

Project Report

Customer Name: CVTE

Project name: TV board-
SKI.WB822EU.12

Development Case No.:

Version: V1.0

Structural Engineer: Tang Hailin

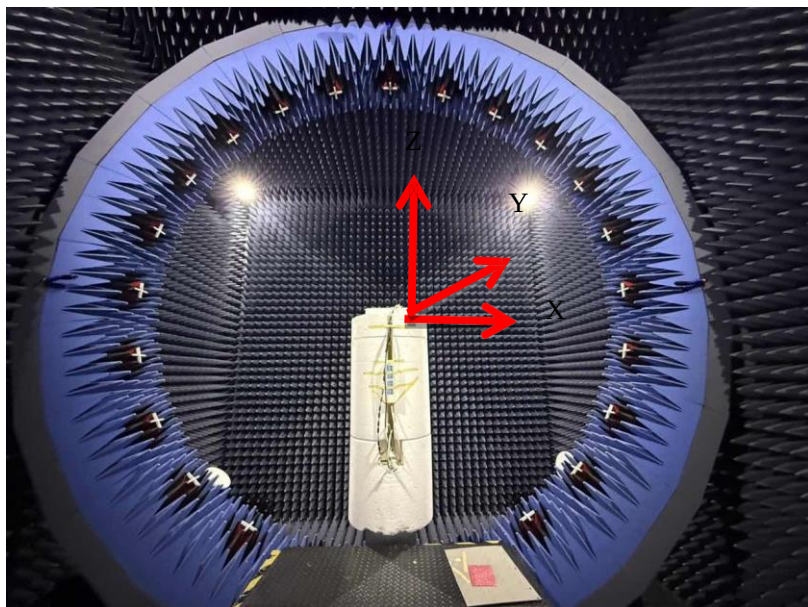
RF Engineer: Zhang Guangwei

Reviewed by: Liu Lihua

Production Date: 2025 1113

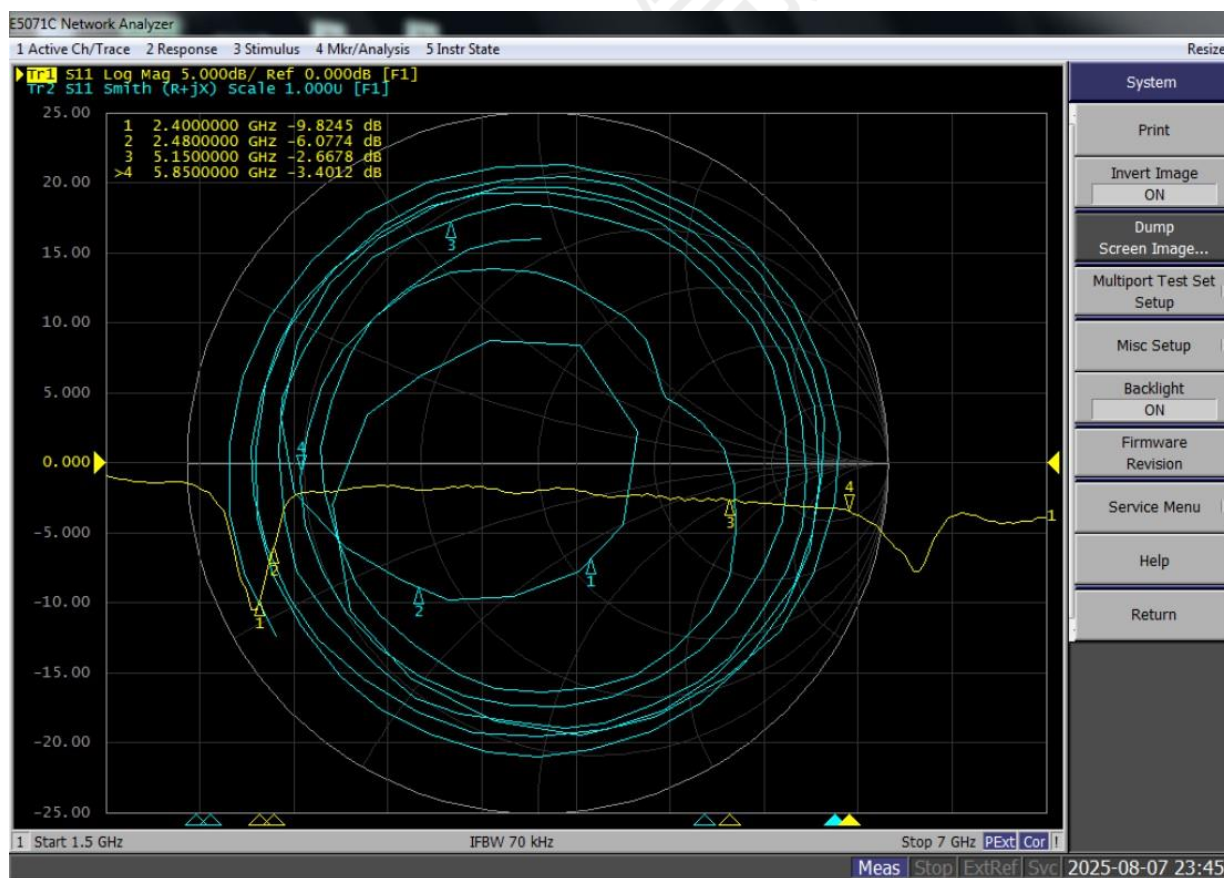
Date of revision	Repair	Order Inside Rong	Revised by	Original version
20251113		Initial version	Zhang Guangwei	V1.0

