



深圳市凯普深通讯科技有限公司

Shenzhen cape deep communication technology co.,LTD

Antenna Test Report

Client: Atus

Project name: PR-307-L3

rf: Jiang Changxing

Date: 2025.4.11

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Laboratory testing environment and equipment



Test items	Test equipment
S11、S12、VSWR、LOSS	Network analyzers E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16darkroom、GP7*4*3darkroom、E5071B
TRP、TIS	Satimo SG16darkroom、GP7*4*3darkroom、8960、 CMW500、MT8820C、E4438C、

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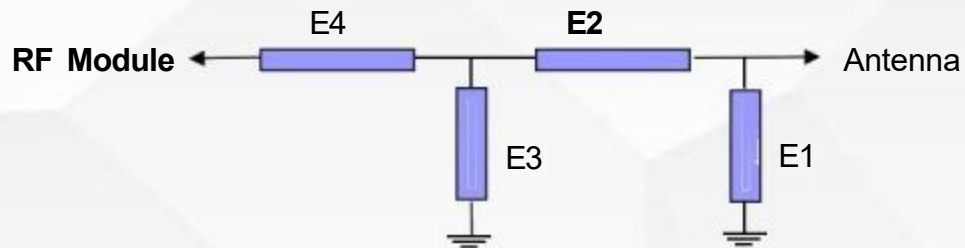


Introduction to project debugging

The type of the whole machine			
		Band information	Antenna form
Antenna type and frequency band information	Main antenna	2400-2500MHz	PIFA
Antenna material	FPC		



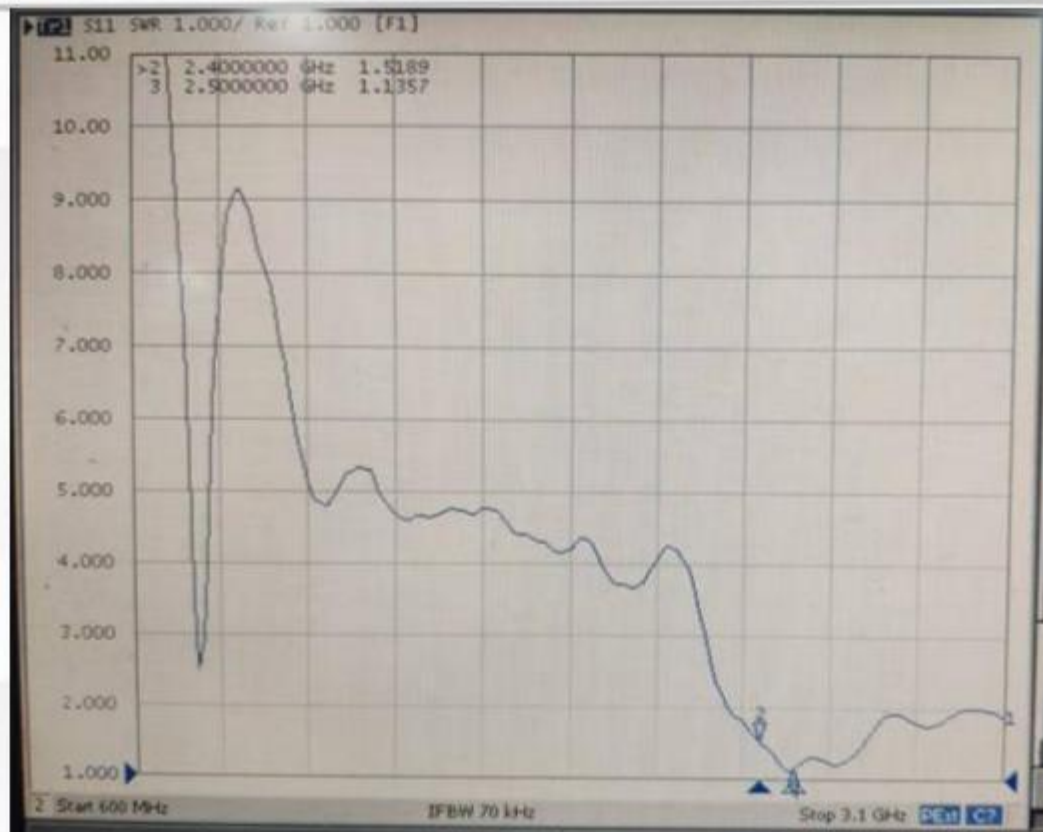
Antenna distribution circuit



Element	Value
E1 (0201)	
E2 (0201)	The motherboard is originally matched
E3 (0201)	
E4 (0201)	



Antenna passive standing wave





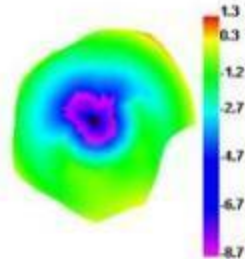
Antenna passive test data

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	66.21	-1.79	1.28
2410	62.08	-2.07	1.21
2420	61.06	-2.14	1.31
2430	60.12	-2.21	1.31
2440	60.39	-2.19	1.34
2450	62.05	-2.07	1.44
2460	62.64	-2.03	1.33
2470	63.18	-1.99	1.2
2480	65.12	-1.86	1.29
2490	71.44	-1.46	1.68
2500	70.1	-1.54	1.68

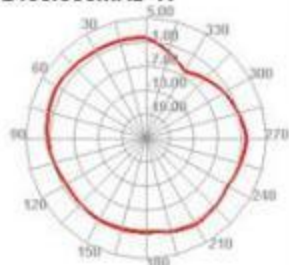


Antenna passive pattern

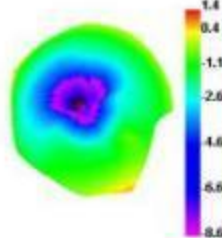
2400.000MHz



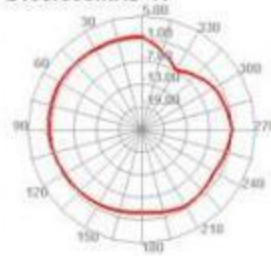
2400.000MHz H



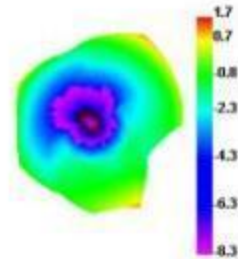
2450.000MHz



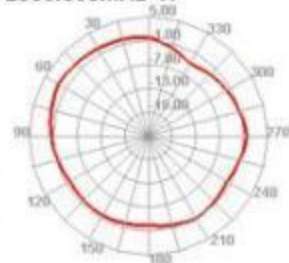
2450.000MHz H



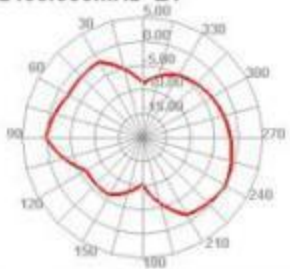
2500.000MHz



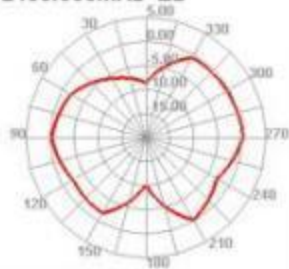
2500.000MHz H



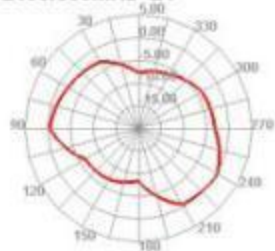
2400.000MHz E1



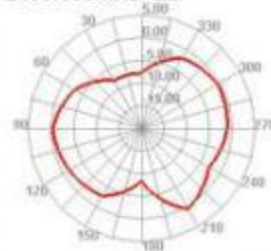
2400.000MHz E2



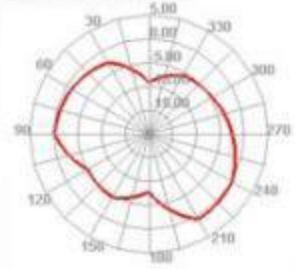
2450.000MHz E1



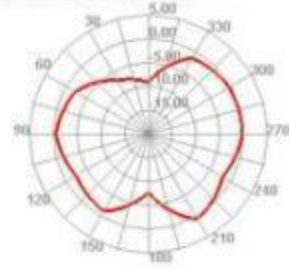
2450.000MHz E2



2500.000MHz E1



2500.000MHz E2





THE END

Thank you for your valuable comments!

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