

SPECIFICATION FOR APPROVAL

CUS PART NO: HD-CA

PART NAME: WIRELESS CONVERSION ADAPTER

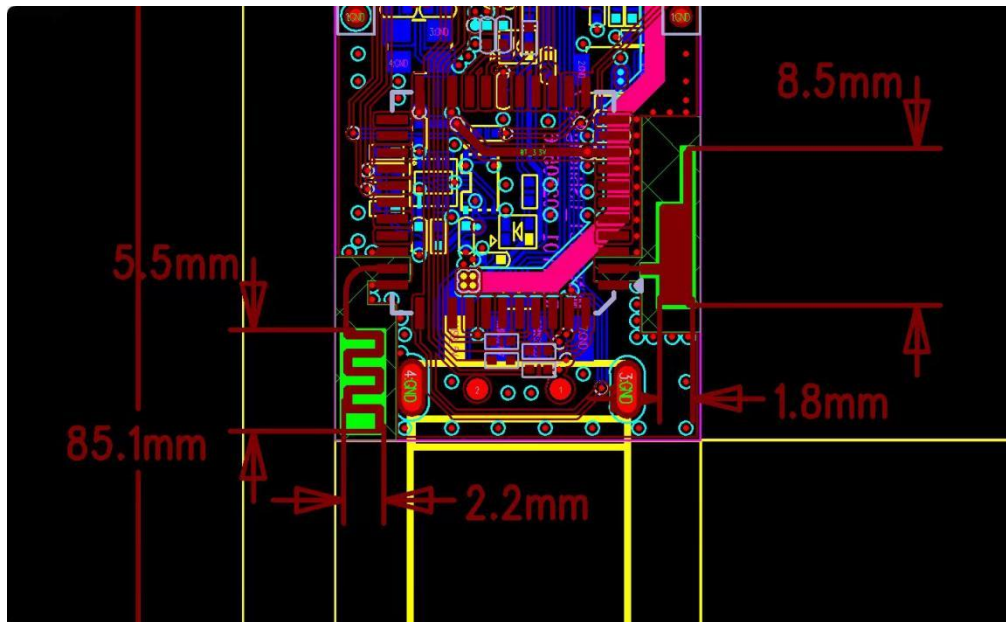
