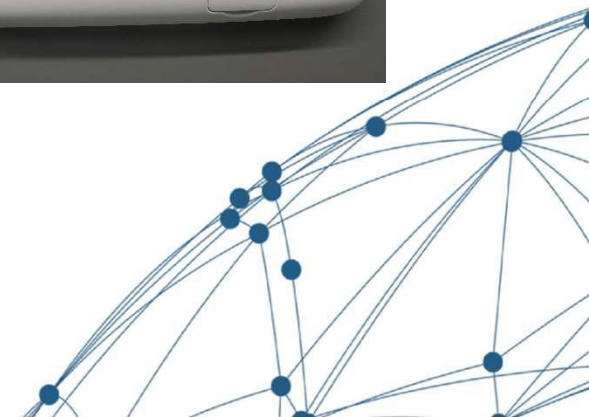
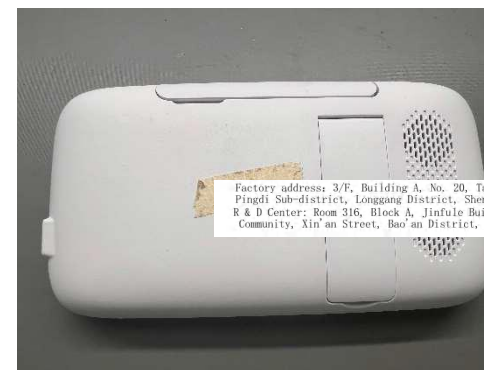


SM530-RX

版本:V1.1 2025/06/21



Project Brief Introduction

model	SM530-RX				
versions	V1.2				
Frequency band and antenna material	antennae	communication	texture	Antenna type	Match modifications
		WIFI	Copper tube + coaxial cable	Copper tube antenna	Y-be changed
Main antenna design frequency band	2412-2472 MHZ				
performance requirement	Customer standards				



OTA Passive test data

Gain&Efficiency=		
Frequency(MHz)	Efficiency (%)	Gain(dBi)
2400	53.14	-0.8
2410	53.98	-1.06
2420	54.25	-1.21
2430	55.78	-0.82
2440	59.26	-0.44
2450	63.69	0.07
2460	62.33	0.22
2470	65.17	0.58
2480	68.85	0.93

S11testing environm

•S11 Connection test diagram

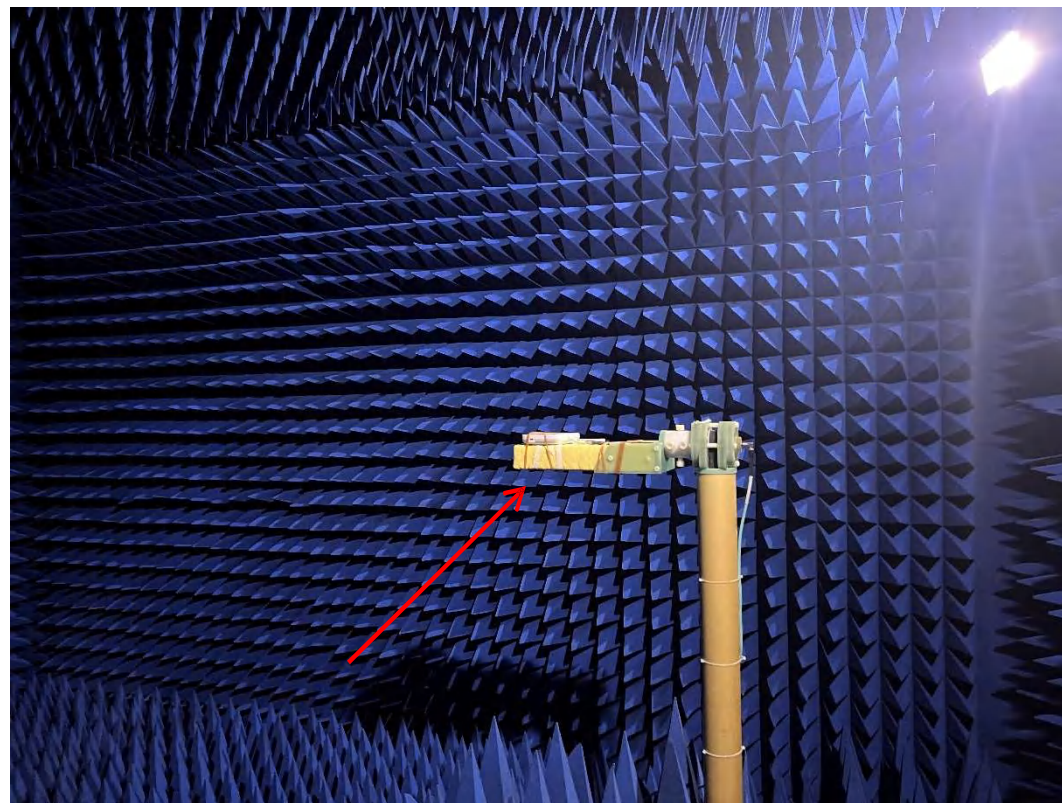
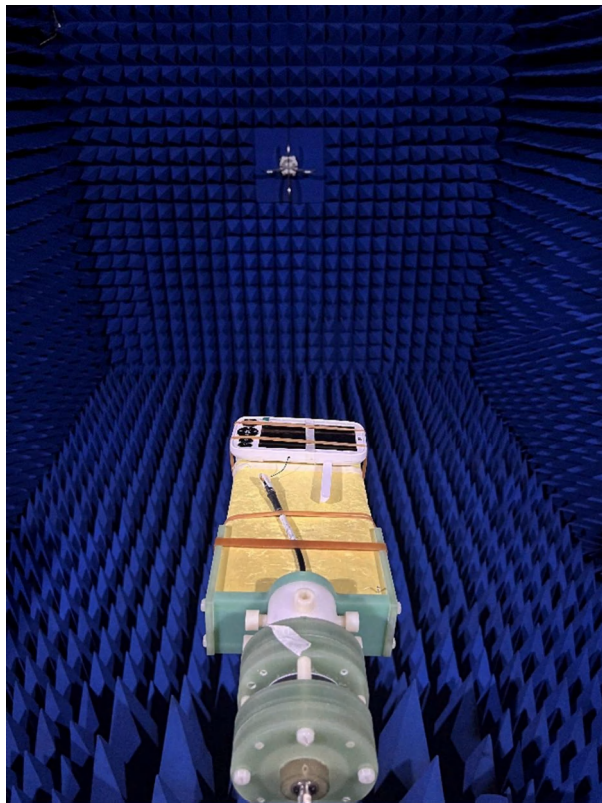


