



规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2024/09/20
编号 File No	24092002
版本 Revision	1.0

客户
CUSTOMER: 道通

客户料号
CUSTOMER NO: 501016136

品名
PART NAME: WIFI Antenna

供方料号
SUPPLIER NO: YJI01.005.107.302A

送样日期Date:

送样数量Q'TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

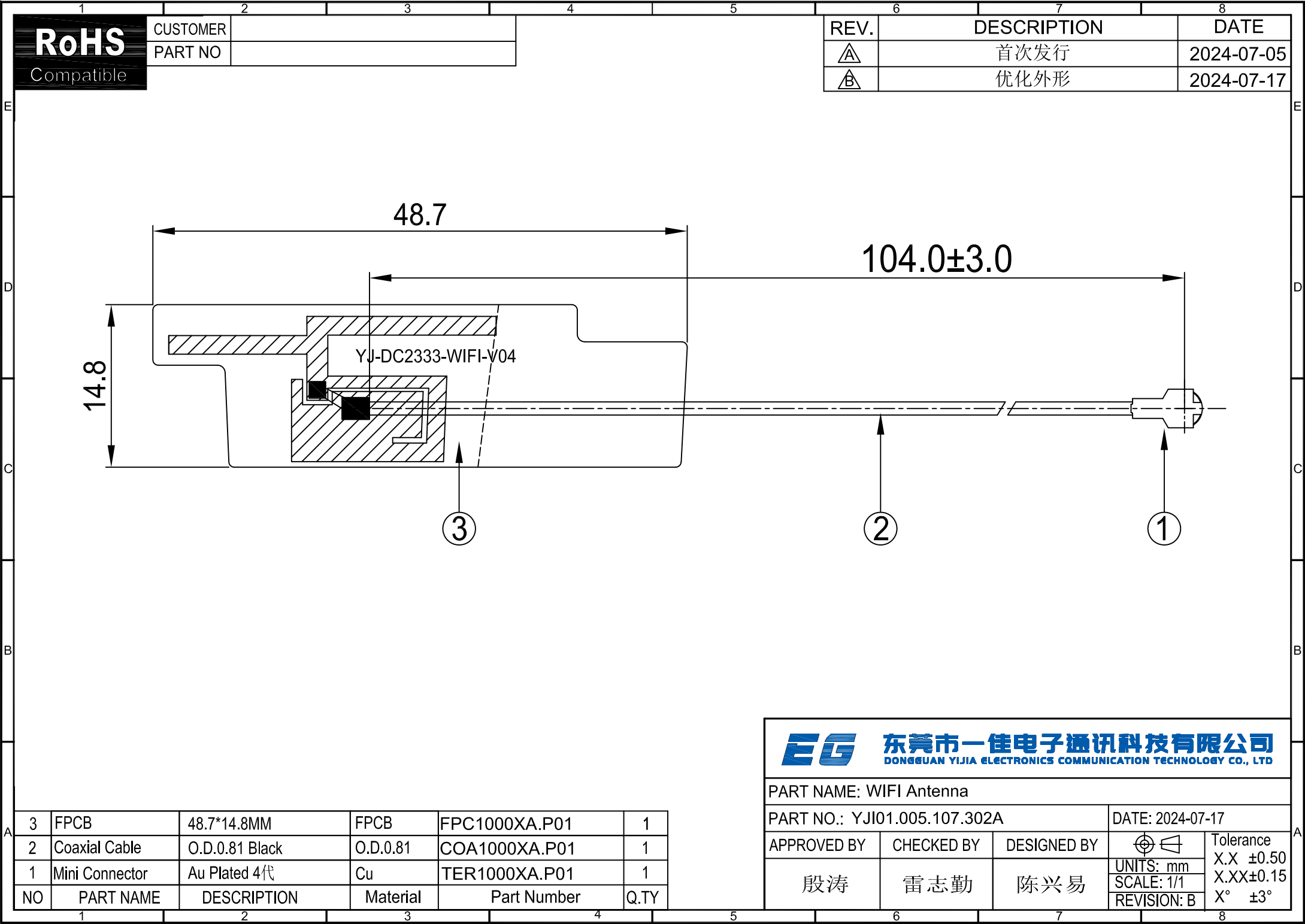




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RoHS
Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2024-07-05
B	优化外形	2024-07-17

3	FPCB	48.7*14.8MM	FPCB	FPC1000XA.P01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA1000XA.P01	1
1	Mini Connector	Au Plated 4代	Cu	TER1000XA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

EG 东莞市一佳电子通讯科技有限公司 DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD					
PART NAME: WIFI Antenna					
PART NO.: YJI01.005.107.302A				DATE: 2024-07-17	
APPROVED BY	CHECKED BY	DESIGNED BY	UNITS: mm SCALE: 1/1 REVISION: B		Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
殷涛	雷志勤	陈兴易			



天线规格 Antenna Specification

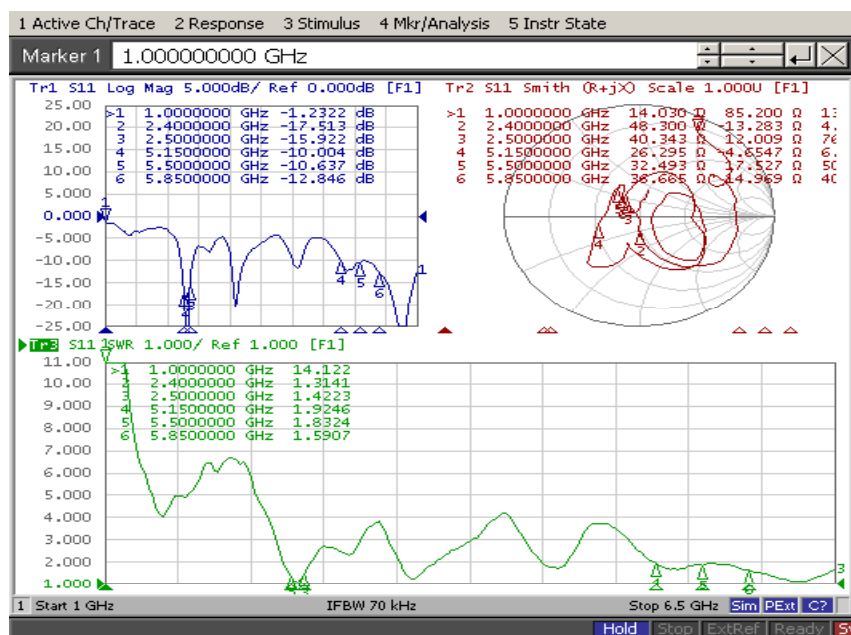
Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHZ
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.3 dBi@2.4-2.5GHz 2.1 dBi@5.15-5.85GHZ
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	4代IPEX
Cable Type	O.D.0.81mm
Cable Length	104mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%





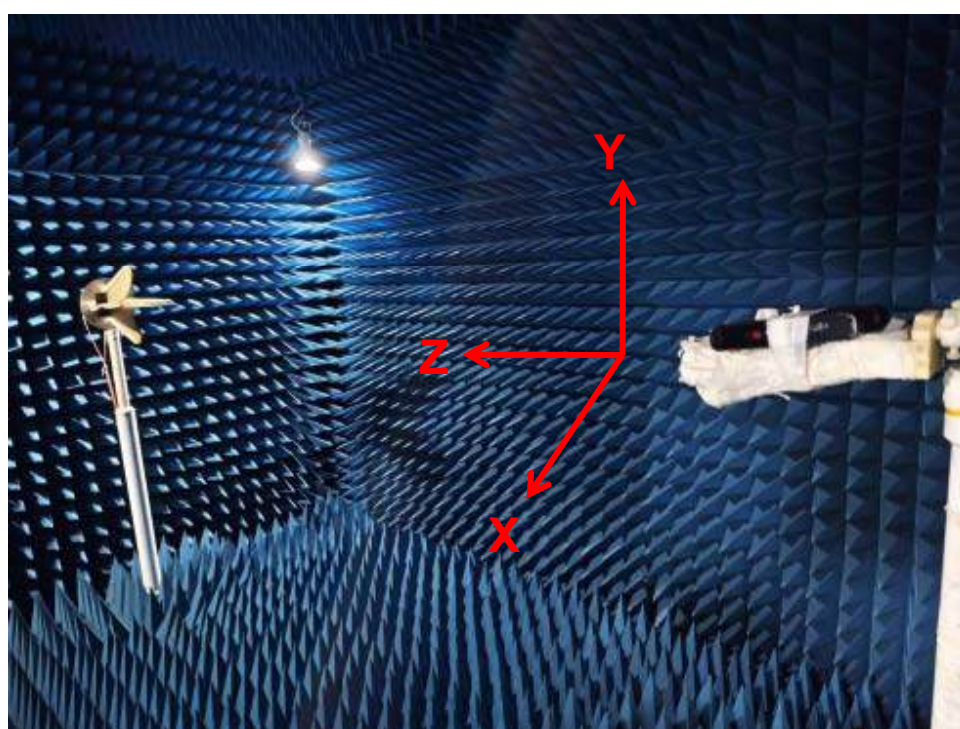
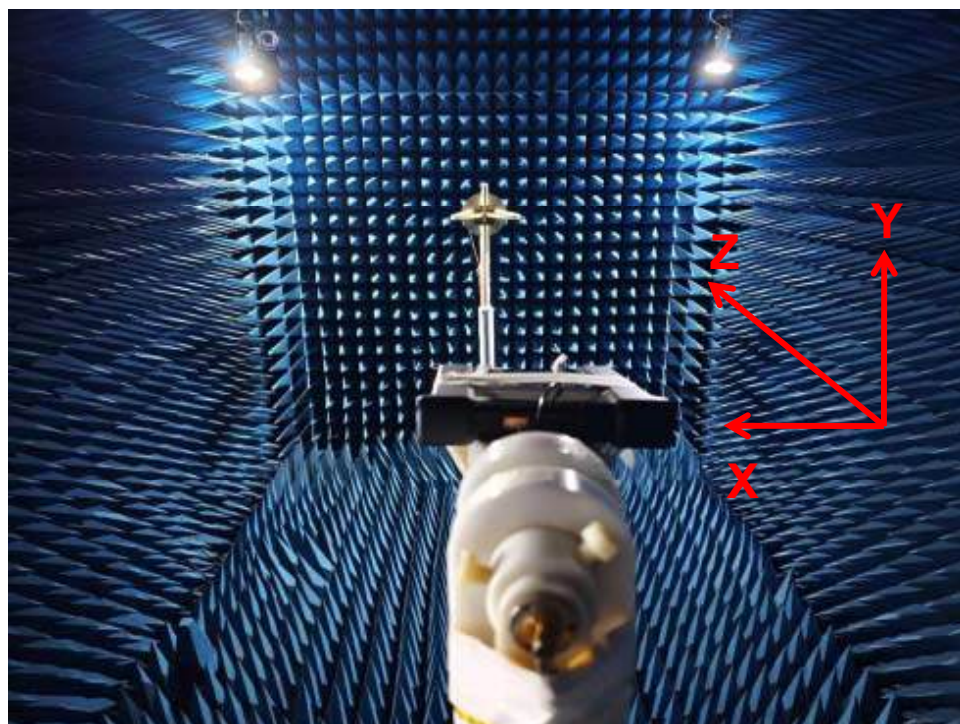
Antenna Performance Test

Agilent
E5071C
S
Parameter
Test //
WIFI
Antenna





Antenna Passive Test





Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	42.8	-3.6	2.1
2410	43.7	-3.6	2.5
2420	45.0	-3.5	2.6
2430	45.9	-3.4	2.7
2440	44.7	-3.5	2.8
2450	44.5	-3.5	3.0
2460	44.3	-3.5	3.0
2470	45.5	-3.4	3.0
2480	45.2	-3.4	2.9
2490	45.1	-3.4	3.1
2500	45.5	-3.4	3.3





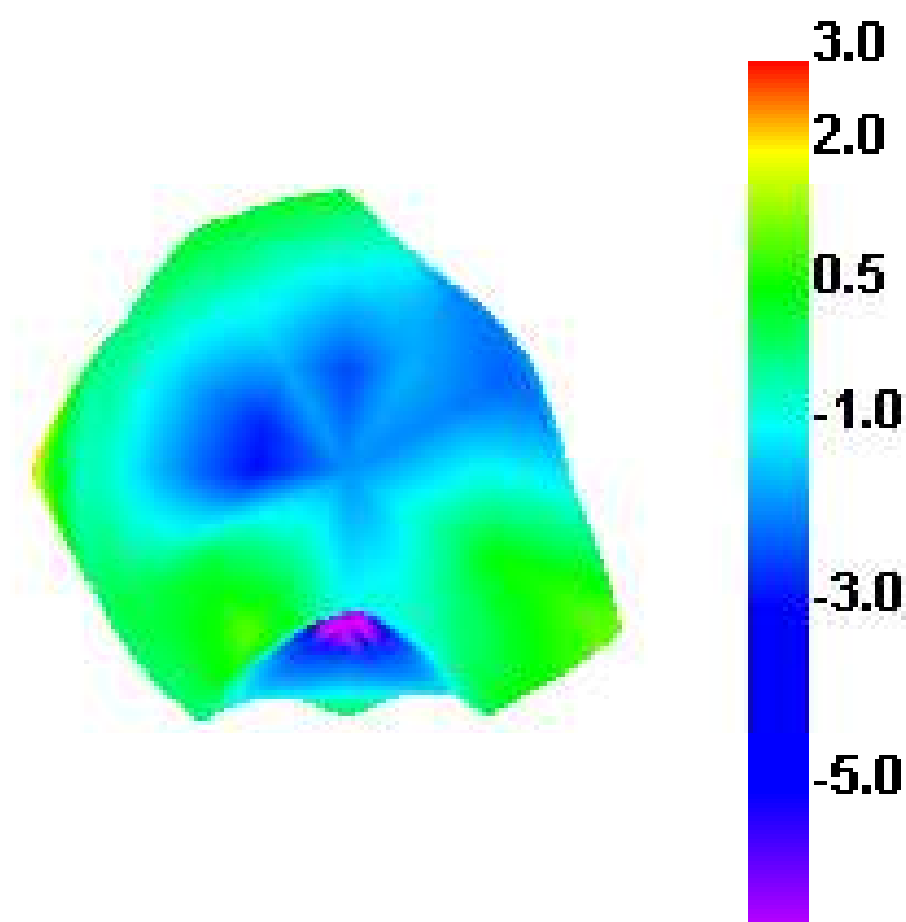
Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	40.3	-3.9	1.2
5200	43.3	-3.6	1.6
5250	44.4	-3.5	1.6
5300	44.2	-3.5	1.7
5350	41.2	-3.9	1.7
5400	41.5	-3.8	1.1
5450	42.3	-3.7	0.6
5500	42.8	-3.7	0.6
5550	43.4	-3.6	0.1
5600	44.1	-3.5	0.5
5650	42.7	-3.7	1.9
5700	44.8	-3.5	2.1
5750	42.2	-3.8	2.1
5800	40.5	-3.9	1.6
5850	40.7	-3.9	0.4



