

VLG TECHNOLOGY

ShenZhen VLG Wireless TECHNOLOGY CO.,LTD

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Shenzhen VLG Wireless Technology Co., LTD

Acknowledgment

Customer/project name	An Wei Shi/UL2505-16			Frequency band	WIFI(2400-2500MHz)		
VLG P/N	V1931-029-A-01			Version	R:A		
RF	He Jun Sun	Confirm		Quality	Yu Hong	Confirm	
Structure	He Fa Rong			PM	Yu Wei		
Date	2026-1-21						
Customer project name and P/N	Customer project name: UL2505-16						
	Customer project P/N:						
Customer Confirmation							
VLG Communication Technology							
R&D Customer satisfaction survey of R&D projects (Customers please comment on the work of our R & D or PM management staff and urge us to better serve you)							
RF technician	☐ satisfaction		☐ be basically satisfied		☐ Dissatisfaction		
Structural technician	☐ satisfaction		☐ be basically satisfied		☐ Dissatisfaction		
Project Management (PM Manager)	☐ satisfaction		☐ be basically satisfied		☐ Dissatisfaction		
Description of suggested items:							
ANT Picture:							
							

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Design Specifications	Typical	Units
Antenna form	FPC+CABLER	
working Frequency	2400-2500	MHz
Gain	≤ 4.0	DBi
Antenna efficiency	40-52	%
VSWR	≤ 3	
Ploriaztion	Line polarization	
Axial Ratio	/	N/A
Radiation pattern	all-around	
impedance	50 ohm	
Power handling	/	
Interface	MHF III	
Overal dimensions	40.18*22.03MM	
Weight	No requirement	
Operatin Temp	-30 ~ 85	
Storing Temp	-30 ~ 70	

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UL2505-16 WIFI Antenna Specification

1、Specifications: The report mainly provides the test status of the electrical performance parameters of the UL2505-16 WIFI antenna. WIFI antennas are in the 2400~2500MHz band.



2、Electrical Specification

2.1 specification standard

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

2.2 Antenna matching circuit:

No tuning match added

2.3 ANT VSWR

2.3.1 Test setup

VSWR The test device is successively connected as: 8714ET:network analyzer→50 Ω coaxial

Cable→→**Test Fixture**

Treatment of test fixture: a cable is used to lead out the SMA connector at the 50 ohm test point of the antenna, which is connected with the copper tube with a choke, and then connected to other devices in turn.

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2.3.2 ANT VSWR:



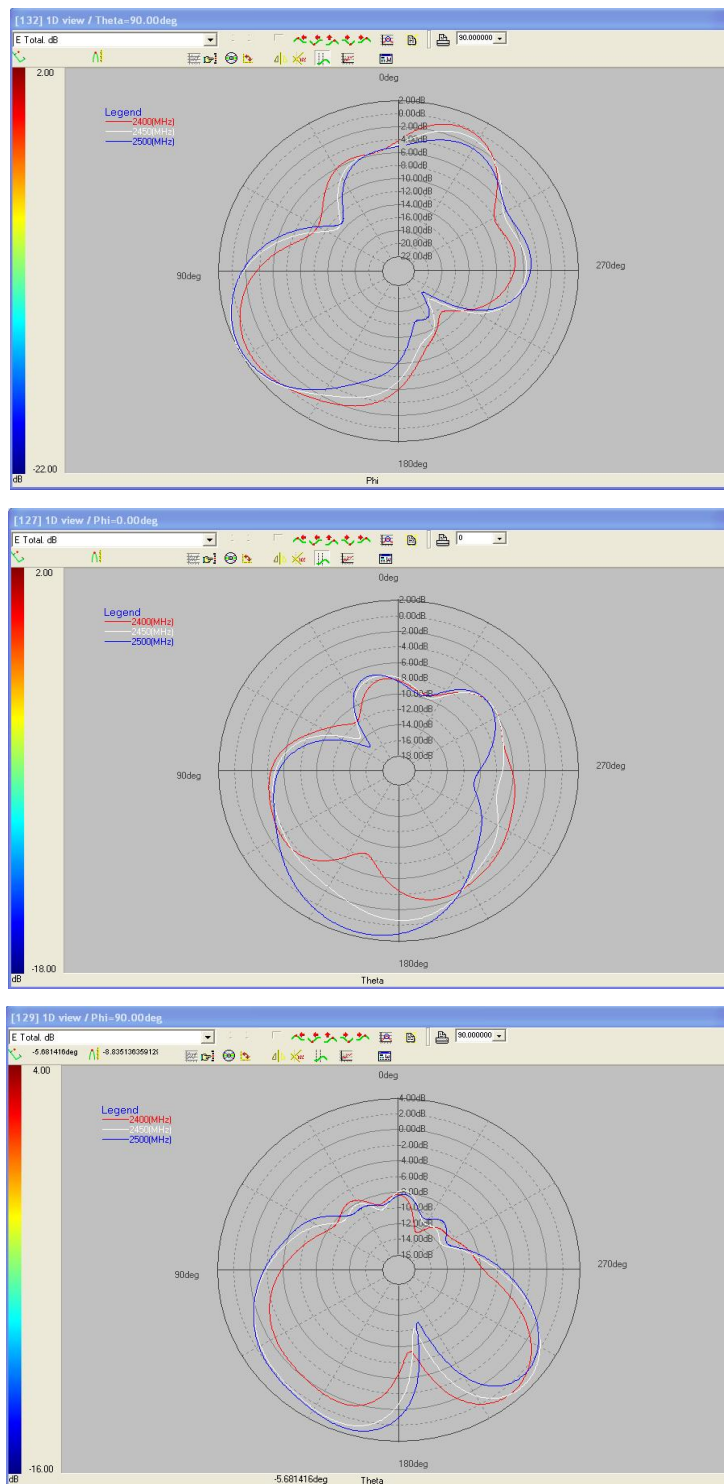
2.4 Passive test data:

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	44%	-3.5	3.1
2410	45%	-3.4	3.3
2420	46%	-3.4	3.4
2430	48%	-3.2	3.3
2440	50%	-3.0	3.3
2450	50%	-3.0	3.5
2460	51%	-2.9	3.5
2470	51%	-2.9	3.4
2480	49%	-3.1	3.5
2490	46%	-3.4	3.8
2500	43%	-3.7	3.6

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2.5 Antenna Radiation Pattern



