

SPECIFICATION FOR APPROVAL

CUST OMER: Shenzhen Ai-Thinker Technology Co., LtdCUS PART NO: BW20-12FPART NAME: 2.4G/5G WLAN AntennaEdition: V1.0

Editor	Lv Xihuan	2024/08/07
Verifier	Guan Ning	2024/08/07
Approver	Xu Fuqiang	2024/08/07

**SHENZHEN B&T TECHNOLOGY Co., Ltd****ZHONGSHAN B&T TECHNOLOGY Co., Ltd**

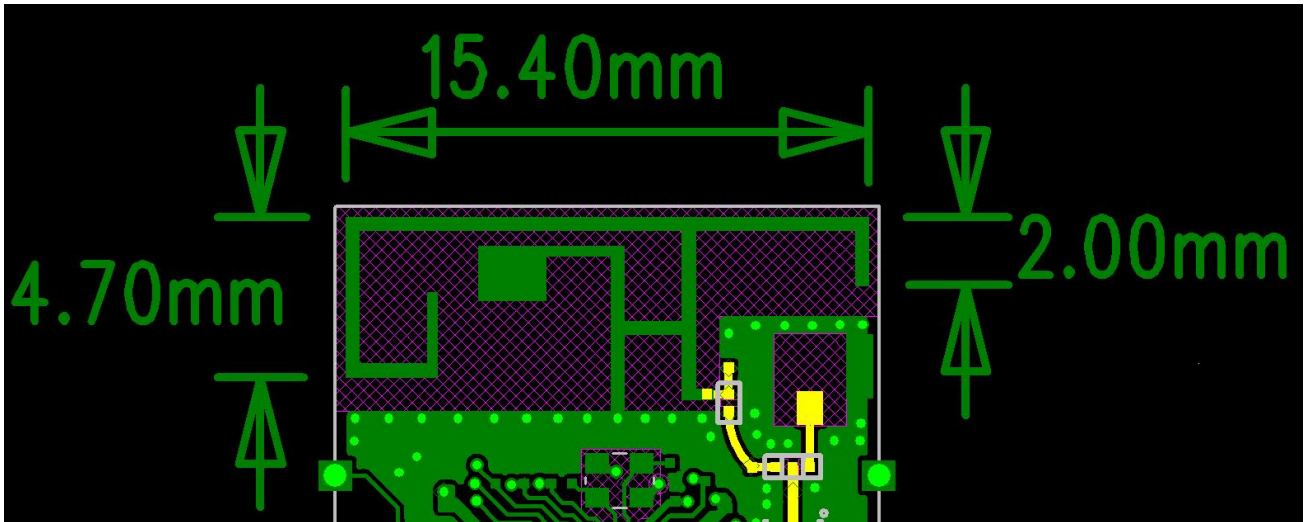
Address: 3-4/F, Building A, Dongfang Industrial Park, Nanlang Town,
Zhongshan City, Guangdong Province, China

Directory

1. Antenna Dimension	- 3 -
2. Performance parameter	- 3 -
3. VSWR	- 4 -
4. Passive test data:	- 4 -

Product specification

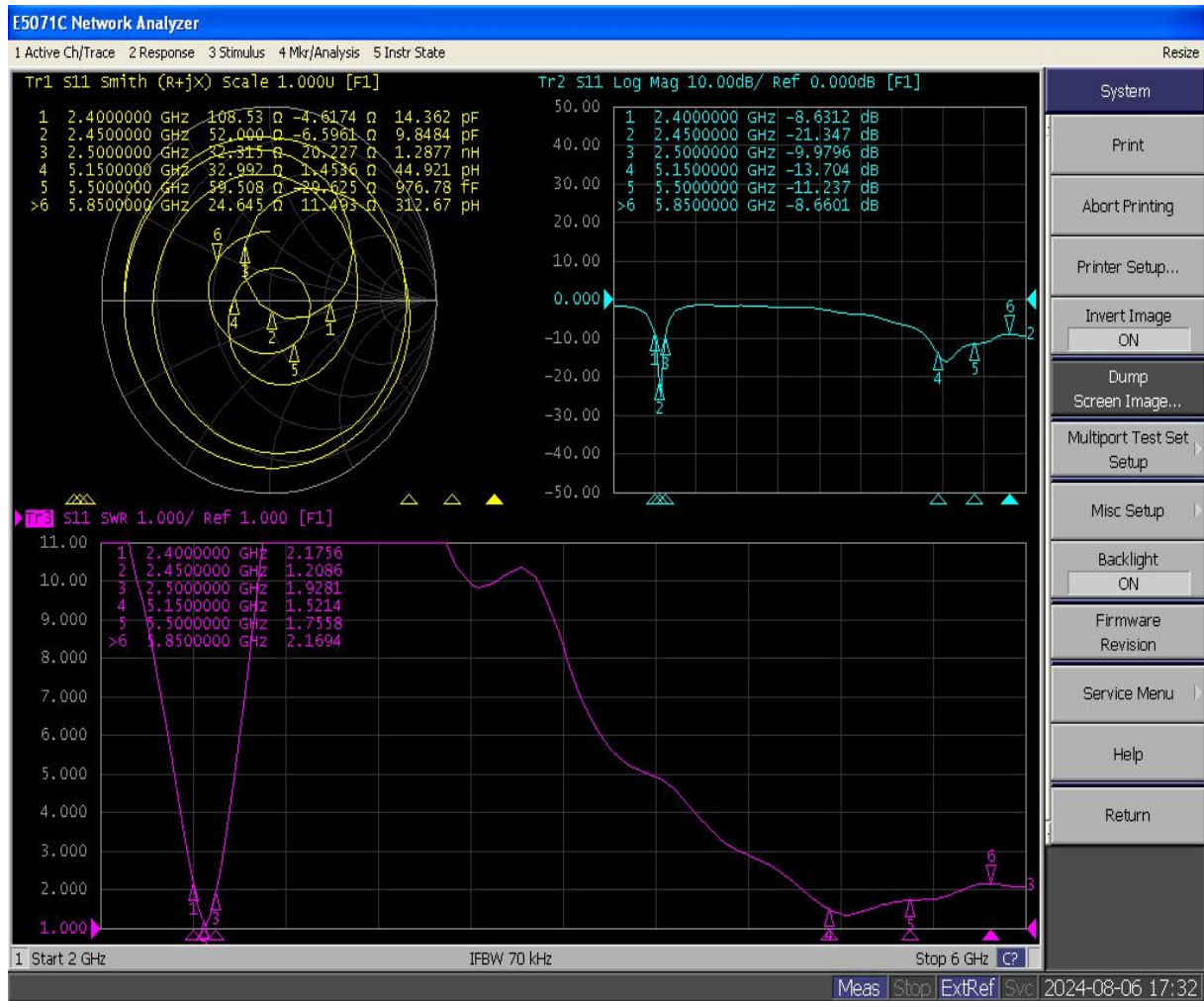
1. Antenna Dimension



2. Performance parameter

Name	2.4G/5G WLAN Antenna	
Model Type	PCB Print Antenna	
ELECTRICAL SPECTFICATIONS		
Frenquency Range	2400-2500MHz/5150-5850MHz	
Band Width	2.4G	100MHz
	5G	700MHz
Impedance	50 Ω	
VSWR	< 2.5	
Max Gain	2.4G	2.33dBi
	5G	5.33dBi
Polarization	Vertical/Horizontal	
Radiation	Omnidirectional	
Power	<1W	