IV. Placement of antenna test darkroom



V. Antenna passive test data

- Antenna S11 parameter diagram (Bluetooth Antenna)

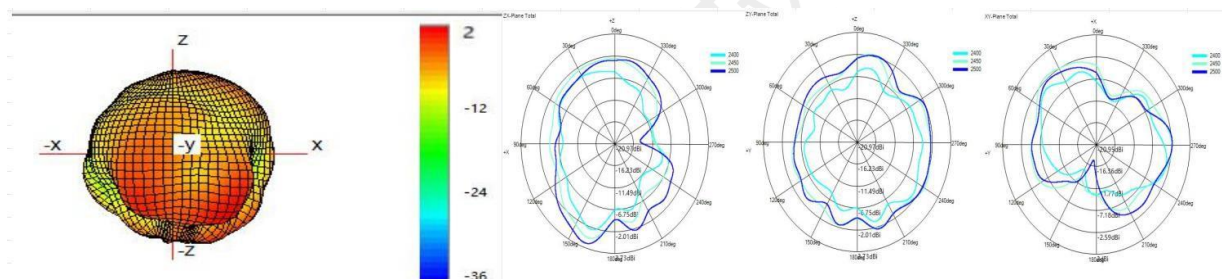


➤ Antenna anechoic chamber test data (Bluetooth antenna)

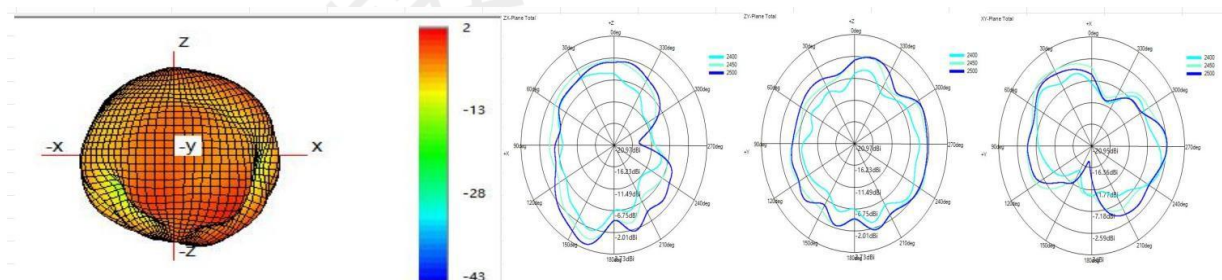
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	1.03	31.92
2410.0	1.16	35.31
2420.0	0.87	36.90
2430.0	0.51	31.94
2440.0	0.62	34.26
2450.0	1.06	35.89
2460.0	1.44	37.18
2470.0	1.70	37.37
2480.0	1.71	36.45
2490.0	1.78	36.36
2500.0	2.00	36.88

➤ Antenna pattern (Bluetooth Antenna)

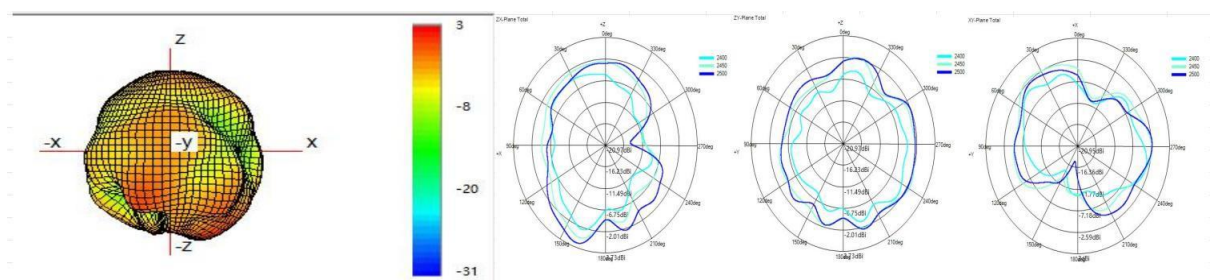
2400MHz



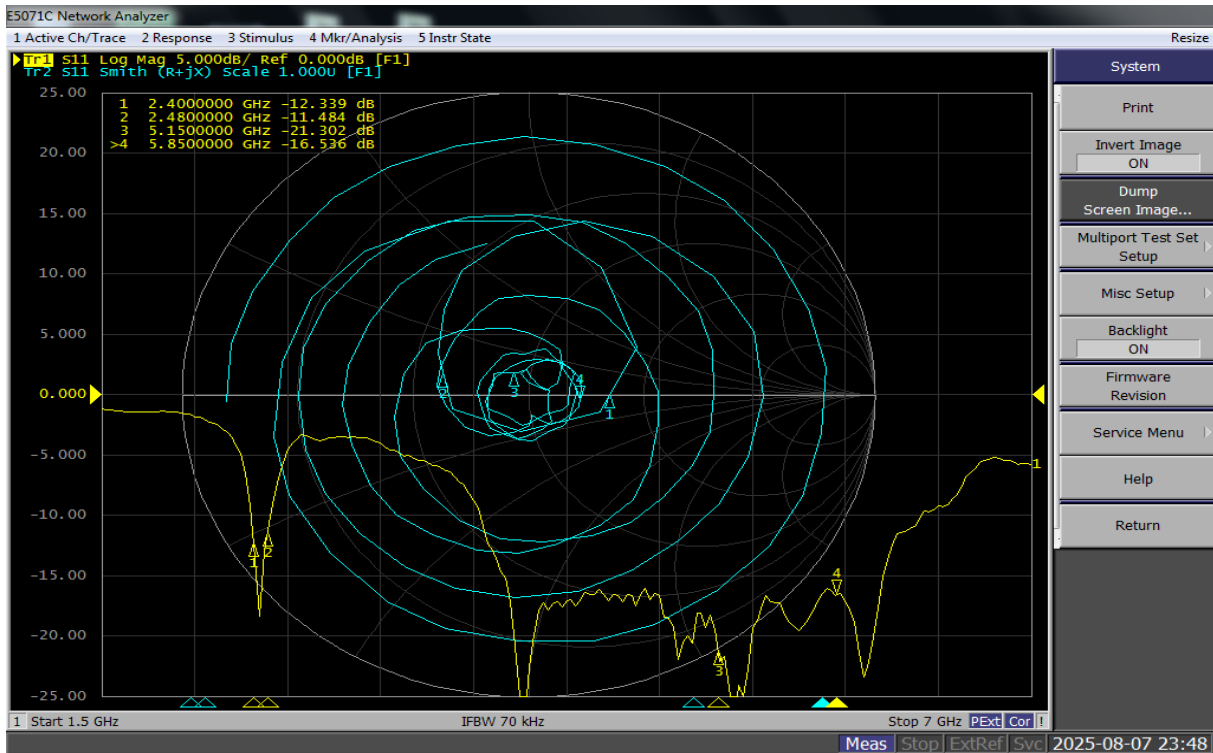
2450MHz



2500MHz



➤ Antenna S11 parameter diagram (WIFI 0 Antenna)

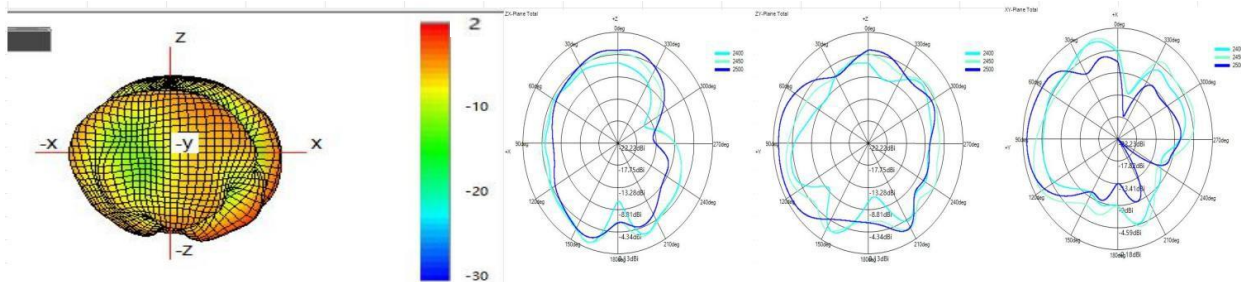


➤ Antenna darkroom test data (WIFI 0 Antenna)

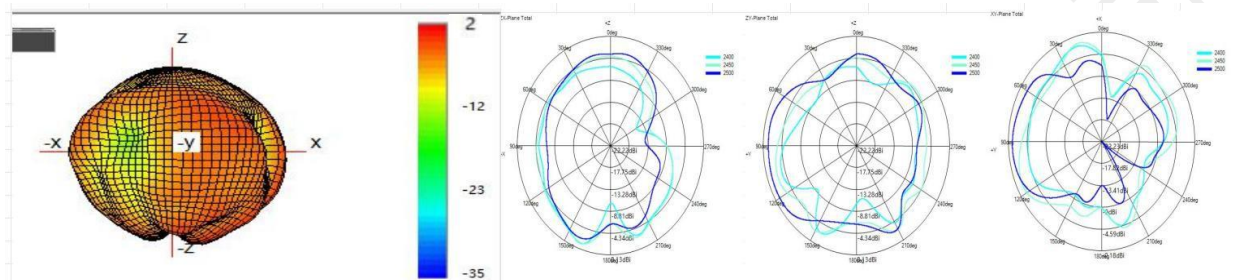
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	0.96	35.32
2410.0	0.68	37.39
2420.0	0.85	39.83
2430.0	0.83	32.03
2440.0	1.06	33.28
2450.0	1.18	33.37
2460.0	1.20	32.92
2470.0	1.32	31.37
2480.0	1.56	38.97
2490.0	1.61	38.07
2500.0	1.48	38.57
5150.0	1.94	52.47
5250.0	1.72	50.50
5350.0	1.89	51.81
5450.0	2.35	51.45
5550.0	2.42	50.72
5650.0	2.21	58.66
5750.0	2.50	50.99
5850.0	2.41	53.44

➤ Antenna pattern (WIFI 0 Antenna)

