

GRIP Antenna Test Report V4

2025/1/6

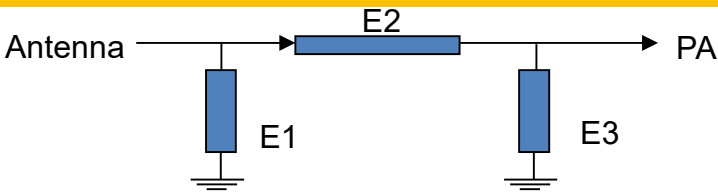
The main purpose of this report: Update the debugging verification of the PCBA antenna

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

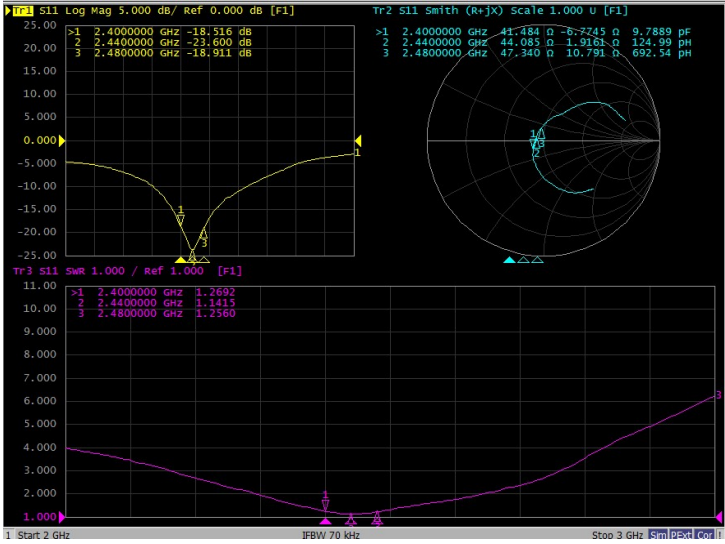
All information contained in this report is copyrighted by Wolite. Please do not disseminate it to any third party!

Antenna end matching circuit



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

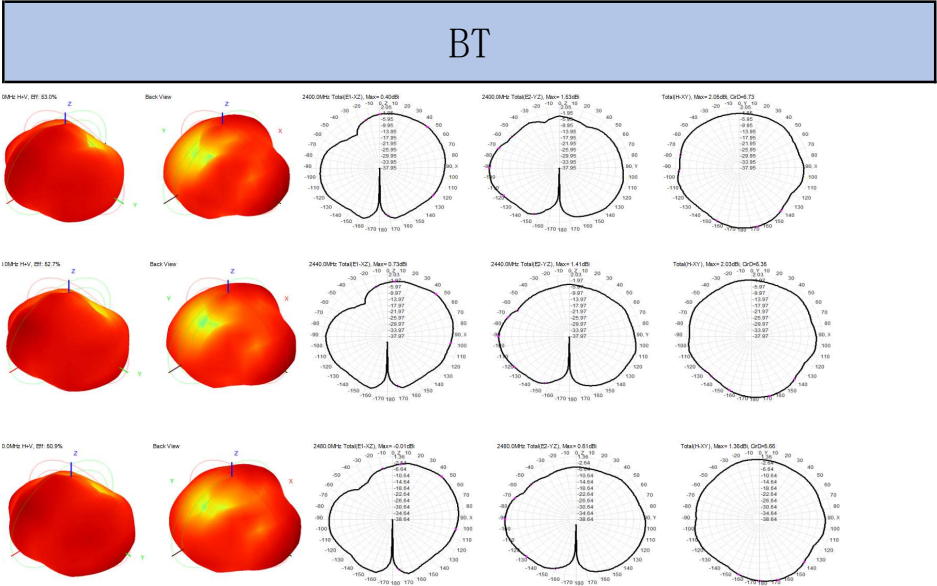
BT



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:

