



Antenna Test Report

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Tester : Lei Zhiqin

Approval : Chen Guoqiang

Date : 2025/ 08/ 07

1. Device Profile

Device



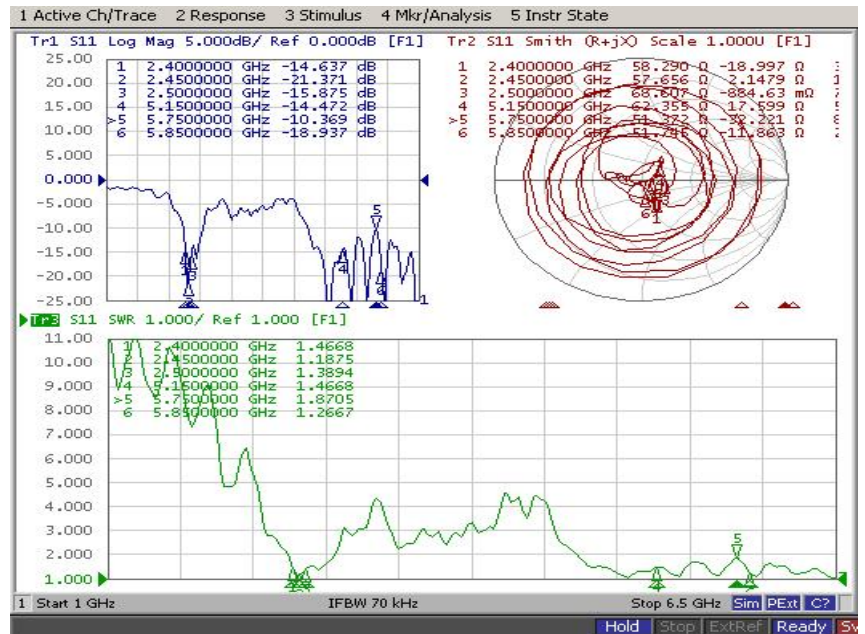
2. *WiFi-1 Antenna Test*

*WiFi-1
Antenna*

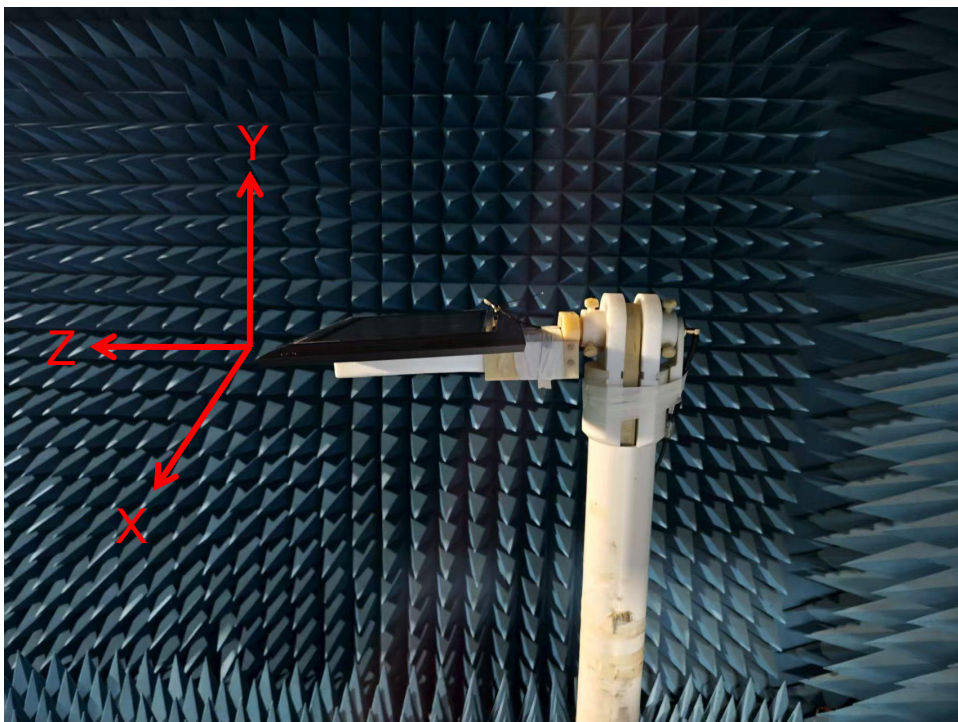
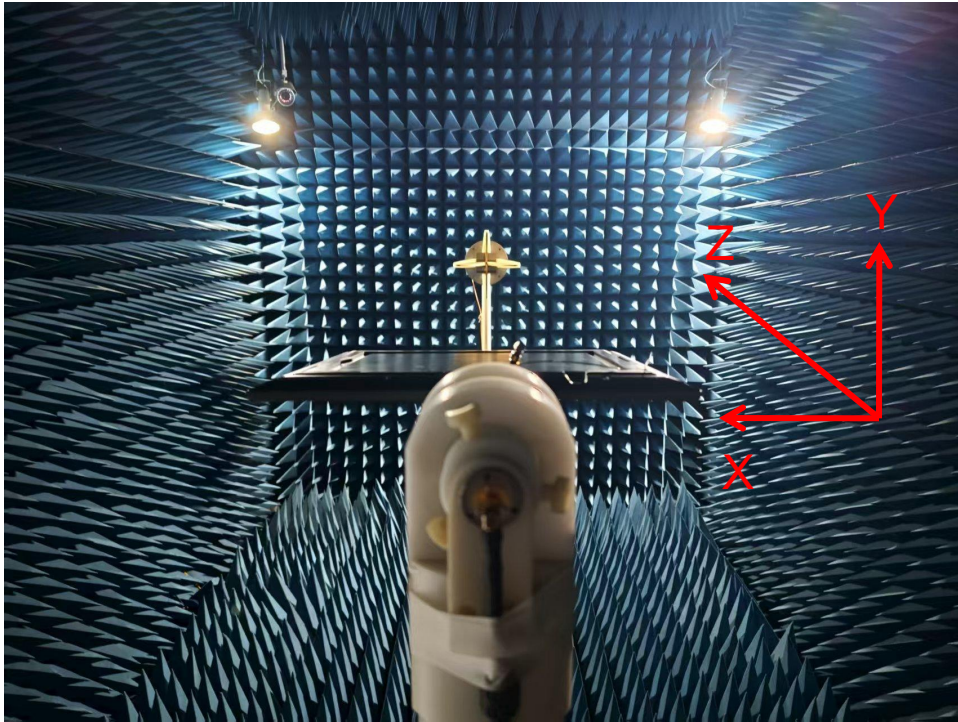


Antenna Performance Test

*Agilent
E5071C
S
Parameter