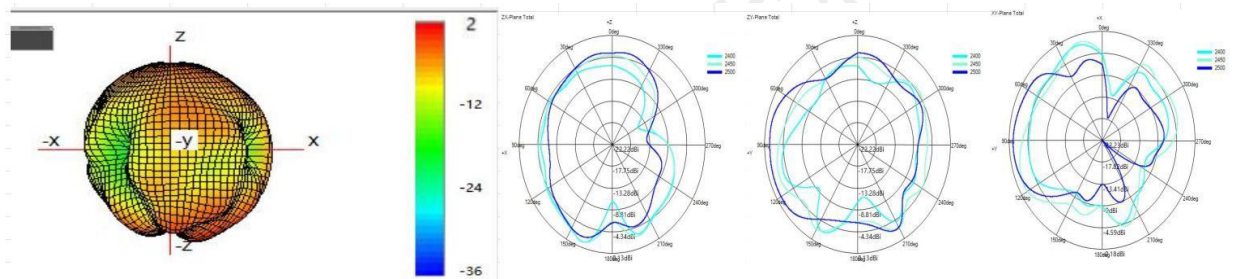
2400MHz



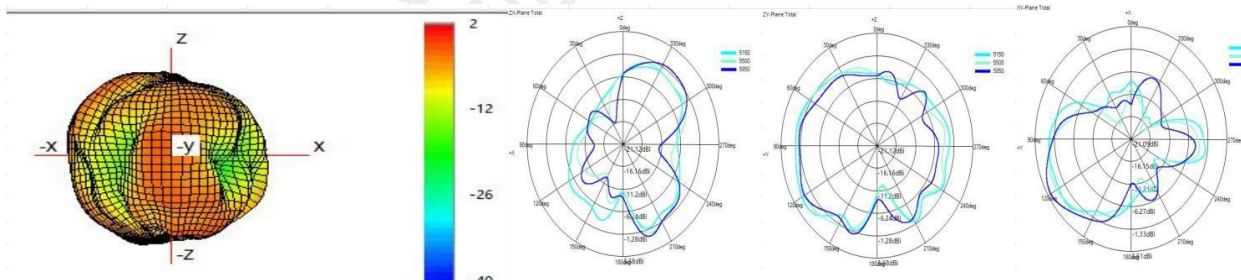
2450MHz



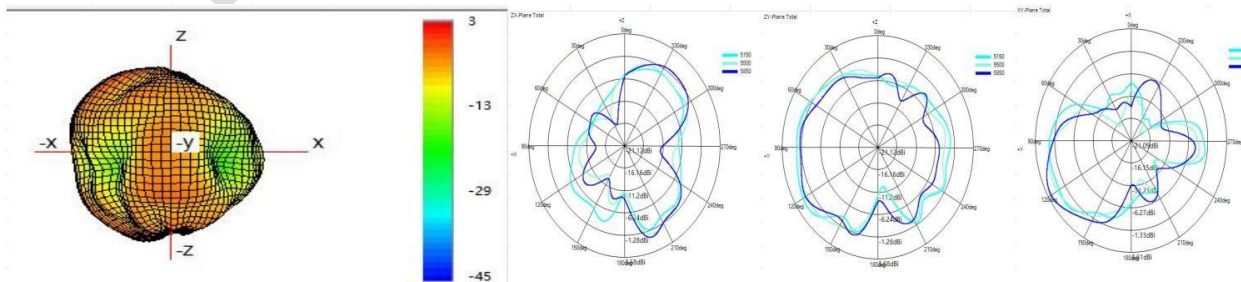
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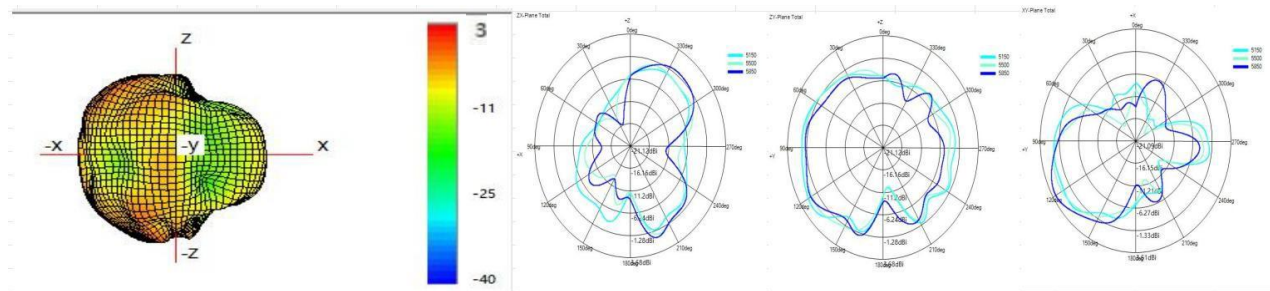
5150MHz



