

G04 DUO Antenna Test Report

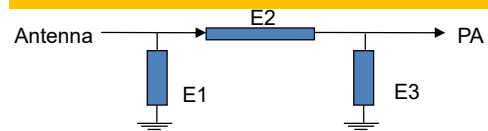
2025/5/9

The main purpose of this report: 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

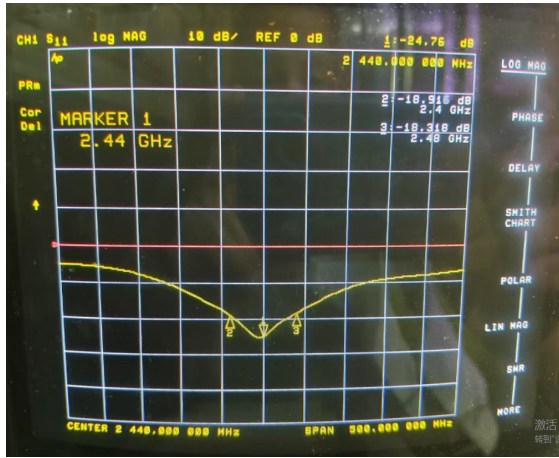
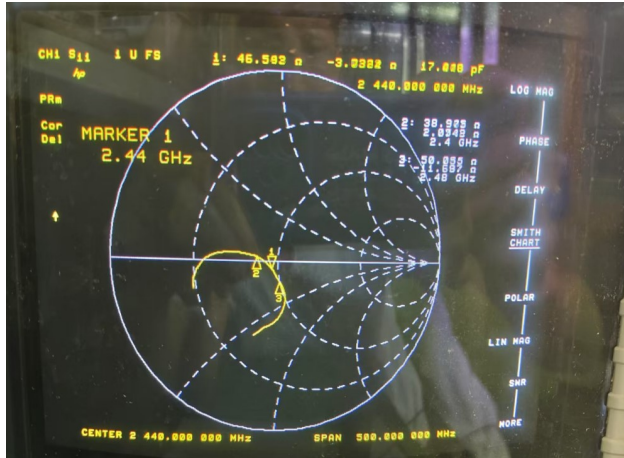
Antenna	Frequency band	Antenna type	The company name and address of the cable manufacturer	Model
BT	2400-2480MHz	PCB Antenna	Shenzhen Dehuida Intelligent Technology Co., Ltd No.121, Qiankeng Road, Qiankeng Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, P.R. China	G04DUOL

Antenna end matching circuit



BT	
E1(0402)	NC
E2(0402)	10PF
E3(0402)	NC

Passive S11 parameter test of antenna



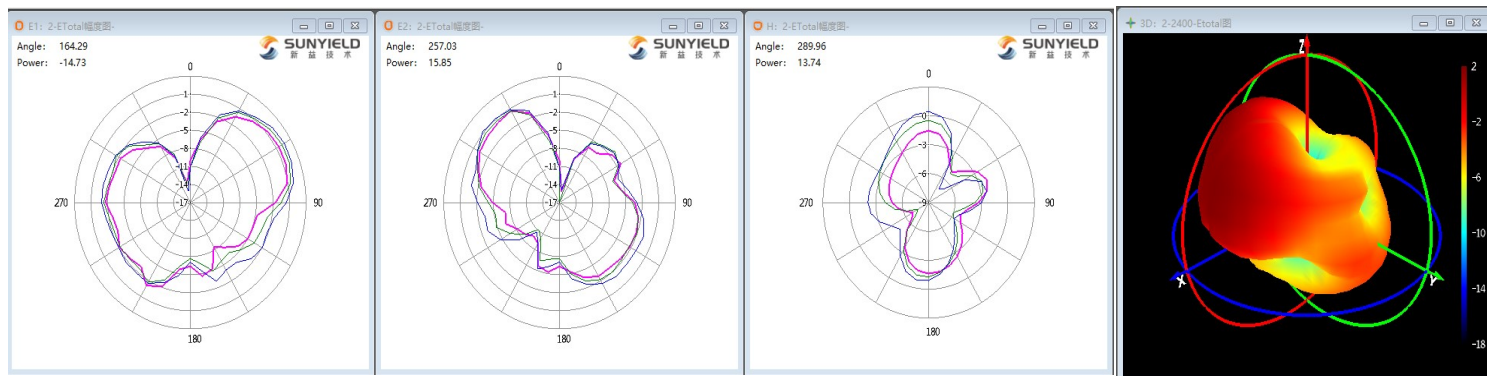
Freq (MHz)	2400	2440	2480
SWR	1.22	1.15	1.31
Log Mag	-18.90	-24.70	-18.30

Passive efficiency and gain testing of antennas

BT		
Frequency (MHz)	Gain (dBi)	Efficiency
2400	1.78	52.16
2410	1.78	53.71
2420	1.91	54.45
2430	2.08	55.1
2440	2.22	55.43
2450	2.39	56.21
2460	2.56	56.89
2470	2.63	57.72
2480	2.66	58.1
2490	2.65	58.38
2500	2.56	58.98



Passive radiation pattern of the antenna



Antenna OTA test:

BT OTA		
Channels	TRP	TIS
0	1.10	-89.86
39	1.01	-89.27
78	1.22	-89.54

Antenna size diagram:

