

		合肥润东通信科技股份有限公司		Form Number	RD-PR-F006
				Version	A0
File category	Four -level file	Sample test report		Page Number	1/11

SAMPLE FOR APPROVA

SUPPLIER	ShenZhen KeeSun Technology Co.,Ltd			
R A R T N A M E	2.4~2.5GHz/5.15~5.85GHz 3dBi PIFA Antenna	CATEGORY	PIFA Antenna	
DESCRIPTION	KS053-30010-A	SAMPLE CODE	RD-21-00422	
REVISION	X1	DATESUBMITTED	2024. 1. 30	

Client		Controller		
Client confirmation	Approve	Quality	Project	Sale
		Miaoyan Wu	Haibin Liao	Chenglan Liu
Date:		Date:		

Limited company (stamping)

Address:	Room 401, 4th Floor, Building B, HaiweiJingsong Industrial Zone, Heping CommunityFuhai Street, Baoan District, Shenzhen City.			
Contact:	Chenglan Liu	Web:	www.keesun123.com	

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Product Spec

●Electrical Performance:

1. Frequency Range: 2.4~2.5 GHz/5.15~5.85 GHz
2. Lmpedance: 50 Ohms nominal
3. VSWR: ≤1. 92
4. Admitted power radlation: 1W
5. Radation of Radlation: Toroidal
6. Radiation: Omni
7. Polarization: Vertical
8. Connctor Type:

●Mechanical properties:

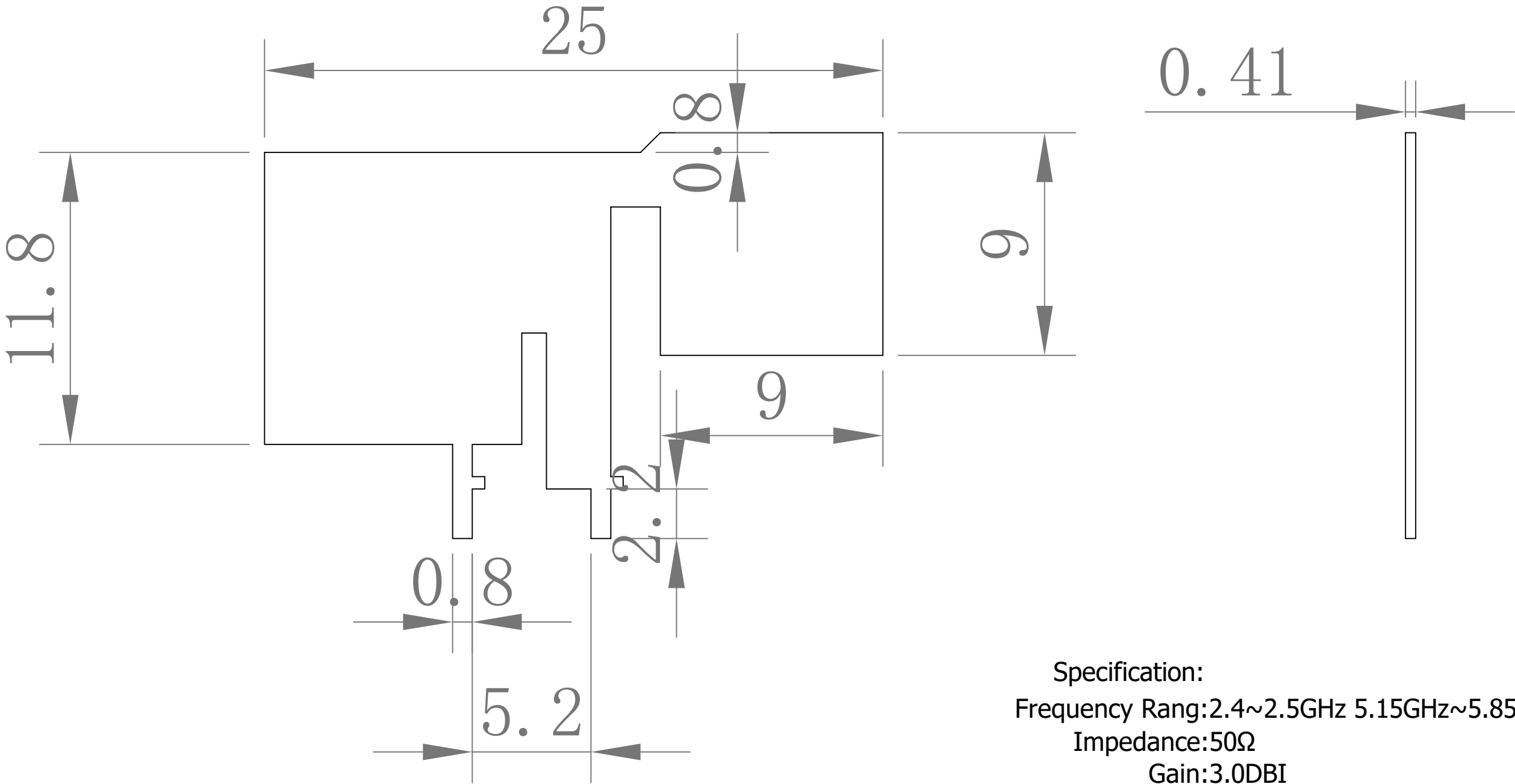
- 1.Material: sheet iron
- 2.Operating Temp.....-20~ ± 65
- 3.Storage Temp.....-30~ ± 75



Drawing

ROHS

REV.	Modify the content	Date
A	New version of the line	2019.05.25



Specification:
Frequency Rang:2.4~2.5GHz 5.15GHz~5.85GHz
Impedance:50Ω
Gain:3.0DBI

T=0.41

1	65 Brass	Plate 0.41T	1	
NO.	DESCRIPTION		Q'TY	REMARK

TITLE:		65 Brass		ShenZhen Keesun Technology Co.,Ltd			
P/N:							
CUSTOMER:		KS053					
DRAW NO.:		KS053-30010-A					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED						APPROVED	
一般公差 TOLERANCE		.XXX ±0.05	XX. ±1.0			SHEET: 1/1	SCALE: 1:1
		.XX ±0.1		UNIT: mm	REV.A	DRAWED	Julia
		.X ±0.2					
		X. ±0.5					

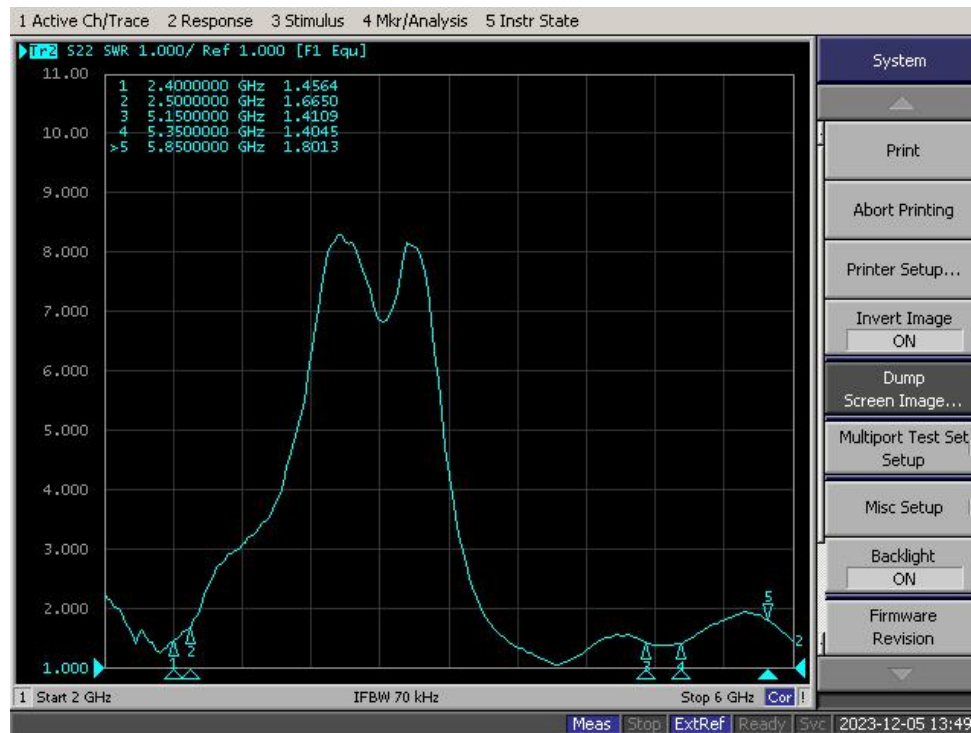


Testing Report

P/N:KS053-30010-A

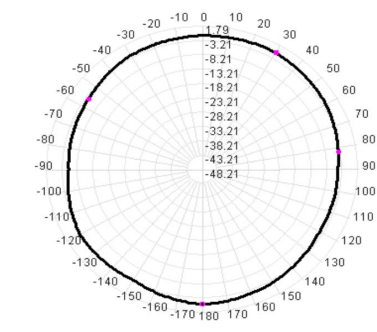
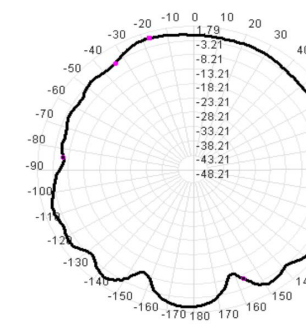
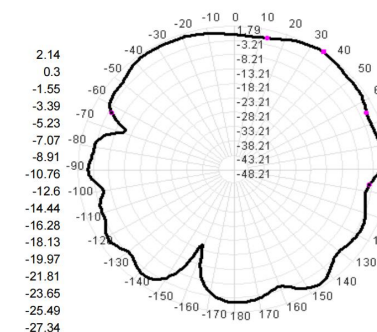
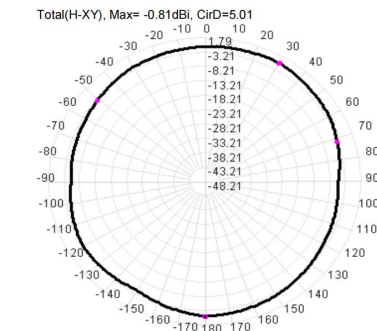
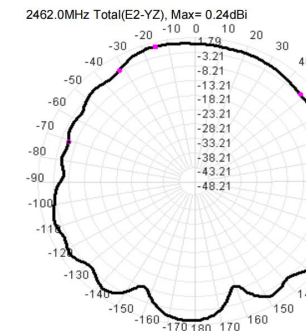
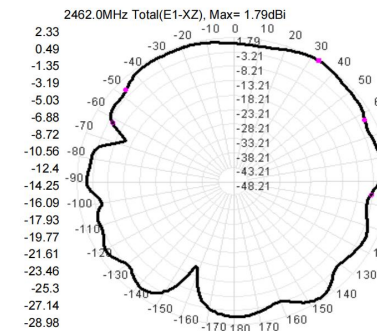
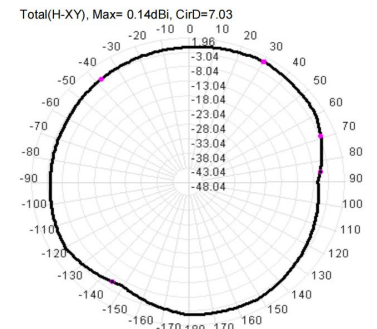
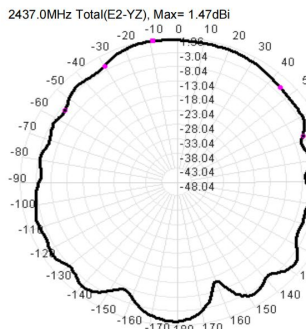
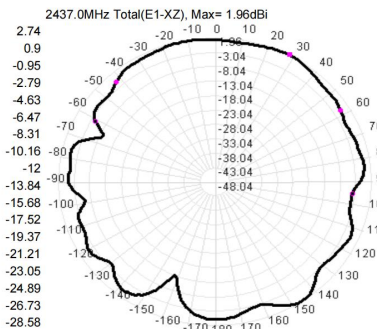
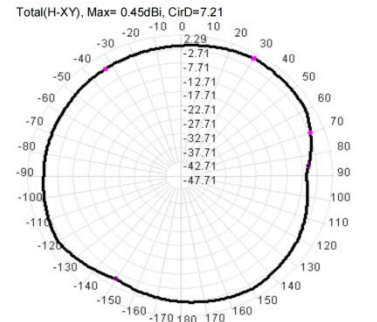
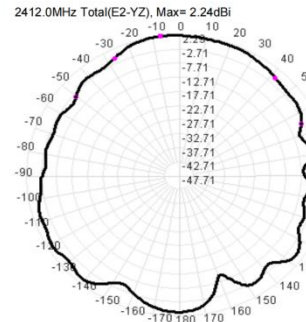
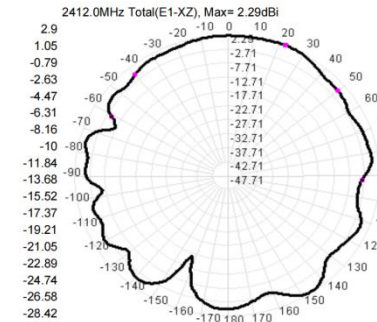
Product Spec:2.4~2.5GHz /5.15~5.85G 3dBi PIFA Antenna

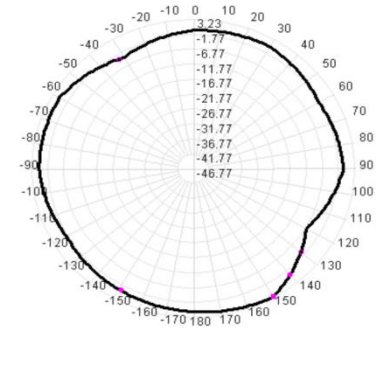
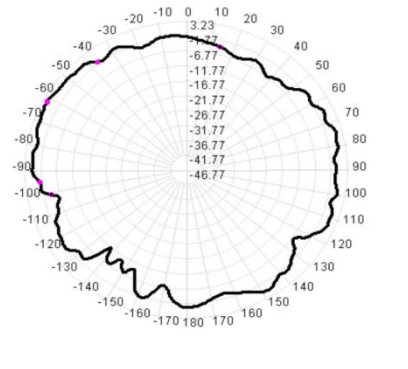
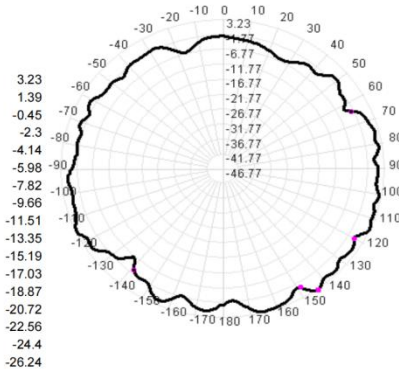
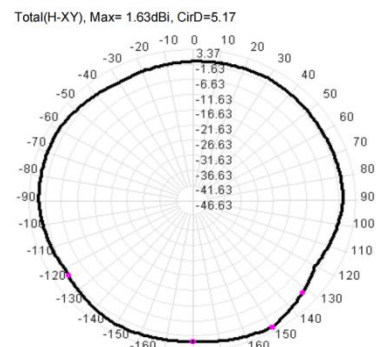
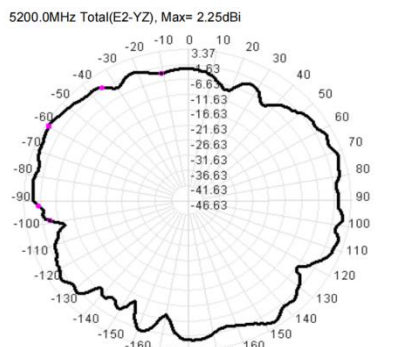
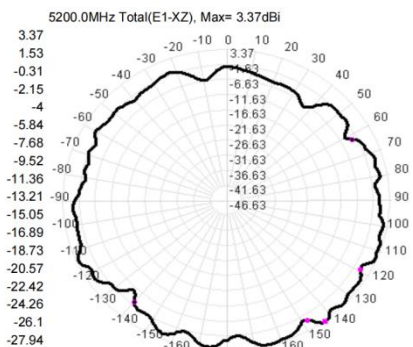
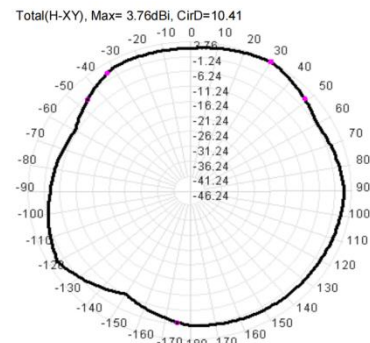
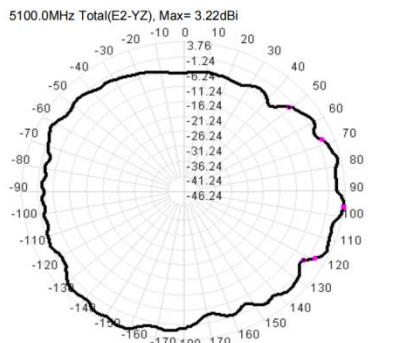
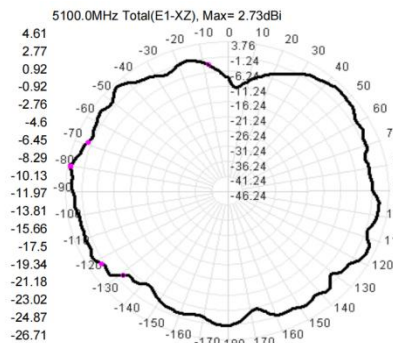
Test value:Return Loss/VSWR



Freq(MHz)	Gain (dBi)	Effi(%)
2412	2.9	56
2437	2.74	58
2462	2.33	57
5100	4.61	62
5200	3.37	63
5300	3.23	58
5400	2.81	66
5500	3.25	68
5600	3.87	67
5700	2.51	62
5800	2.63	59
5900	5.12	53

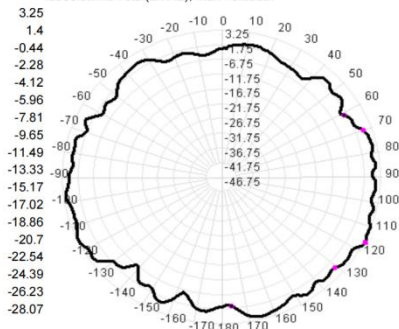
Antenna 2D Report(2.4&5.8GHz)



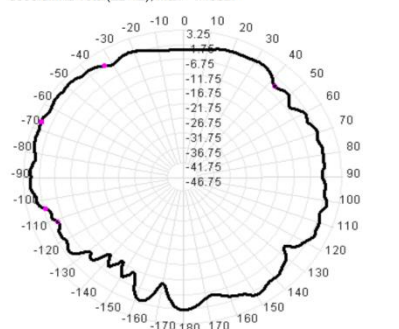




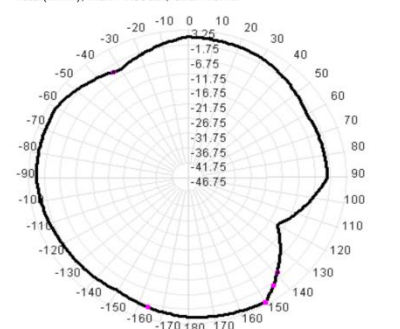
5500.0MHz Total(E1-XZ), Max= 3.25dBi



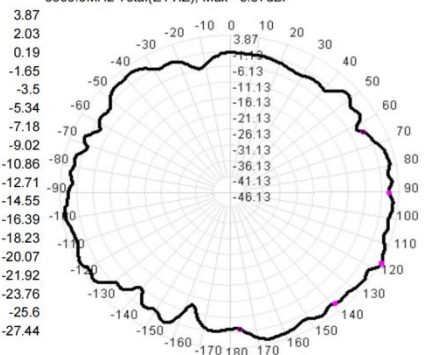
5500.0MHz Total(E2-YZ), Max= 1.40dBi



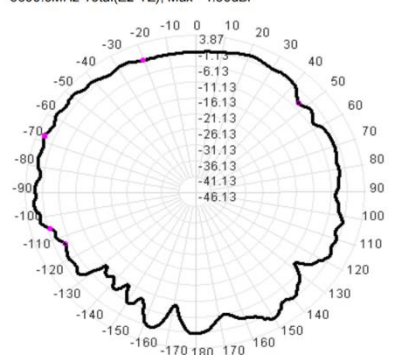
Total(H-XY), Max= 1.95dBi, CirD=16.44



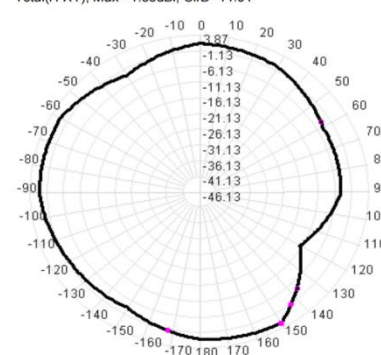
5600.0MHz Total(E1-XZ), Max= 3.87dBi



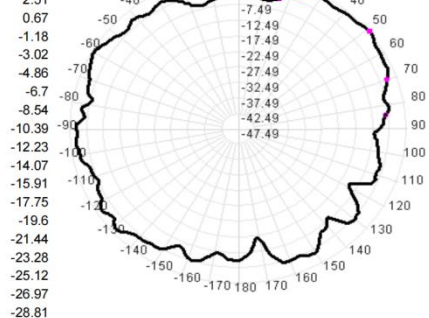
5600.0MHz Total(E2-YZ), Max= 1.50dBi



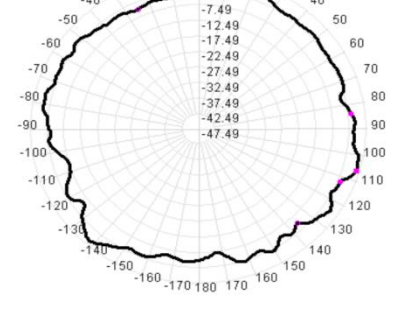
Total(H-XY), Max= 1.88dBi, CirD=14.01



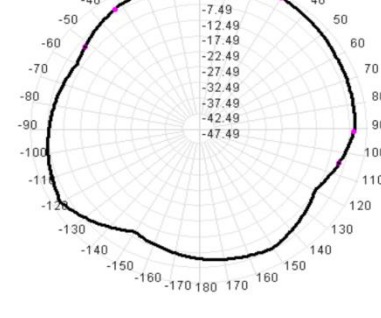
5700.0MHz Total(E1-XZ), Max= 2.51dBi



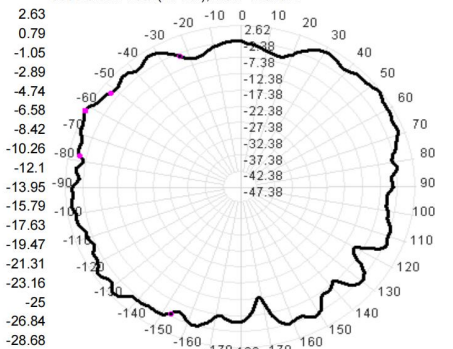
5700.0MHz Total(E2-YZ), Max= 2.51dBi



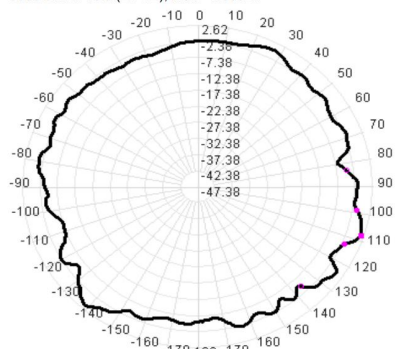
Total(H-XY), Max= 2.61dBi, CirD=14.01



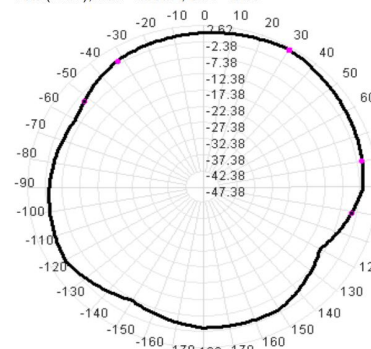
5800.0MHz Total(E1-XZ), Max= 2.62dBi



5800.0MHz Total(E2-YZ), Max= 1.35dBi



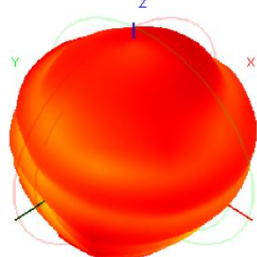
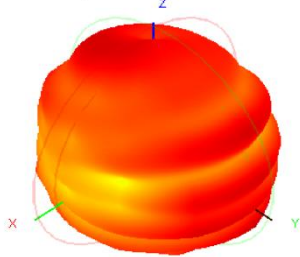
Total(H-XY), Max= 1.65dBi, CirD=10.50



Antenna 3D Report(2.4&5.8GHz)

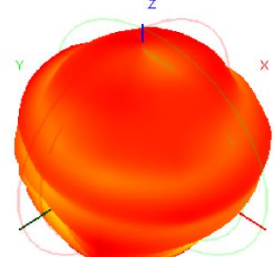
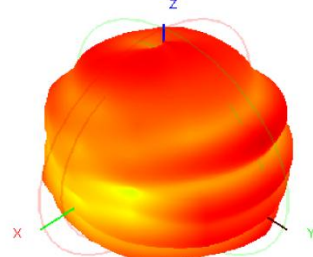
2412.0MHz H+V, Eff: 78.6%