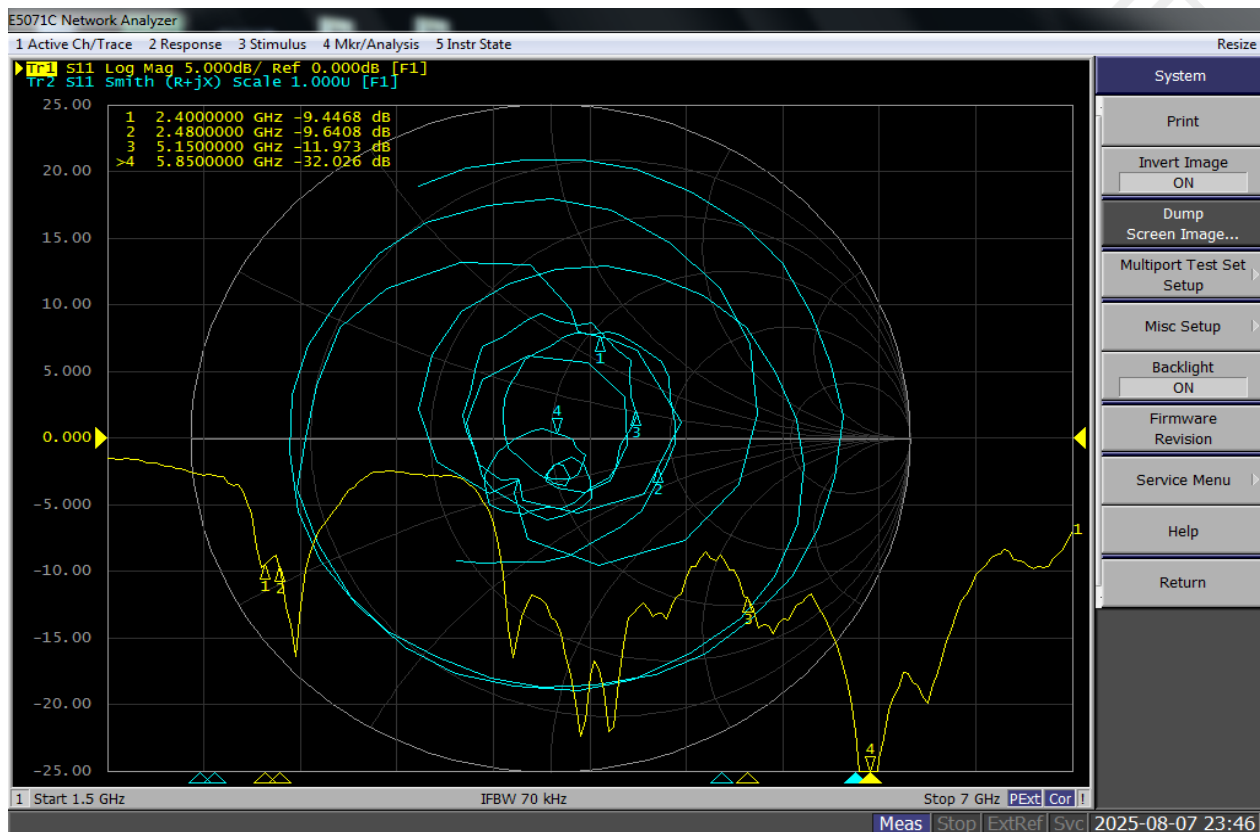
5500MHz



5850MHz



➤ Antenna S11 parameter diagram (WIFI 1 Antenna)