Test //
WIFI -1
Antenna*



Antenna Passive Test



Passive Test For WiFi-1 Antenna(2.4G)

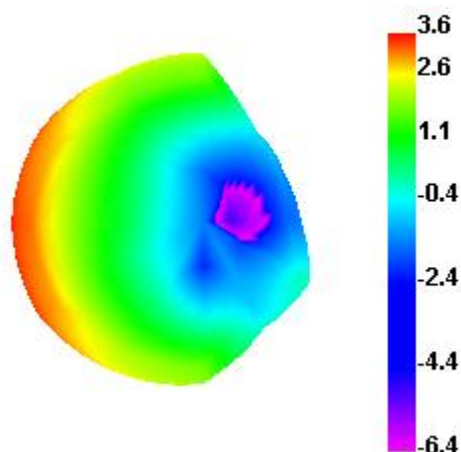
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	52.8	-2.8	3.7
2410	52.4	-2.8	3.7
2420	53.7	-2.7	3.7
2430	53.6	-2.7	3.6
2440	54.2	-2.6	3.6
2450	55.7	-2.6	3.6
2460	55.2	-2.6	3.4
2470	55.6	-2.6	3.4
2480	54.4	-2.6	3.3
2490	55.3	-2.6	3.4
2500	54.7	-2.6	3.2

