



深圳市东信通电子科技有限公司

ShenZhen Eastong Electronic technology Co., LTD

E.S Antenna Design & Mobile Phone OTA (CTIA)

Test Report

design for :众悦T8

Address: Floor 5, Building A, Building 6, Phase 2, Dongjiu Innovation Science and Technology Park, Xialilang Community, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong Province, China



Date	Version	Situation
2026-10-07	A	FPC

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1 Overview

This report is mainly used to describe the parameter specifications of the antenna designed for the "Zhongyu T8" project by "Dongxin Tong Electronics".

2 Project Description

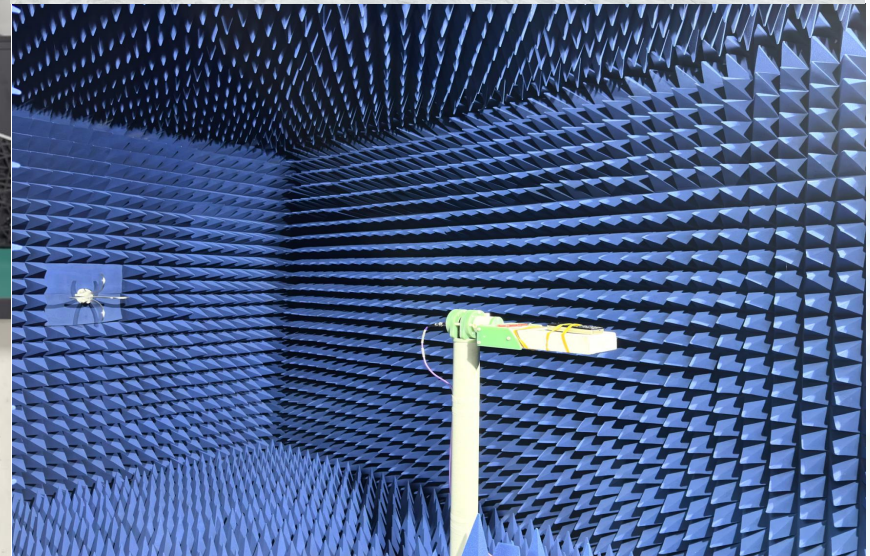
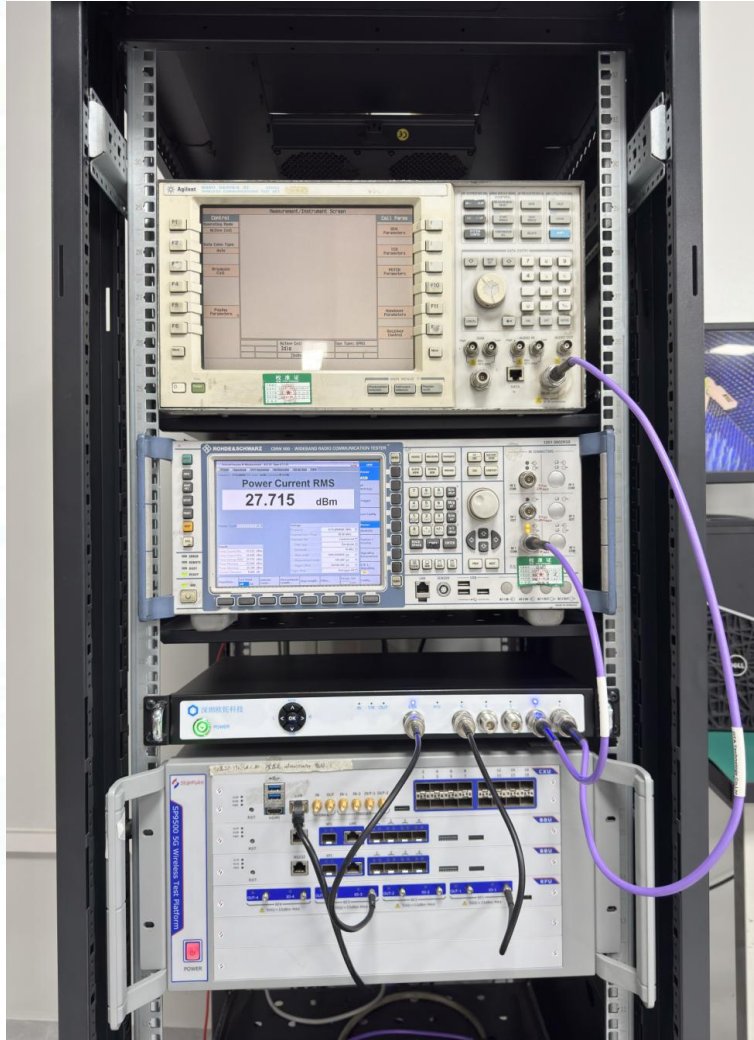
Project Name: "Zhongyu T8", Mobile Phone Model: Tablet, Mobile Phone
Frequency Band: WIFI Antenna Form: Made into PIFA antenna form.

3 Debugging Settings

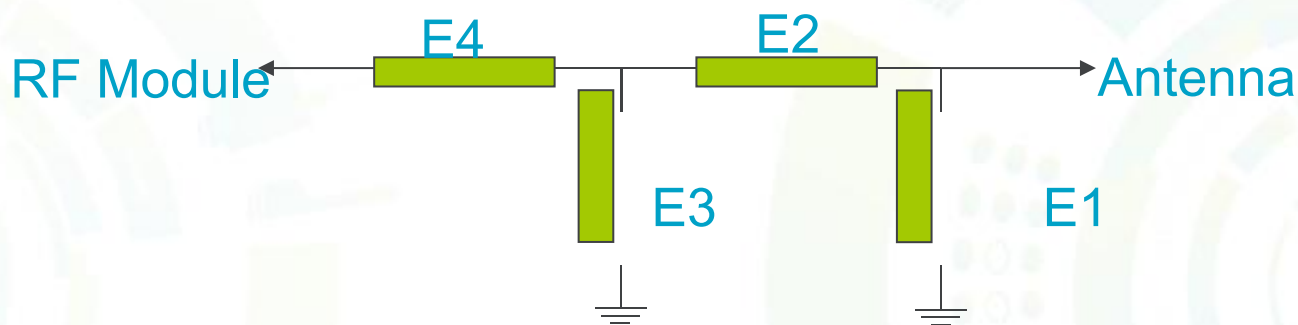
3.1 Standing Wave (VSWR) and Echo Reflection (Return Loss) VSWR is tested using an Agilent E5062B connected to the mobile phone fixture, and the condition is free space.

3.2 TRP/TRS was tested using the CMW500 in an ETS 5m×3m×3m 3D darkroom.

2、Advanced technological equipment



匹配电路(Matching Circuit Description)



Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

Match unchanged

WiFi Data:

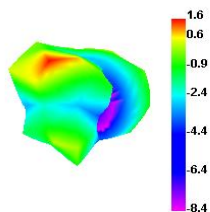
WiFi	2.4G (802.11b)			5G (802.11a)		
Let	1	6	11	36	64	161
TRP	13.2	13.5	14.1	11.2	11.6	11.3
TIS			-79.2			-71.5

Passive testing:

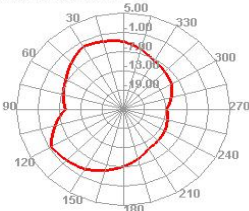
2.4G:

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	44.38	-3.53	2.42	0.27
2450	49.1	-3.09	2.61	0.46
2500	53.82	-2.69	2.69	0.54

