

Antenna
Test Report

CBU Antenna test report

Version 1.0.0

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NO: 0000000001

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Inside

Product Name:	CBU
Antenna Type:	PCB antenna
Writer:	Yinhua Zhang
Maximum	Gain: 2.21dBi
	Efficiency:32.96%

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1. General Description

EUT Name	CBU Antenna
Wireless type	WIFI
Antenna Type	PCB antenna
Dimensions	Appendix A

2. Technical Information

Frequency Range	2402MHz~2480MHz
Test Frequency	2400,2410.....2500MHz

3. Test Standards

Identity	Document Title
IEEE 149-1979	IEEE Standard Test Procedures for Antennas

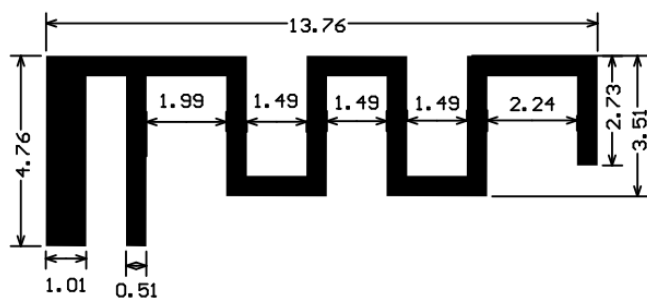
4. Test Item

Report Section	Description
Appendix B	S11/VSWR
Appendix C	Gain and Efficiency
Appendix D	Radiation Pattern (1D and 3D)

5. Test Photo

Report Section	Description
Appendix E	Test Setup Photo

Unit



The top plot displays the Log Mag of S11. The y-axis ranges from -25.00 to 25.00 dB. The x-axis represents frequency from 2.4 GHz to 2.6 GHz. A yellow curve shows a resonance dip at 2.5 GHz. The legend indicates the following data points:

Point	Frequency (GHz)	Value (dB)
1	2.4000000	-8.7329
2	2.4100000	-11.769
3	2.5000000	-11.212

The bottom plot displays the SWR. The y-axis ranges from 1.000 to 11.00. The x-axis represents frequency from 2.4 GHz to 2.6 GHz. A blue curve shows a resonance peak at 2.5 GHz. The legend indicates the following data points:

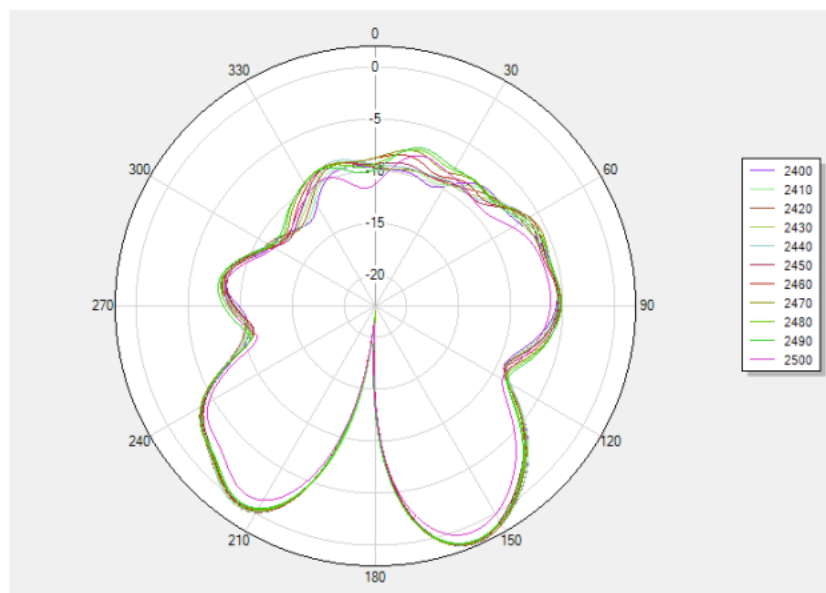
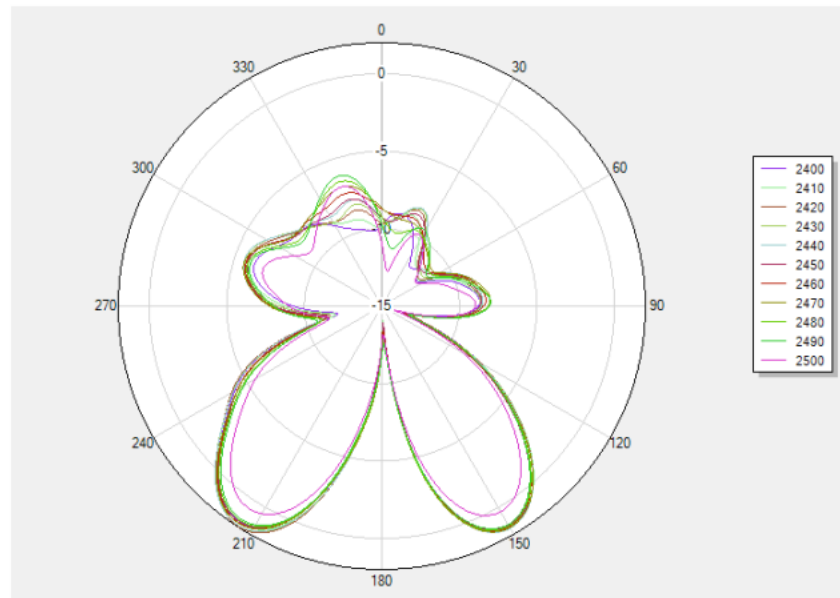
Point	Frequency (GHz)	Value
1	2.4000000	2.1668
2	2.4100000	3.7111
3	2.5000000	1.7748