3. VSWR

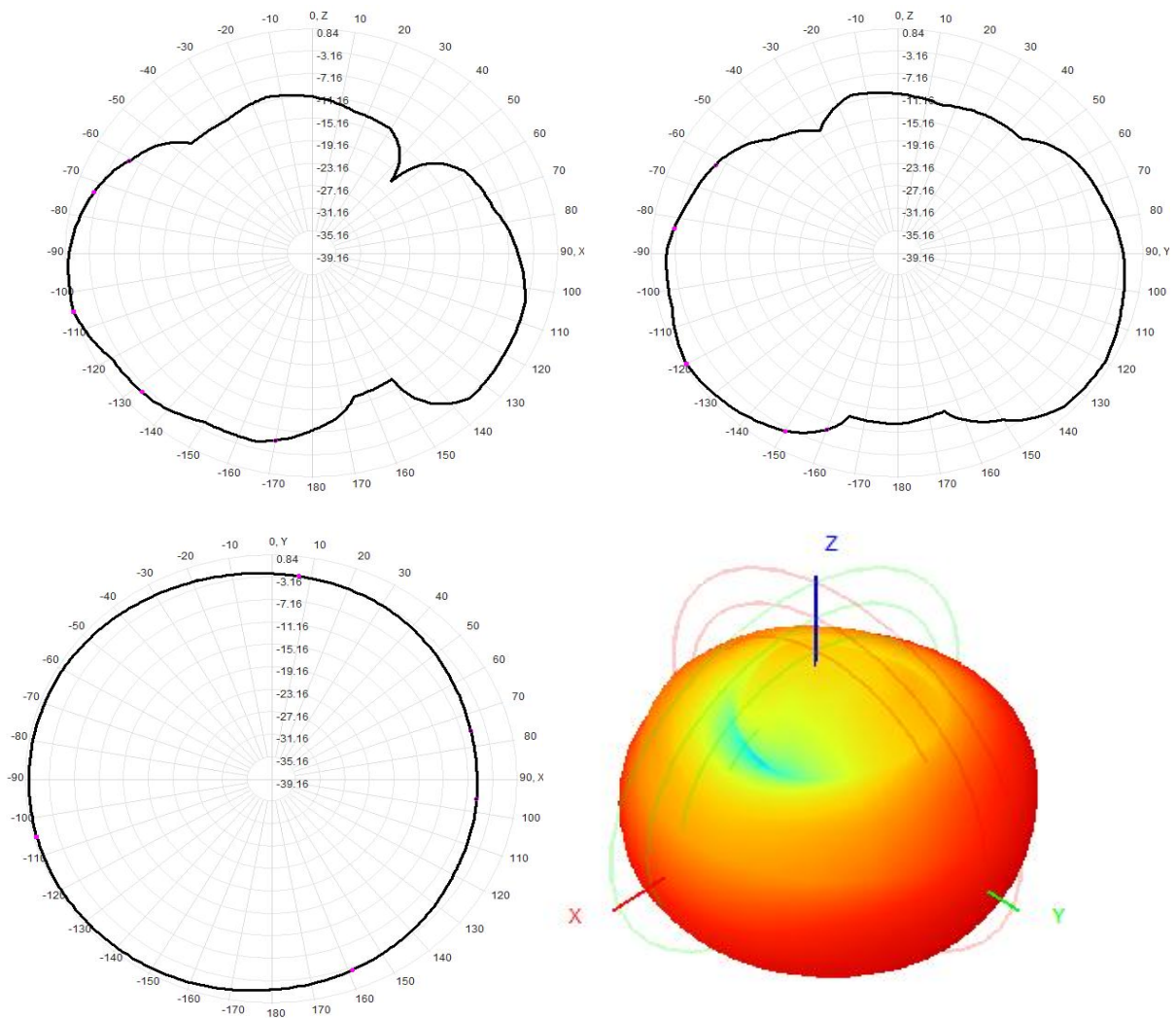


4. Passive test data:

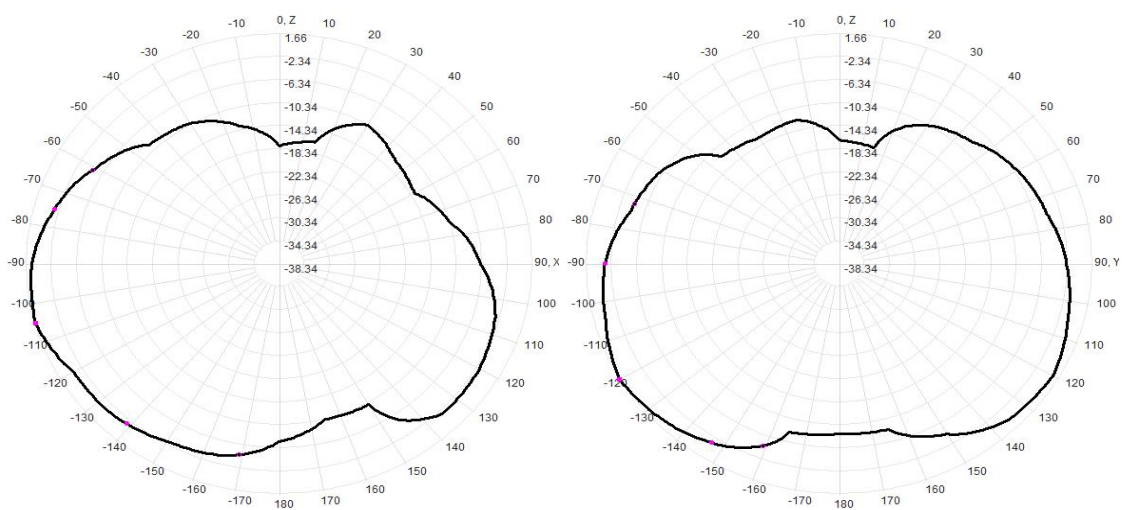
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.17	1.32	1.75	1.97	2.10	2.29	2.33	2.33	2.29	2.26	2.23
Efficiency (%)	45.05	44.76	47.37	48.31	49.44	51.79	52.22	51.90	50.80	49.79	48.01
Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	/	/	/
Gain (dBi)	2.91	2.02	3.00	2.29	2.33	3.79	3.46	5.33	/	/	/
Efficiency (%)	66.67	47.03	61.99	60.80	54.01	57.89	48.37	63.91	/	/	/

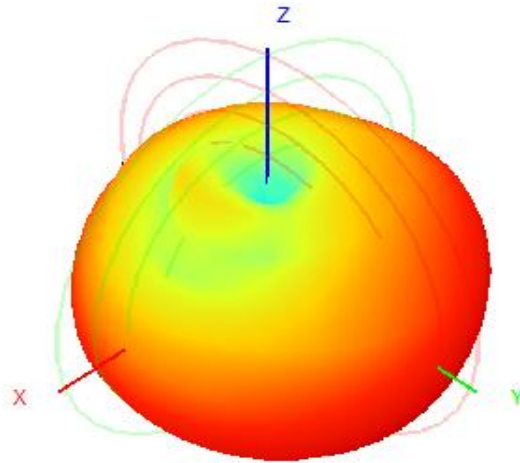
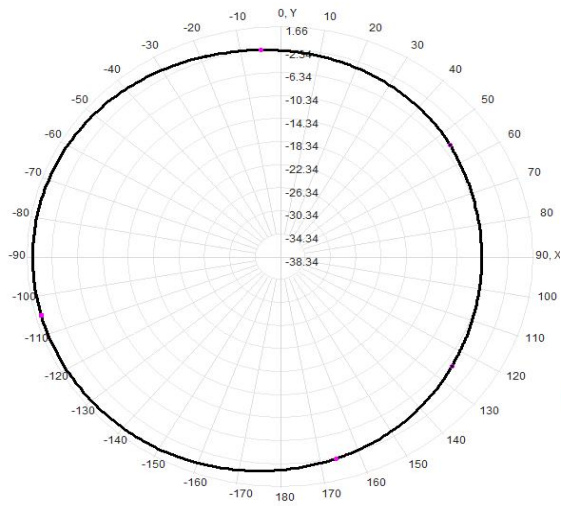
5. Radiation pattern

(1) 2400MHz

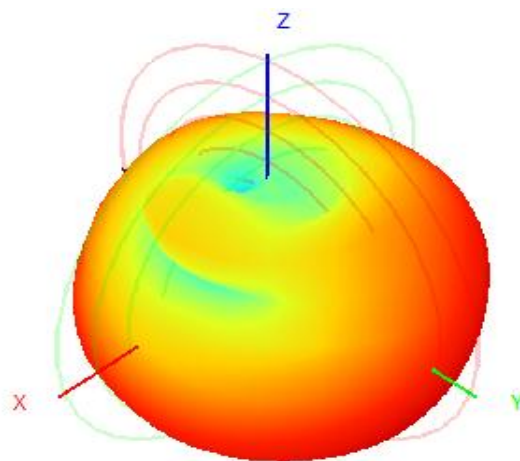
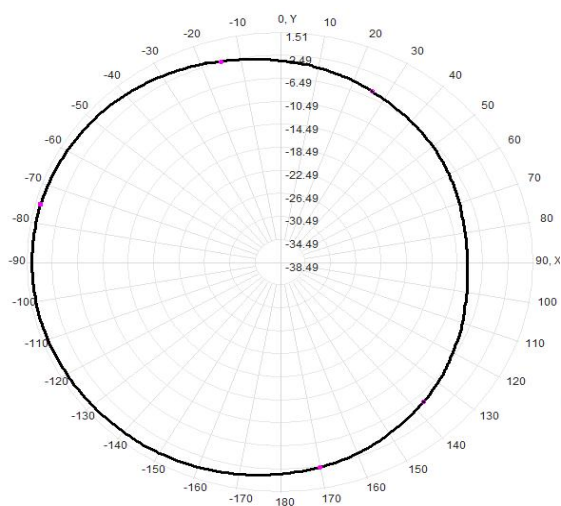
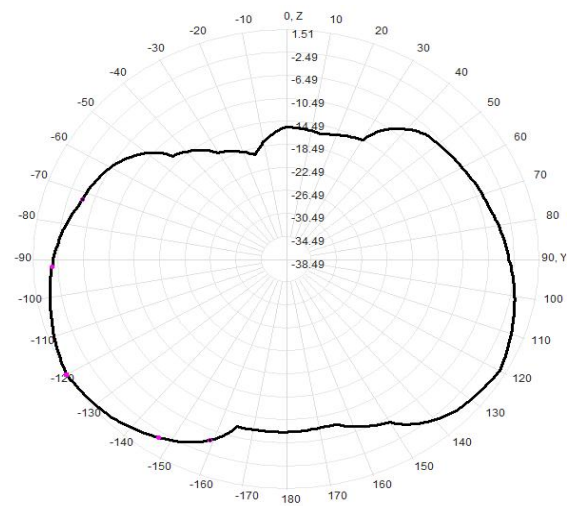
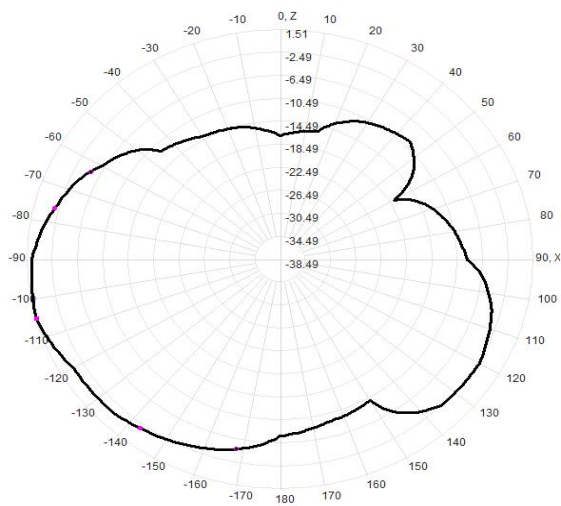