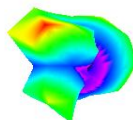
2400.000MHz



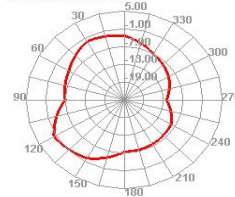
2400.000MHz H



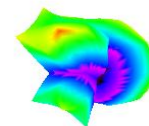
2450.000MHz



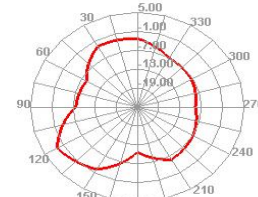
2450.000MHz H



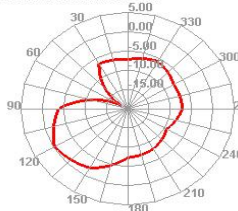
2500.000MHz



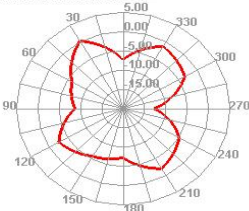
2500.000MHz H



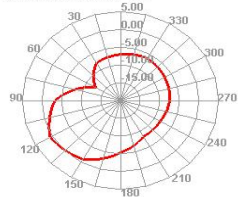
2400.000MHz E1



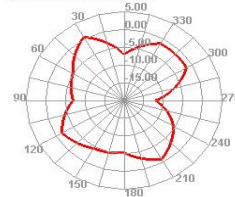
2400.000MHz E2



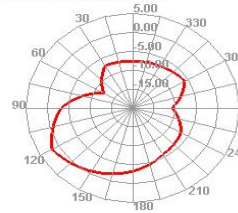
2450.000MHz E1



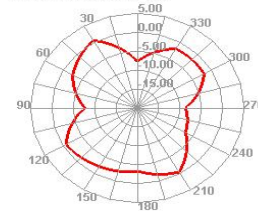
2450.000MHz E2



2500.000MHz E1



2500.000MHz E2

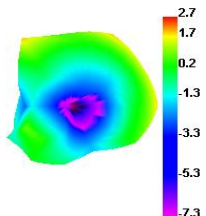


Passive testing:

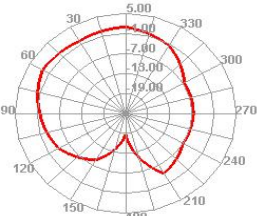
5G:

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5150	50.53	-2.96	2.75	0.6
5500	43.14	-3.65	2.55	0.4
5850	33.42	-4.76	1.47	-0.68

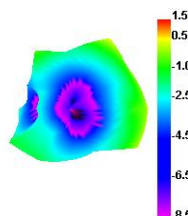
5150.000MHz



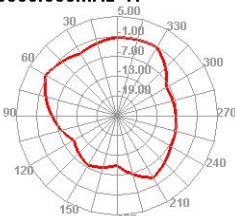
5150.000MHz H



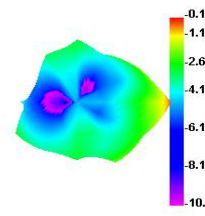
5500.000MHz



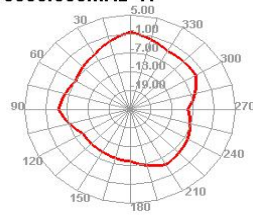
5500.000MHz H



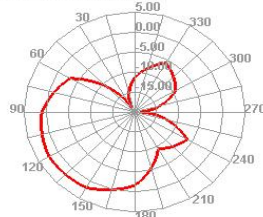
5850.000MHz



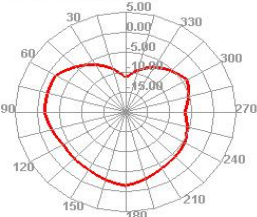
5850.000MHz H



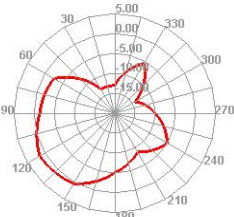
5150.000MHz E1



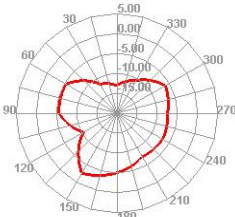
5150.000MHz E2



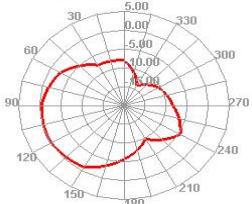
5500.000MHz E1



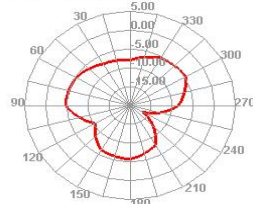
5500.000MHz E2



5850.000MHz E1



5850.000MHz E2



Overall machine picture



Antenna position





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