

GRIP Antenna Test Report V4

2025/1/6

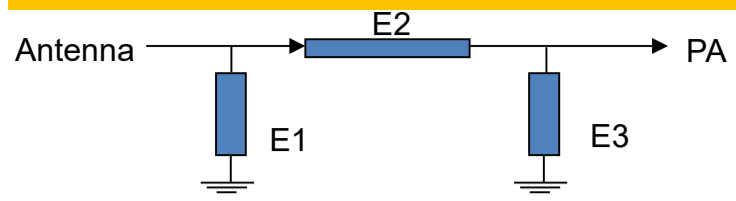
The main purpose of this report: Update the debugging verification of the PCBA antenna

The main conclusions of this report: The antenna efficiency is above 50, which can meet the normal usage requirements

Antenna	Frequency band	Material	Performance requirements
BT	2400-2480MHz	FR4 on-board antenna	As per the customer's requirements

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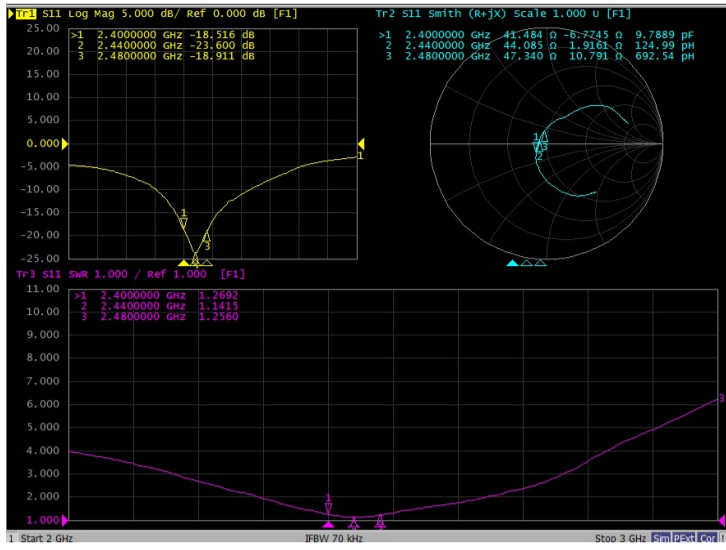
Antenna end matching circuit



BT	
E1(0402)	NC
E2(0402)	1.5PF
E3(0402)	NC

Passive S11 parameter test of antenna

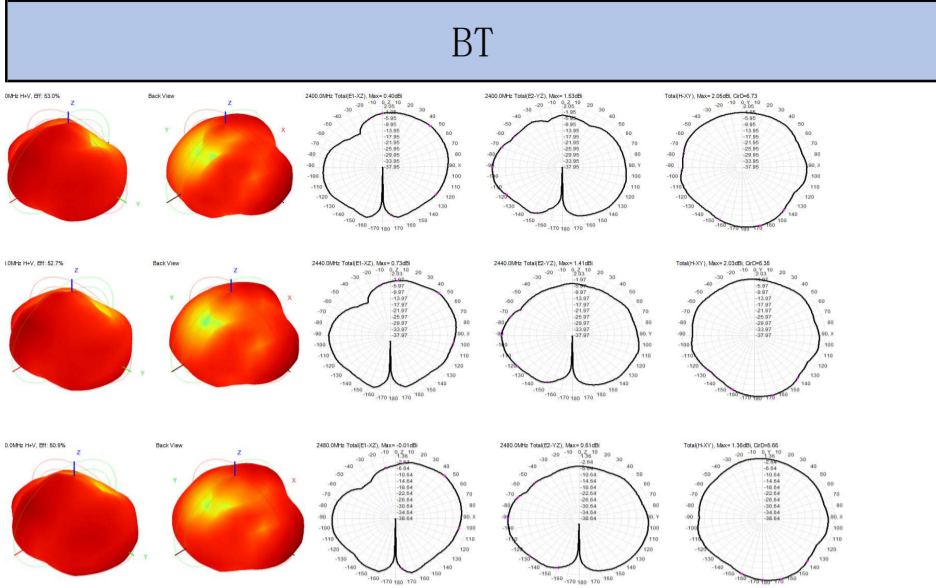
BT



Freq (MHz)	2400	2440	2480
SWR	1.26	1.14	1.25
Log Mag	-18.51	-23.60	-18.91

BT		
Frequency (MHz)	Gain (dBi)	Efficiency
2400	2.05	53.10%
2410	2.16	54.20%
2420	2.04	53.40%
2430	2.07	53.20%
2440	2.03	52.80%
2450	1.96	52.60%
2460	1.69	52.10%
2470	1.48	51.20%
2480	1.36	51.00%
2490	1.32	50.90%
2500	1.29	50.20%

Passive radiation pattern of the antenna



Antenna OTA test:

BT OTA		
Channels	TRP	TIS
0	6.98	-92.94
39	7.18	-92.79
78	7.09	-92.45

Test the antenna position and matching pictures:

