

Antenna Test Report

entry name:	Kn - K70T
Material category:	BT antenna
Antenna Type	PCB Antenna
Date:	2025.4.10
customer:	ZHENZHENSHI QIRUI ELECTRON CO.,LTD
Address:	2A, No.140, Songyu Road, Songgang Street, Baoan District, Shenzhen City, Guangdong Province

Tested by: 彭军治



艾特诺通讯

深圳市艾特诺通讯设备有限公司

SHENZHEN ATN COMMUNICATION TECHNOLOGY CO., LTD.

1、测试设备 Test Equipment&Conditions

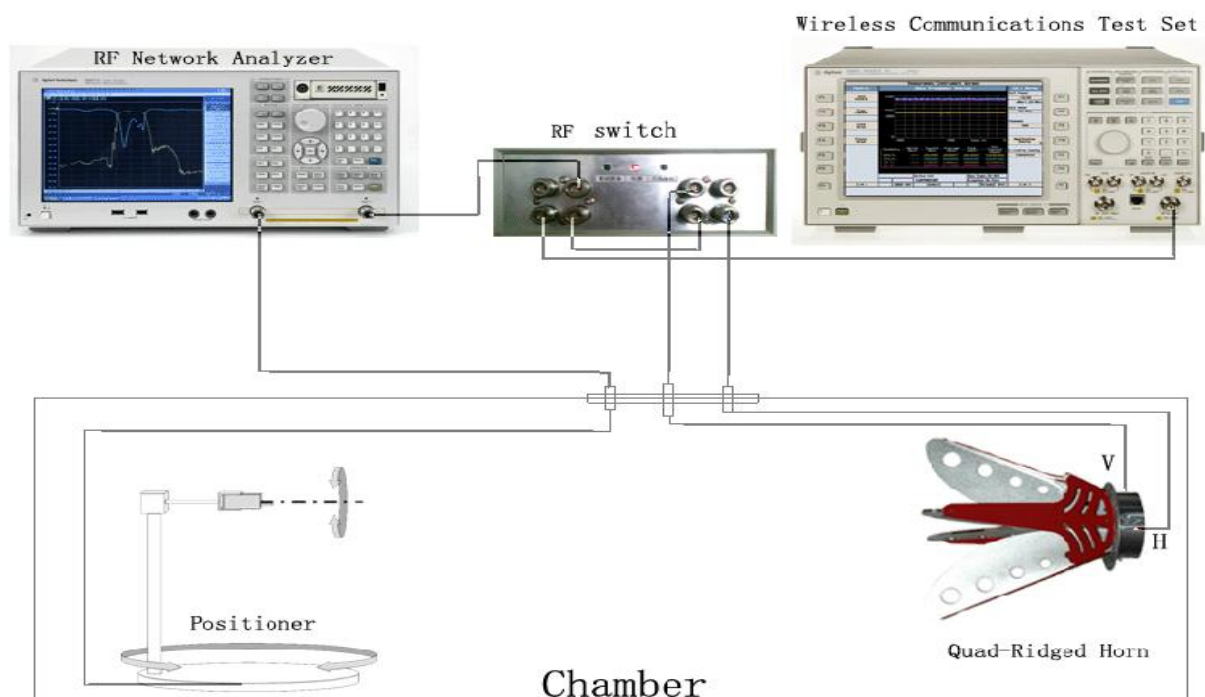
1.1 网络分析仪 (Network Analyzers)

Agilent Technologies E5071B

1.2 综合测试仪 (Communications Test Set)

CMW500

1.3 3D 暗室测试系统 (Test System)