Passive Test For WiFi-1 Antenna(5.8G)

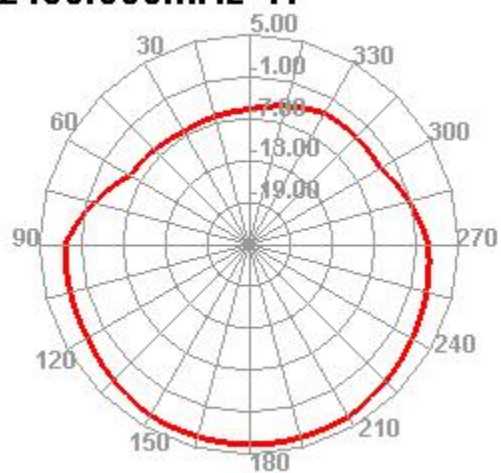
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	48.7	-3.1	3.4
5200	49.5	-3.1	2.8
5250	50.2	-3.0	2.8
5300	50.8	-3.0	3.0
5350	51.6	-2.9	2.9
5400	50.4	-3.0	2.9
5450	48.6	-3.1	3.7
5500	47.4	-3.2	3.2
5550	47.8	-3.2	2.2
5600	46.3	-3.3	2.3
5650	45.2	-3.4	1.6
5700	43.6	-3.6	1.2
5750	42.7	-3.7	1.6
5800	42.5	-3.7	2.0
5850	41.6	-3.8	2.6

Radiation Pattern For WiFi-1 Antenna (2450MHz)