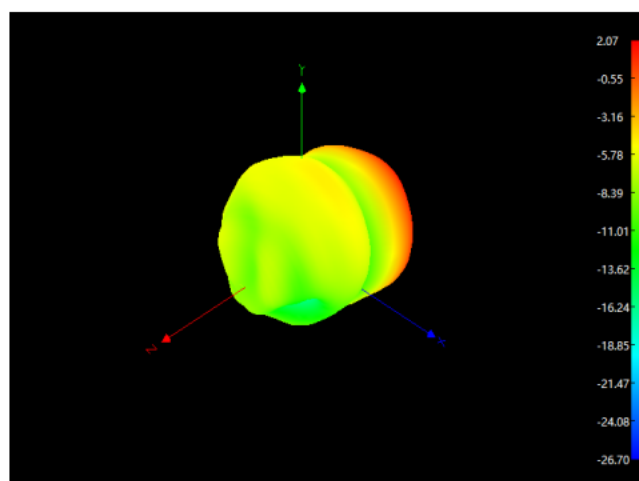
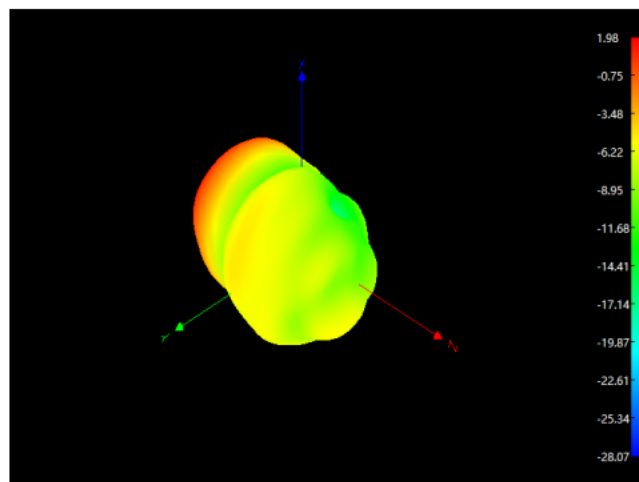
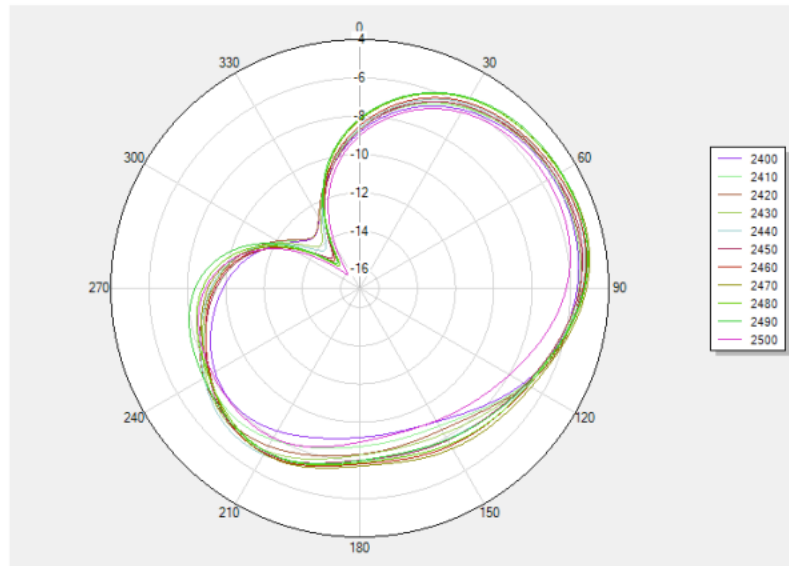
Frequency (MHz)	2400	2450	2500
Return Loss	-8.73	-11.76	-11.21
VSWR	2.16	1.71	1.77

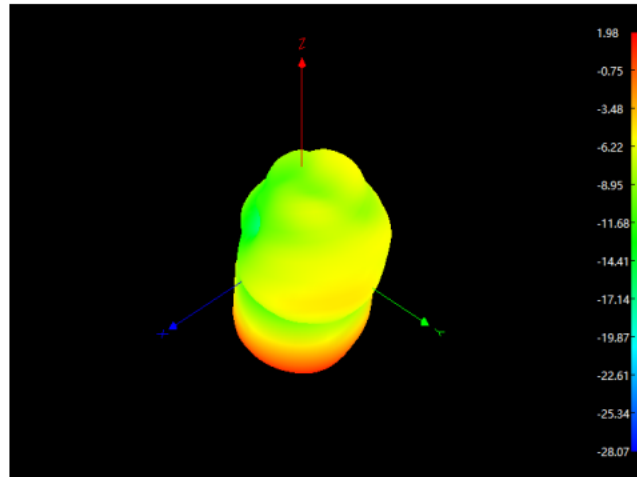
Appendix C Gain and Efficiency

Frequency (MHz)	Efficiency(%)	Gain (dBi)
2400	32.36%	2.11
2410	32.3%	2.18
2420	32.1%	2.21
2430	32.4%	2.06
2440	32.9%	2.07
2450	30.9%	1.91
2460	30.8%	2.04
2470	30.7%	2.09
2480	31.6%	1.98
2490	30.6%	1.91
2500	30.5%	1.03

Appendix D Radiation Pattern(1D and 3D)







Appendix E Test Setup Photo

