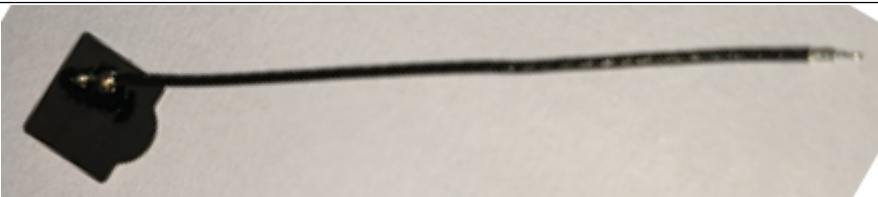


VLG TECHNOLOGY

Shenzhen VLG Wireless Technology Co.,Ltd

Specification for approval

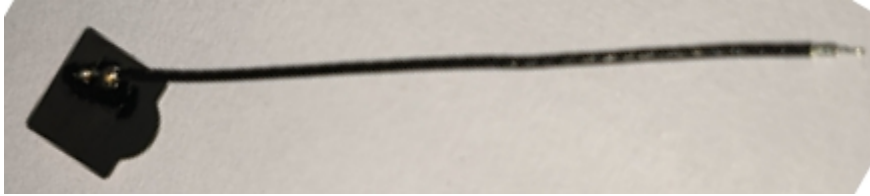
Model Name	IF4			Frequency band	2400MHZ-2500MHZ		
VLG P/N	V2066-003-A-01			Version number	A		
RF engineer	You yan li	verify		Quality engineer	Yu hong	verify	
Structural engineer	He fa rong			PM	Bai feng lian		
Date	2023-11-9						
Customer project Name part number	Customer project name:						
	Customer item number:						
Customer confirmation							
RF engineer				Quality engineer			
Structural engineer				PM			
Date							
Customer satisfaction survey (Customers please comment on our research and development or PM management staff to urge us to better serve you)							
RF engineer	☐ satisfaction		☐ Basic satisfaction		☐ dissatisfy		
Structural engineer	☐ satisfaction		☐ Basic satisfaction		☐ dissatisfy		
PM	☐ satisfaction		☐ Basic satisfaction		☐ dissatisfy		
Suggestion statement:							
Antenna picture:							

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1、Antenna picture

This report is the RF report of IF4, The antenna is a single frequency antenna, The antenna is made of FPC+Wire rod Make up.



2、antenna test environment

Antenna test equipment

4.1 antenna passive test environment

The efficiency of the antenna was measured in the VLG Communication Technology anechoic chamber. SATIMO Star lab: Frequency bands 800MHz—6GHz. The measurement results are calibrated using both dipole and leaky wave horn standards

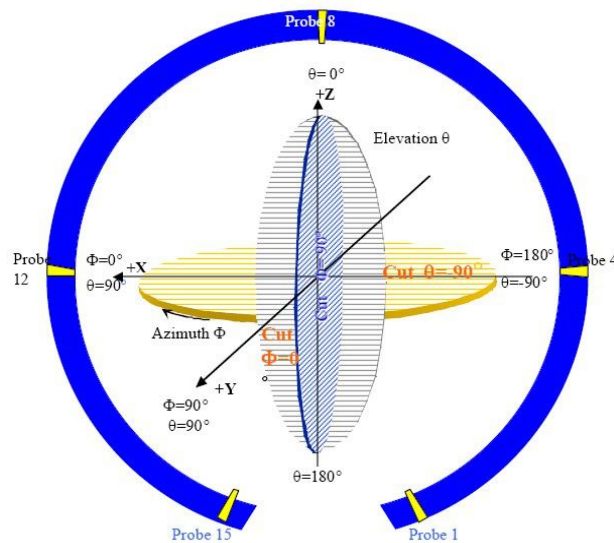


Figure.4.1 SHEN ZHEN VLG chamber system

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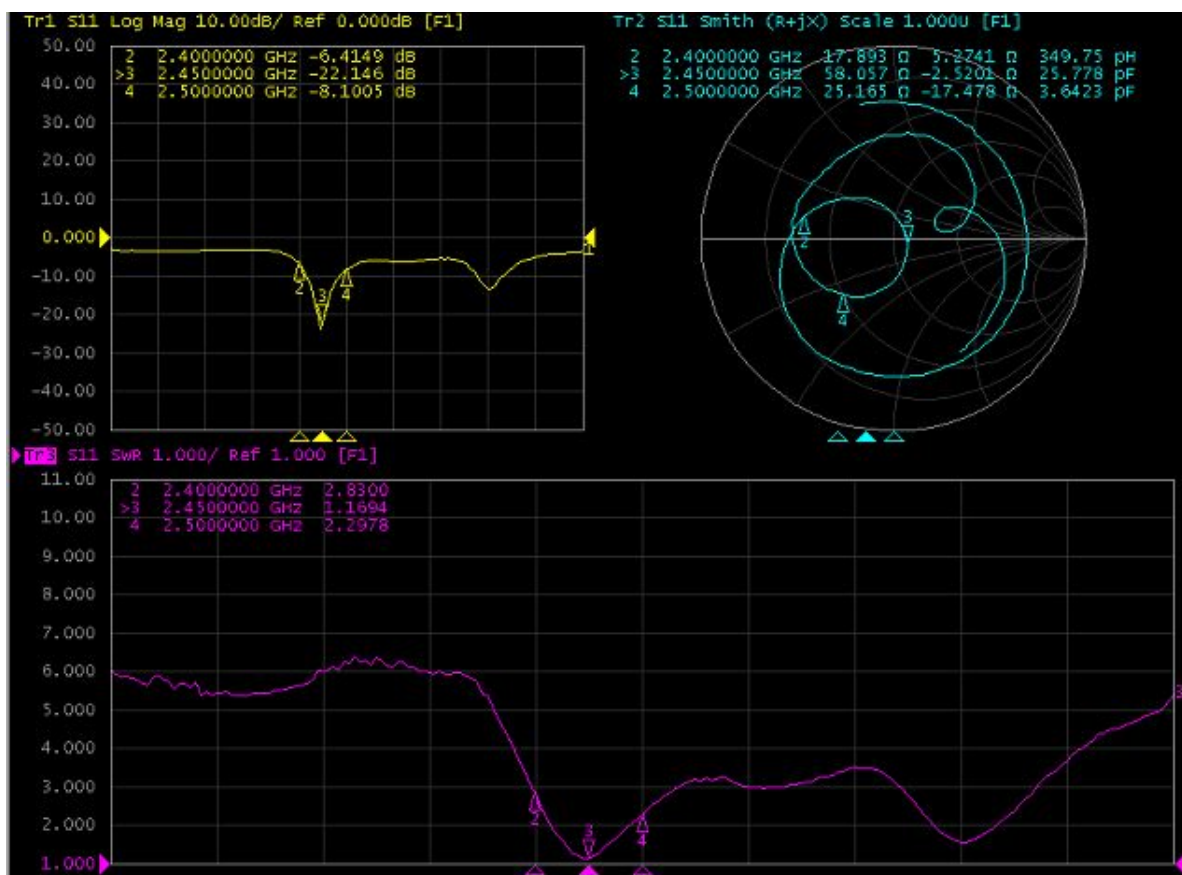
3、Matching circuit

Customer origin matching

4、Electrical performance

4.1 S11 argument:

(Return loss) 、 (Smith chart) 、 (VSWR)



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4.2 Efficiency

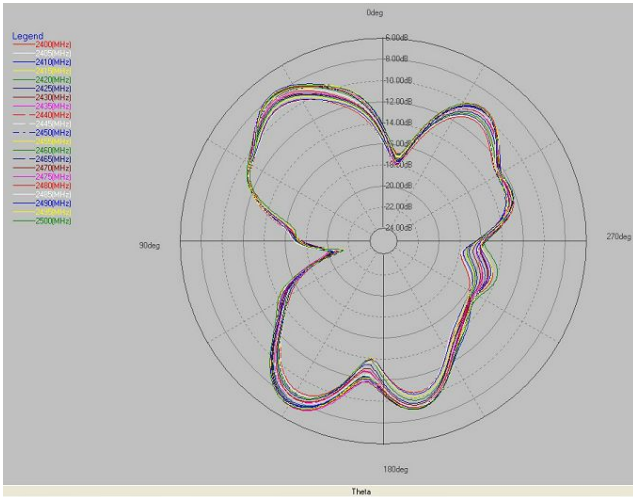
Frequency (MHZ)	Efficiency (%)	Efficiency . dB	Peak_Gain . dBi
2400	4%	-13.88	-7.97
2405	4%	-13.70	-7.91
2410	4%	-13.55	-7.67
2415	5%	-13.42	-7.61
2420	5%	-13.25	-7.58
2425	5%	-13.04	-7.41
2430	5%	-12.85	-7.22
2435	5%	-12.68	-7.09
2440	5%	-12.69	-7.22
2445	8%	-11.24	-7.17
2450	8%	-11.17	-6.91
2455	8%	-11.08	-6.61
2460	6%	-12.37	-6.72
2465	6%	-12.29	-6.81
2470	6%	-12.24	-6.80
2475	6%	-12.20	-6.56
2480	6%	-12.19	-6.54
2485	5%	-12.99	-6.74
2490	5%	-12.91	-6.84
2495	5%	-12.87	-6.60
2500	5%	-12.87	-6.52

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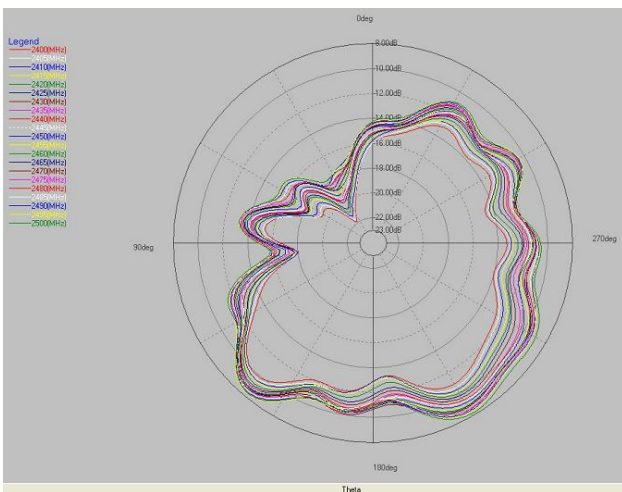
VLG Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of VLG Communication Technology.

4.3 Radiation Pattern:

E1 Plane:



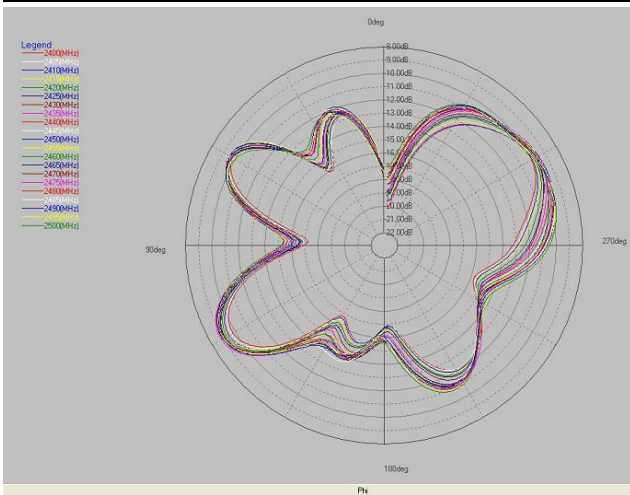
E2 Plane:



H Plane:

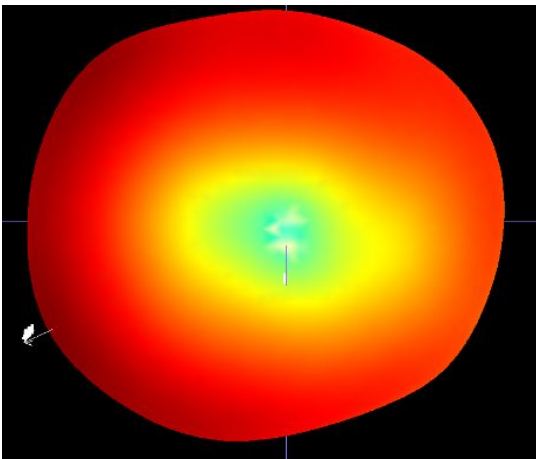
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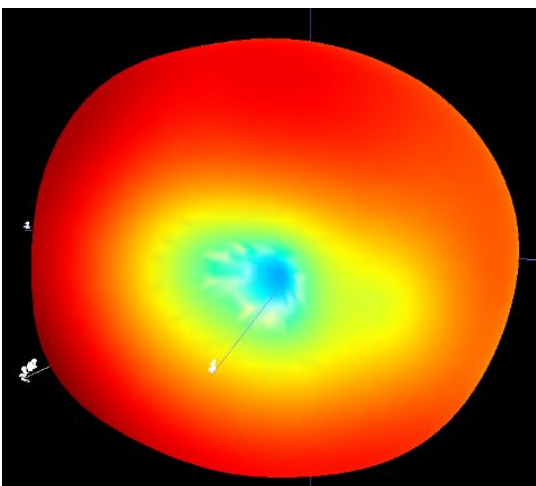


