



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期
Date

2024/05/09

编号
File No

24050902

版本
Revision

1.0

客户
CUSTOMER:

Autel Robotics Co.,Ltd.

客户料号
CUSTOMER NO:

501007937

品名
PART NAME:

WIFI_L Antenna

供方料号
SUPPLIER NO:

YJI01.005.098.302A

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

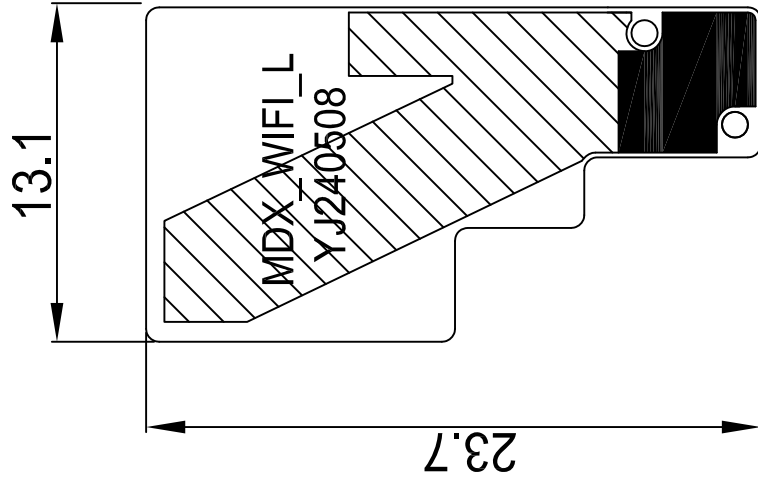
add:Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City

Tel:0769-82586086 Fax:0769-82586086

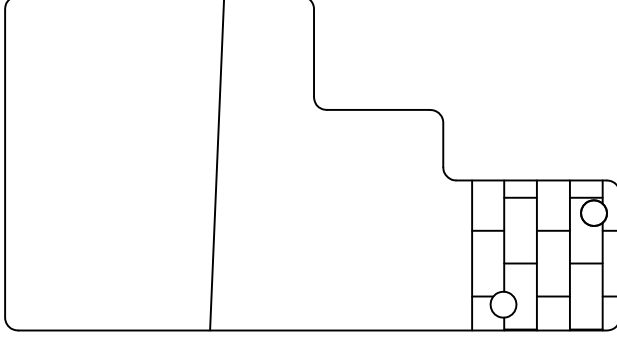


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PI补强含离型纸0.40



 **佳一**
东莞市一佳电子科技有限公司
Dongguan Yijia Electronics Communication Technology Co., Ltd.
Tel: 0769-82586086 Fax: 0769-82586086

PART NAME: WIFI_L Antenna				
PART NO.: YJ101.005.098.302A		DATE: 2024-05-09		
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX ±0.15 X° ±3°	
			UNITS: mm	
			SCALE: 1/1	
			REVISION: C	



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	1.9 dBi@2.4-2.5GHz 2.8 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

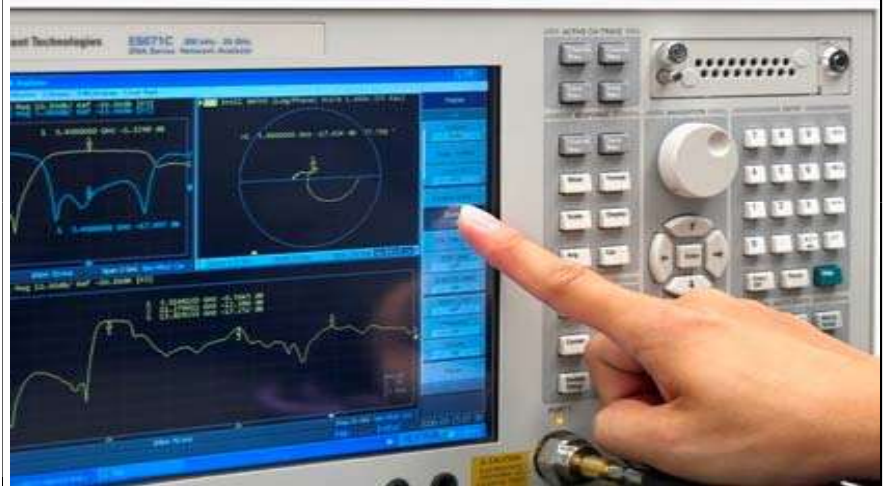
Physical Properties

Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

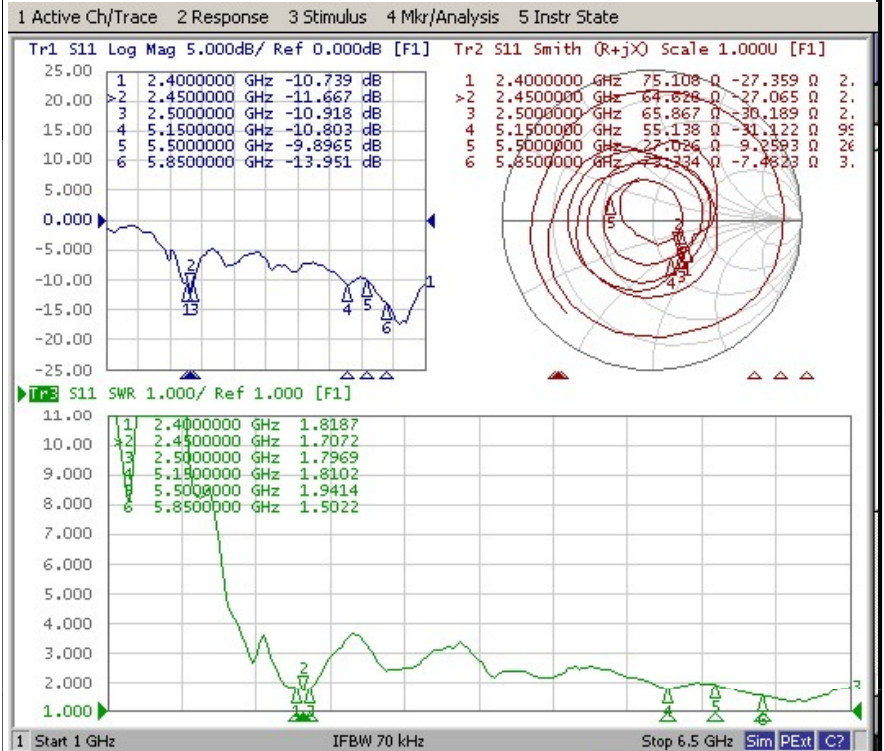


Antenna Performance Test

**Agilent
E5071B**

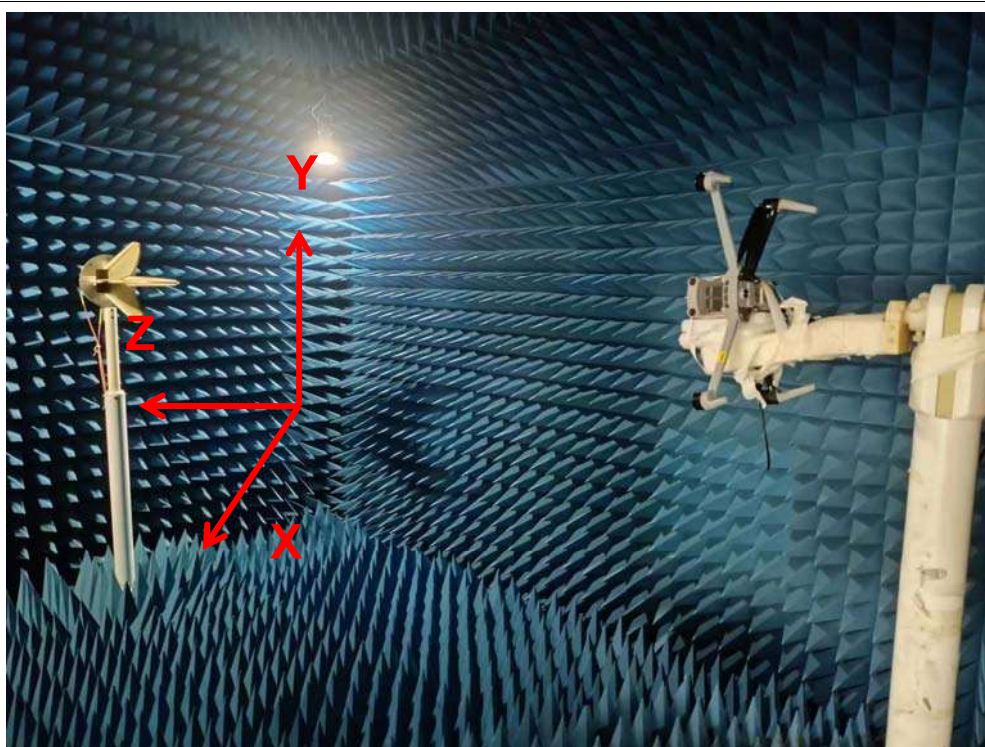
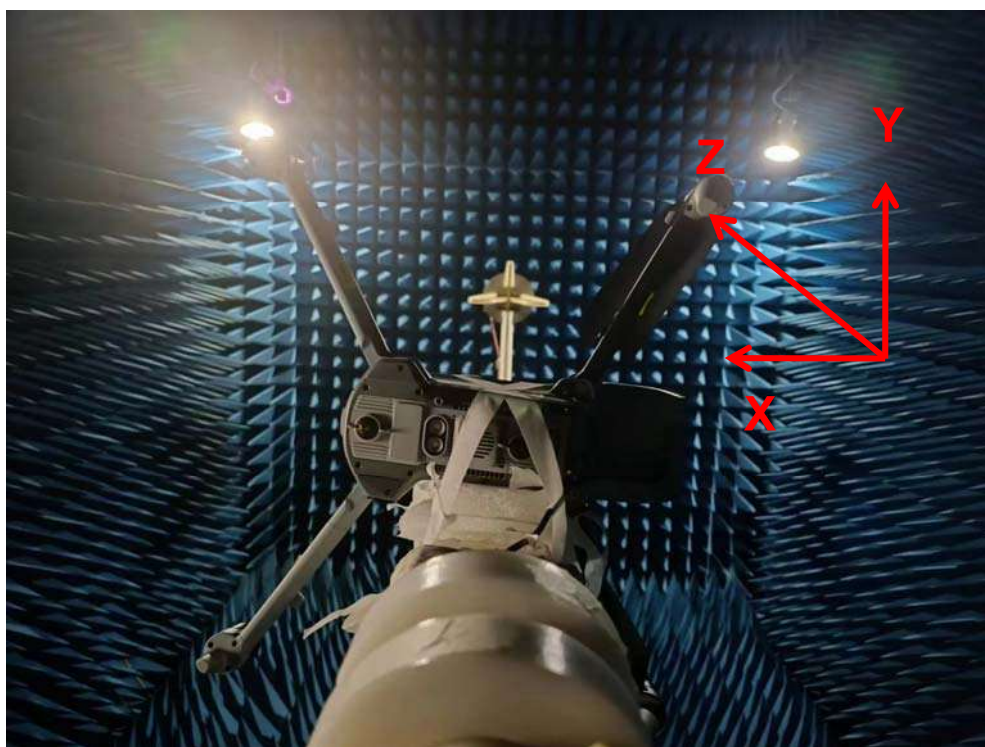


**S
Parameter
Test //
WIFI-L
Antenna**





Antenna Passive Test





Passive Test For WIFI2.4 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.5	-3.1	1.7
2410	49.1	-3.1	1.9
2420	48.0	-3.2	1.9
2430	45.8	-3.4	1.6
2440	44.0	-3.6	1.4
2450	45.6	-3.4	1.6
2460	44.5	-3.5	1.6
2470	44.4	-3.5	1.7
2480	41.7	-3.8	1.5
2490	40.5	-3.9	1.3
2500	41.0	-3.9	1.4



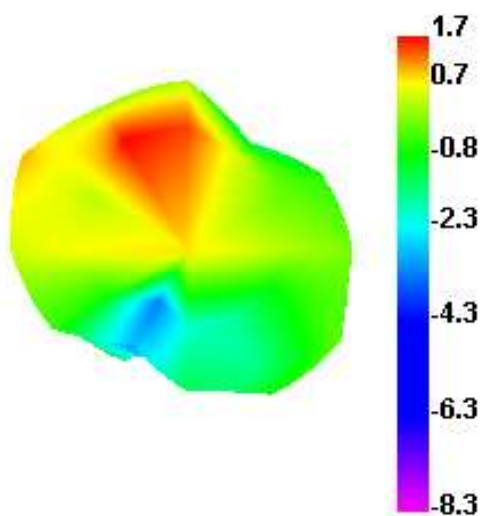
Passive Test For WiFi5.8 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	24.4	-6.1	1.1
5200	22.0	-6.6	0.5
5250	21.4	-6.7	0.0
5300	24.3	-6.1	-0.5
5350	26.6	-5.7	-0.6
5400	27.6	-5.6	-0.4
5450	28.1	-5.5	-0.8
5500	31.4	-5.0	-0.9
5550	33.0	-4.8	-1.0
5600	35.3	-4.5	0.1
5650	49.2	-3.1	2.2
5700	45.3	-3.4	2.2
5750	44.4	-3.5	2.8
5800	39.9	-4.0	2.8
5850	38.0	-4.2	2.5

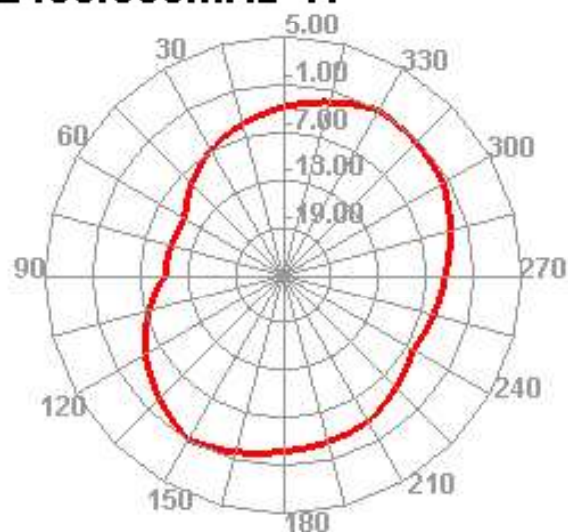


Radiation Pattern For WIFI2.4 Antenna

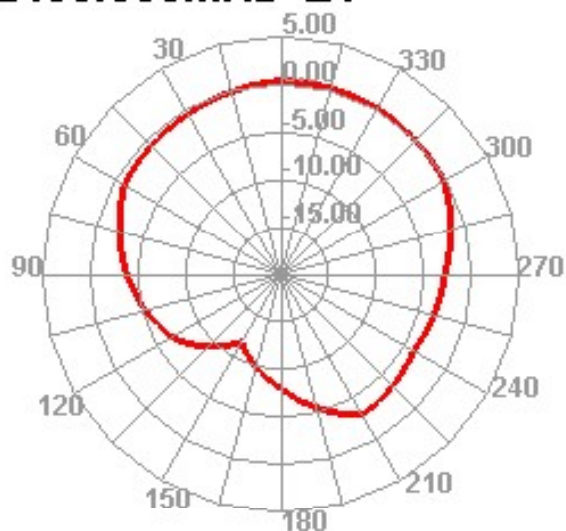
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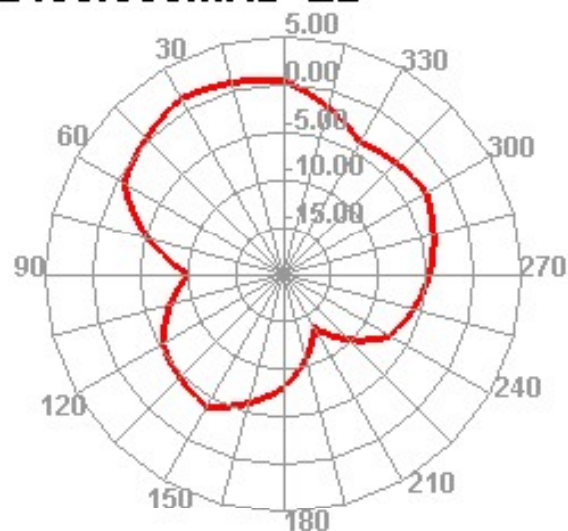
2400.000MHz H



2400.000MHz E1



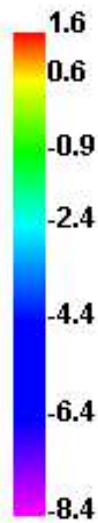
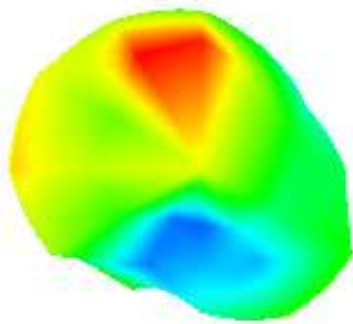
2400.000MHz E2