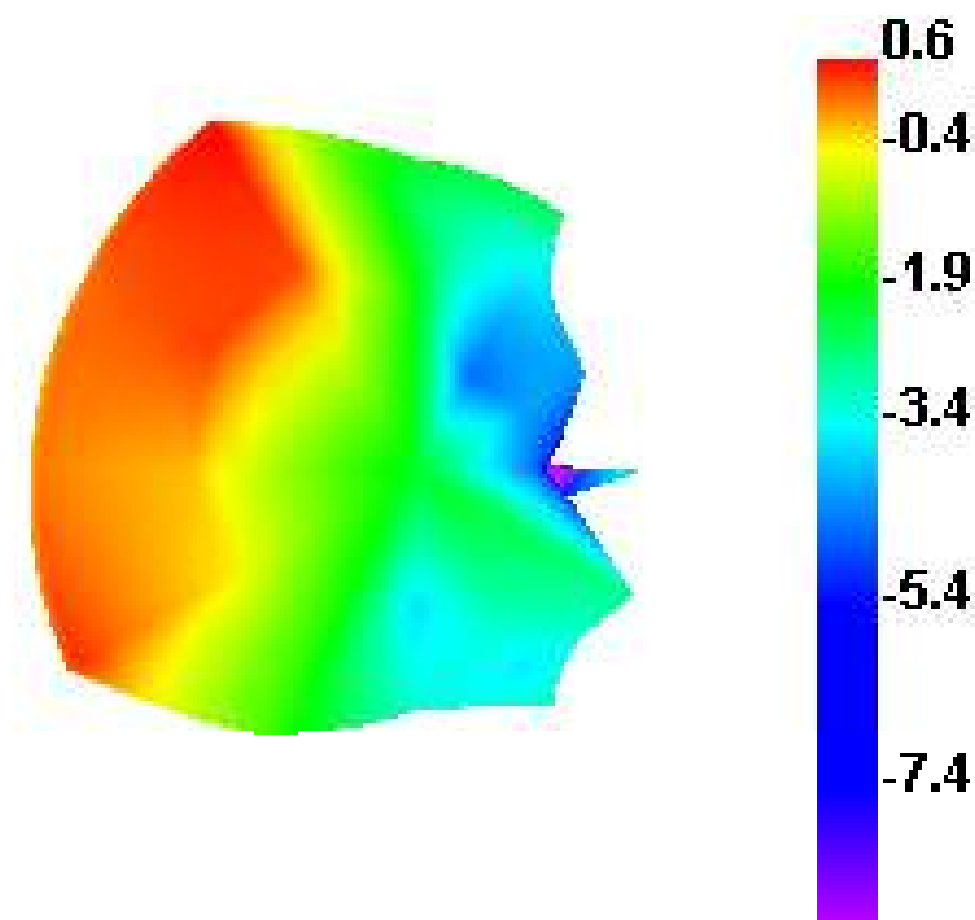


Radiation Pattern For WIFI Antenna (2450MHz)





Radiation Pattern For WIFI Antenna (5500MHz)





Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	12.6	11Mbps	-83.5
	7		12.4		-83.1
	13		13.1		-82.2
WIFI 2.4G 802.11gn	1	MCS0	11.1	MCS7	-68.4
	7		11.2		-68.5
	13		11.5		-68.6
WIFI 5.8G 802.11a	36	6Mbps	10.2	54Mbps	-69.4
	149		8.3		-70.7
	165		7.7		-70.2





东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

Device



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WIFI Antenna



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