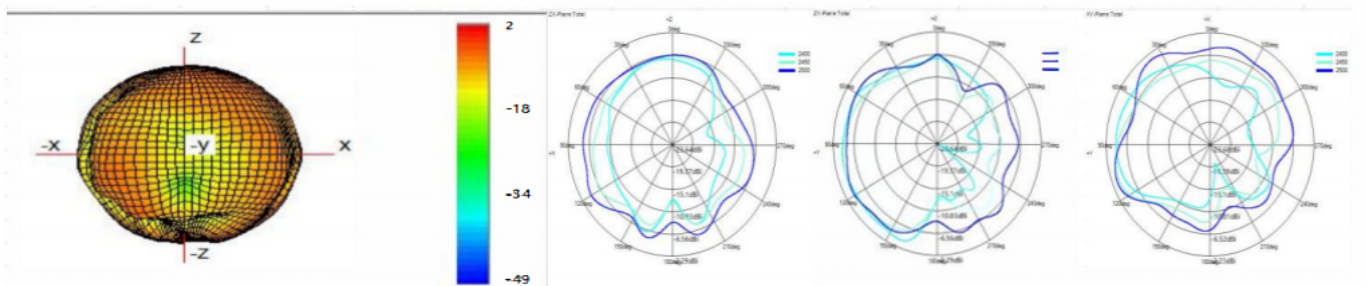


> Antenna Anechoic Chamber Test Data (WIFI1 Antenna)

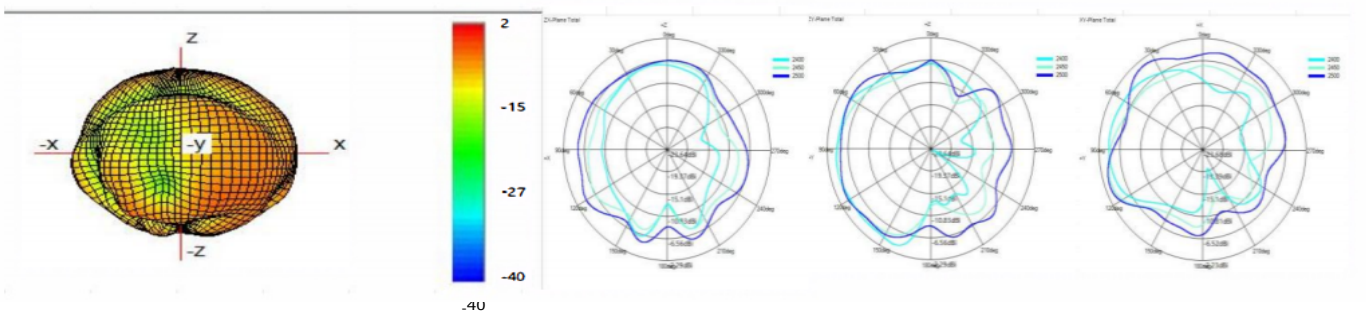
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	1.21	35.02
2410.0	1.34	34.10
2420.0	0.89	33.35
2430.0	0.97	33.84
2440.0	1.35	34.77
2450.0	1.45	35.75
2460.0	1.74	37.32
2470.0	1.29	39.33
2480.0	1.12	30.83
2490.0	1.67	32.14
2500.0	1.45	33.62
5150.0	1.78	52.49
5250.0	1.63	55.47
5350.0	0.85	51.54
5450.0	0.33	54.18
5550.0	0.77	54.92
5650.0	1.03	57.91
5750.0	1.04	55.32
5850.0	1.95	52.22

> Antenna Pattern (WIFI1 Antenna)