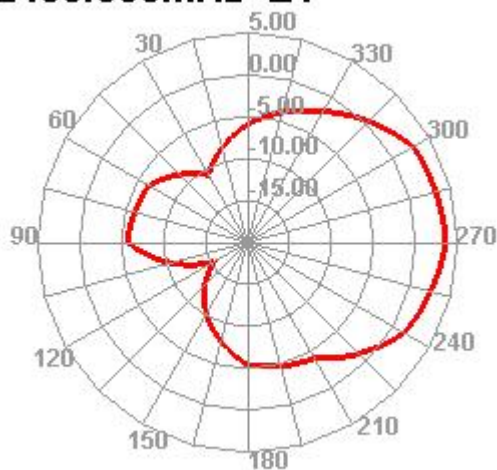
2450.000MHz



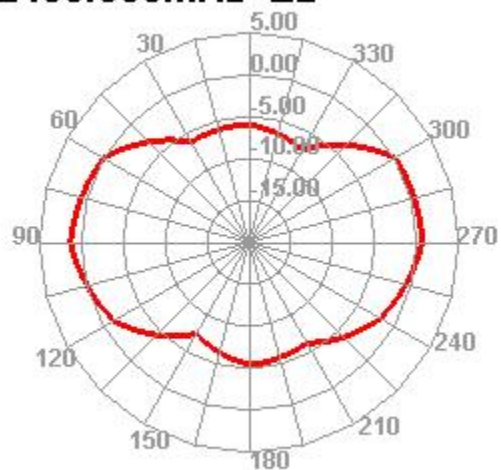
2450.000MHz H



2450.000MHz E1

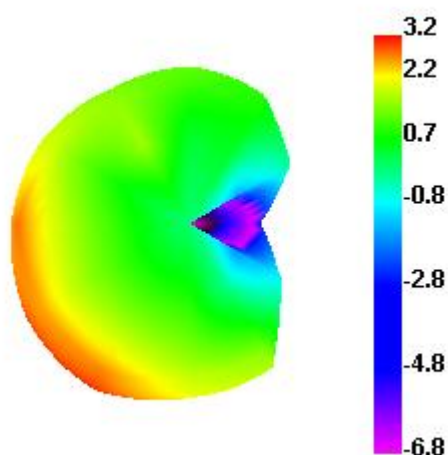


2450.000MHz E2

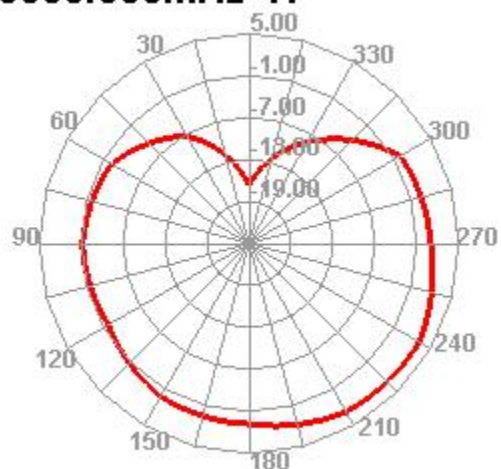


Radiation Pattern For WiFi-1 Antenna (5500MHz)