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2.6 active data

	TRP (1M)		TIS (11M)	
11b	1	16.88	1	-83.21
	7	16.25	7	-83.19
	13	15.51	13	-83.09

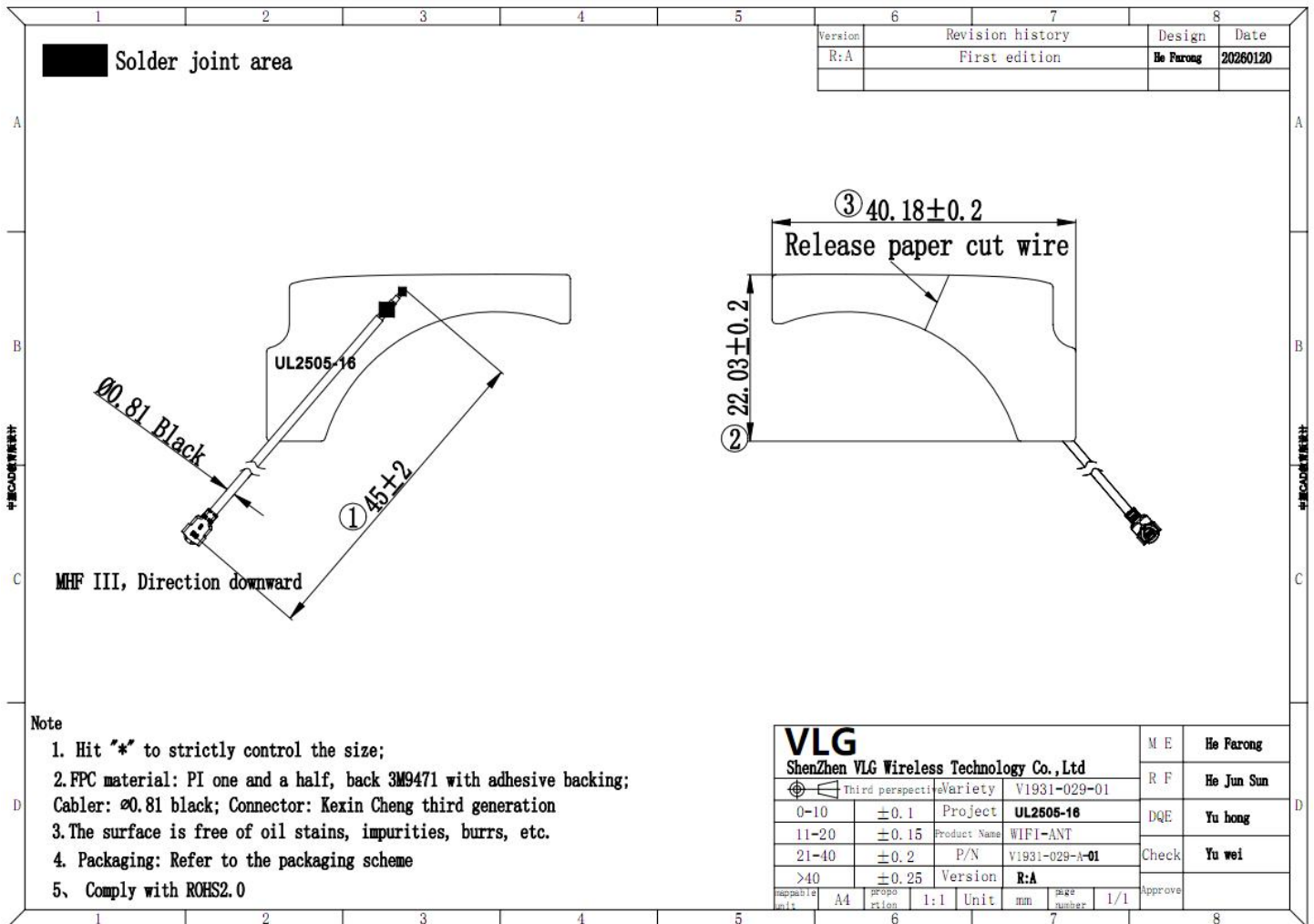
3、Recommendations and conclusions

This report is based on the electrical performance of the final version of the UL2505-16 WIFI antenna supplied by the customer. As can be seen from the above test data, this antenna provides better electrical performance. VLG R & D staff look forward to your confirmation, thank you for your cooperation!

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4、 Product 2D Drawing:



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5、 Dimension Measurement Report:

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Sample size inspection report (FAI)

Customer name		An WeiShi		Product Name		UL2505-16		Product type		WIFI antenna					
Supplier Name		/		P/N		V1931-029-A-01		Inspectors		Yu Hong					
Drawing version		A		Unit		mm		Inspection date		2026.01.21					
Serial number	Inspection items	Testing standard				Actual measured dimensions					Judgment result	Testing instrument	Acceptance name	Remarks	
						1	2	3	4	5					
1	Appearance	See a brief description of the appearance defects				OK	OK	OK	OK	OK	OK	Visual inspection			
Drawing dimensions			45	±	2	45.52	44.96	45.31	45.28	45.43	OK	DC			
			22.03	±	0.20	22.01	21.99	22.04	22.01	22.02	OK	DC			
			40.18	±	0.20	40.15	40.17	40.16	40.20	40.19	OK	DC			
final determination: OK ☒ NG ☐															

The abbreviations of the testing instruments are as follows: PG - plug (round hole) gauge, RG - R gauge, SG - block gauge, LG - ring gauge, DC - digital caliper, PM - Two-dimensional coordinate projector
 Version: A.0

Form number: VLG/QRF8.2-28/A.0

Inspection: Jiang Tao

Review:

Approval: Yu Hong

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