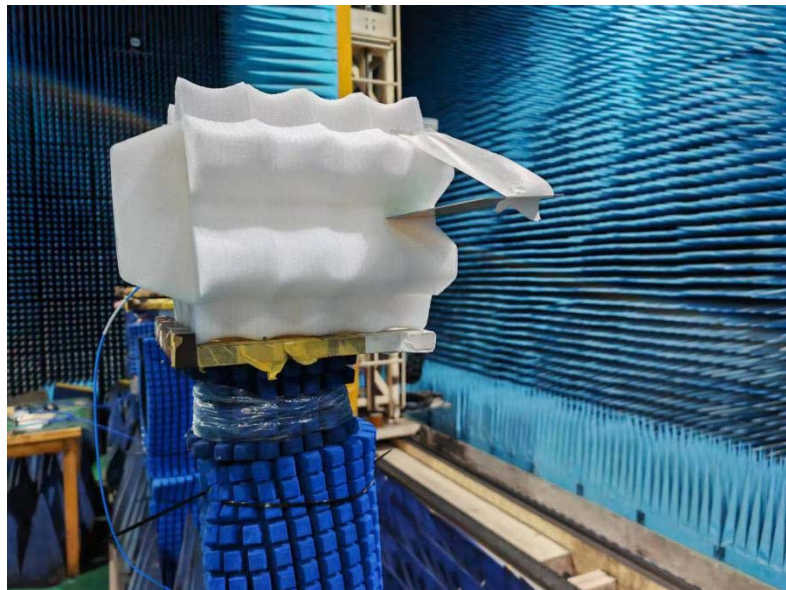
Instrument	Agilent E5061B																		
S_{11}	 The plot displays the magnitude of the reflection coefficient S_{11} in dB versus frequency in GHz. The y-axis ranges from -50.00 to 50.00 dB, and the x-axis ranges from 2.400000 to 2.500000 GHz. A sharp resonance dip is visible at approximately 2.45 GHz, reaching a minimum of about -45 dB. The plot includes a data table in the top left corner: <table><tr><th>Point</th><th>Freq (GHz)</th><th>Mag (dB)</th></tr><tr><td>1</td><td>2.400000</td><td>-16.610</td></tr><tr><td>2</td><td>2.408000</td><td>-17.895</td></tr><tr><td>3</td><td>2.450000</td><td>-18.771</td></tr><tr><td>4</td><td>2.500000</td><td>-18.712</td></tr><tr><td>5</td><td>2.5650435</td><td>-11.116</td></tr></table>	Point	Freq (GHz)	Mag (dB)	1	2.400000	-16.610	2	2.408000	-17.895	3	2.450000	-18.771	4	2.500000	-18.712	5	2.5650435	-11.116
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3	2.450000	-18.771																	
4	2.500000	-18.712																	
5	2.5650435	-11.116																	
SWR	 The plot displays the Standing Wave Ratio (SWR) versus frequency in GHz. The y-axis ranges from 1.000 to 11.000, and the x-axis ranges from 2.400000 to 2.500000 GHz. A sharp resonance dip is visible at approximately 2.45 GHz, reaching a minimum of about 1.0. The plot includes a data table in the top left corner: <table><tr><th>Point</th><th>Freq (GHz)</th><th>SWR</th></tr><tr><td>1</td><td>2.400000</td><td>1.3110</td></tr><tr><td>2</td><td>2.408000</td><td>1.2646</td></tr><tr><td>3</td><td>2.450000</td><td>1.0119</td></tr><tr><td>4</td><td>2.500000</td><td>1.3086</td></tr><tr><td>5</td><td>2.5650435</td><td>1.8099</td></tr></table>	Point	Freq (GHz)	SWR	1	2.400000	1.3110	2	2.408000	1.2646	3	2.450000	1.0119	4	2.500000	1.3086	5	2.5650435	1.8099
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Z_{in}



Radiation Pattern&Gain Test Reports

Test Environments



**Antenna Radiation
Pattern(dBi)**