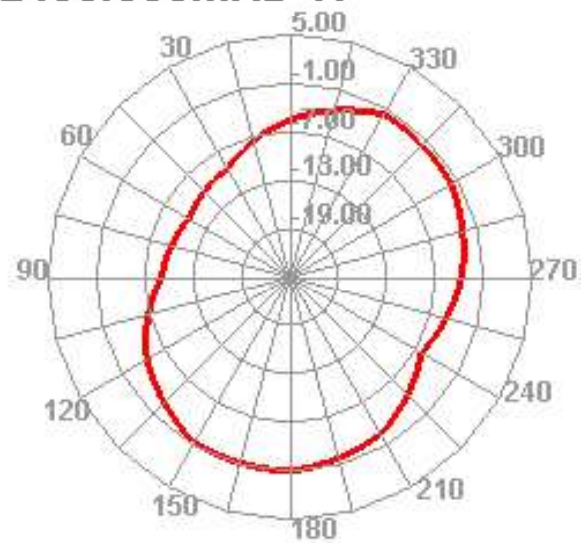


Radiation Pattern For WIFI2.4 Antenna

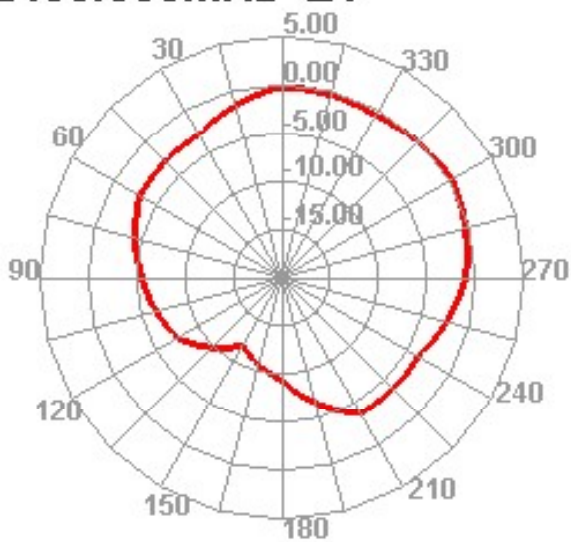
2450.000MHz



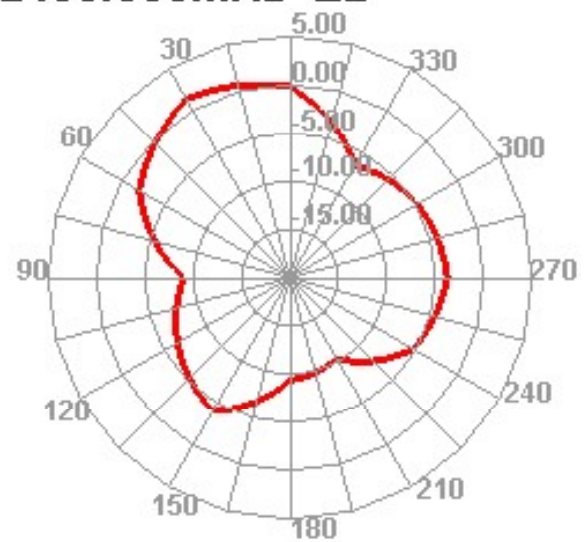
2450.000MHz H



2450.000MHz E1



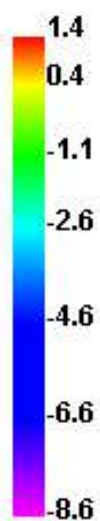
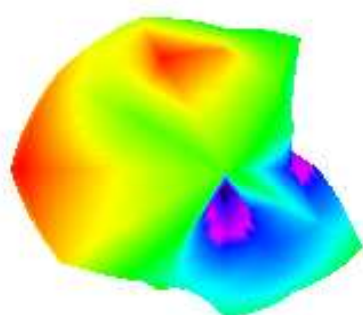
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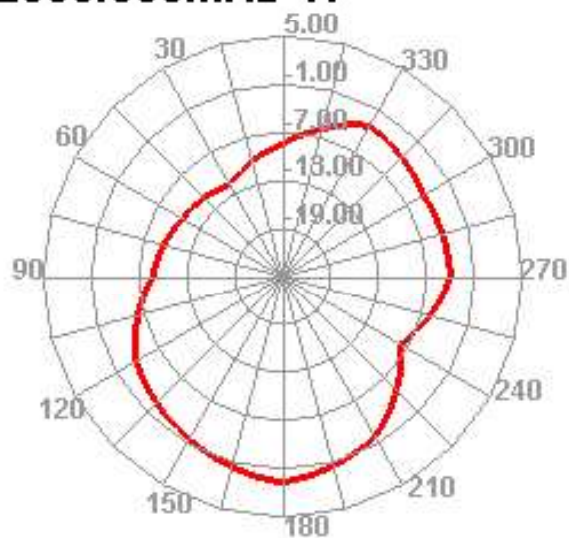


Radiation Pattern For WIFI2.4 Antenna

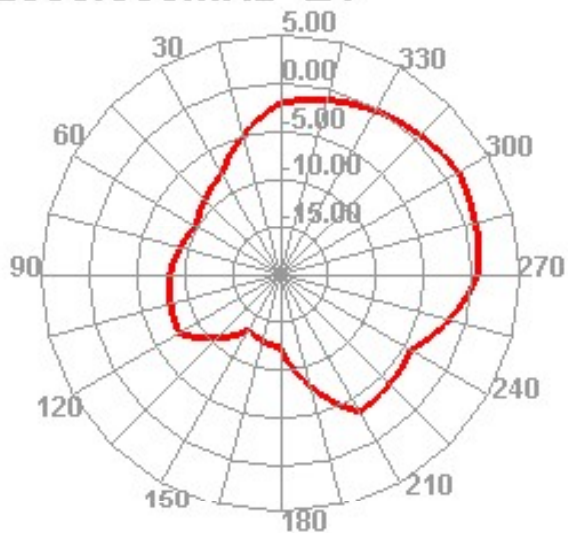
2500.000MHz



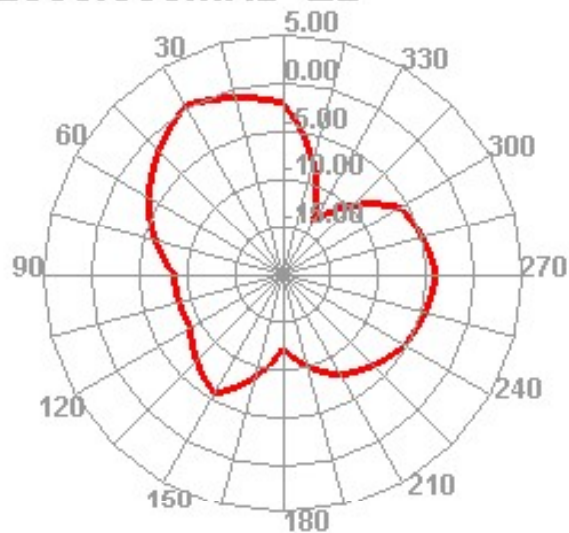
2500.000MHz H



2500.000MHz E1



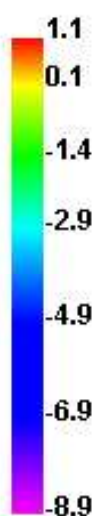
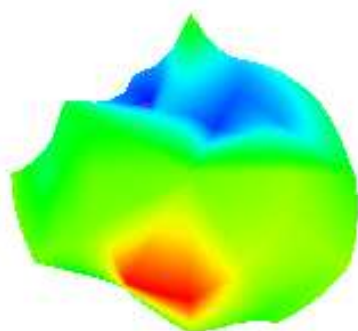
2500.000MHz E2



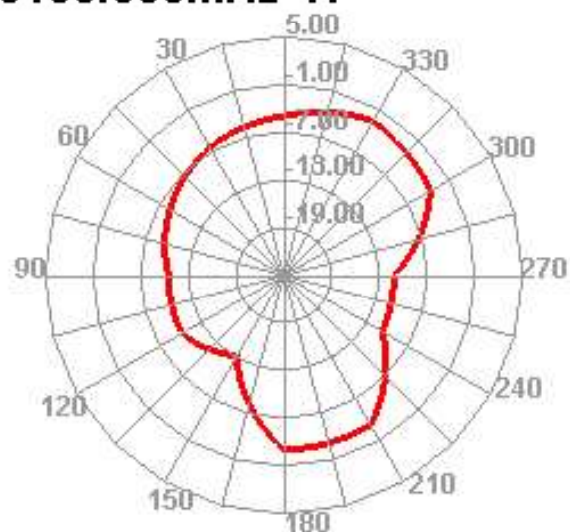


Radiation Pattern For WIFI5.8 Antenna

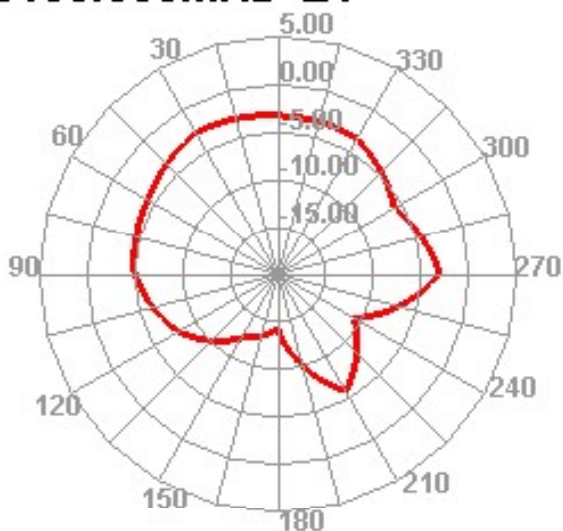
5150.000MHz



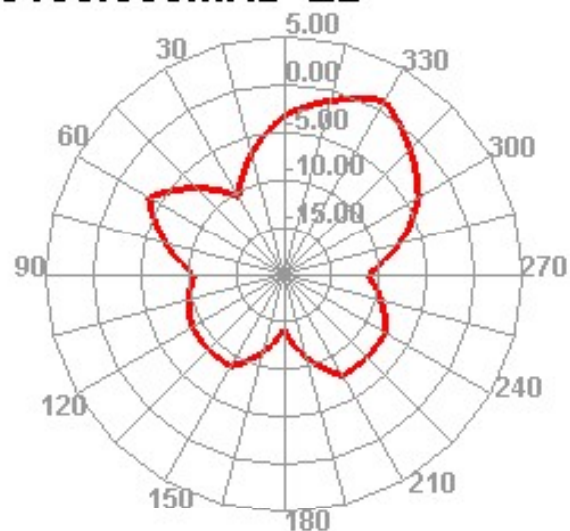
5150.000MHz H



5150.000MHz E1



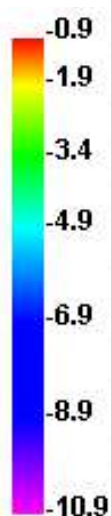
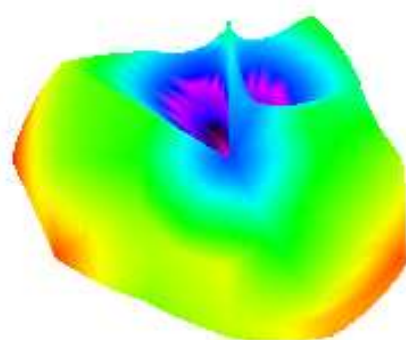
5150.000MHz E2