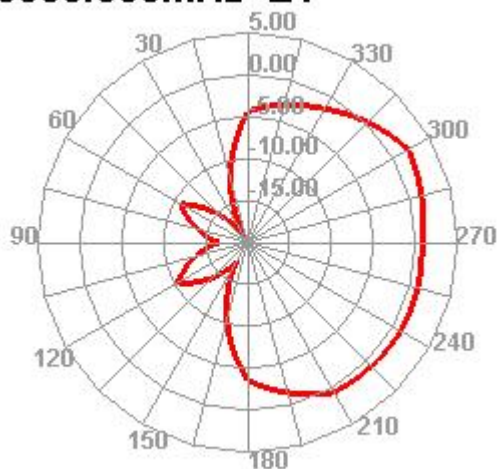
5500.000MHz



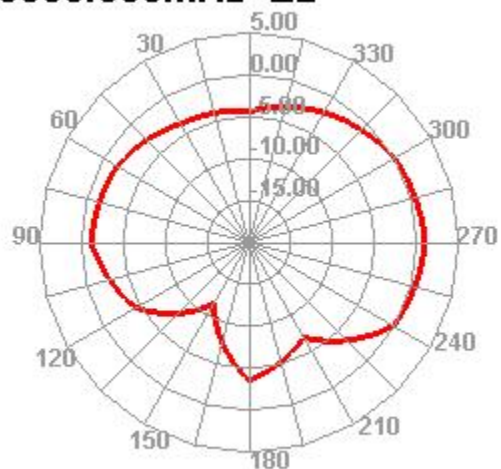
5500.000MHz H



5500.000MHz E1

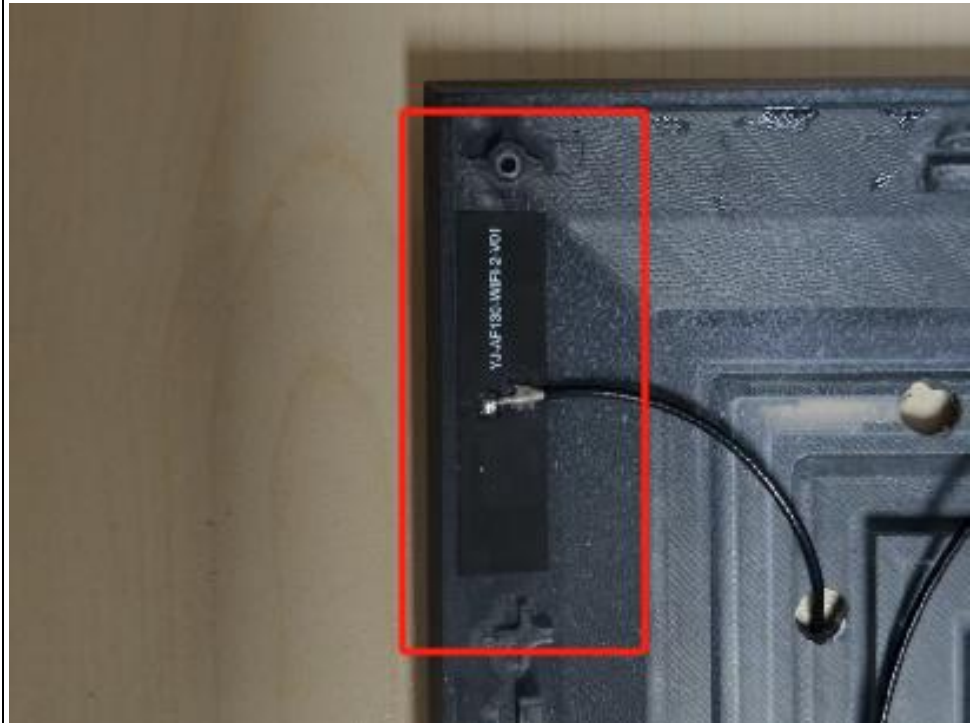


5500.000MHz E2



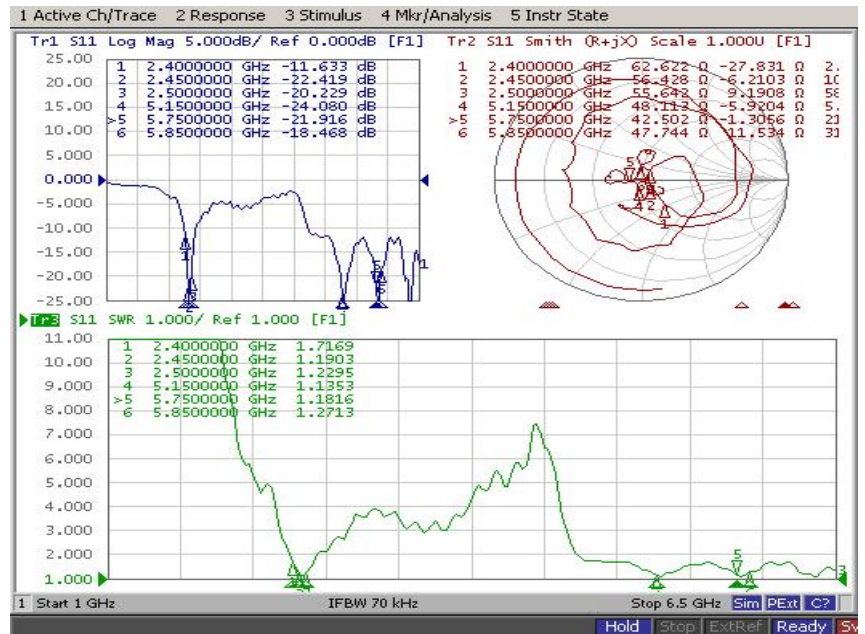
3. *WIFI-2 Antenna Test*