Back View



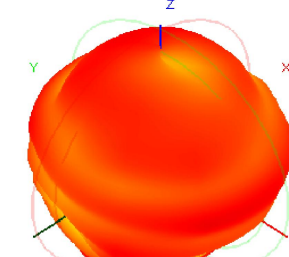
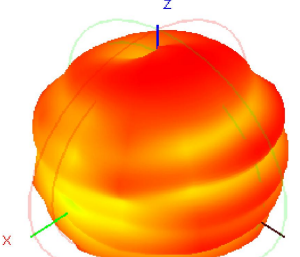
2437.0MHz H+V, Eff: 79.4%

Back View



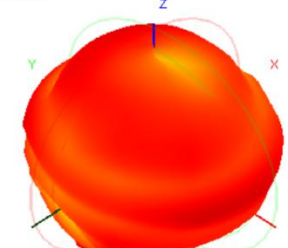
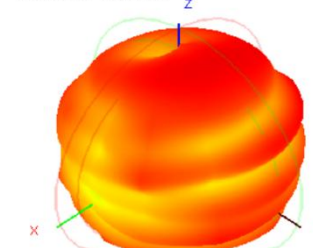
2462.0MHz H+V, Eff: 78.6%

Back View



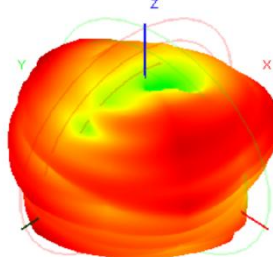
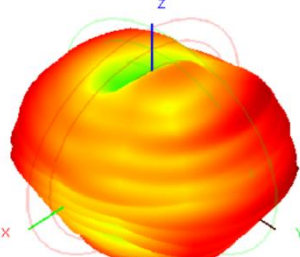
2472.0MHz H+V, Eff: 77.4%

Back View



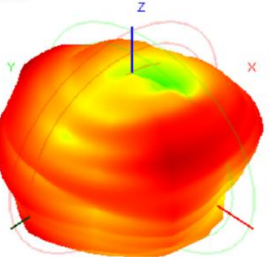
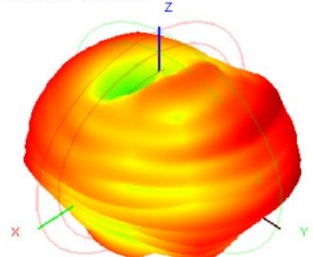
5100.0MHz H+V, Eff: 91.2%

Back View



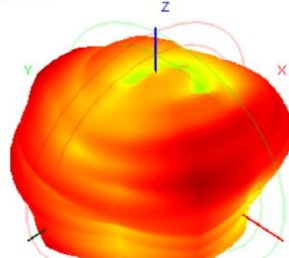
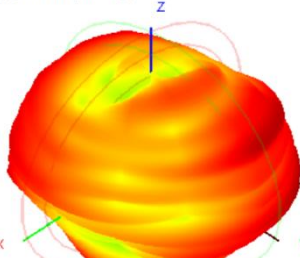
5200.0MHz H+V, Eff: 77.1%

Back View



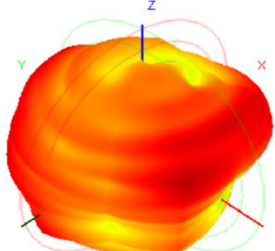
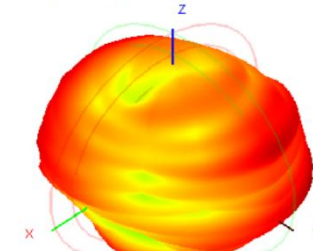
5300.0MHz H+V, Eff: 74.6%

Back View



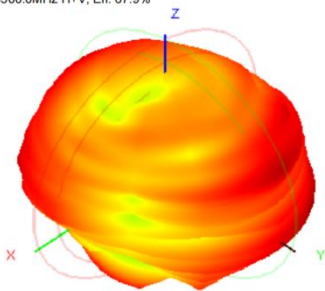
5400.0MHz H+V, Eff: 59.9%

Back View

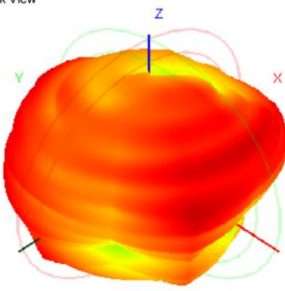


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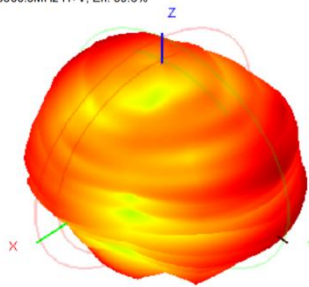
5500.0MHz H+V, Eff: 67.9%