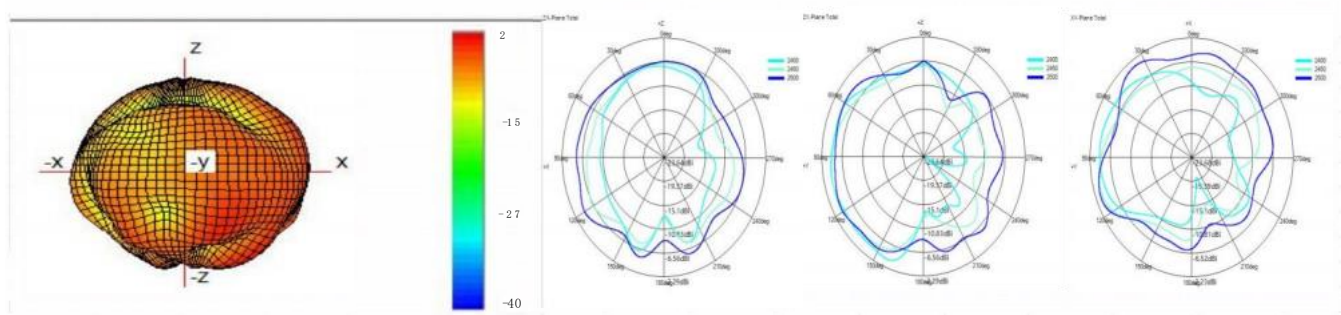
2400MHz



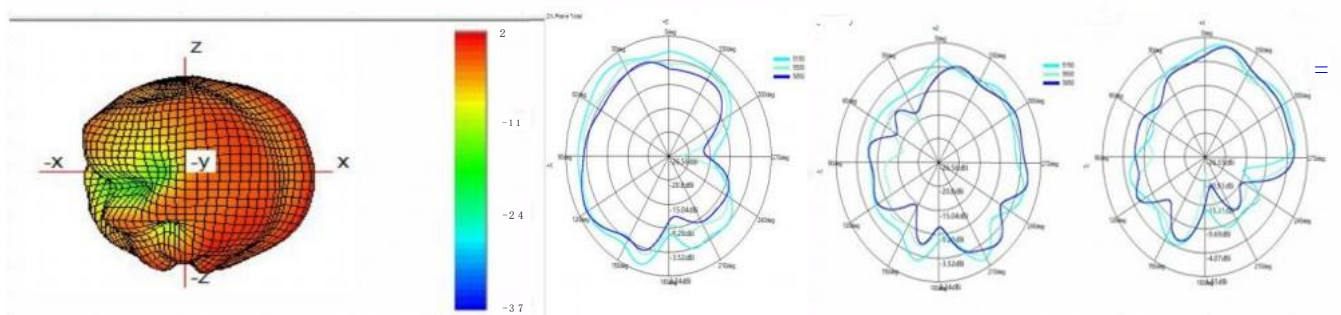
2450MHz



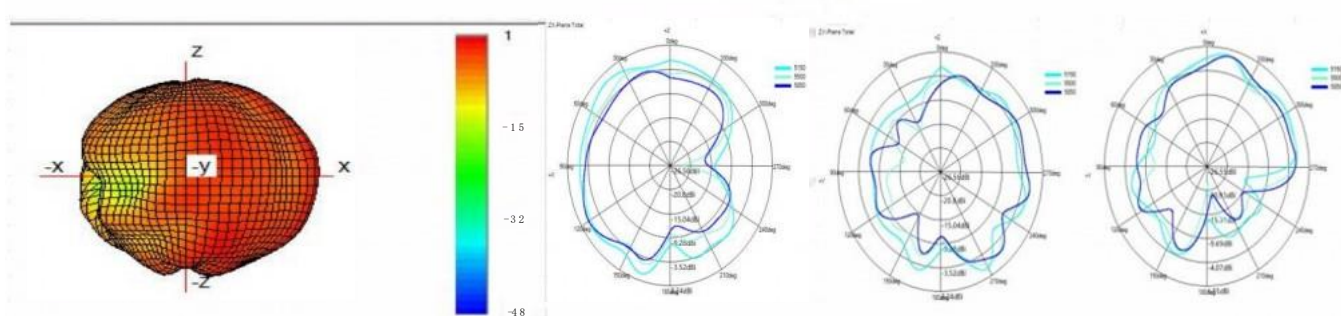
2500MHz



5150MHz



5500MHz



5850MHz

