



Antenna Test Report

Contents:

1. Antenna Profile

2. Antenna Performance Test

3. Antenna Passive Test

4. Antenna Active Test

5. Assembly Picture

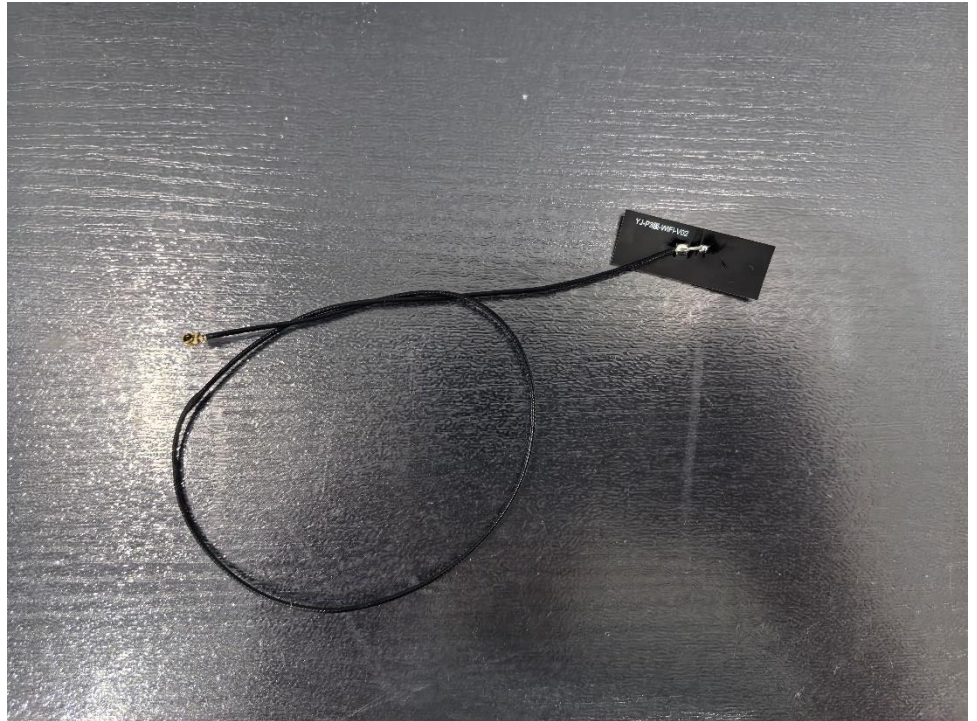
Tester : Zhou Yingjie

Approval : Chen Guoqiang

Date : 2025 / 07 / 15

