



Heyuan Xunwei Microwave Communication
Technology Co., Ltd.

WOTE-RE743

WiFi Antenna test report

Radio frequency engineer:Chen Chuanming

Date of test:2022.11.08

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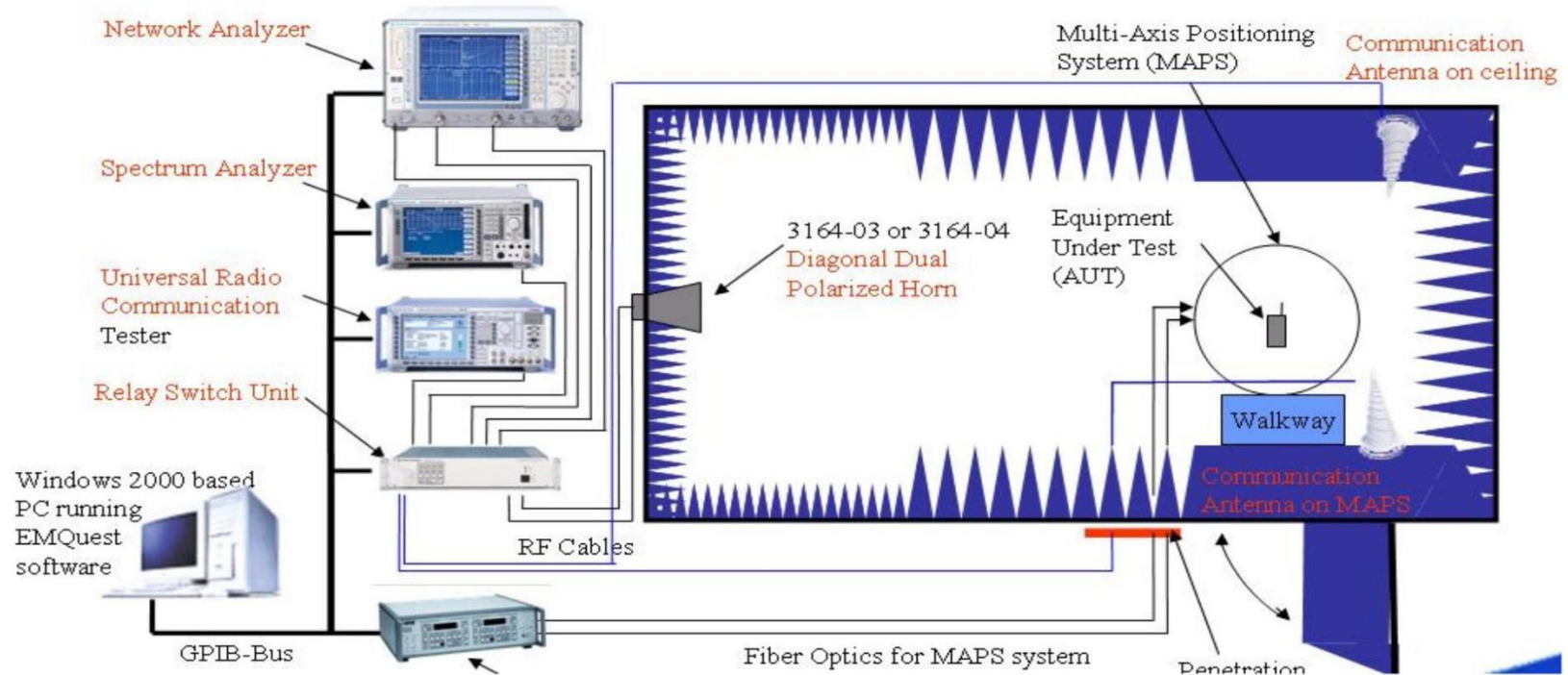
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1、Test equipment