*WiFi-2
Antenna*

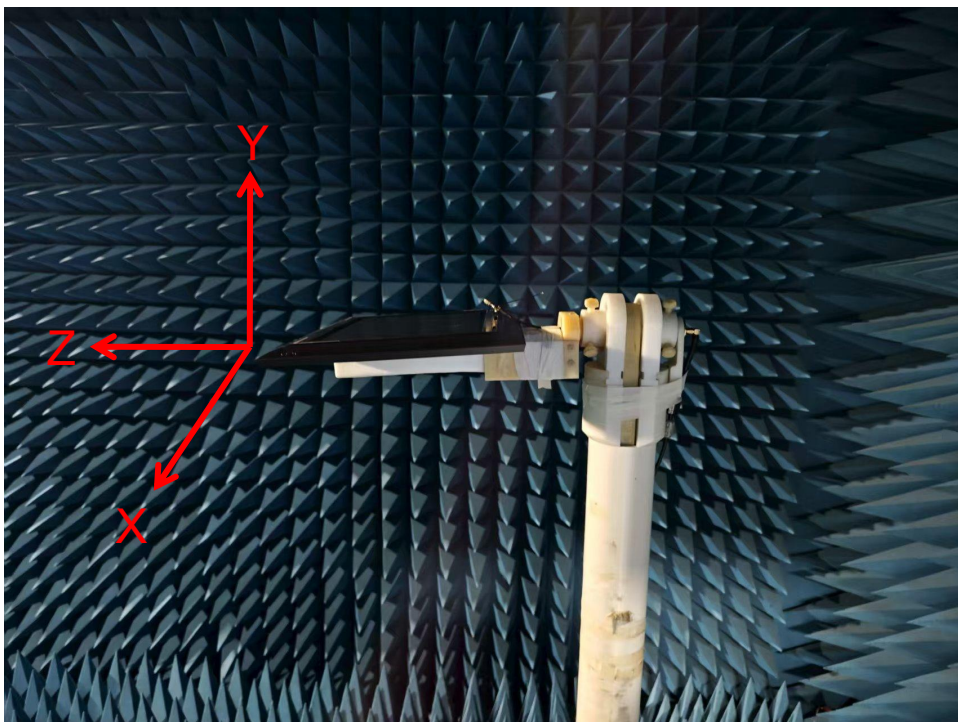
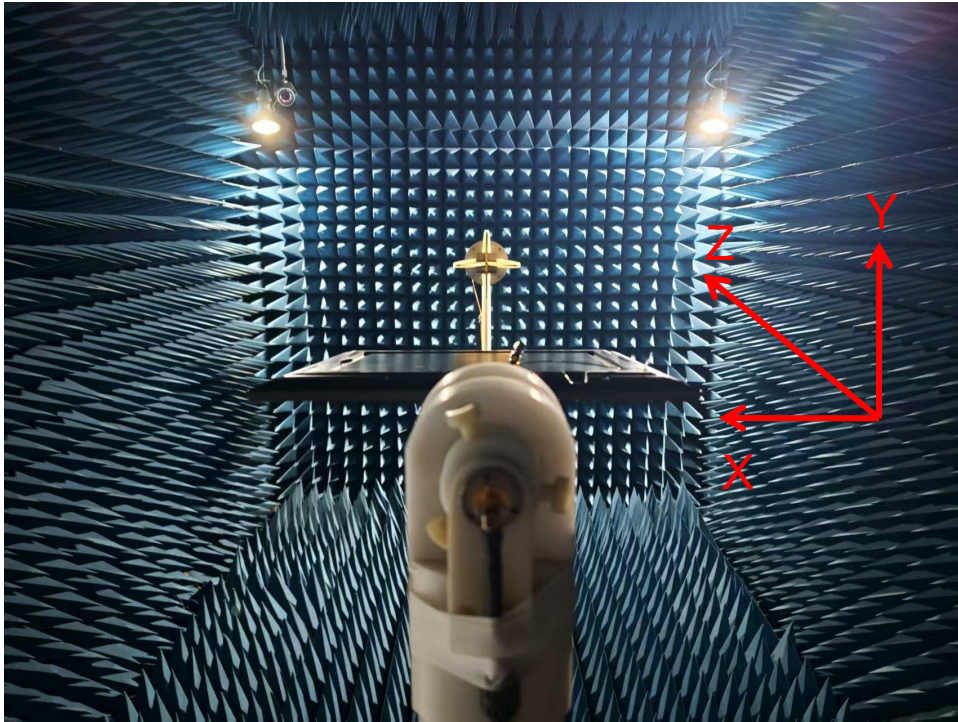


Antenna Performance Test

*Agilent
E5071C
S
Parameter
Test //
WIFI -2
Antenna*



Antenna Passive Test



Passive Test For WiFi-2 Antenna(2.4G)

