



Antenna Test Report

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Project Name:

Author: 杨永成

Update: 2022-12-22



Project Overview

MANUFACTURER	Wireless-Tag Technology Co., Ltd.	
MANUFACTURER Address	801, Block A, Building 6, Shenzhen International Innovation Valley, Dashi Road, Xili Community, Xili Street, Nanshan District, Shenzhen	
Items		Details
• FREQUENCY		2400MHz-2500MHz
• PROJECT TYPE		WIFI Bluetooth Module
• ANTENNA SPACE		Antenna size (12.40mm*5.16mm)
• FEED & GROUND PAD		
• SENSITIVE ELEMENTS		
• ANTENNA TYPE		PCB ANTENNA (B)
• PCB		PCB size (17.3mm*15mm*0.8mm)
• PROJECT NAME		WT018684-S2



Revision History

Date	Revision	Author	Description of changes
2022-12-22	A	杨永成	Passive antenna test



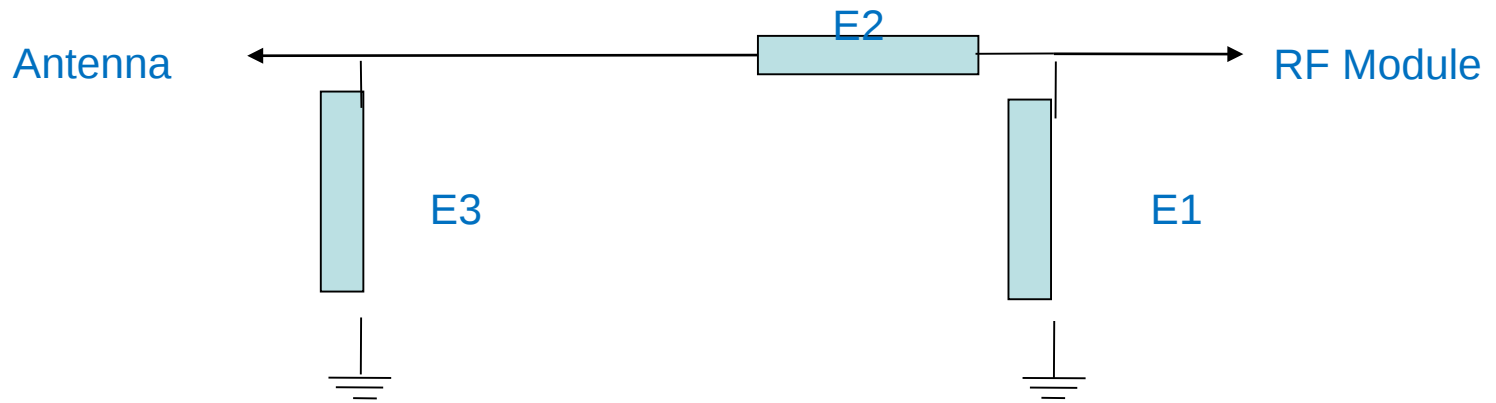
Test Item & Equipment

List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	





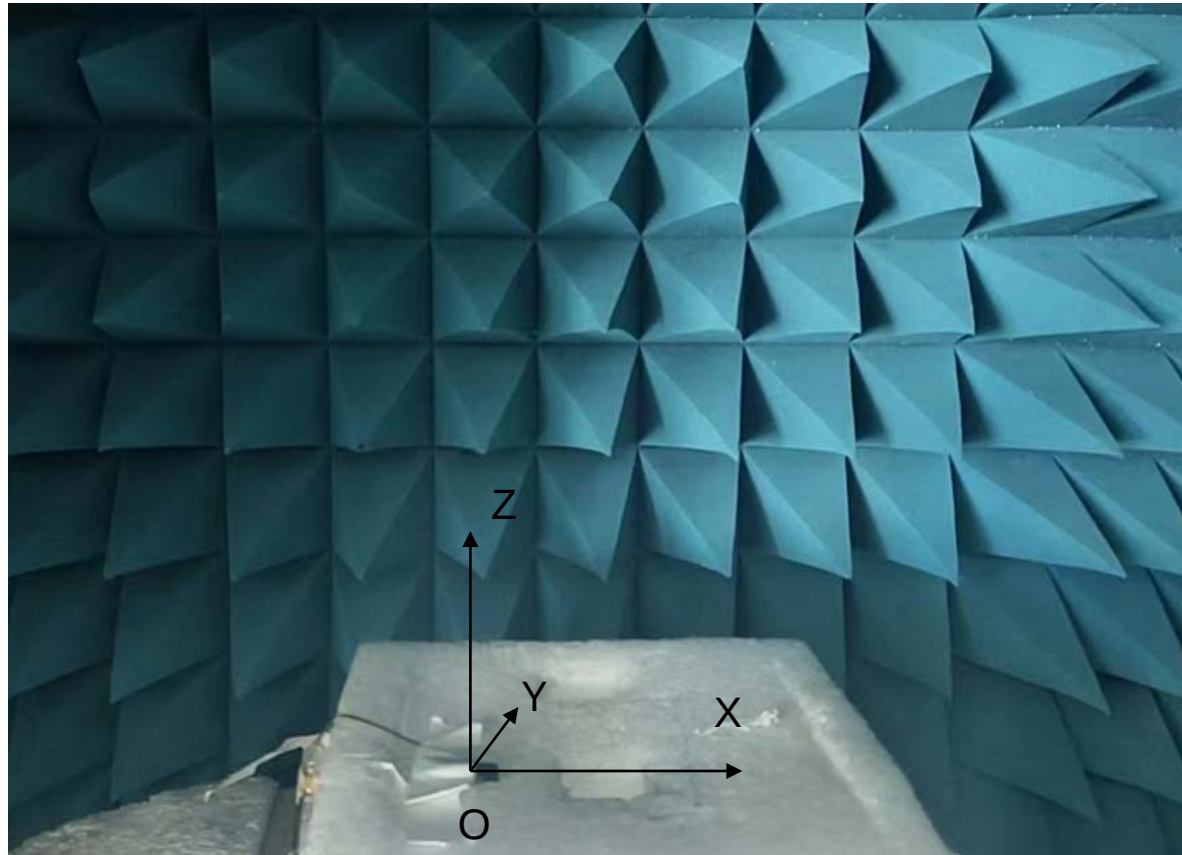
Matching Circuit



Element	Value
E1(0402)	NC
E2(0402)	0Ω
E3(0402)	NC



Darkroom antenna in the same direction.