Comprehensive measuring instrument: Agilent 8960

Network analyzer: Agilent 8753ES

3D-Darkroom: 7x4x3m

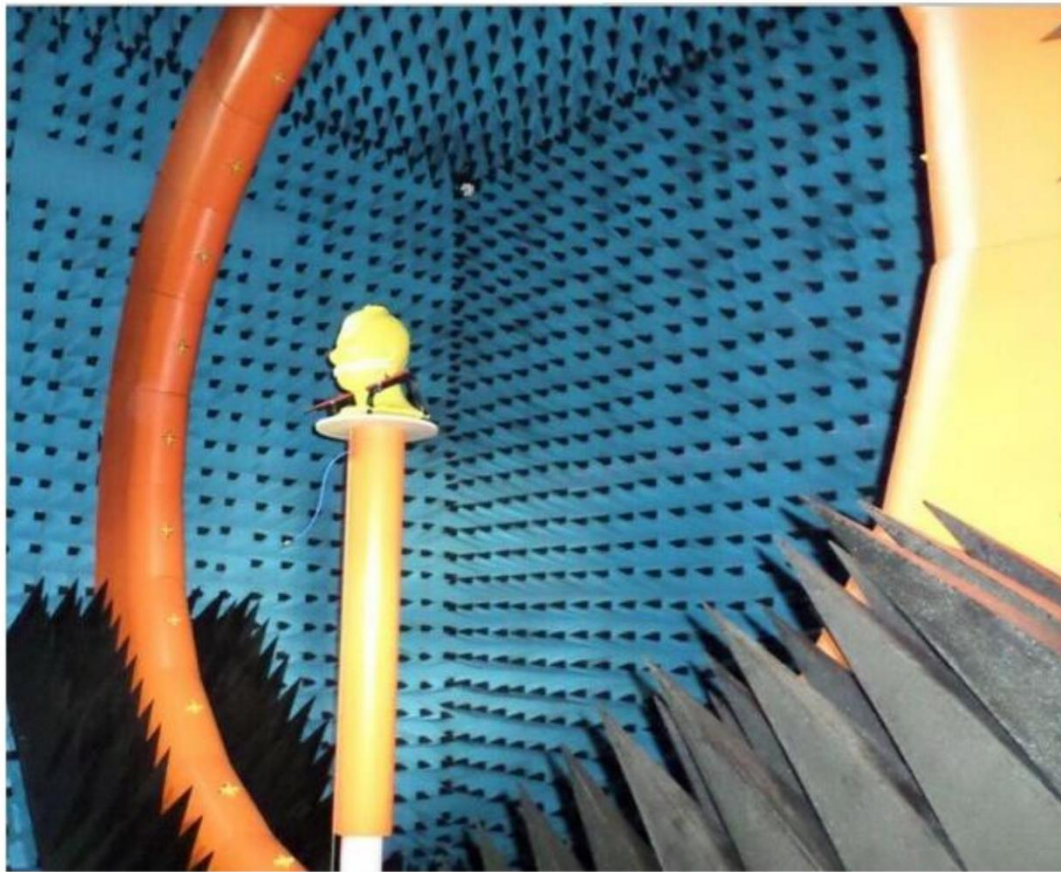


1、 Test equipment

Comprehensive measuring instrument: CMW500

Network analyzer: Agilent 5071B

3D-Darkroom: SATIMO SG24



1、list of equipment

Equipment	Manufacturer	Model Number	Last Cal	Due Date
Network Analyzer	Agilent	5071C	2022. 06. 18	2022. 12. 18
Integrated test instrument	Rohde&Schwarz	CMW500	2022. 07. 22	2023. 01. 22
Microwave anechoicchamber	SATIMO	SG24	2022. 06. 18	2022. 12. 18

2、 Basic information of the project

Customer's name	WOTE
Project name	RE743
Type of mobile phone	On-boardWiFi
Motherboard model	
Small board model	
Edition	V1.1

3、Project change record form

Report Version	Date	Description of the change content
V1.0	2021.11.22	On-boardWiFiAntenna test report
V1.1	2022.11.08	On-boardWiFiAntenna test report

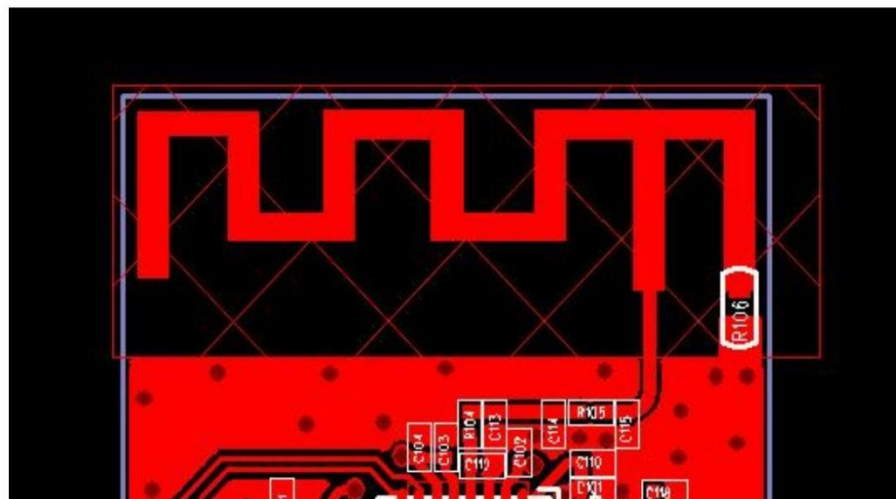
4、 Antenna matching circuit

Name of antenna	Whether the match has changed	Remarks
WiFi	Deny	

5、 WIFI Active test data
3D Test data

Band	Channel	TRP	TIS
WIFI-B (11M)	1	12.45	-83.07
	7	12.66	-80.03
	13	12.80	-82.42
WIFI-G (54M)	1	9.97	-68.45
	7	10.14	61.85
	13	10.31	-62.32
WIFI-N (65M)	1	9.42	-65.84
	7	9.71	-57.13
	13	10.06	-65.23

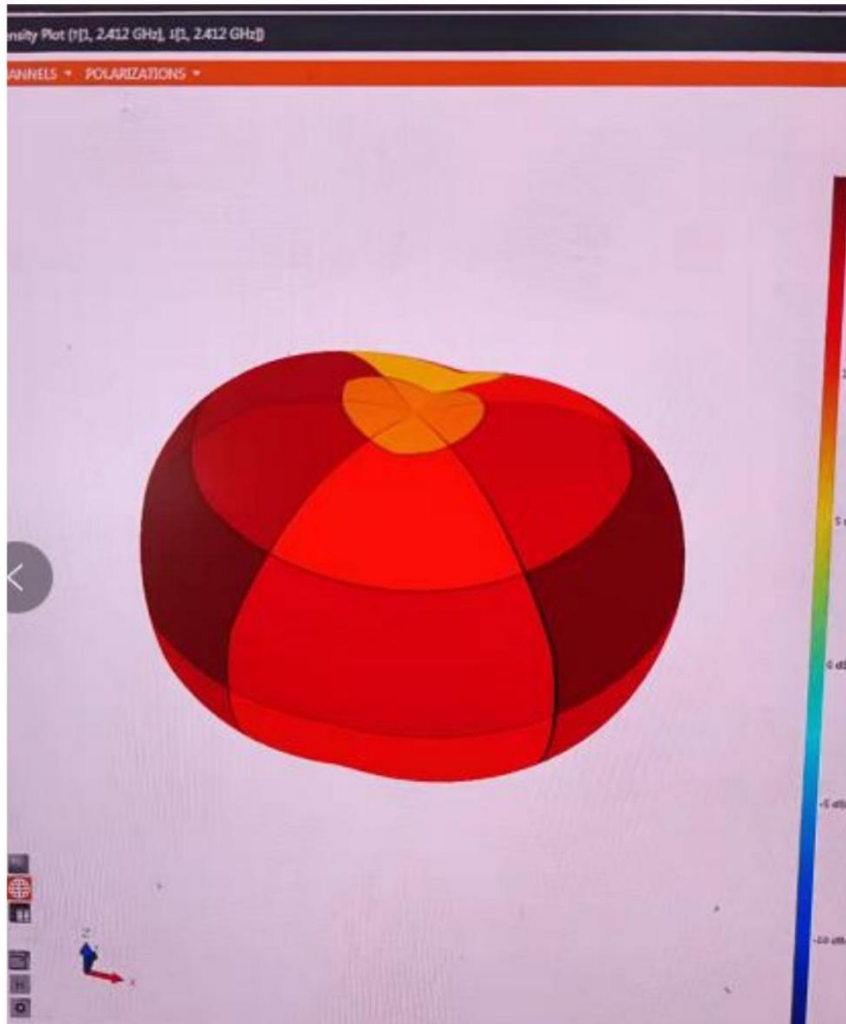
6、 Picture of antenna



7、Passive standing wave map



7.1、Apple picture



7.2、Passive efficiency test

WIFI		
Frequency	Efficiency (%)	Average gai (dBi)
2390MHZ	39%	0.62
2410MHZ	39%	0.62
2430MHZ	40%	0.71
2450MHZ	41%	0.73
2470MHZ	39%	0.61
2490MHZ	39%	0.61
2510MHZ	39%	0.60

8、Contact us

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Thanks and best regards!

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