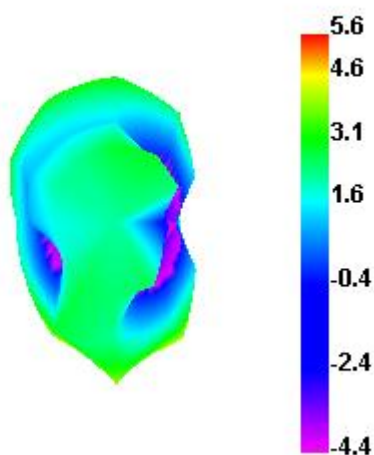
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	57.6	-2.4	5.9
2410	58.3	-2.3	5.6
2420	59.6	-2.2	5.6
2430	60.4	-2.2	5.5
2440	61.8	-2.1	5.5
2450	62.4	-2.0	5.6
2460	62.6	-2.0	5.4
2470	62.5	-2.0	5.3
2480	59.2	-2.2	5.1
2490	63.3	-2.0	5.3
2500	63.5	-2.0	5.1

Passive Test For WiFi-2 Antenna(5.8G)

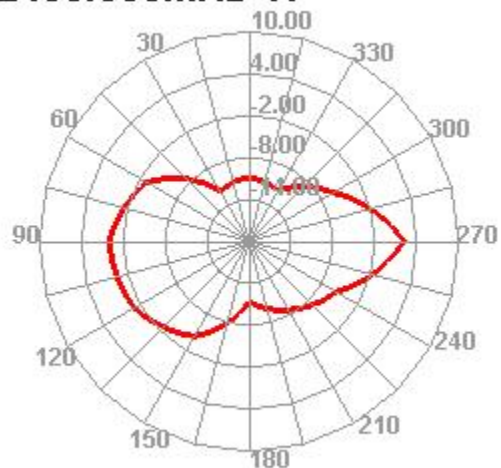
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	56.3	-2.5	5.3
5200	57.7	-2.4	5.0
5250	58.3	-2.3	5.0
5300	59.6	-2.2	5.4
5350	60.2	-2.2	5.7
5400	59.6	-2.2	5.8
5450	61.2	-2.1	6.1
5500	62.3	-2.0	5.6
5550	61.5	-2.1	4.8
5600	58.7	-2.3	3.9
5650	57.6	-2.4	3.1
5700	59.4	-2.2	2.4
5750	59.9	-2.2	2.5
5800	60.8	-2.2	2.2
5850	61.4	-2.1	2.8

Radiation Pattern For WiFi-2 Antenna (2450MHz)