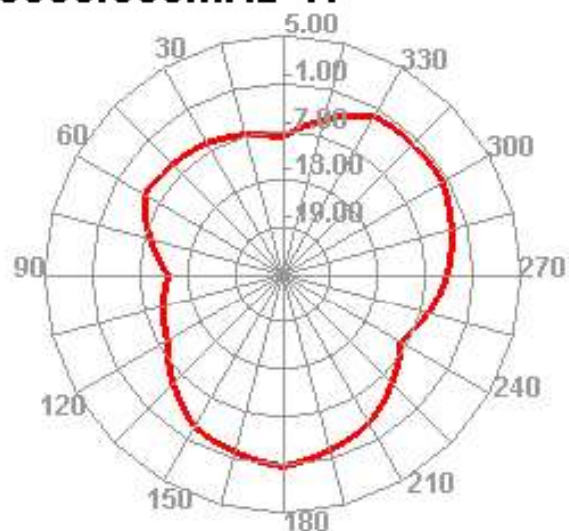


Radiation Pattern For WIFI5.8 Antenna

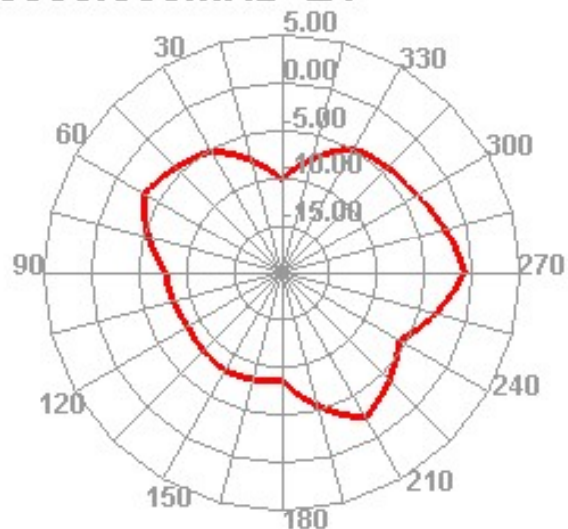
5500.000MHz



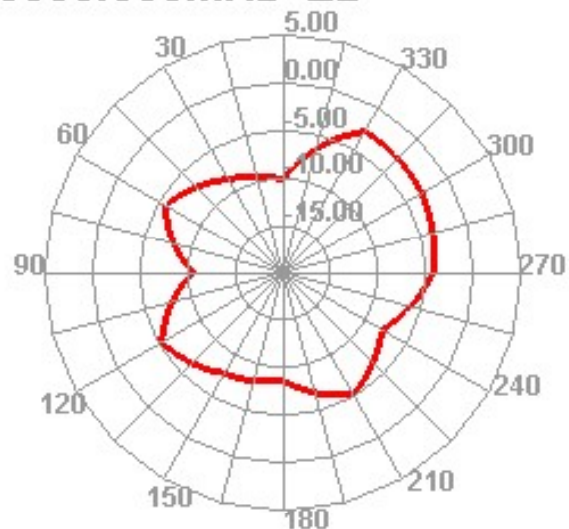
5500.000MHz H



5500.000MHz E1



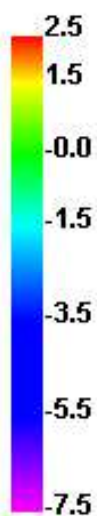
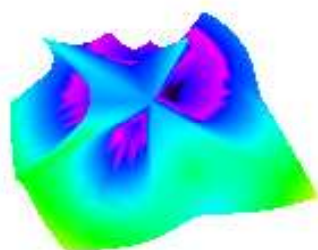
5500.000MHz E2



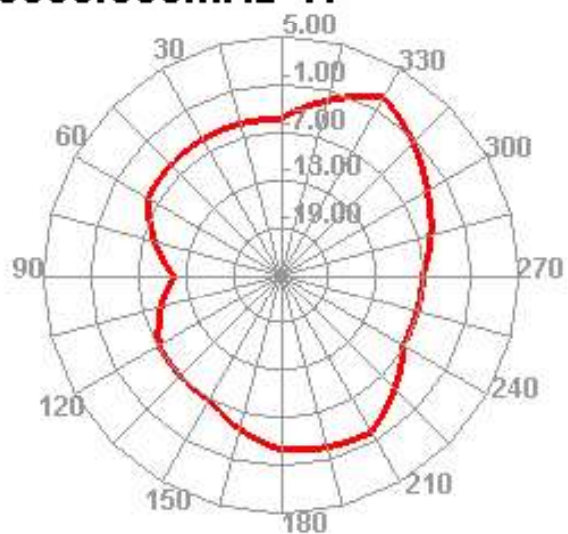


Radiation Pattern For WIFI5.8 Antenna

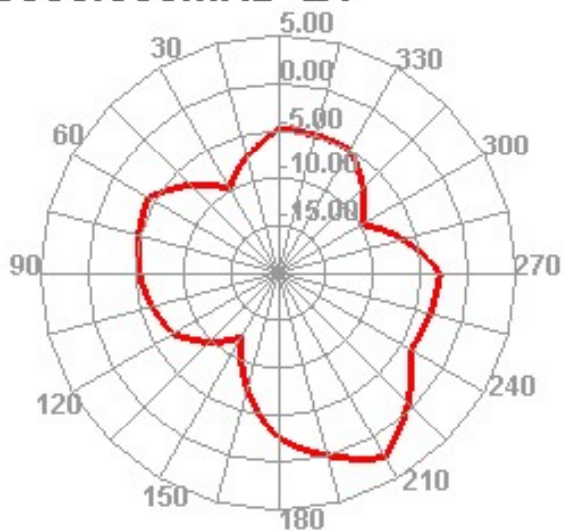
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2

