

VLG TECHNOLOGY

ShenZhen VLG Wireless TECHNOLOGY CO.,LTD

Shenzhen Weiligu Wireless Technology Co., Ltd.

Acknowledgement

Client/Project Name	Anviz/UI2109-20	Frequency band	WIFI		
VLGPart Number	V1931-022-A-01	Version	R:A		
Radio Frequency	He Junsen	quality	Yu Hong	confirm	
structure	Shao Bing	PM	Zhang Huaijuan		
date	2024-7-10				
Customer Project Name	Customer project name: UI2109-20				
Part Number	Customer Project Part Number:				
Customer confirmation					
VLG Communication Technology					
R&D project customer satisfaction survey (customers please rate our R&D orPMA review of the management staff's work to urge us to serve better Serve you)					
RFTechnical Staff	☐ Satisfied	☐ Basically satisfied	☐ Dissatisfied		
Structural technicians	☐ Satisfied	☐ Basically satisfied	☐ Dissatisfied		
project management(PMManagement staff)	☐ Satisfied	☐ Basically satisfied	☐ Dissatisfied		
Description of the suggestion:					
Antenna picture:					

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Search **lead**

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1,Specification:The report mainly provides the test status of various electrical performance parameters of UI2109-20 WIFI-1 antenna.

2400~2500MHz frequency band.

2, Electrical performance

2.1Specifications

The working frequency of WIFI antenna is 2400~2500MHz frequency band, the following table is the passive performance test indicators of the antenna.

2.2Antenna matching circuit:

No tuning match added

2.3antennaVSWR

2.3.1Test setup

VSWRThe connections of the test device are as follows:8714ET Network Analyzer → 50Ohm's CoaxialCable → Test fixture.

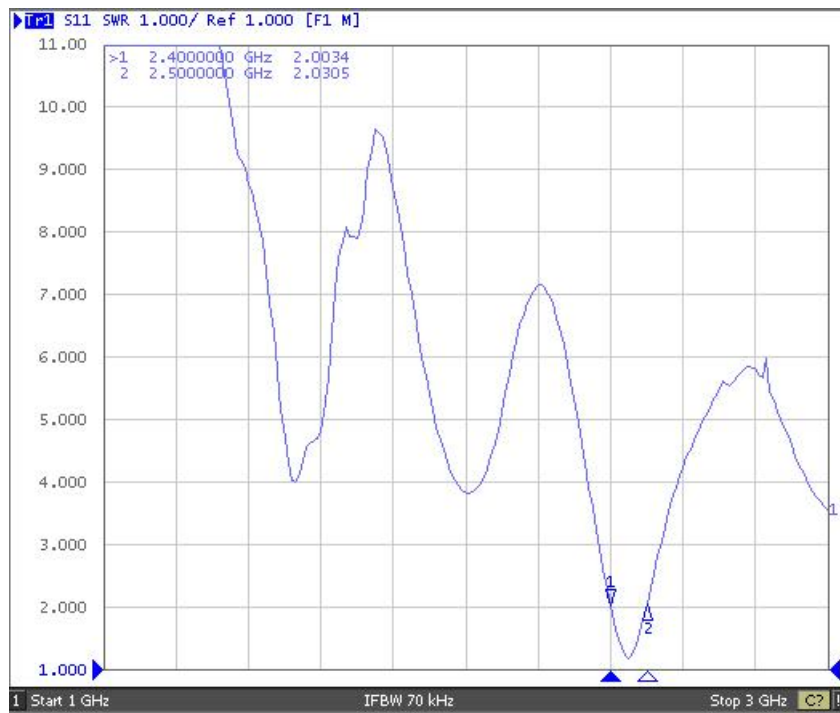
Test fixture processing: antenna50A cable is used to lead out the ohm test pointSMACconnect the joint to the copper tube with the choke, and then

Connect other devices one by one.

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2.3.2antennaVSWR:



2.4Passive test data:

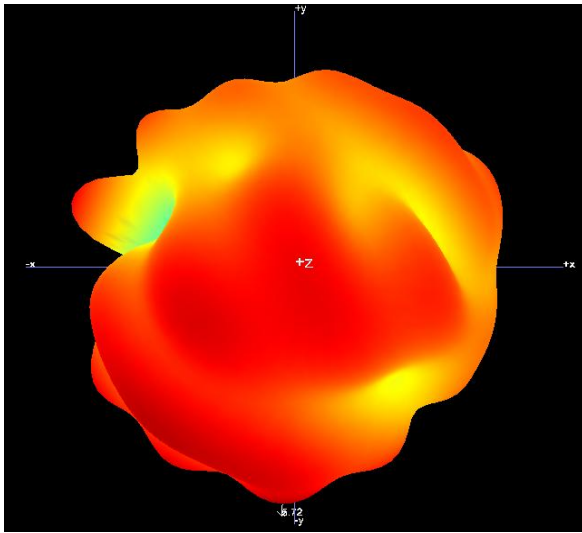
Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	60%	-2.2	4.9
2410	62%	-2.1	5.0
2420	64%	-2.0	5.1
2430	65%	-1.8	5.1
2440	66%	-1.8	5.1
2450	64%	-2.0	5.1
2460	66%	-1.8	5.2
2470	65%	-1.9	5.1
2480	65%	-1.8	5.1
2490	66%	-1.8	5.1
2500	63%	-2.0	5.0