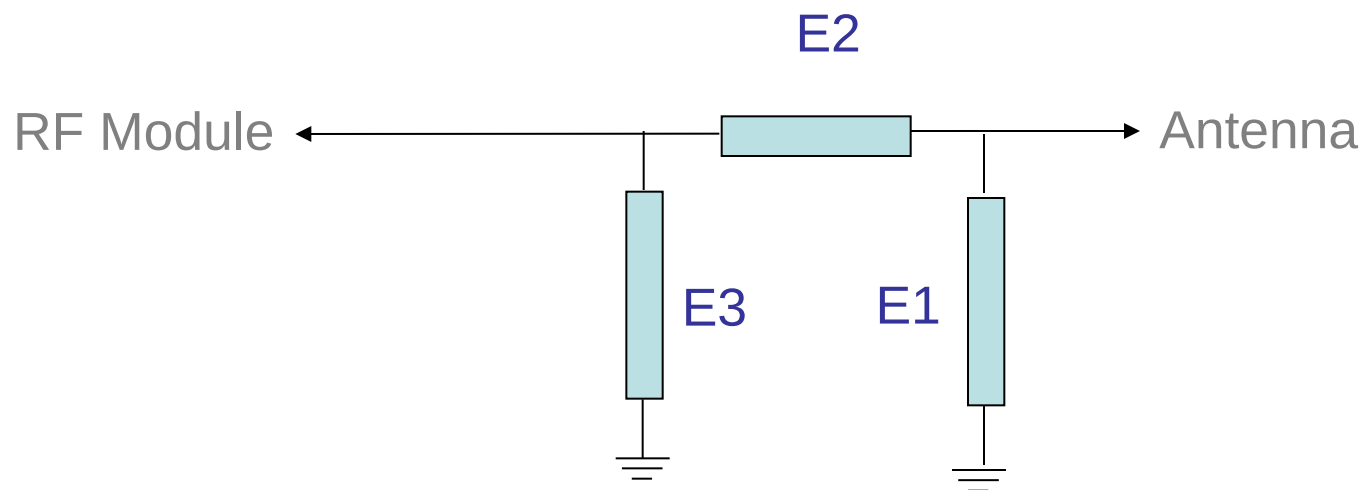
1.4 设备清单 Equipment

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Chamber	GP	633	ATN-SP-07	Apr 14.2026
Network analyzer	Agilent	E5071B	MY42403589	Apr 10.2026
Wideband radio communication tester	Rohde&Schwarz	CMW500	1201.0002K50-144456-VQ	Apr 10.2026

Directory:

- 1、 Matching circuit.
- 2、 Passive test report.
- 3、 OTA test data

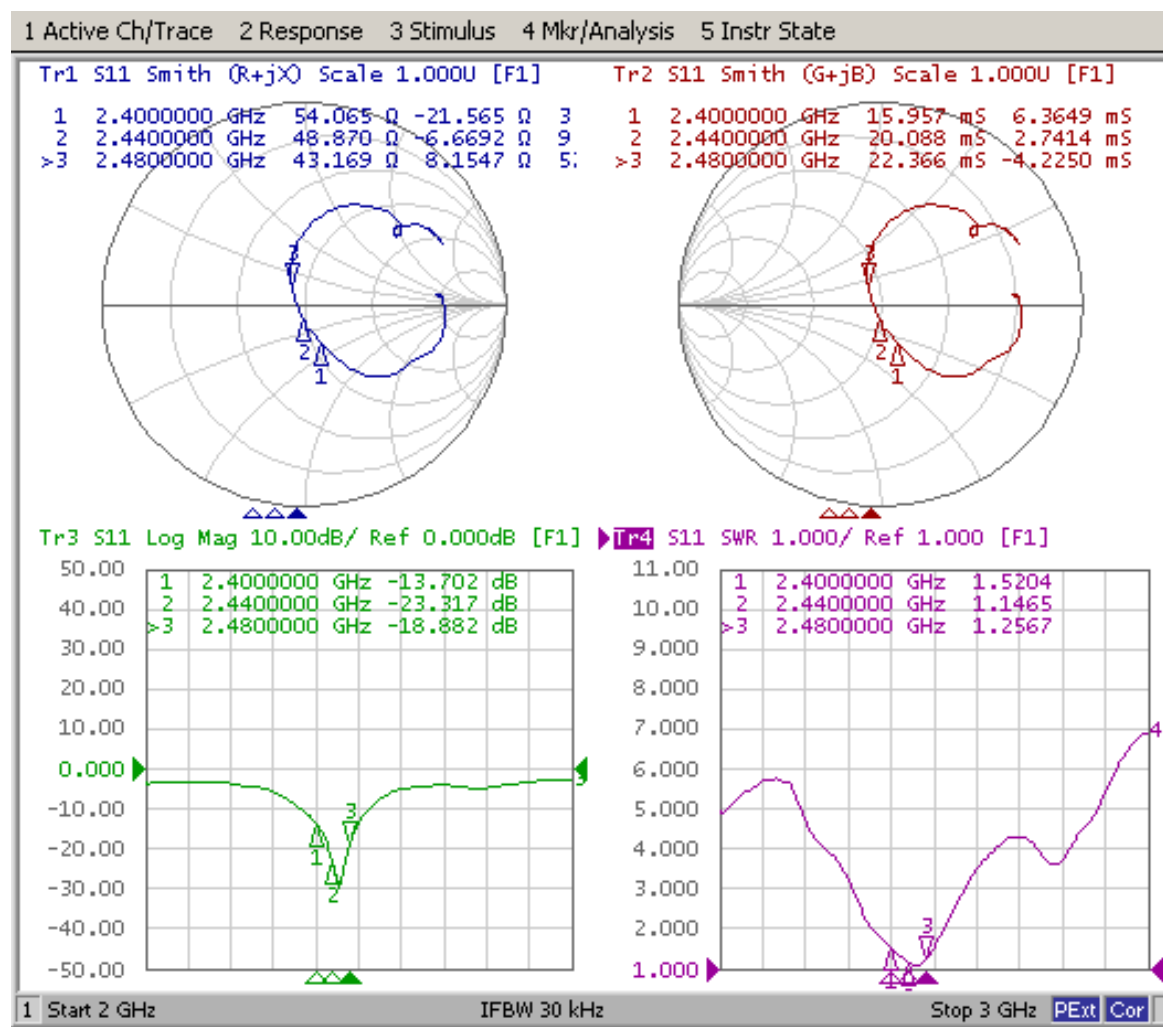
1. Matching circuit



Element	Value
E1	NC
E2	3.3pF
E3	NC

2 Passive pattern of BT antenna

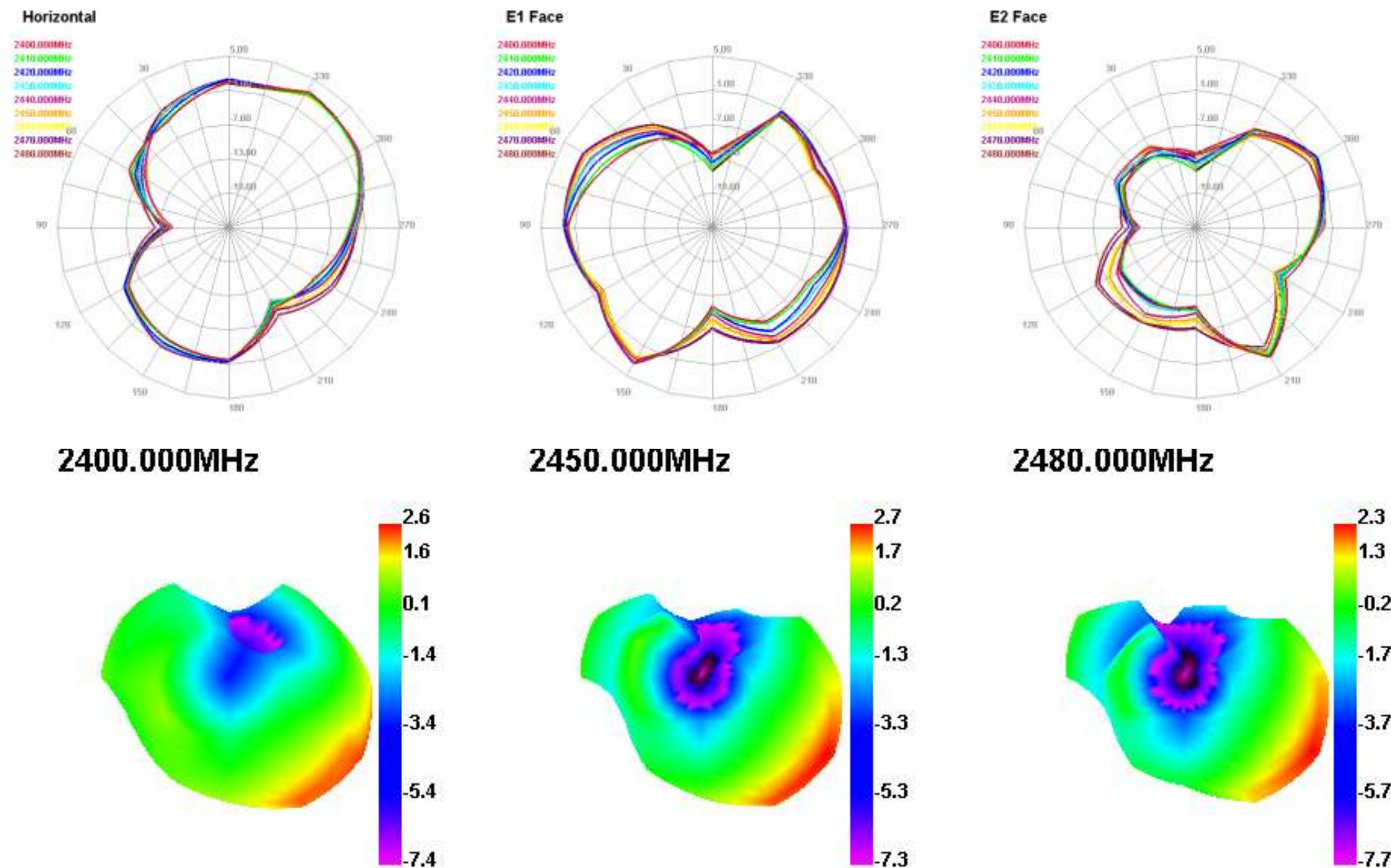
2.1 S11 Parameter



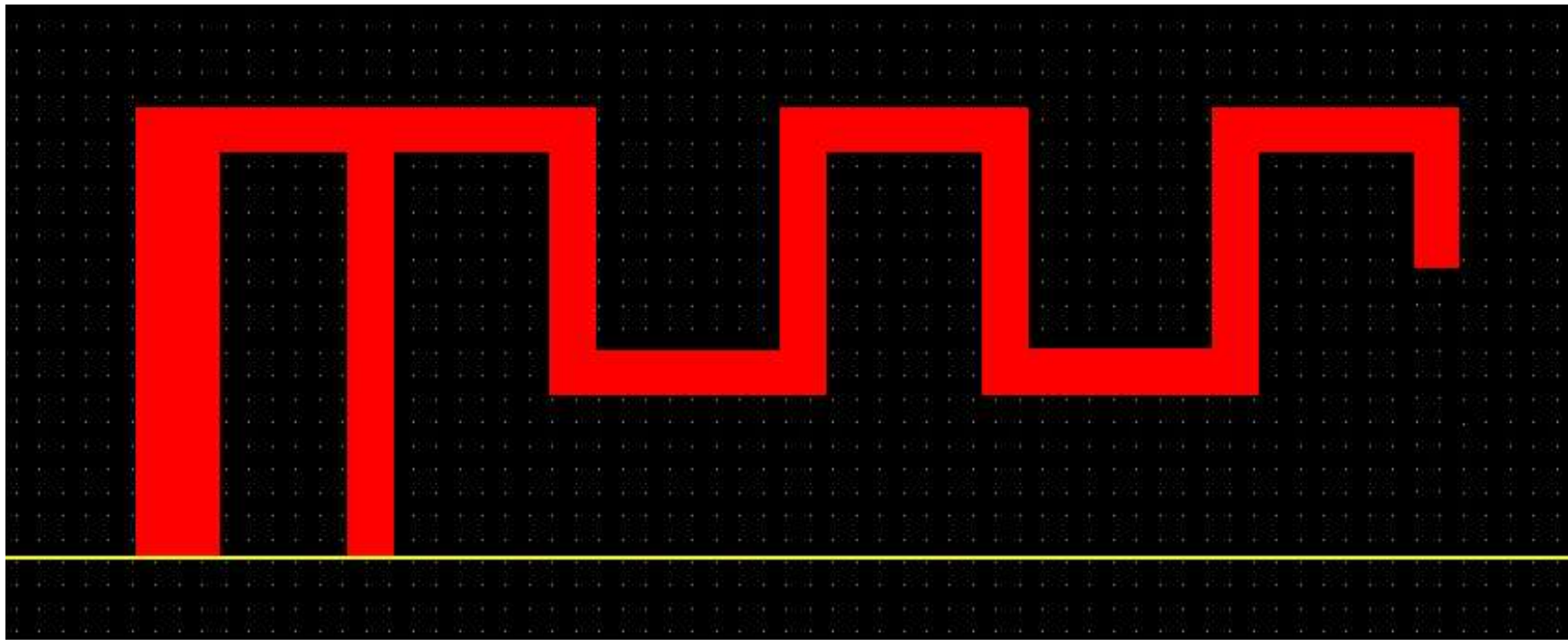
2.2 Gain & Efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	51.96	-2.84	2.64
2410	51.05	-2.92	2.35
2420	55.77	-2.54	2.49
2430	57.25	-2.42	2.56
2440	56.92	-2.45	2.62
2450	57.71	-2.39	2.73
2460	55.3	-2.57	2.38
2470	59.61	-2.25	2.72
2480	58.06	-2.36	2.31

2.3 Radiation pattern



3、Antenna size:14.4*5.8mm



3、OTA Test Data

band	channel	TRP (dBm)	TIS (dBm)
Bluetooth BR	0	5.9	-90.1
	39	6.4	-91.7
	78	6.4	-91.8