



Shenzhen cape deep communication technology co., LTD

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# Antenna test report

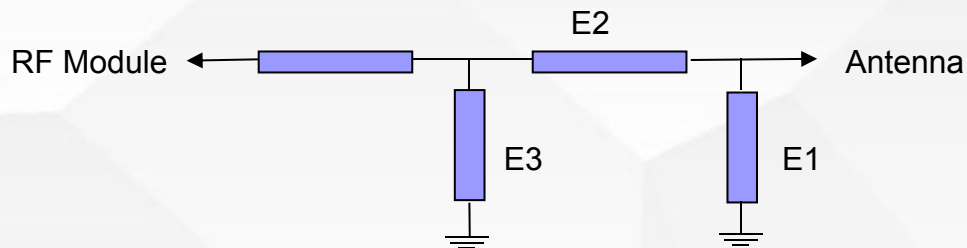
Customer : ZhiZe  
item name : CM749  
RF : Devin  
Date : 2023.09.15  
Version : v0.2

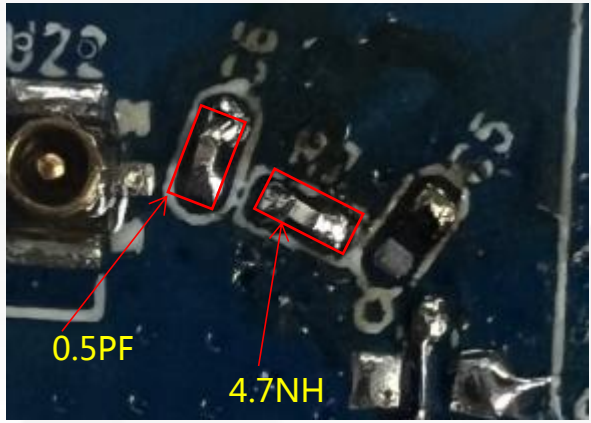


# Introduction to Project Debugging

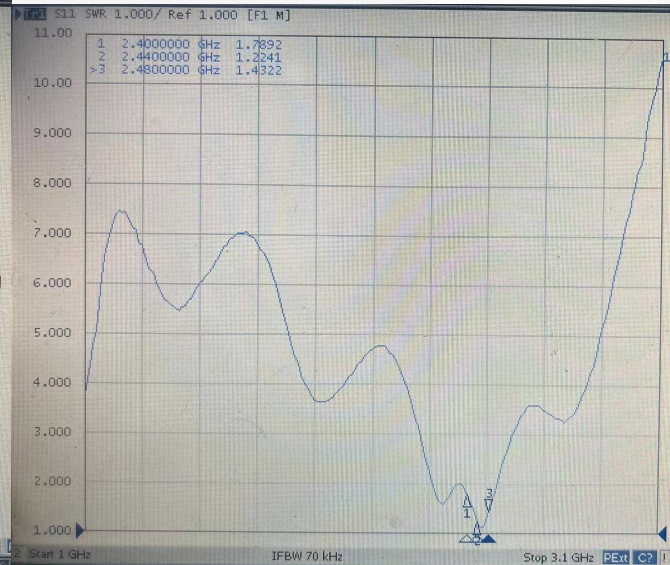
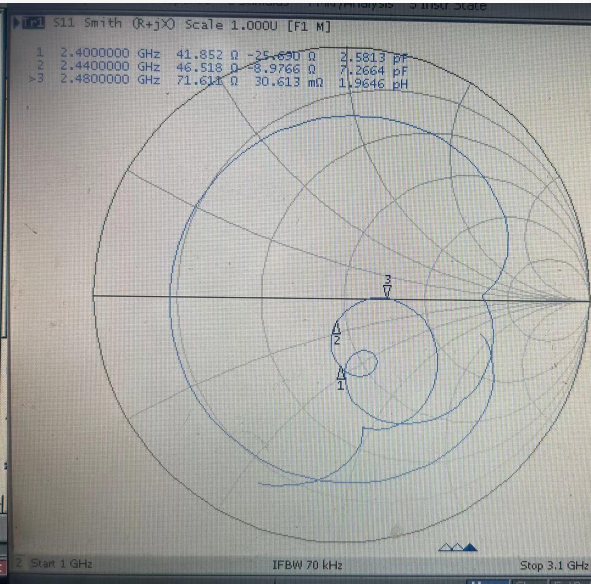
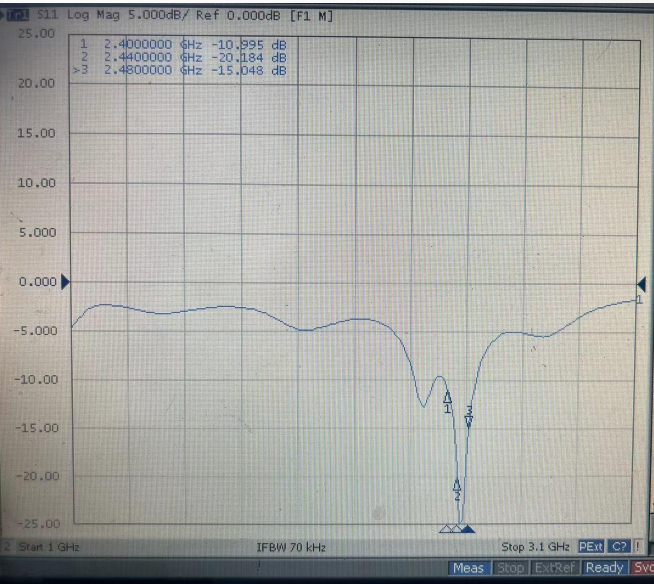
Type of complete machine	External antenna		
		Frequency band information	antenna form
Antenna type and frequency band information	External antenna	BT	External antenna
Antenna material	PCB and leadwire		

# Main antenna matching circuit with PA



	Element	Value	Illustrated Figures
main ANT	E1(0402)	0.5PF	
	E2(0402)	4.7NH	
	E3(0402)	NC	

# Passive waveform





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# Antenna darkroom efficiency

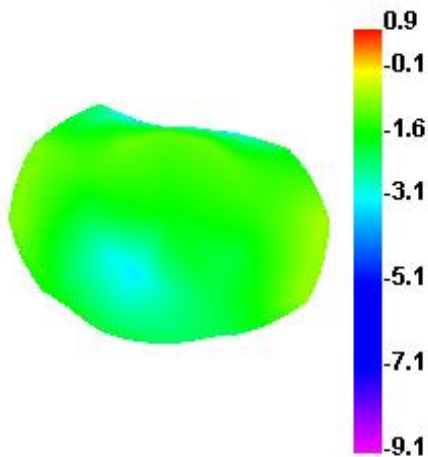
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.73	-2.7	0.99
2410	49.62	-3.04	0.63
2420	53.17	-2.74	1.19
2430	51.25	-2.9	1.26
2440	50.46	-2.97	1.43
2450	49.65	-3.04	1.42
2460	50.37	-2.98	1.51
2470	48.26	-3.16	1.19
2480	51.53	-2.88	1.54
2490	57.32	-2.42	2.08
2500	61.77	-2.09	2.62



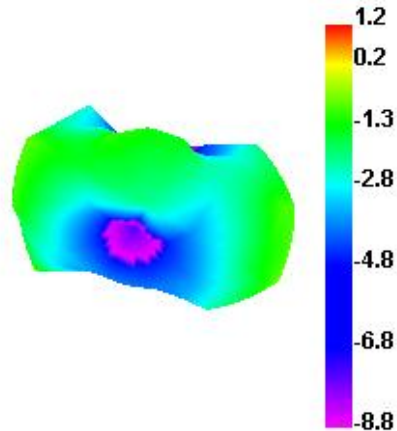
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# Antenna Test Data Apple Chart