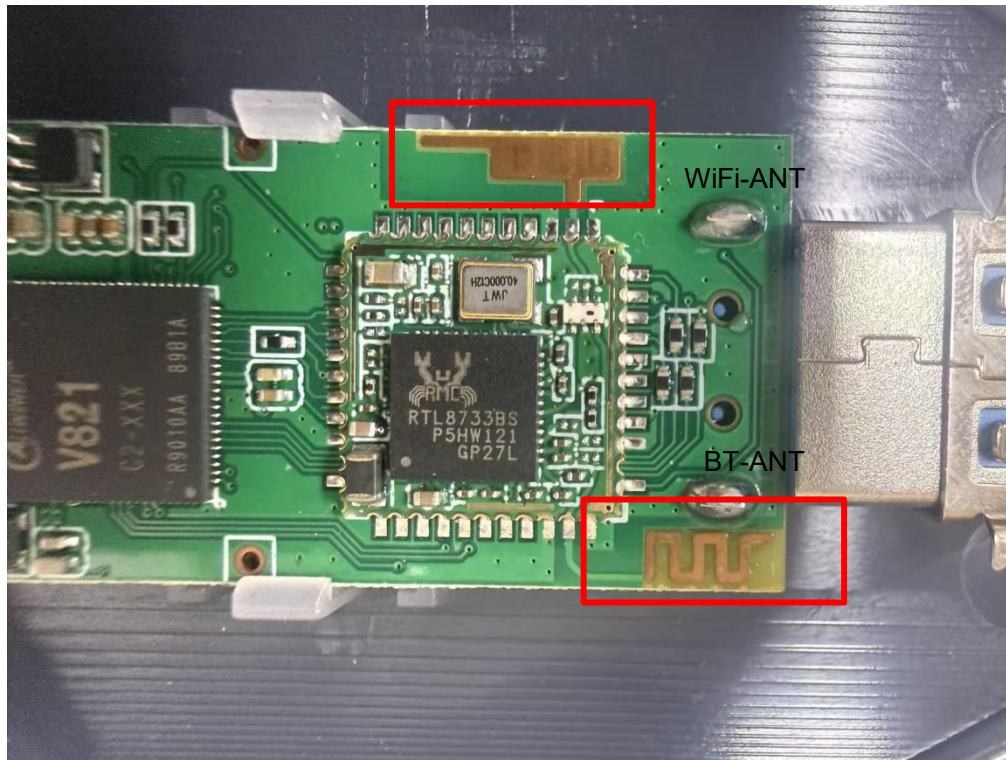
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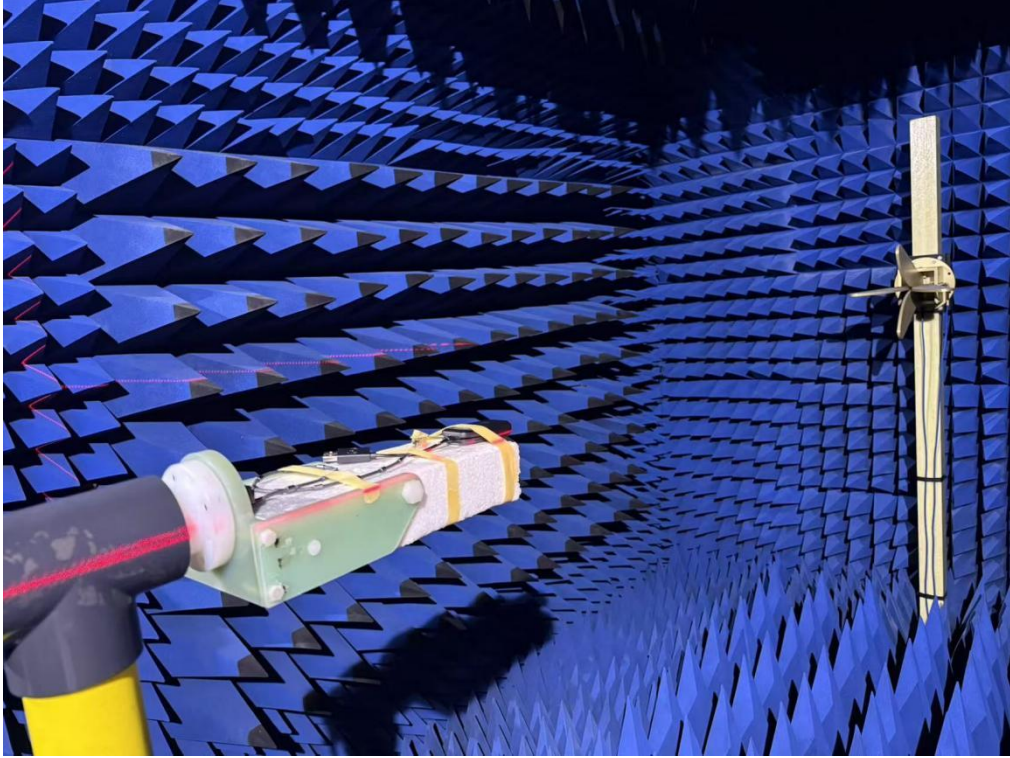
1. Performance parameter

Name	WIRELESS CONVERSION ADAPTER
Model Type	PCB Antenna
Frenquency Range	BT-ANT:2400-2500 MHz WiFi-ANT:5150-5850 MHz
SIZE	/
Impedance	50 Ω
VSWR	BT-ANT :< 14.17 WiFi-ANT: < 3.44
Max Gain	BT-ANT:-6.84 dBi WiFi-ANT: 5.07 dBi
Manufacture	Shandong Tuopu Decoration Design Co., Ltd
Address	2-1202, Bldg 4, Qingfeng Riverside, East Longding Ave, Lixia Dist, Jinan, Shandong

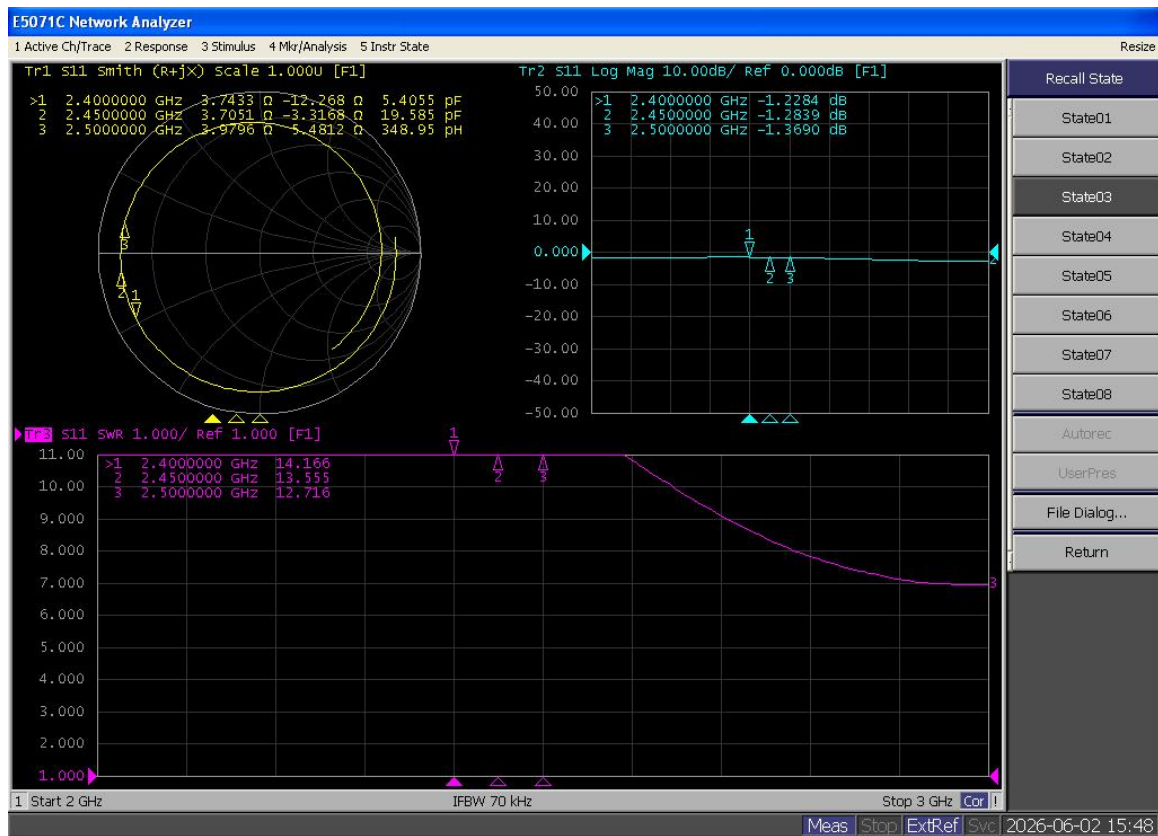
2.Appearance



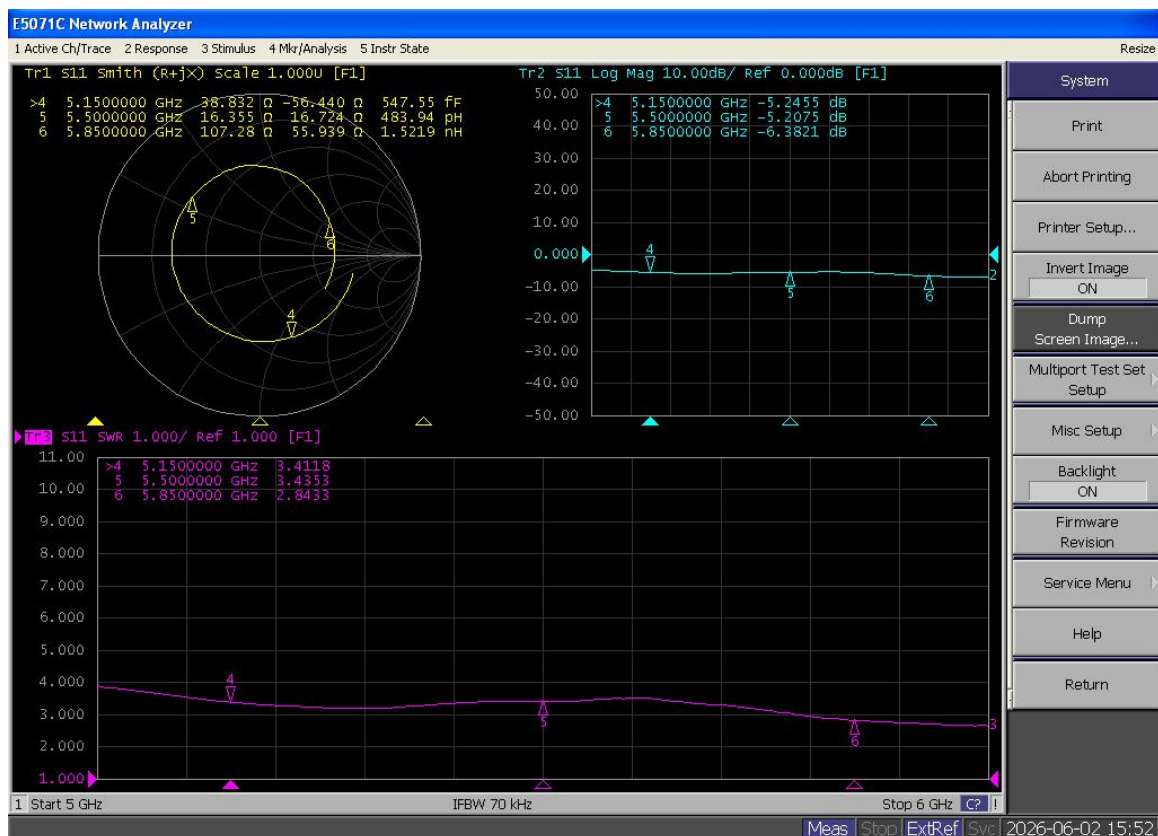
3.EUT setup photo of free space OTA testing



