
SHENZHEN VLG WIRELESS TECHNOLOGY CO., LTD.

Antenna Report

2024/9/26

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1 Specification

Specification	
P/N	V1350-152-A-01
Frequency	2400~2500MHz
Antenna Type	Dipole
Dimension	12.1*14*3.1mm
Impedance	50Ω
Polarization	Linear
VSWR	<2
Axial Ratio	not involved
Efficiency	<u>44~60% @2.4~2.5GHz</u>
Gain	<u>0.13~1.17dbi@2.4~2.5GHz</u>
Radiation Pattern	<u>omnidirectional antenna</u>
Connection	plug in
Line Type	not involved
Line Loss	not involved
Power Handling	1W
	-20~70℃

2 Antenna Dimension

版本	变更履历	设计	日期
R.1	初版	CR	2023/2/20

图幅	A4	比例	1:1	单位	mm	页码	1/1	批准
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深圳市维力谷无线技术股份有限公司	绘图	审核
Shenzhen VIG Wireless Technology Co., Ltd	射频	黎小燕
第三角法	机种号	U150-152-01
0~10	项目名	AL002
11~20	品名	WiFi天线
21~40	料号	V130-152-01
>40	版本	R.1

3 Picture



4 Electrical Test

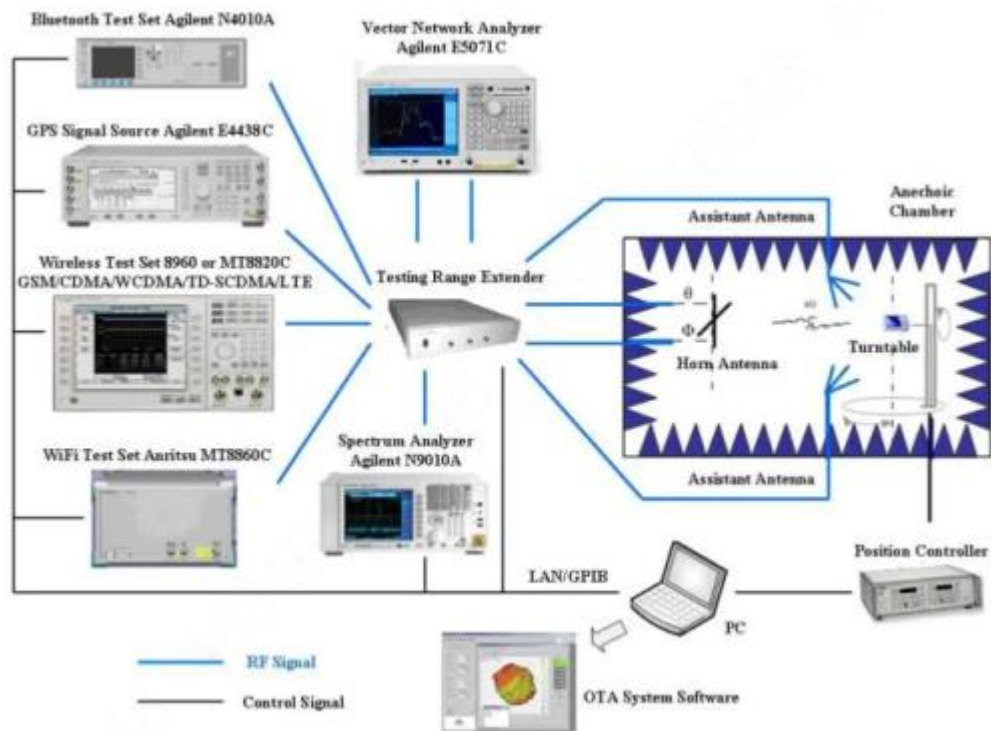
4.1 Method

Name	Parameter	Method	Standard no.
Mobile Communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

4.2 Device

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	XXXXXX	2022.01.20	2023.01.19

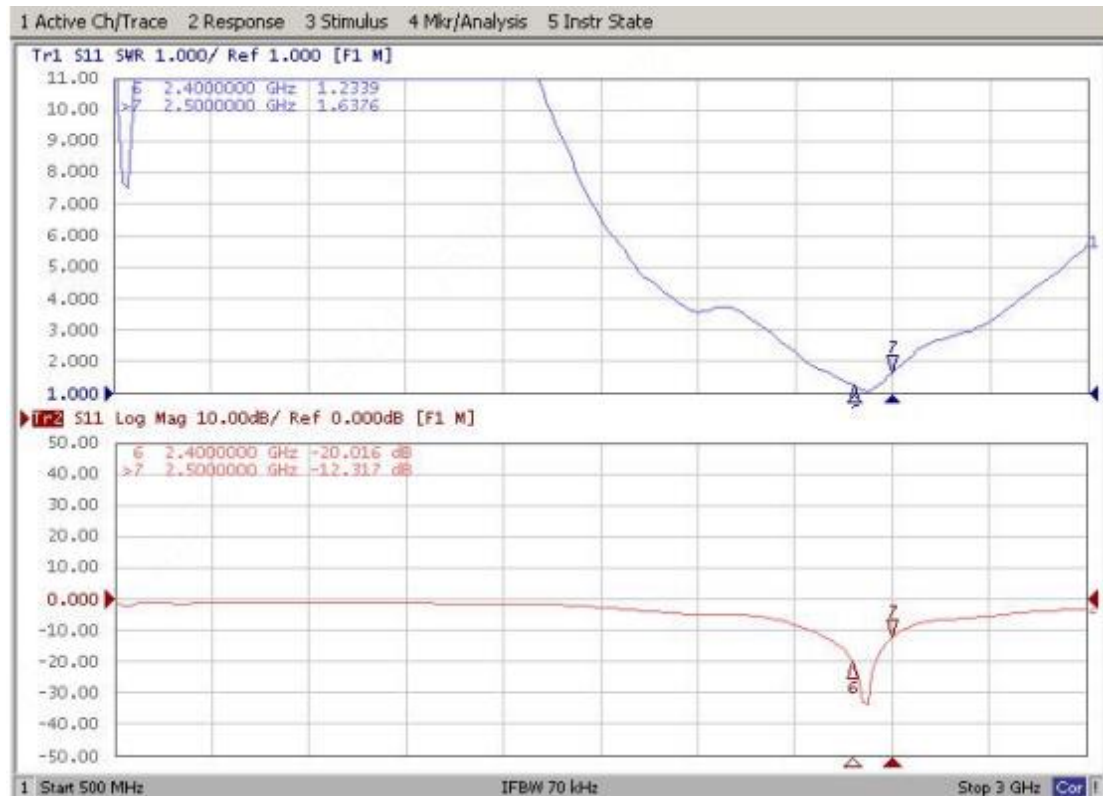
4.3 Test Configuration



4.4 Passive Test

4.4.1 Position

4.4.2 Return Loss & VSWR



Frequency(MHz)	2400	2450	2500
Return Loss(dB)	-20.02	-18.48	-12.32
VSWR	1.23	1.31	1.63

4.4.3 Efficiency & Gain

Freq./MHz	Effi./%	Effi./dB	Gain/dBi
2400	58.30	-2.343	1.165
2410	56.55	-2.476	0.903
2420	52.60	-2.79	0.635
2430	56.77	-2.459	0.933

2440	59.35	-2.266	1.036
2450	55.98	-2.519	0.728
2460	49.81	-3.027	0.155
2470	48.54	-3.139	0.048
2480	49.44	-3.059	0.156
2490	47.28	-3.253	0.335
2500	44.48	-3.519	0.125

4.4.4 2D Report

