



深圳市天达通信有限公司

BAS10Antenna debugging report

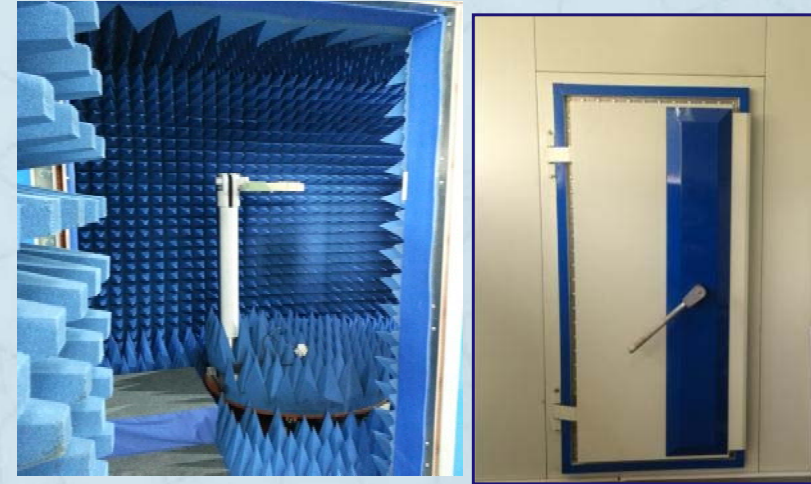
Person in charge: Wang Xinchuang
Phone: 15914002533
Date: 2025.12.12

Test equipment

SATIMO -24



广屏 -ETS



Amway MT8820C



Agilent 8960



Agilent E5071C

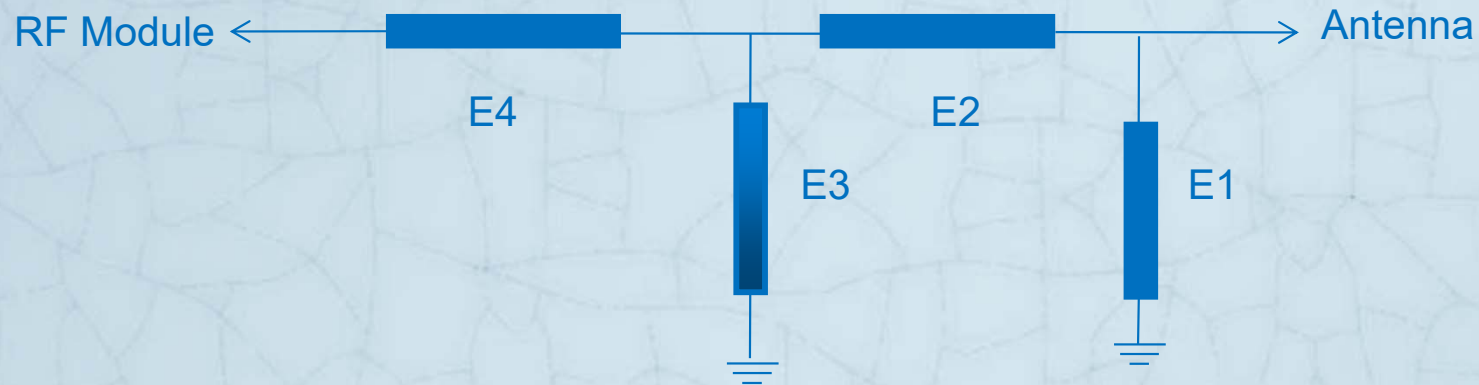
Test system	Test environment	Active testing	source-free testing
Guangping ETS	Temperature: $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Humidity: $50\% \pm 15\%$	support 2G/3G/4G	600MHZ——6G

Project Overview

Customer Name		Item Name		Model	Antenna implementation method	Model dimensions
WUUK		BAS10			FPC	/
Frequency band						
Main antenna	2G	/		Secondary antenna	GPS	/
	3G	/			BT	2400--2500MHz
	4G	FDD: /			diversity antenna	/
		TDD: /			433MHz	/
Shell material		Plastic				

[illegible][illegible]

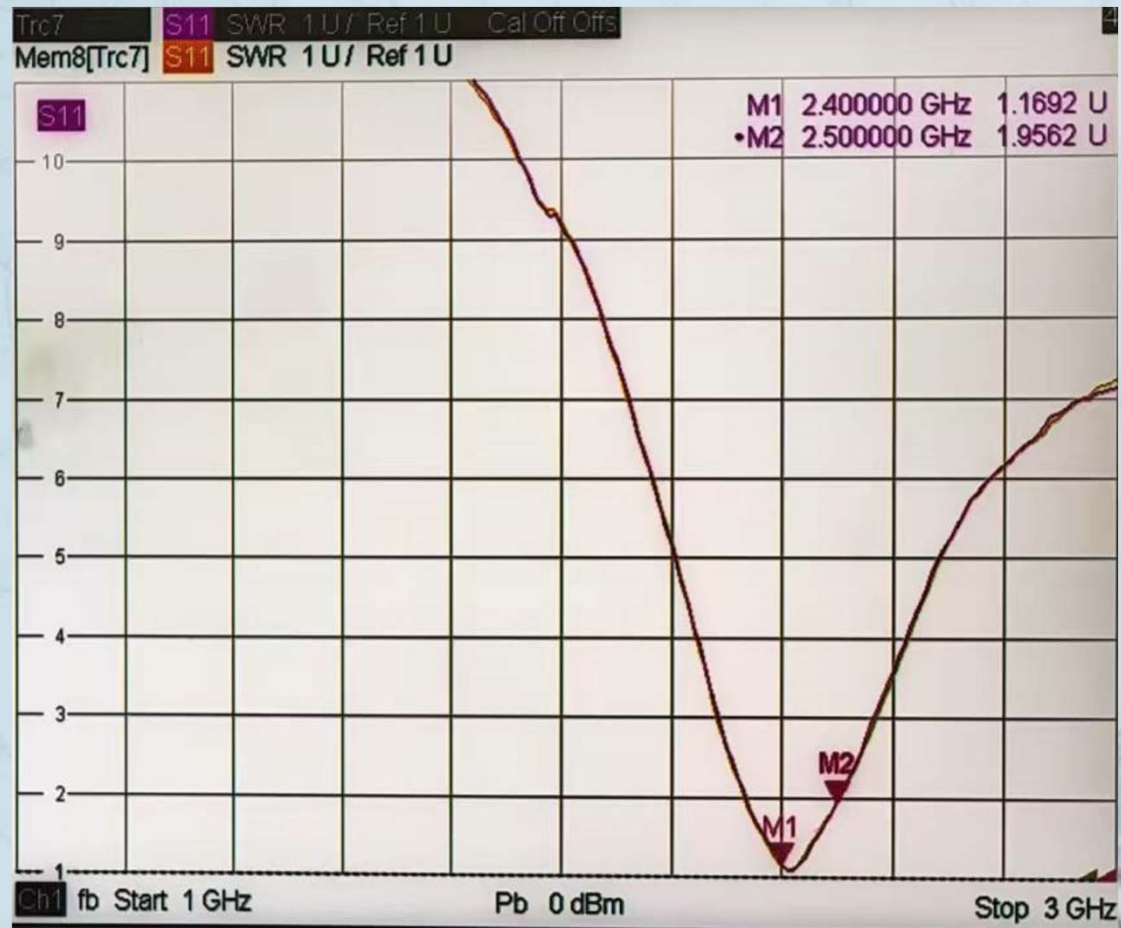
Matching circuit



BT	
Element	Value
E1(0201)	
E2(0201)	
E3(0201)	
E4(0201)	

The antenna matching circuit for this debugging is the original matching circuit of the motherboard, without any changes.

Passive test data



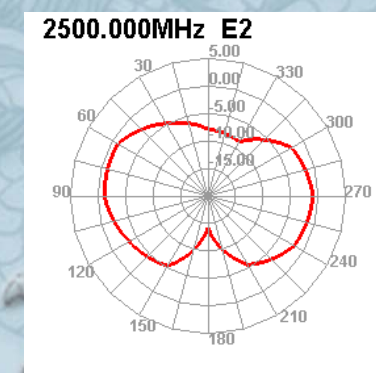
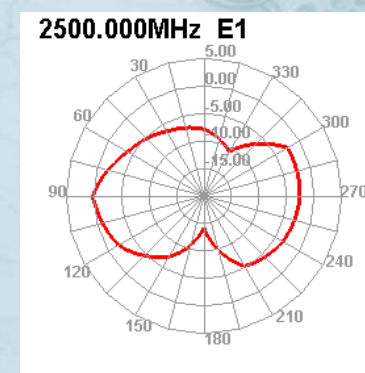
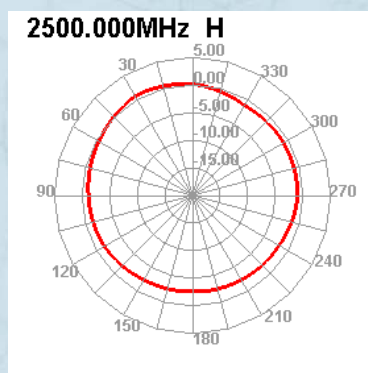
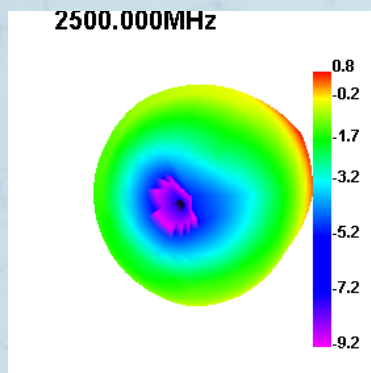
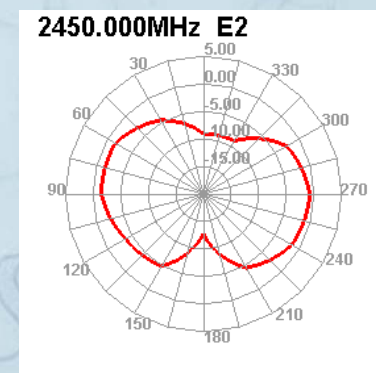
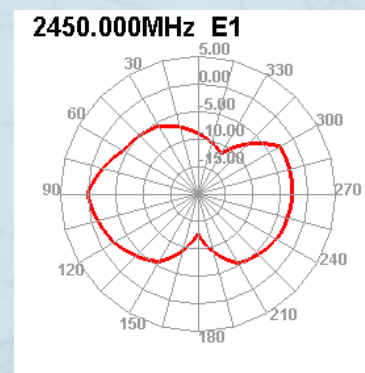
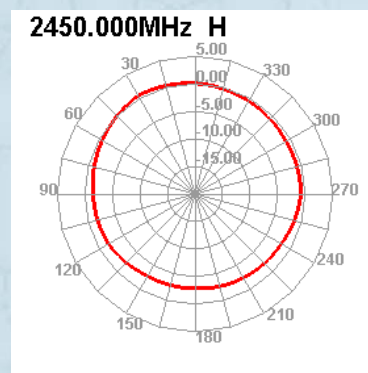
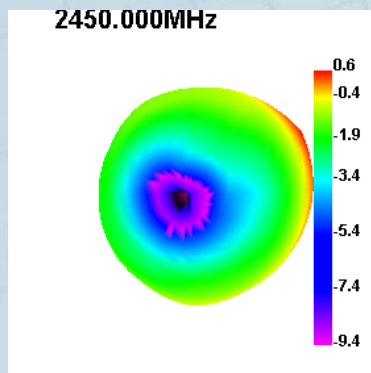
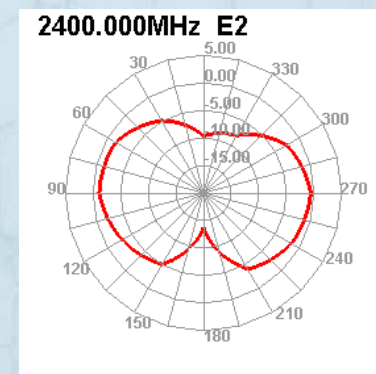
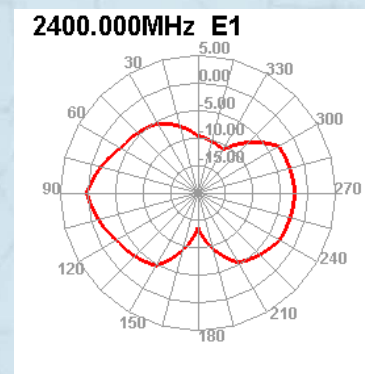
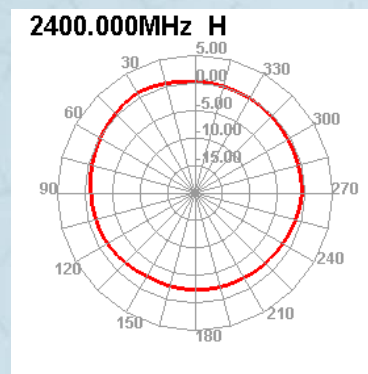
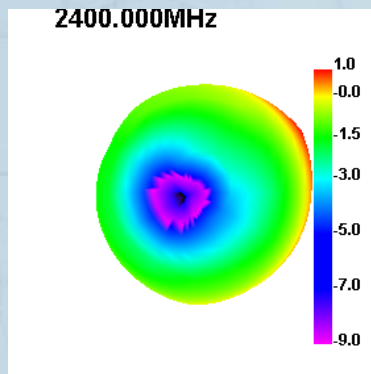
BT antenna S11