4.VSWRparameters



BT-ANT



WiFi-ANT

Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	14.17	13.53	12.72	3.41	3.44	2.84

5.Passive test data:

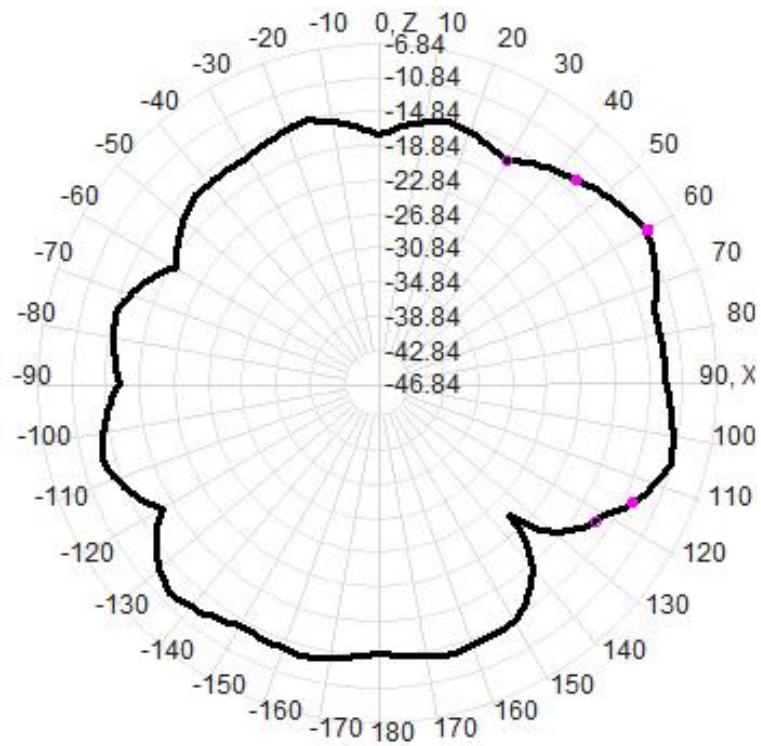
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	-8.87	-8.05	-9.33	-7.89	-9.39	-7.72	-8.28	-6.84	-6.84	-7.53	-7.61
Efficiency(%)	3.40	3.25	3.47	3.62	3.70	4.27	3.95	4.43	4.55	4.62	4.67

Frequency(MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0
Gain(dBi)	1.51	1.95	3.79	2.34	3.47	3.03	5.07	3.58
Efficiency(%)	34.23	43.25	44.64	50.00	47.97	46.01	59.98	63.92

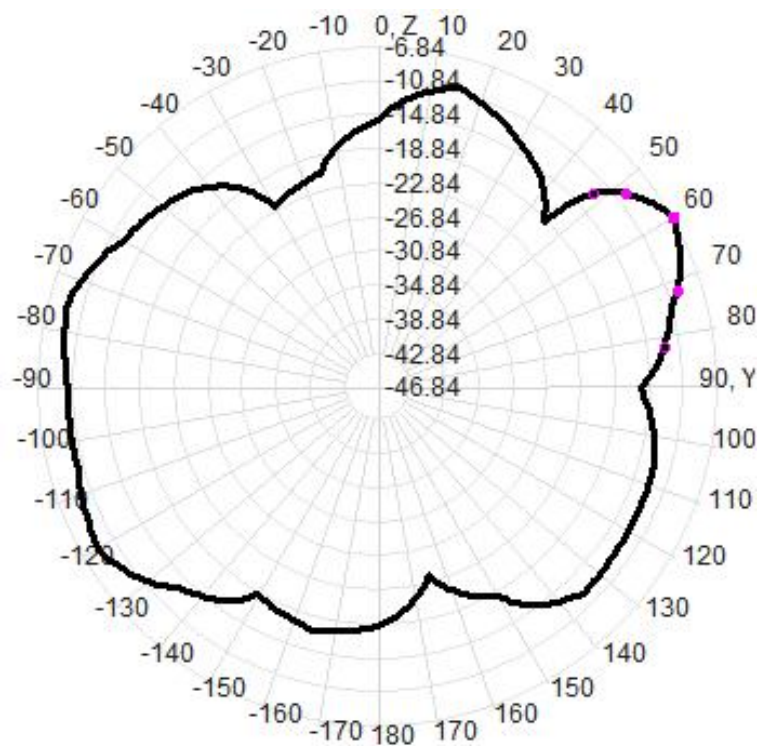
Frequency(MHz)	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain(dBi)	3.43	4.67	3.61	3.39	3.14	3.89	5.04
Efficiency(%)	59.25	63.45	68.27	57.85	57.83	52.59	55.08