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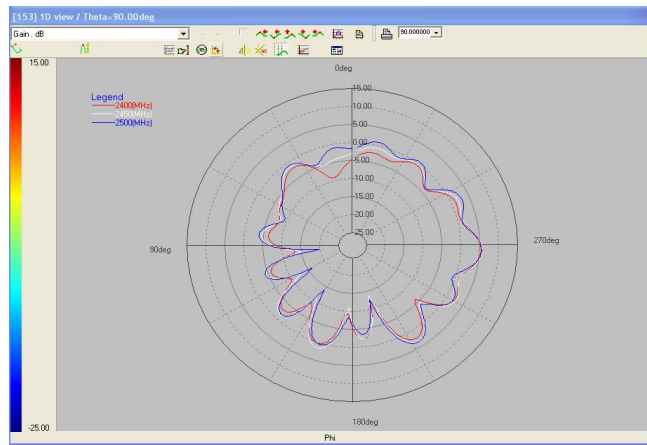
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2.5 Antenna pattern:

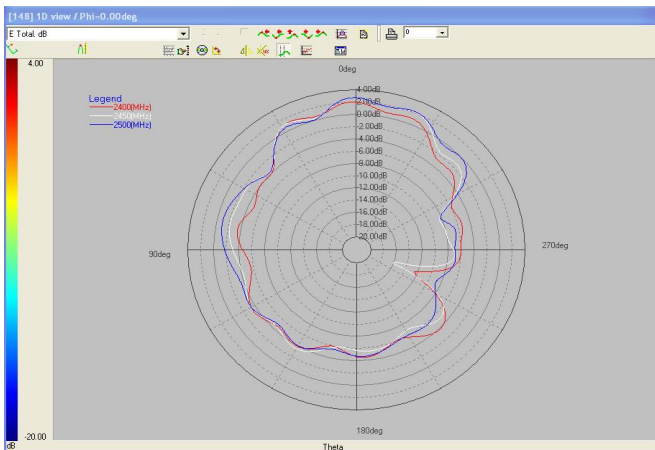
2450MHz



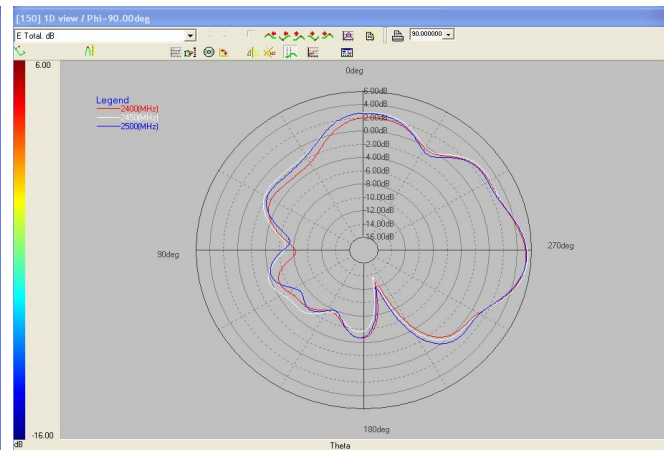
Hnoodle



E1noodle



E2noodle



3, Suggestions and Conclusion

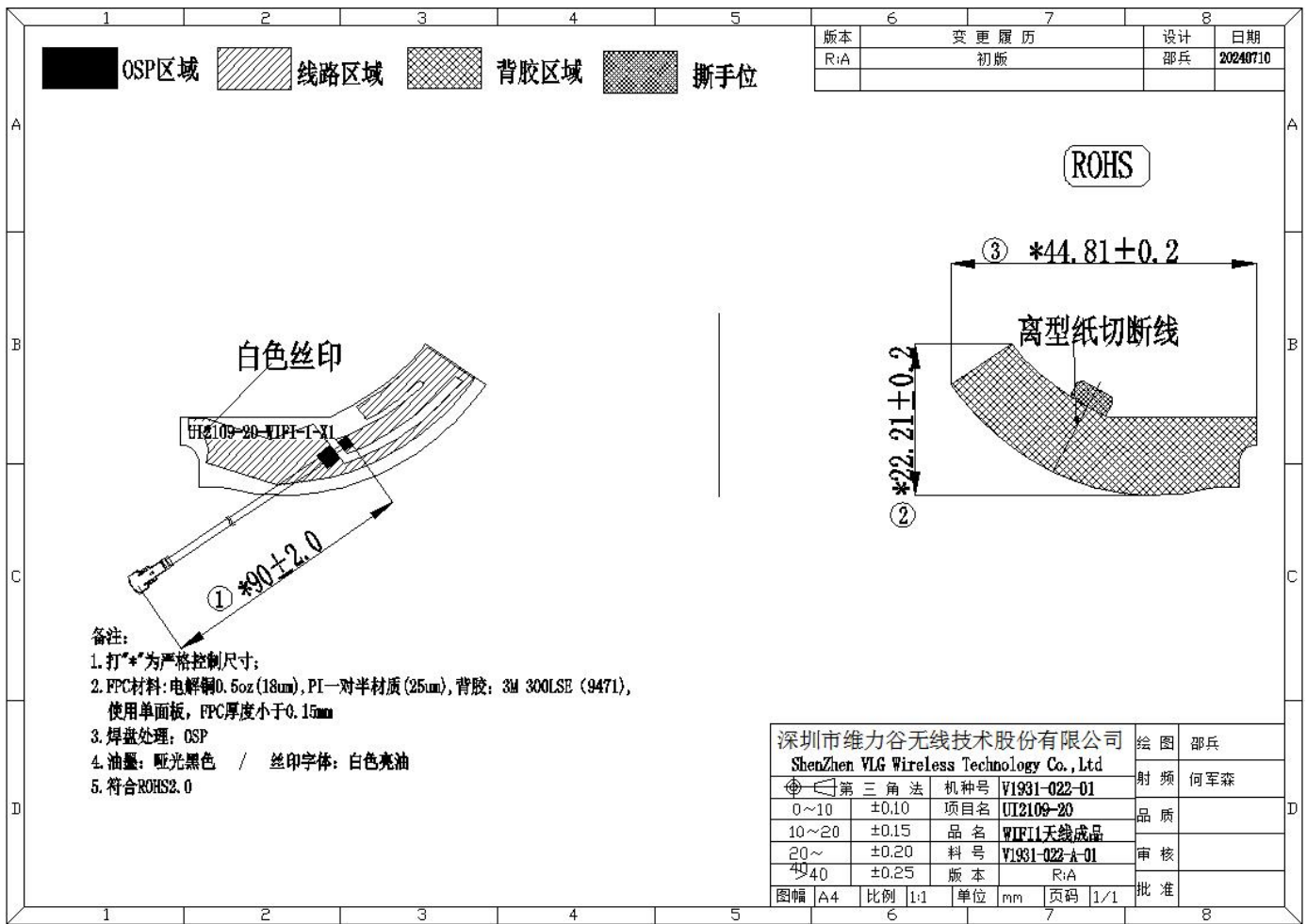
This report is based on the electrical performance of the final version of the UI2109-20 WIFI-1 antenna provided by the customer. From the above test data, we can see that this antenna provides good electrical performance.

Weilligu R&D looks forward to your confirmation, thank you for your cooperation!

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4product2Dpicture:



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Sample size inspection report (FAI)

Customer Name	Anviz	Product Name	UI2109-20	Product type	WIFI DAYS Wire
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Supplier Name		/		Product Number		V1931-022-A-01		Inspector member		Yu Hong	
Drawing version		A		unit		mm		Inspection day Expect		04/19	
sequence Number	Detection items Order	Testing standards		Actual measurement size					Judgement	Detection	hole
				1	2	3	4	5	Certainly	instrument	Number
1	Appearance	See the appearance of bad phenomenon Description		OK	OK	OK	OK	OK	OK	Order	Note
picture Paper ruler inch	★	90.00	±	2.0	90.90	90.87	90.88	90.91	90.99	OK	PM
	★	22.21	±	0.20	22.25	22.29	22.28	22.20	22.22	OK	PM
	★	44.81	±	0.20	44.81	44.83	44.81	44.74	44.73	OK	PM
The following blank											
Final Verdict: OK ☒ NG ☐											

Abbreviations of testing instruments: PG—plug (round hole) gauge, RG—R gauge, SG—block gauge, LG—ring gauge
 — Digital Caliper PM — 2D Coordinate Projector
 Version:A.0
 Form No.:VLG/QRF8.2-28/A.0
 Inspection: Jiang Tao Audit: Approved by: Yu Hong DC