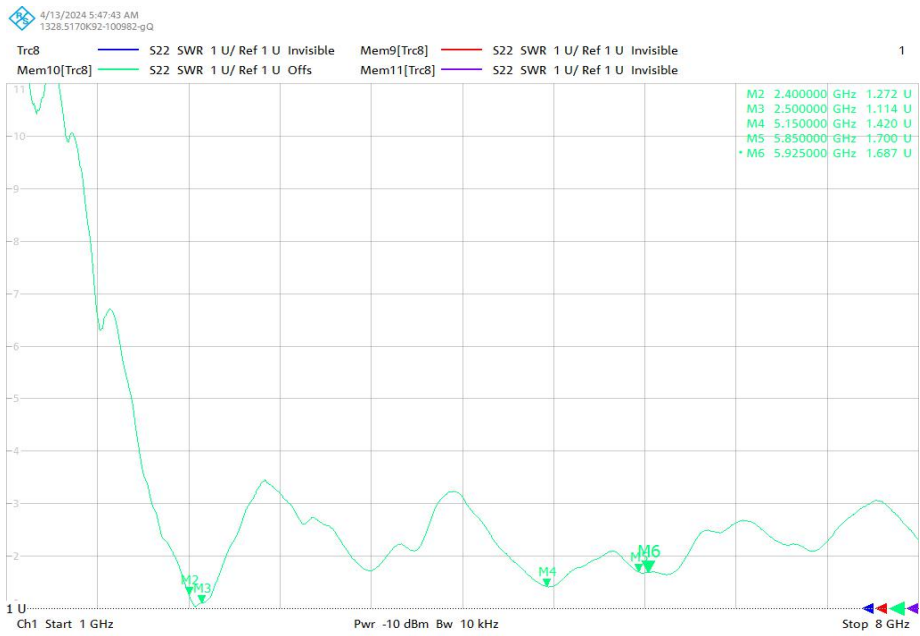


Antenna SPECIFICATION

Customer: ESPRESSIF	
Operating Freq: 2402-2502 5150-5950MHz	
Product Material Code: SH24039IV98-1	
Antenna version: SY-WIFI-ESP-Dual Band Ant V.2	
Antenna type: External PCB Antenna	

1.2 S11



	主天线
频率 (MHz)	驻波比
2.4GHz	1.27
2.5GHz	1.11
5.15GHz	1.42
5.85GHz	1.70
5.925GHz	1.69

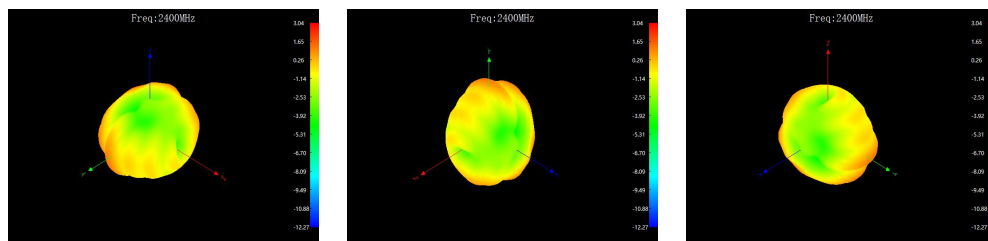
1.3 Gain/Efficiency

	Max gain(dBi)
2.4G :Band	3.86
5.2G Band	3.65
5.3G :Band	3.45
5.5G :Band	3.22
5.8G :Band	3.22

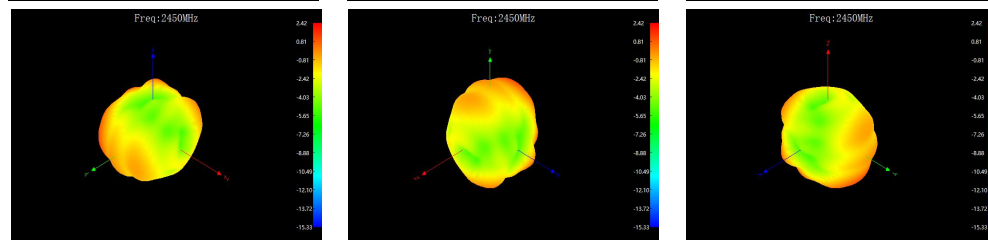
Freq. (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
2402	-1.4	72.44	3.08
2407	-1.37	72.95	3.12
2412	-1.49	70.96	3.56
2417	-1.53	70.31	3.54
2422	-1.47	71.29	3.6
2427	-1.42	72.11	3.7
2432	-1.4	72.44	3.64
2437	-1.48	71.12	3.16
2442	-1.5	70.79	3.03
2447	-1.38	72.78	2.76
2452	-1.35	73.28	2.43
2457	-1.44	71.78	2.89
2462	-1.47	71.29	3.05
2467	-1.36	73.11	3.81
2472	-1.27	74.64	3.86
2477	-1.27	74.64	3.83
2482	-1.35	73.28	3.48
2487	-1.32	73.79	3.15
2492	-1.32	73.79	2.82
2497	-1.42	72.11	2.25
2502	-1.49	70.96	3.85