6. Radiation pattern

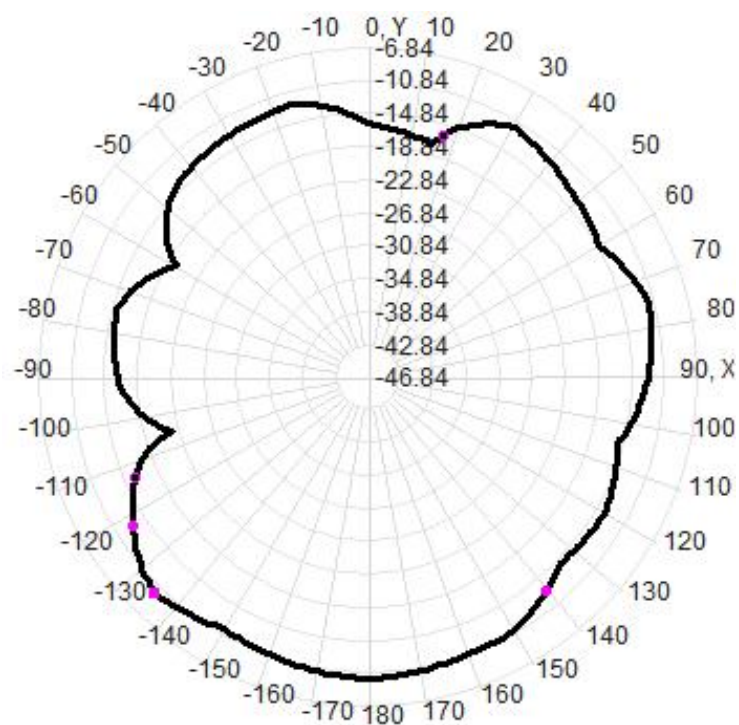
2470.0MHz Total(E1-XZ), Max= -10.51dBi



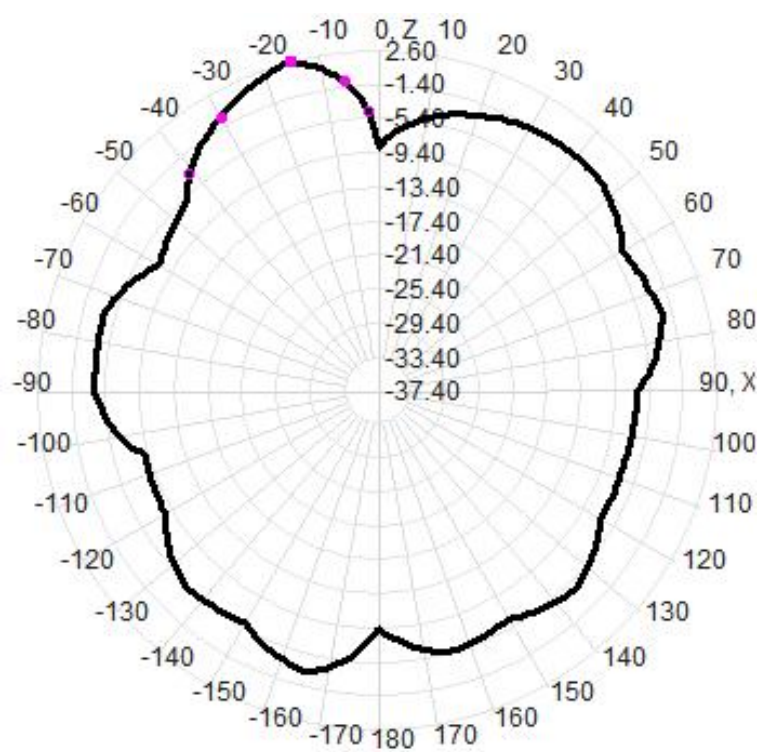
2470.0MHz Total(E2-YZ), Max= -6.84dBi