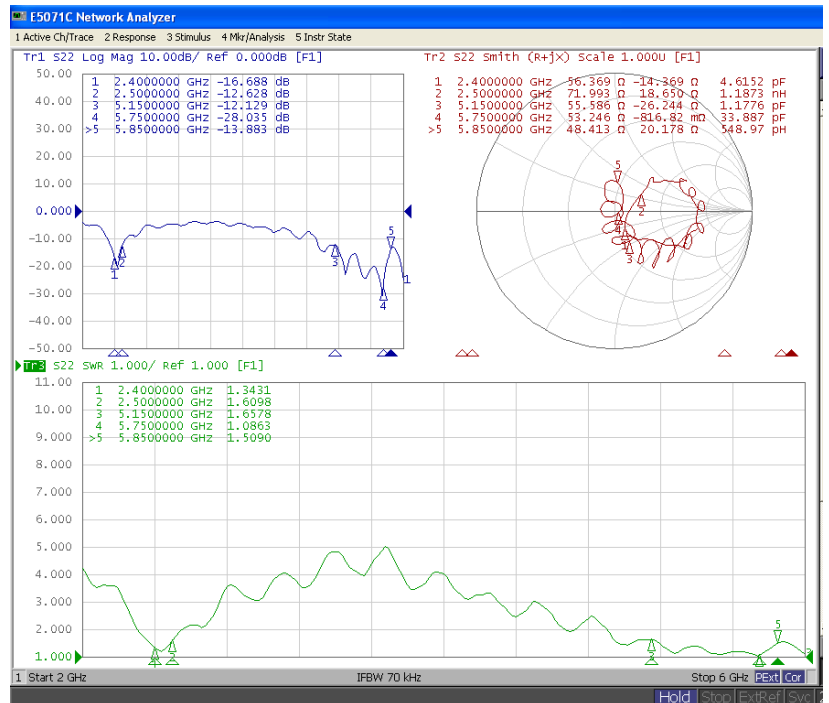
1. Antenna Profile

*WiFi
Antenna*



2. Antenna Performance Test

*Agilent
E5071C
S
Parameter
Test //
WiFi
Antenna*

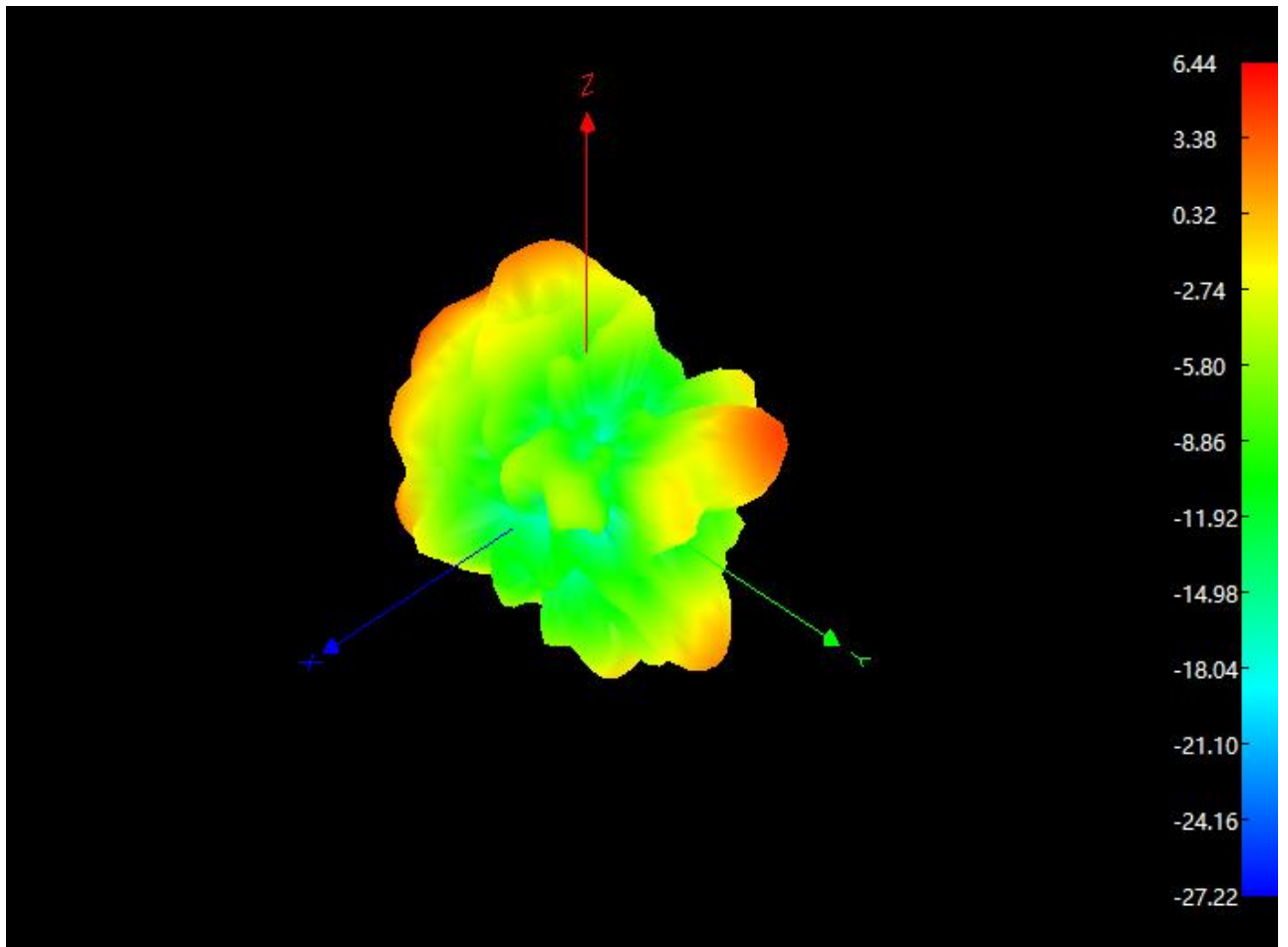


3. *Antenna Passive Test*

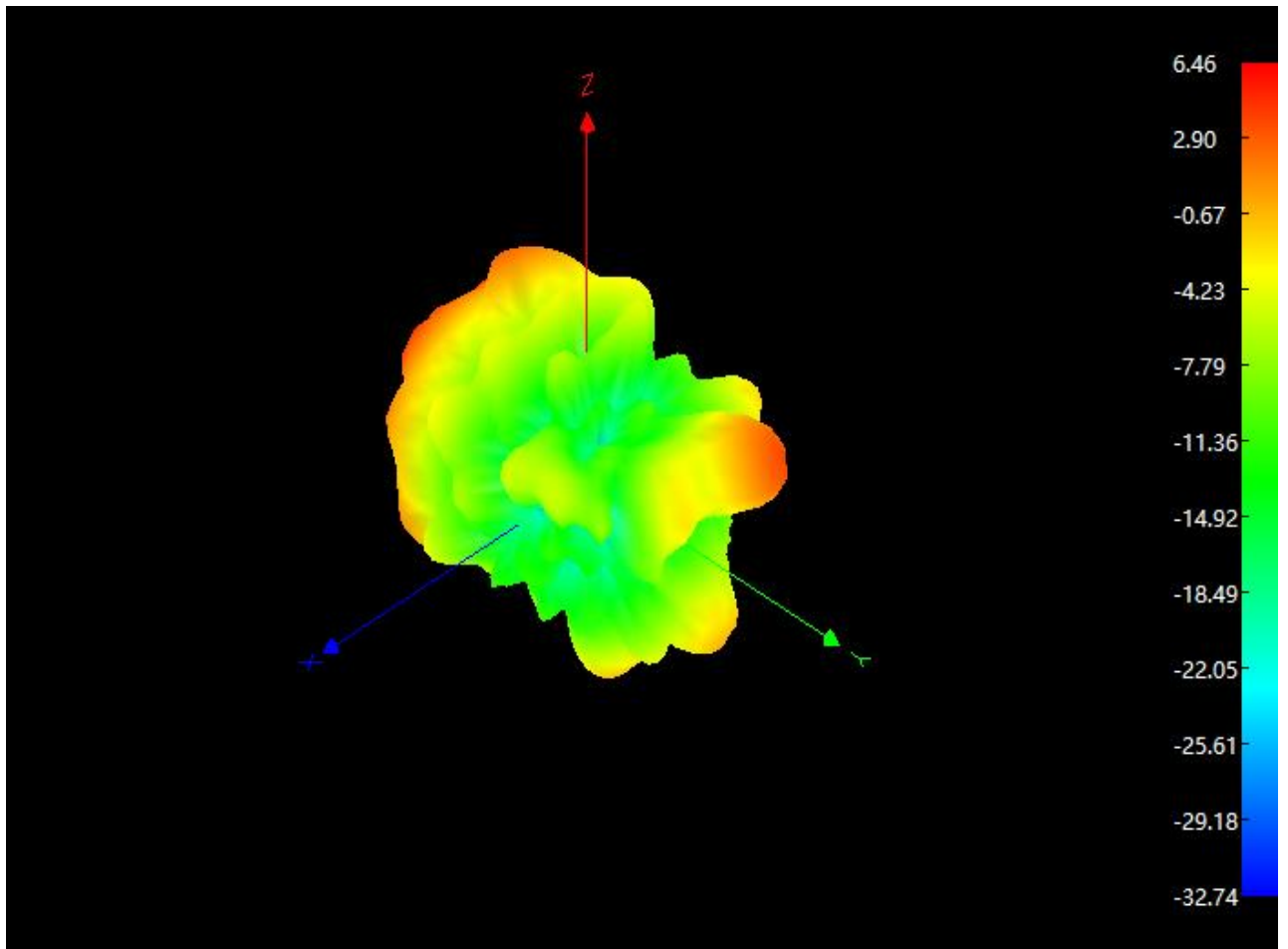
Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	44.5	-3.5	6.4
2410	44.5	-3.5	6.5
2420	44.2	-3.6	6.4
2430	44.4	-3.5	6.4
2440	43.9	-3.6	6.3
2450	45.0	-3.5	6.5
2460	42.9	-3.7	6.4
2470	42.6	-3.7	6.3
2480	40.6	-3.9	5.8
2490	40.2	-4.0	6.1
2500	37.2	-4.3	6.0

Passive Test For WiFi Antenna(5.8G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	34.2	-4.7	3.4
5200	33.7	-4.7	4.6
5250	30.8	-5.1	4.0
5300	29.5	-5.3	3.1
5350	29.7	-5.3	3.9
5400	30.9	-5.1	4.4
5450	29.0	-5.4	1.8
5500	27.6	-5.6	2.2
5550	33.9	-4.7	2.9
5600	34.3	-4.7	2.7
5650	30.0	-5.2	4.2
5700	29.7	-5.3	5.0
5750	33.7	-4.7	5.6
5800	27.9	-5.5	3.0
5850	27.9	-5.6	2.5

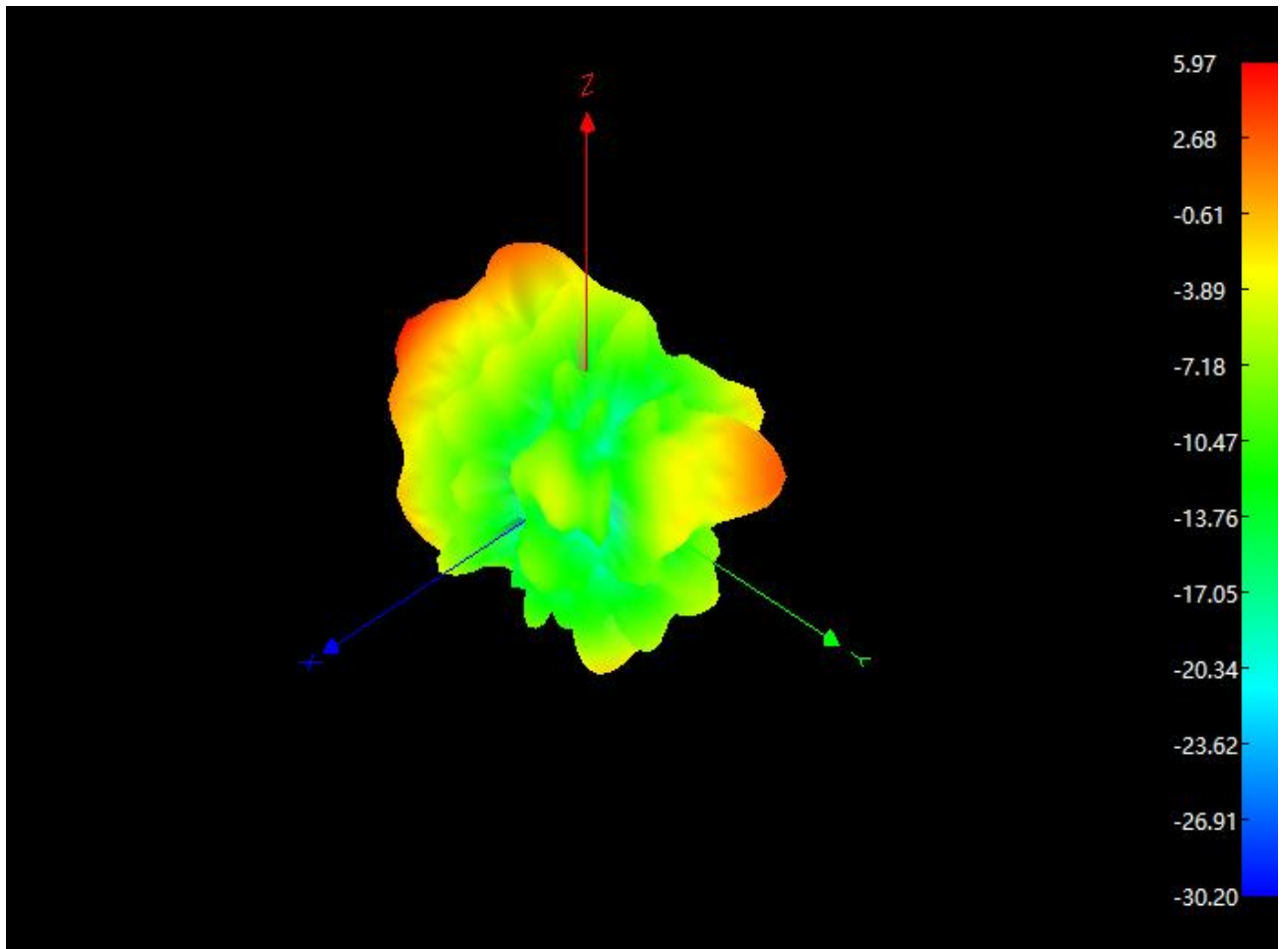
Radiation Pattern For WiFi Antenna (2400MHz)