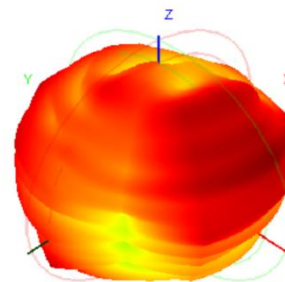
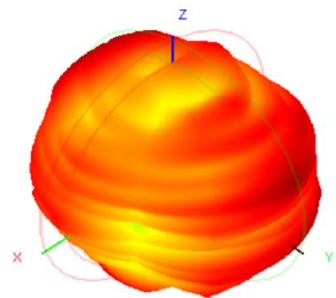
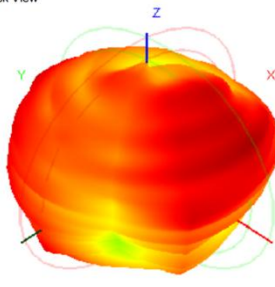
Back View



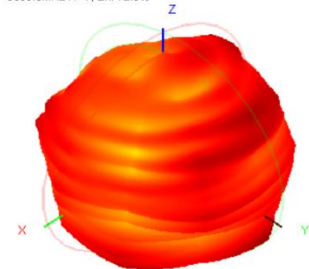
5600.0MHz H+V, Eff: 59.6%



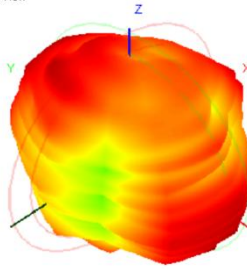
Back View



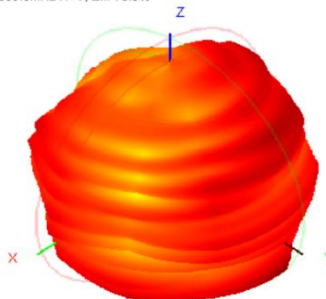
5800.0MHz H+V, Eff: 72.5%



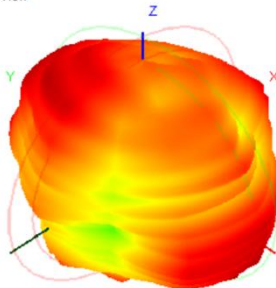
Back View



5900.0MHz H+V, Eff: 78.5%



Back View



  润东科技 RADIO TECHNOLOGY		合肥润东通信科技股份有限公司		Form Number	RD-PR-F006
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Standard parameter		
— Technical specification		
frequency	2.4~2.5GHz/5.15~5.85GHz	
S.W.R	≤1.92	
Gian	2.4G:2.9dBi 5G:3.87dBi	
Connerctor	/	
Impedance	50 Ohm	
二、Trust test		
Term	Test Conditions	SPEC
Storage environment	Test temperature, humidity, and air pressure as follows without specified: as follows: 1. The temperature is -30 ℃ ~+80 ℃ 2. Relative humidity is 45%-85% 3. Bad pressure is 86kPa-106kPa	Normal electrical mechanical performance
High and low temperature test	Perform 5 cycles between 70 ° C and 40 ° C, and then under normal conditions 1-2H, check the appearance quality.	The size should meet the regulations and meet the performance of machinery and electrical performance
Evergrodes of damp heat test	The relative humidity is 95 ± 3%, the test temperature: 40 ° C. After 2H,Electrical performance is determined within 5 minutes after the test product is removed. 1-2 hours under the piece, check the appearance quality	Size should meet the regulations and meet the performance of machinery and electrical performance
Vibration test Frequency	frequency range is 10-55Hz.	Normal electrical mechanical performance
Lajuli test	Test its tolerance with a push -tip forceometer test instrument: ≥ 10N	Normal electrical mechanical performance
Resistance	1. Insulation spark voltage 1.5kV 2. Sheath spark voltage 1.5kV 3. Insulation -to -sheeds to resist voltage 0.5KV	Normal electrical mechanical performance
Decline	2.0(nominal) 1.0GHz 2.9(nominal) 2.0GHz 3.2(nominal) 2.4GHz 3.7(nominal) 3.0GHz 4.3(nominal) 4.0GHz 4.8(nominal) 5.0GHz 5.3(nominal) 6.0GHz	3.3dB/m (at20℃)