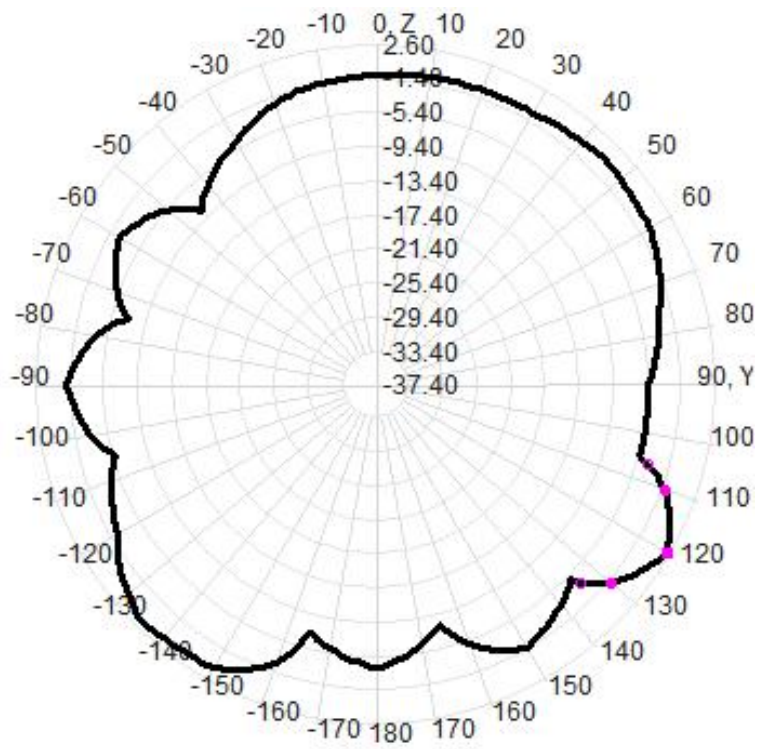
Total(H-XY), Max= -10.13dBi, CirD=12.19



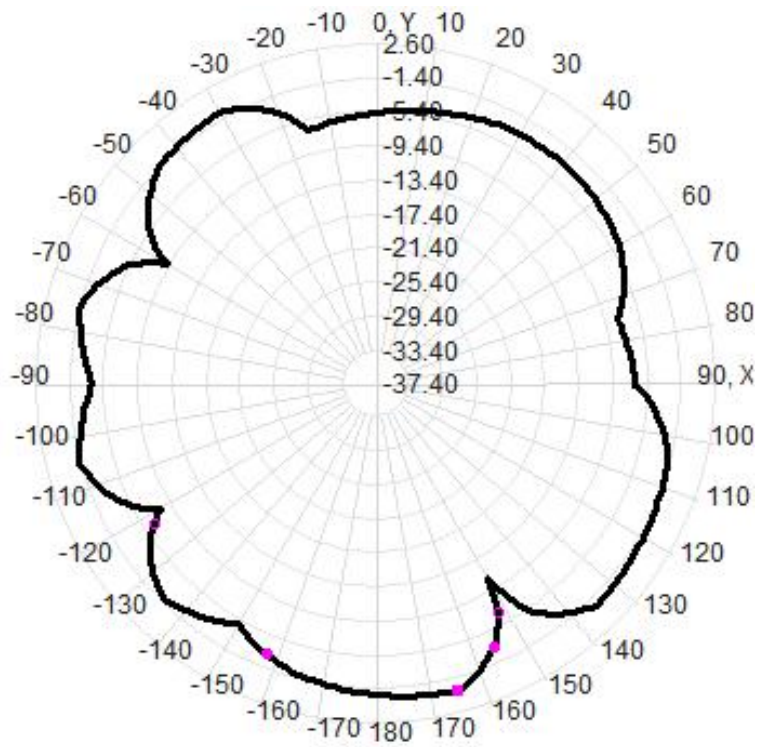
5450.0MHz Total(E1-XZ), Max= 2.60dBi