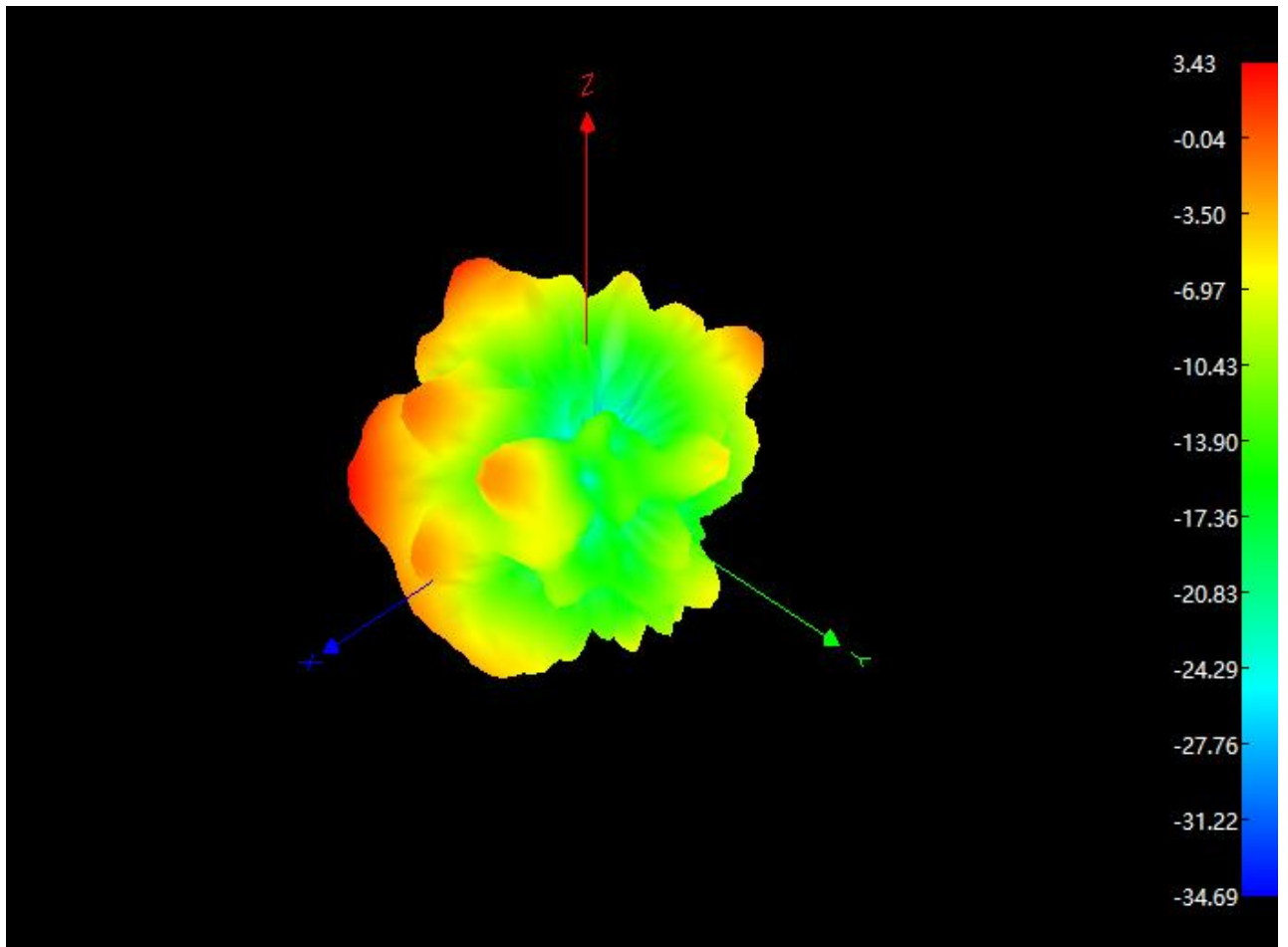
Radiation Pattern For WiFi Antenna (2450MHz)