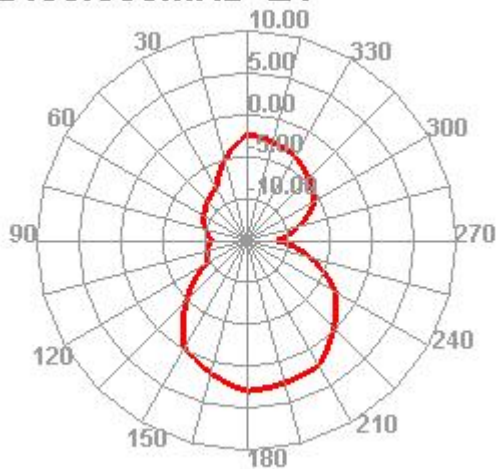
2450.000MHz



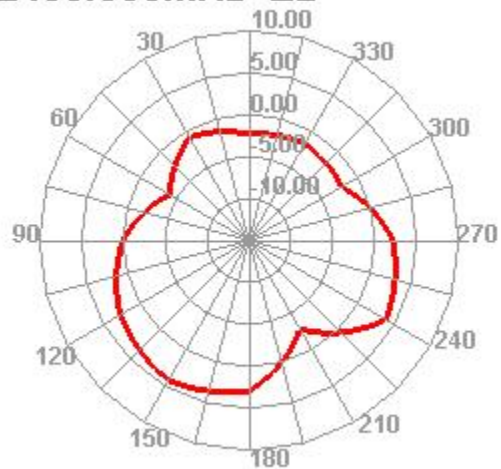
2450.000MHz H



2450.000MHz E1

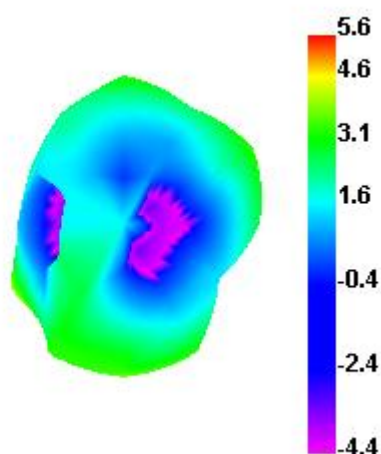


2450.000MHz E2

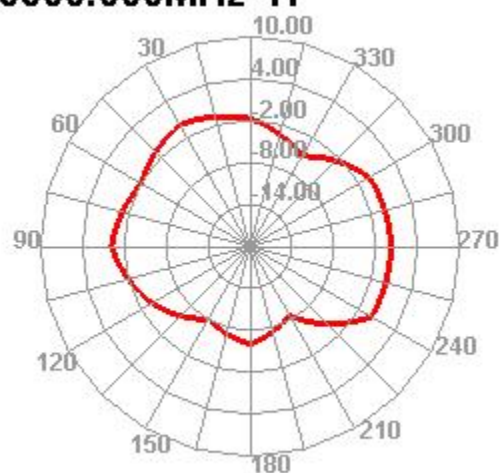


Radiation Pattern For WiFi-2 Antenna (5500MHz)

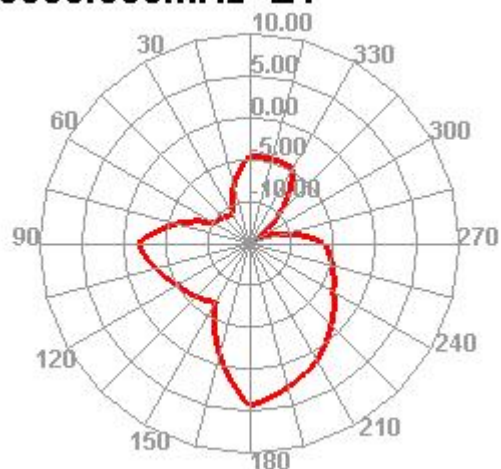
5500.000MHz



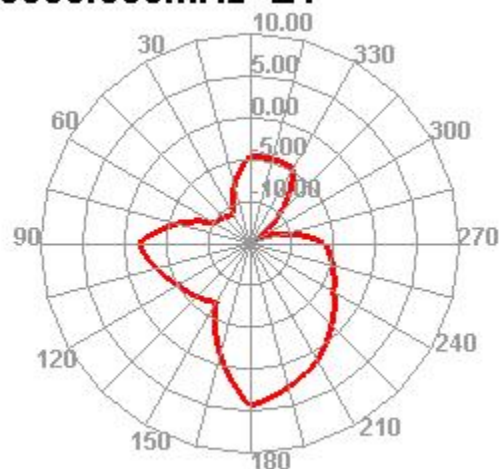
5500.000MHz H



5500.000MHz E1



5500.000MHz E1



WIFI-1 Antenna Test

Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	15.1	11Mbps	-83.9
	7		15.5		-86.1
	11		15.6		-86.3
WIFI 5.8G 802.11a	36	54Mbps	8.2	54Mbps	-71.4
	149		7.0		-69.4
	165		7.1		-70.2

WIFI-2 Antenna Test

Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	15.5	11Mbps	-84.3
	7		16.2		-86.2
	11		16.4		-86.4
WIFI 5.8G 802.11a	36	54Mbps	8.8	54Mbps	-72.3
	149		9.2		-72.1
	165		9.3		-71.6

4. Assembly Picture