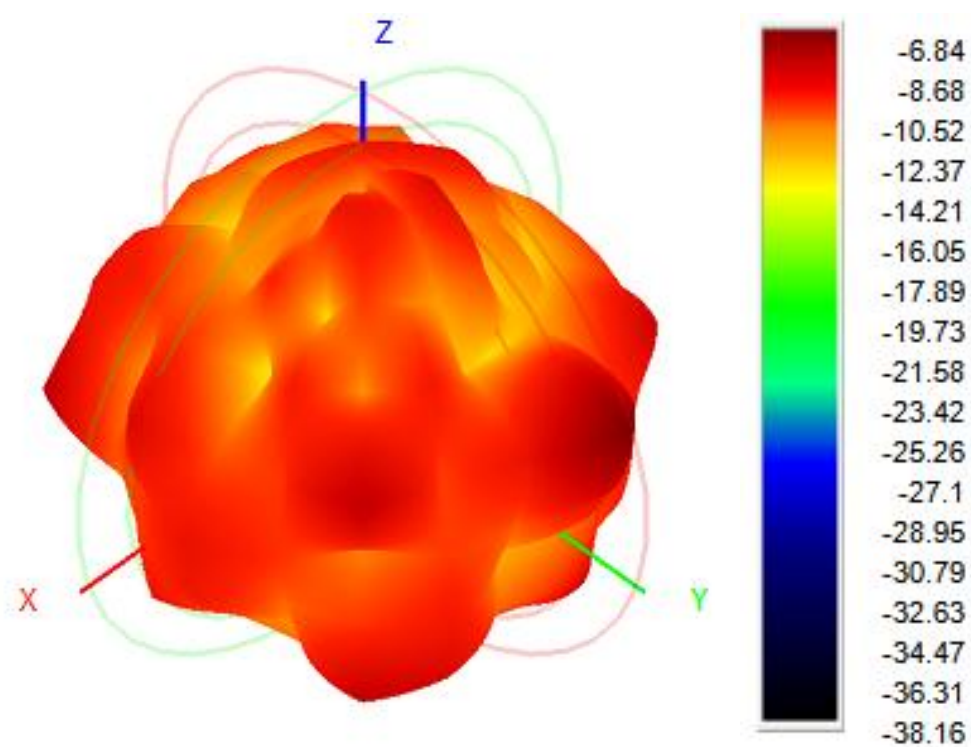
5450.0MHz Total(E2-YZ), Max= 1.97dBi



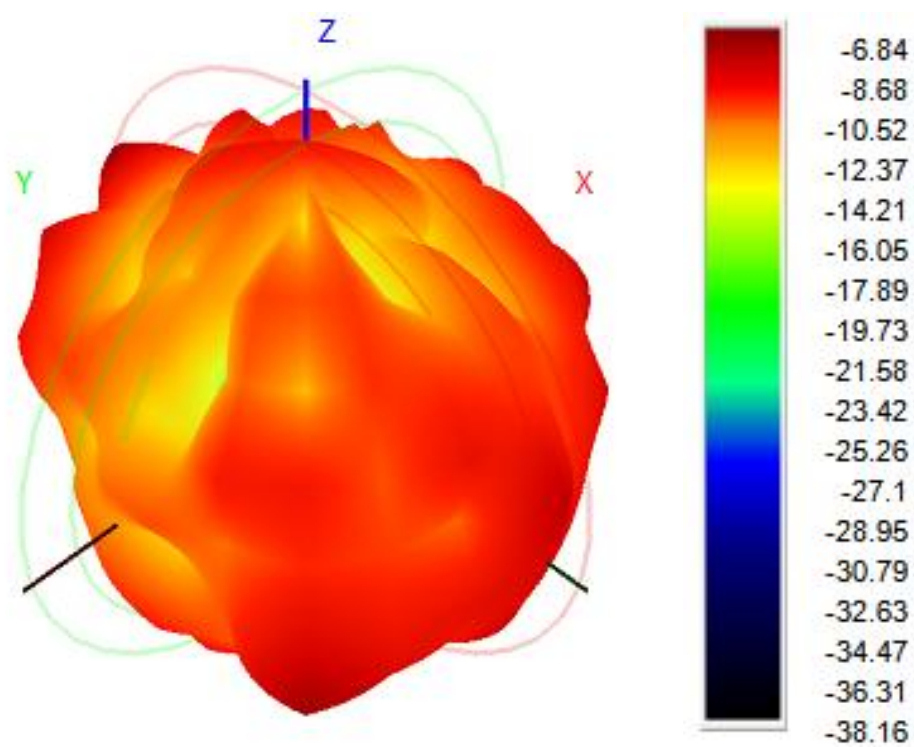
Total(H-XY), Max= -0.17dBi, CirD=11.08



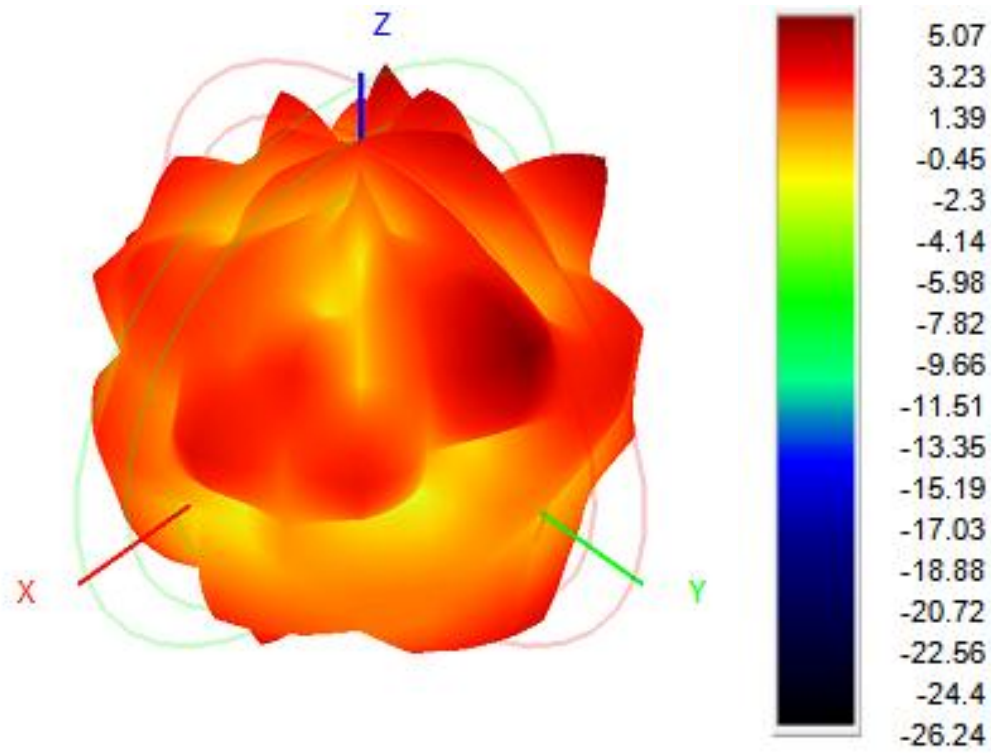