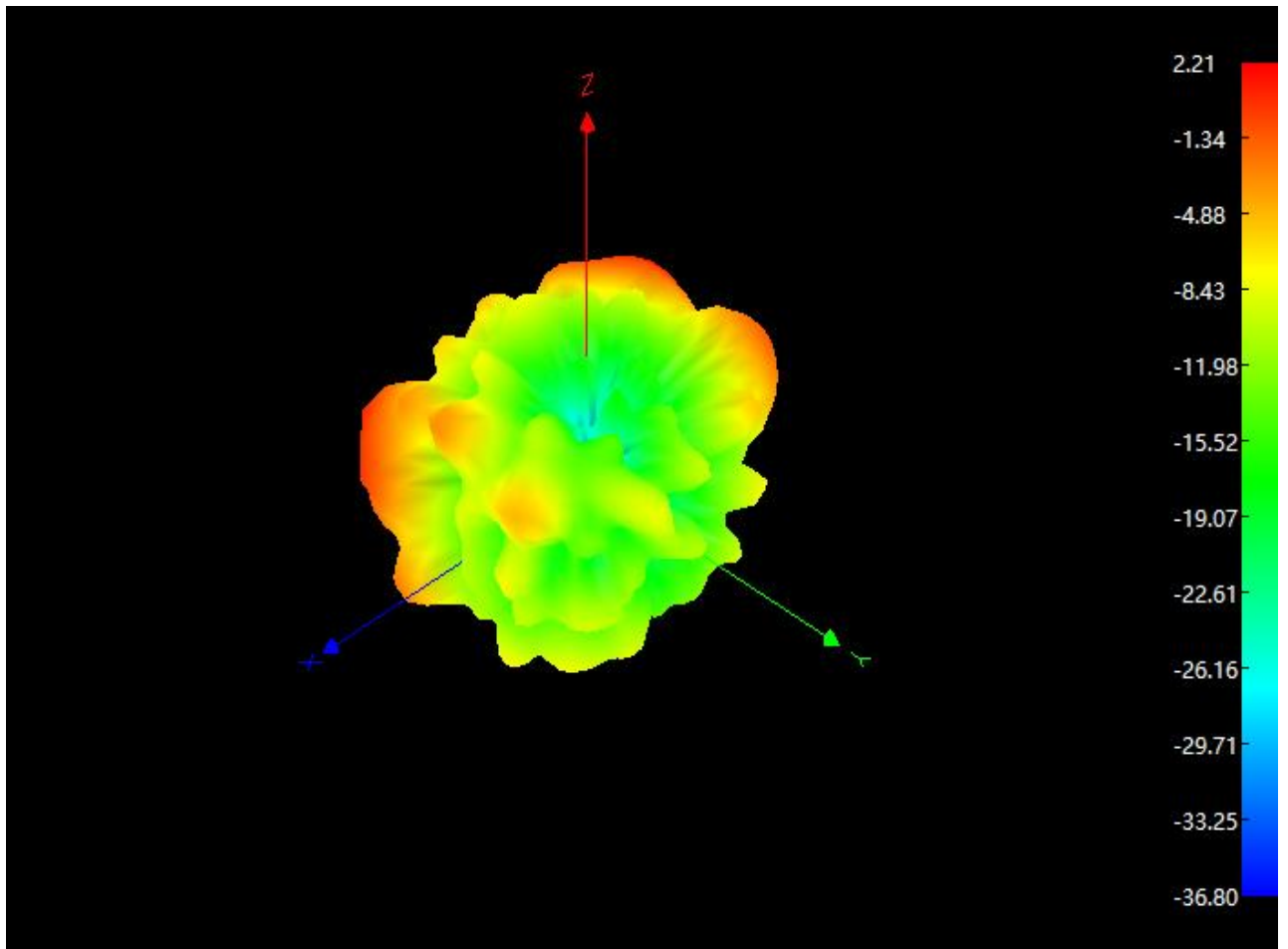
Radiation Pattern For WiFi Antenna (2500MHz)



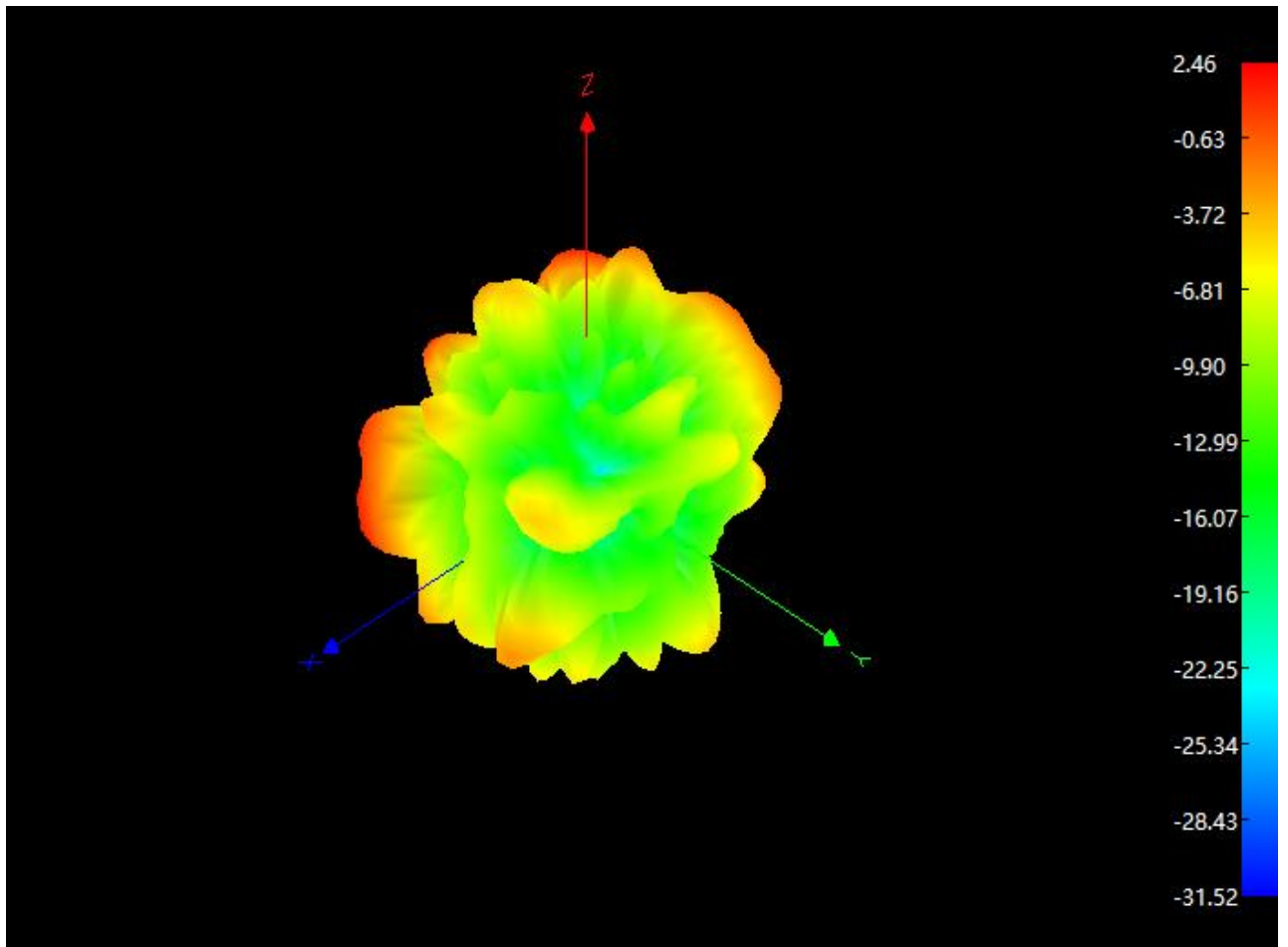
Radiation Pattern For WiFi Antenna (5150MHz)