4.4 Antenna 3D

2400



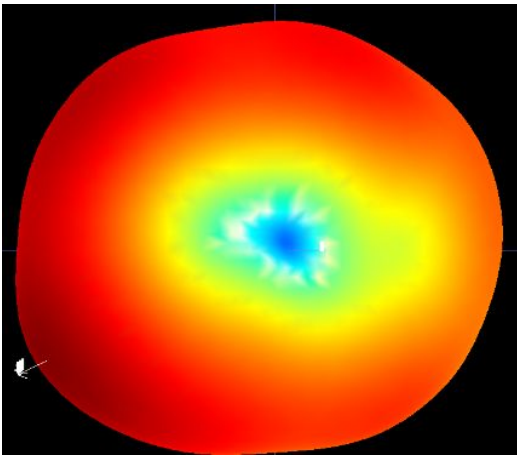
2450



2500

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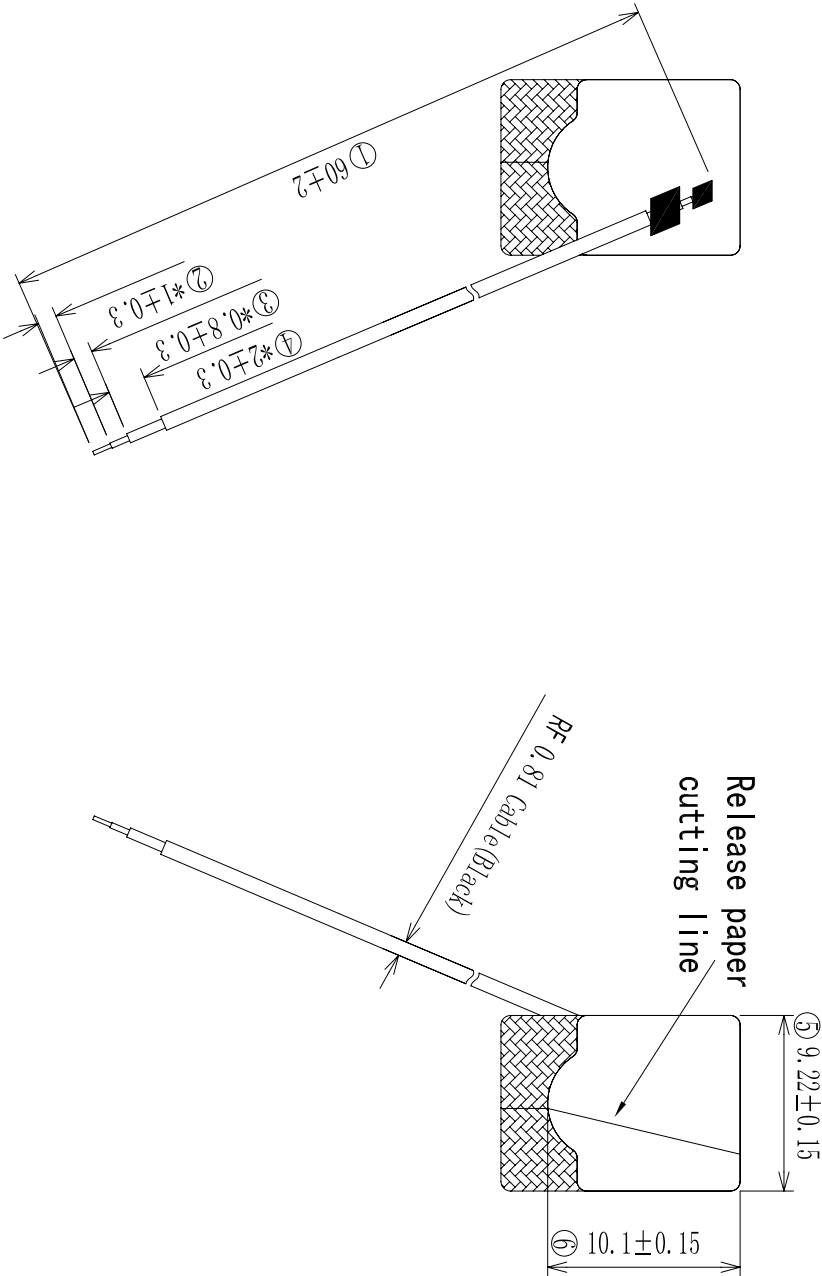
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Version	Modification content	Design	Date

**Solder**

**Release paper hand
tear position**



- 注:
- 1、Hit “*”for strict control size(required grade A)
 - 2、other design reference size grade C;
 - 3、No damage/scratches and other external defects;
 - 3、Need to pass the VLG quality department requirements of the test;
 - 4、Any material modification must be approved by the VLG R&D department in writing;

深圳市维力谷无线技术股份有限公司					Draw		何发荣
ShenZhen VLG Wireless Technology Co., Ltd					RF		张燕明
	Third corner method	Breed	V2066-003-01		quality		李林
0~10	± 0.10	Project	IF4				
11~20	± 0.15	Name	IF4 antenna				
21~40	± 0.20	P/N	V2066-003-A-01		Examine		王成
>40	± 0.25	Version		R:A			
Sheet	A4	Ratio	1:1	Unit	mm	Page	1/1
Approved					廖兴永		