2470.0MHz H+V, Eff: 4.4%



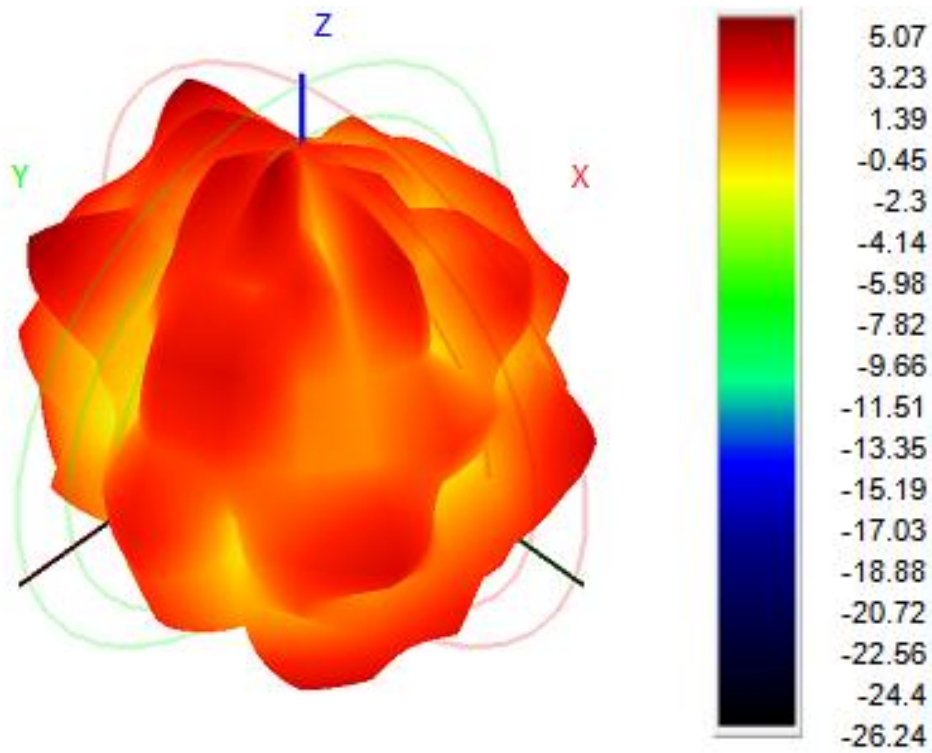
Back View



5450.0MHz H+V, Eff: 60.0%



Back View



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