Passive test data

Bluetooth antenna gain and efficiency:

Passive Test For 2.4G-2.5G							
Freq (MHz)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	AttH (dB)	AttV (dB)
2400	32.26	-1.14	-3.29	15.819	16.444	44.75	44.6
2410	34.79	-0.89	-3.04	17.105	17.683	44.59	44.46
2420	36.68	-0.67	-2.82	18.155	18.525	44.71	44.6
2430	36.58	-0.65	-2.8	18.316	18.269	44.76	44.78
2440	37.5	-0.53	-2.68	18.884	18.619	44.99	44.94
2450	35.05	-0.89	-3.04	17.749	17.296	44.52	44.41
2460	42.99	-0.12	-2.27	21.798	21.191	45.22	45.11
2470	37.85	-0.78	-2.93	19.1	18.746	45.04	44.97
2480	34.44	-1.29	-3.44	17.358	17.084	44.37	44.26
2490	38.99	-0.72	-2.87	19.591	19.397	44.71	44.54
2500	41.49	-0.5	-2.65	20.951	20.538	44.82	44.69

antenna pattern

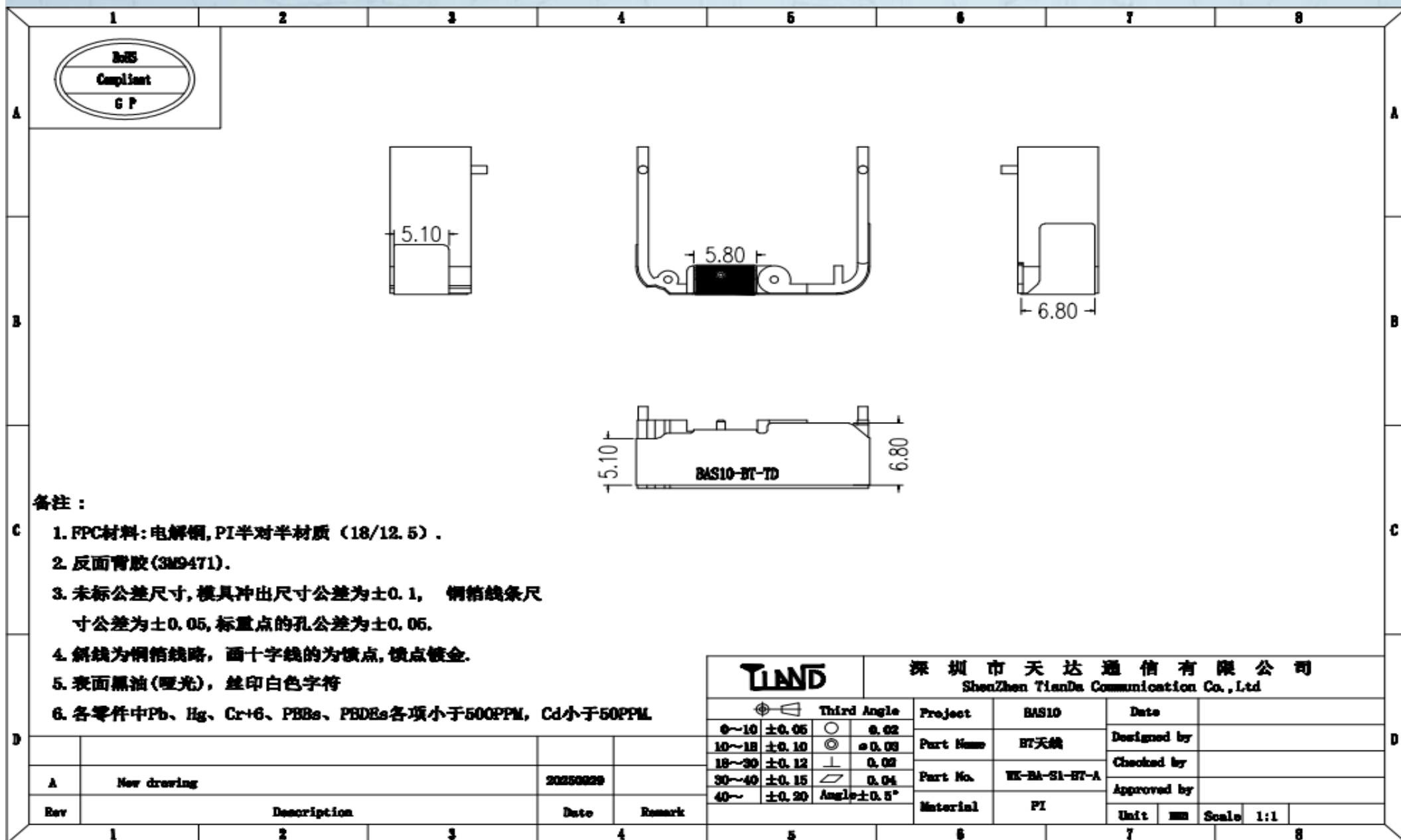


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备注：

1. FPC材料: 电解铜, PI半对半材质 (18/12.5) .
2. 反面背胶 (3M9471).
3. 未标公差尺寸, 模具冲出尺寸公差为 ± 0.1 , 铜箔线条尺寸公差为 ± 0.05 , 标重点的孔公差为 ± 0.05 .
4. 斜线为铜箔线路, 画十字线的为镀点, 镀点镀金.
5. 表面黑油 (哑光), 丝印白色字符
6. 各零件中Pb、Hg、Cr+6、PBBs、PBDEs各项小于500PPM, Cd小于50PPM

TIAN DA		深圳市天达通信有限公司 ShenZhen TianDa Communication Co.,Ltd					
Project	BAS10	Date					
Part Name	BT天线	Designed by					
Part No.	WE-BA-SI-BT-A	Checked by					
Material	PI	Approved by					
Unit	mm	Scale	1:1				

A New drawing

20250929

Rev Description Date Remark

1 2 3 4 5 6 7 8