•Network analyzer data

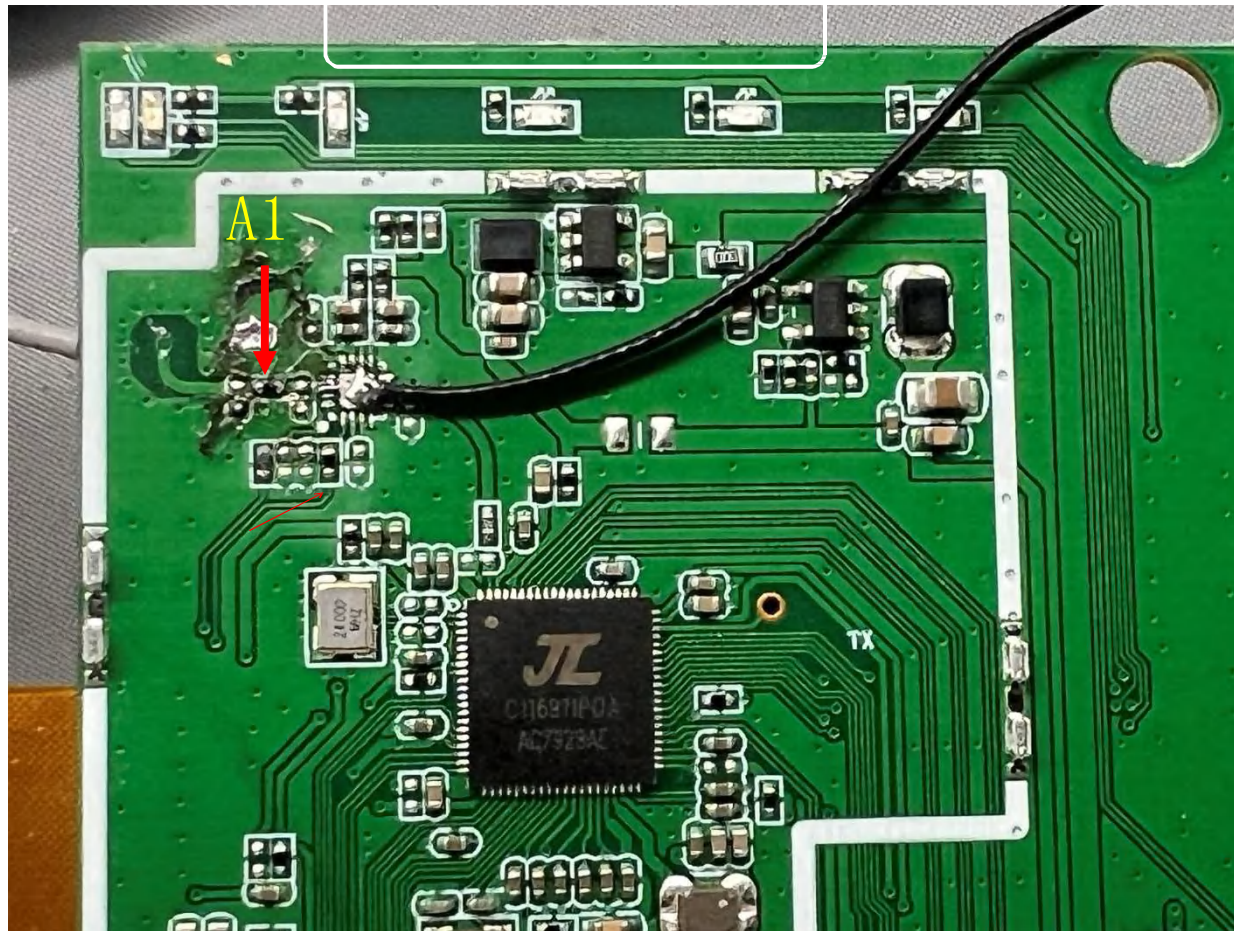


(requency band	2412 MHZ	2472 MHZ
Return loss (dB)	-12. 19	-15. 72
SWR (dBm)	1. 65	1. 39

OTA testing environment



Mainboard illustration:



bit number	After modifying the matching value
A1	OR



Antenna installation & overall
machine environment handling