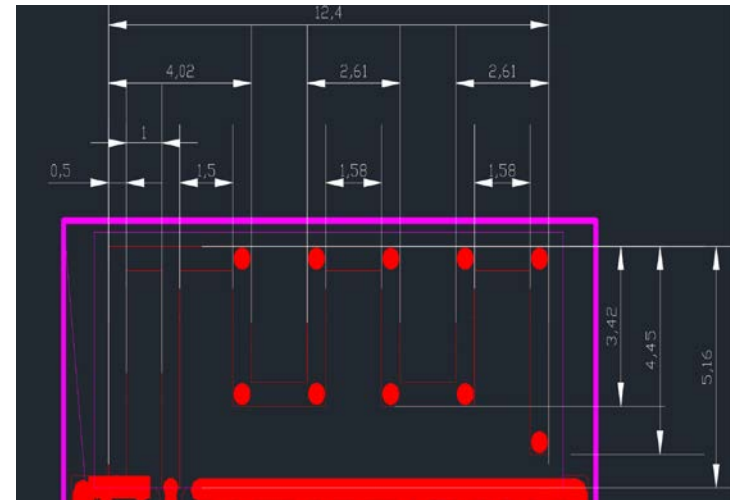
Antenna

WT018684-S2-Passive antenna test

Diameter: 1.13
length: 132MM

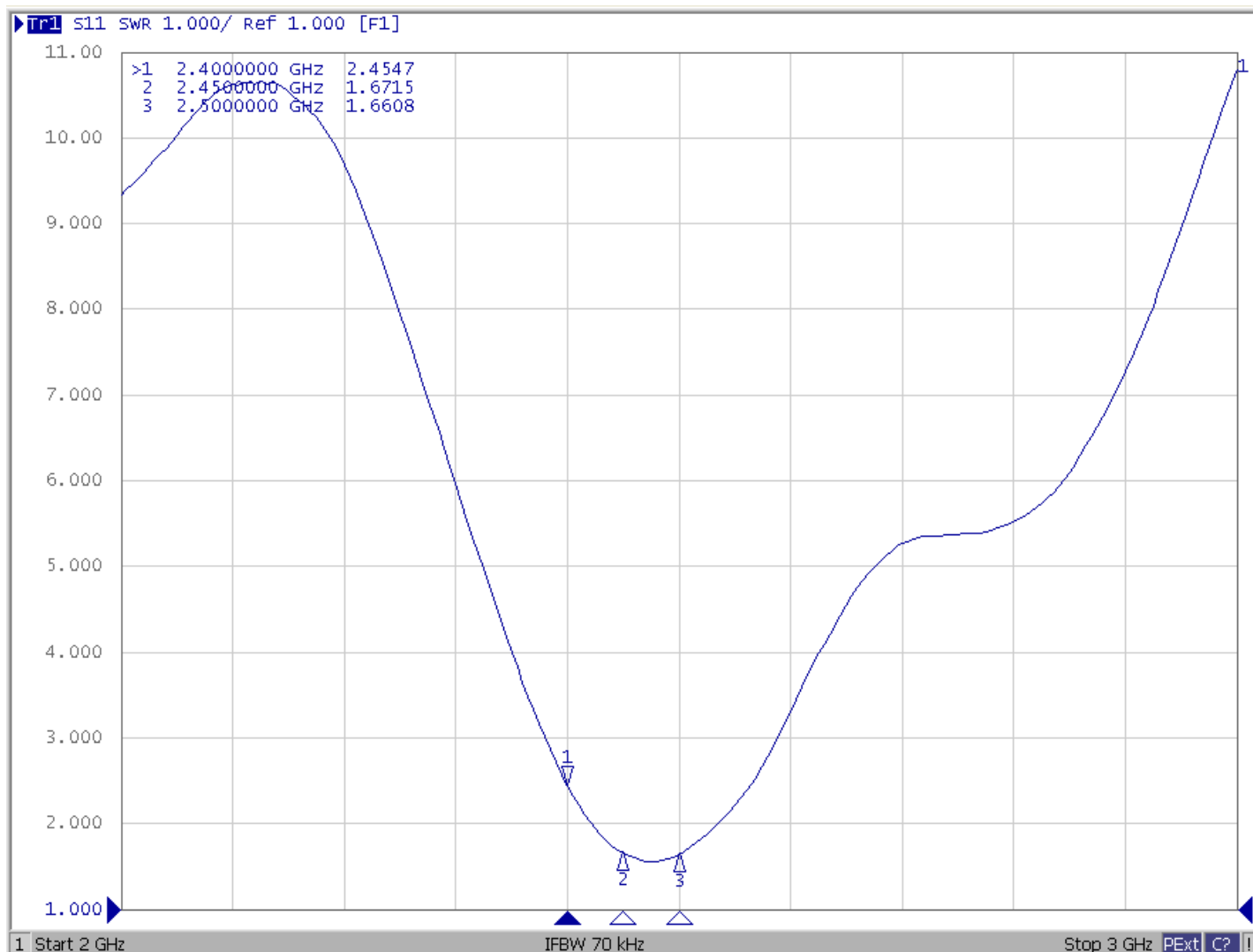


Antenna size:
12.40mm * 5.16mm



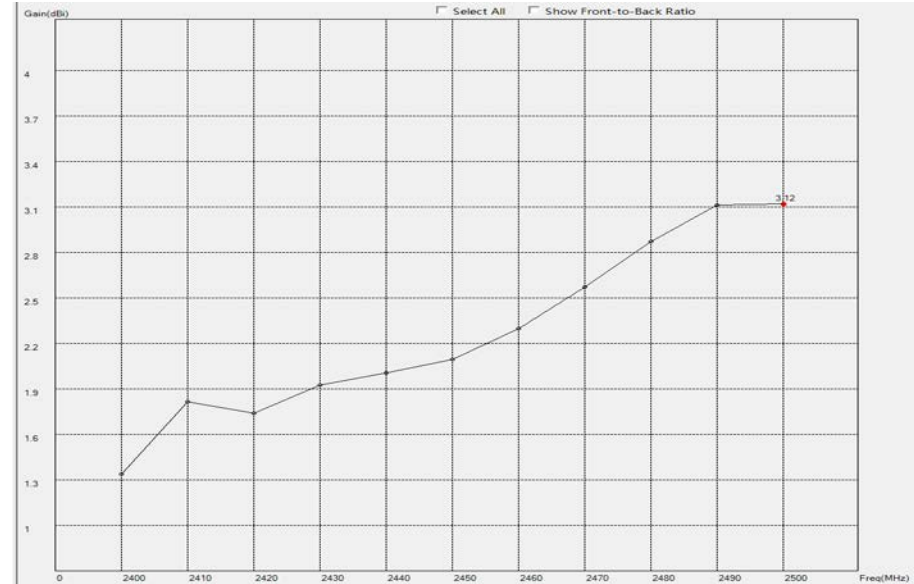
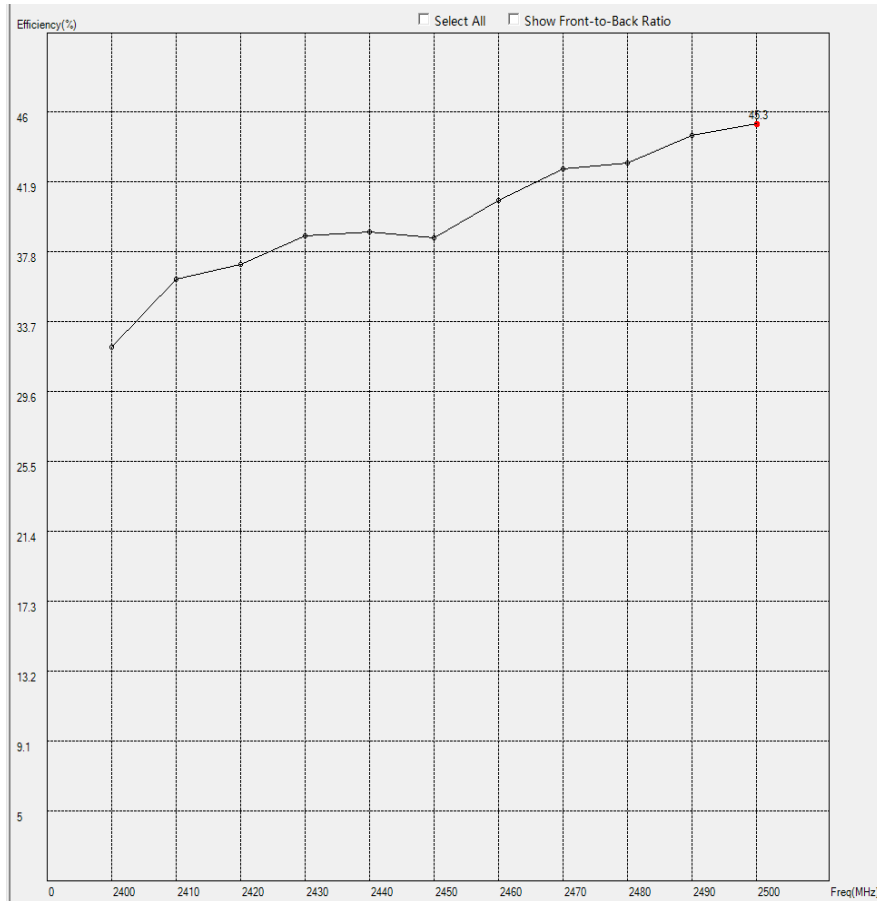


VSWR





PASSIVE TEST (Antenna efficiency and gain)



ITEM	SPEC
Antenna type	PCB Antenna(B)
Center Frequency	
MAX GAIN	3.12dbi
Polarization	Horizontal
Azimuth Beam Pattern	Omni-directional
Impedance	50ohm
Antenna Length	



3D Antenna Radiation Pattern