Radiation Pattern For WiFi Antenna (5500MHz)

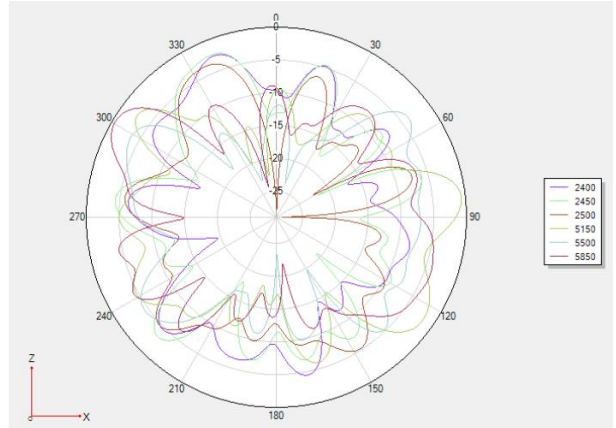


Radiation Pattern For WiFi Antenna (5850MHz)

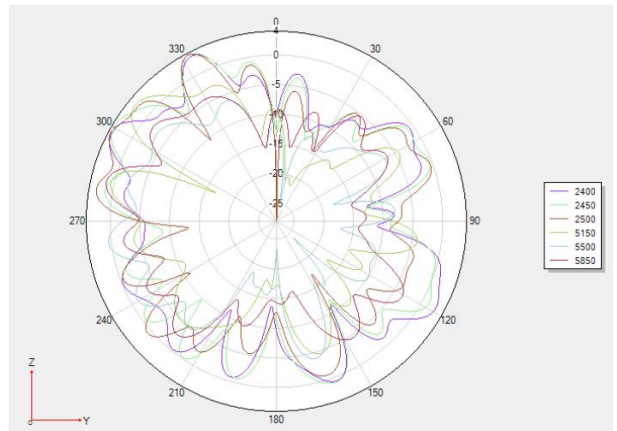


Radiation Pattern For WiFi Antenna

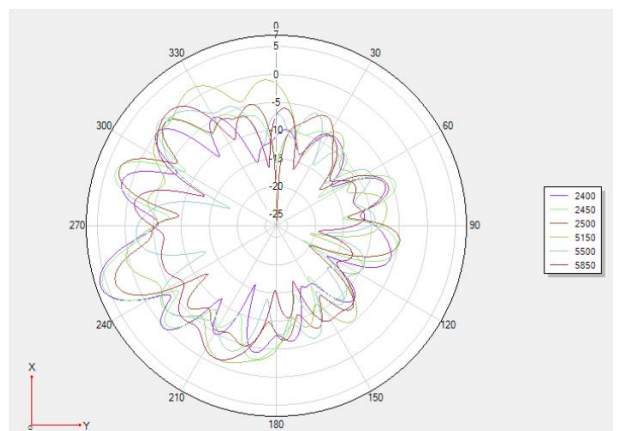
Phi 0°



Phi 90°



Theta 90°



4. Antenna Active Test

Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	12.7	11Mbps	-82.2
	6		13.9		-82.5
	11		14.6		-83.7
WIFI 2.4G 802.11g	1	54Mbps	12.9	54Mbps	-74.3
	6		13.5		-74.4
	11		14.2		-75.1
WIFI 2.4G 802.11n	1	MCS7	12.9	MCS7	-70.9
	6		13.4		-70.6
	11		14.2		-69.3
WIFI 5G 802.11a	149	54Mbps	13.1	54Mbps	-73.0
	157		13.2		-76.2
	165		12.2		-73.0

5. *Assembly Picture*

WiFi Antenna