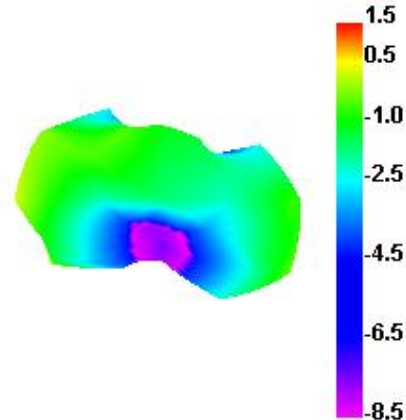
2400.000MHz



2440.000MHz



2480.000MHz



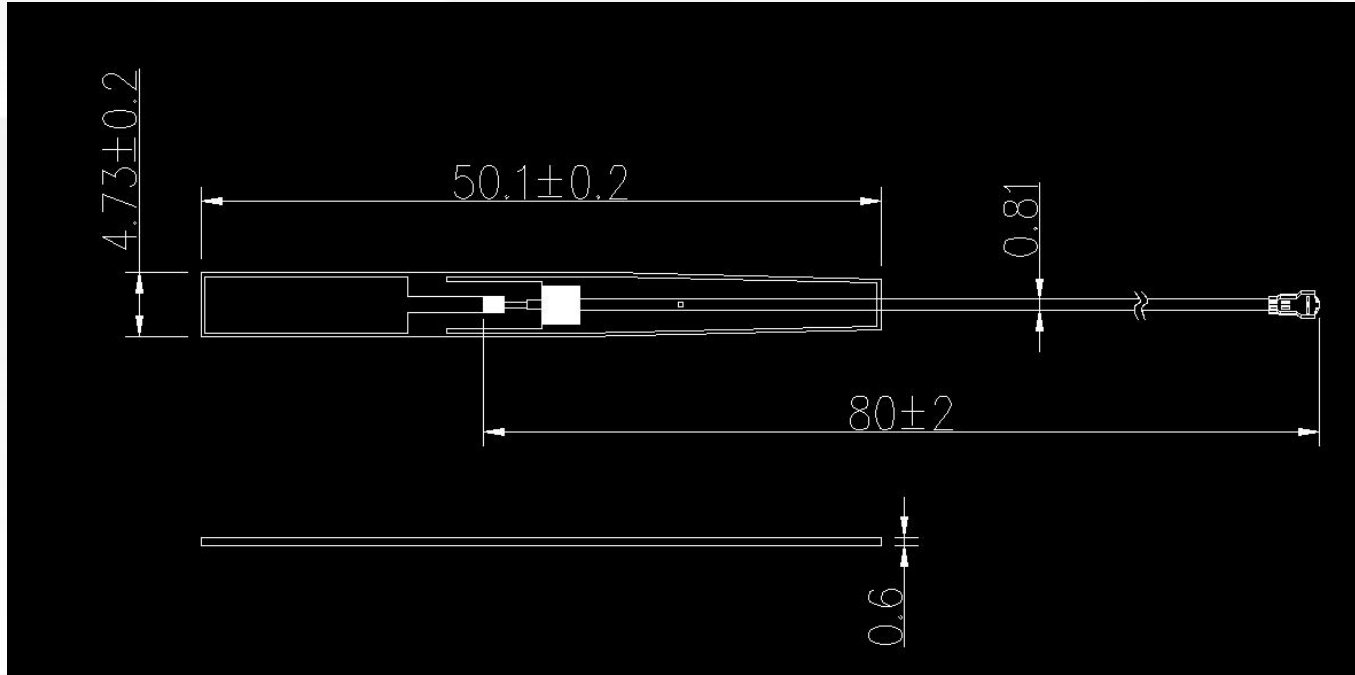


# Antenna related information data sheet

## Electrical performance test results

ANT						
NUM	Inspection items	unit	Performance index requirements	Inspection results		determine
1	Frequency range	MHz	2400-2500	2400-2500		OK
2	Gain	dBi	/	2400	0.99	
				2440	1.43	
				2480	1.54	
4	Return loss	dB	$\leq -6$	2402	-11	
				2441	-20.18	
				2483	-15.05	
4	Standing wave ratio	dB	/	2402	1.79	
				2441	1.22	
				2483	1.43	

# Antenna dimensions



unit:mm

Manufacturer: **Shenzhen cape deep communication technology co., LTD**





# Contact information

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**THE END**

**Thank you for your  
valuable feedback!**