Freq. (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
5150	-1.38	72.78	3.43
5200	-1.28	74.47	3.65
5250	-1.44	71.78	3
5300	-1.6	69.18	3.45
5350	-1.23	75.34	3.38
5400	-1.41	72.28	3.01
5450	-1.39	72.61	2.54
5500	-1.36	73.11	2.04
5550	-1.66	68.23	2.32
5600	-1.75	66.83	2.89
5650	-1.56	69.82	3.11
5700	-1.73	67.14	3.22
5750	-1.75	66.83	3.01
5800	-1.56	69.82	2.85
5850	-1.47	71.29	2.33
5900	-1.82	65.77	2.98
5950	-1.63	68.71	3.28

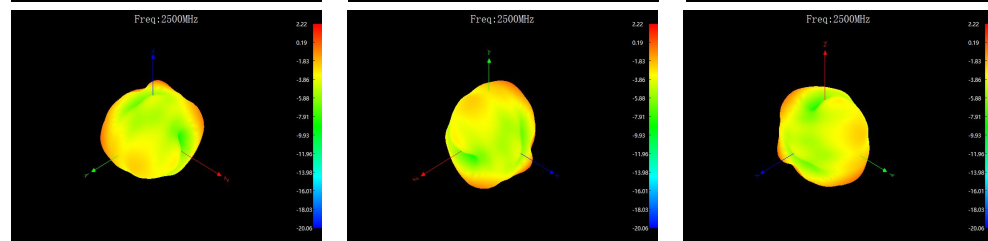
1.4 3D Directivity Pattern



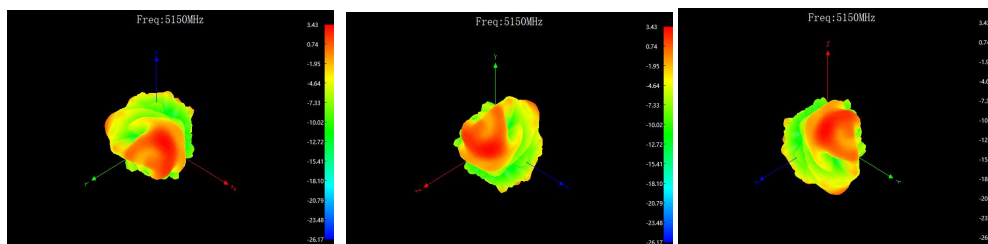
2400MHz



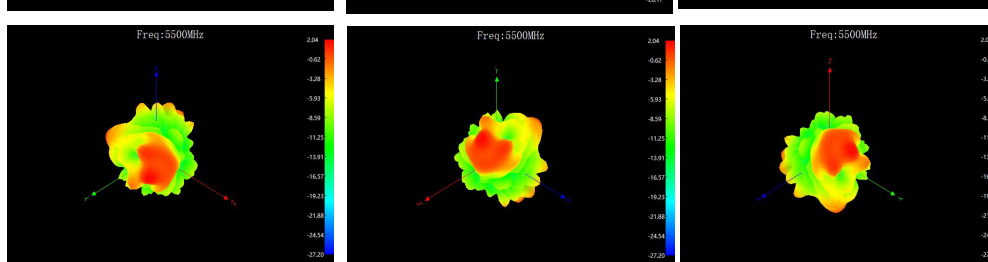
2450MHz



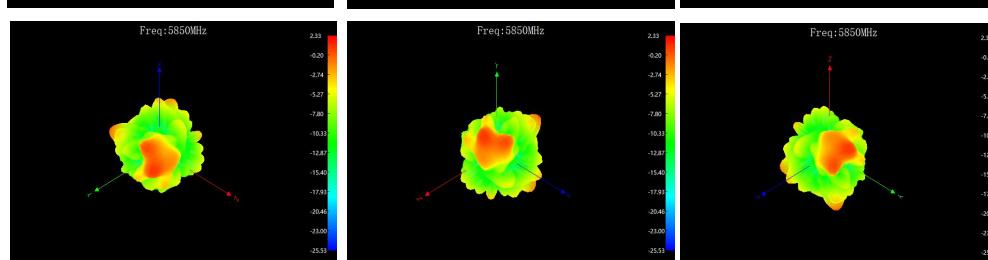
2500MHz



5150MHz



5500MHz



5850MHz