(2) 2450MHz

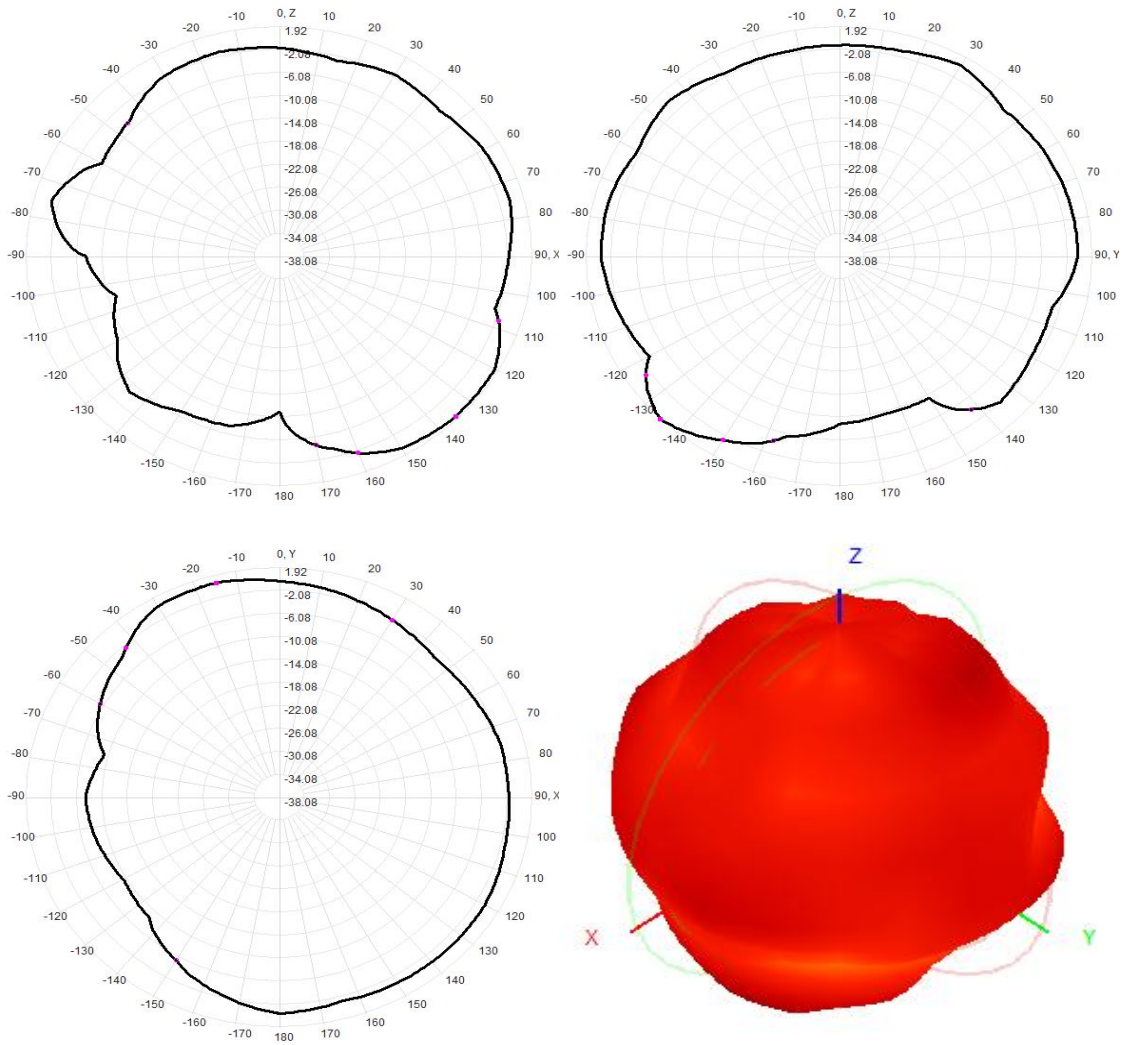




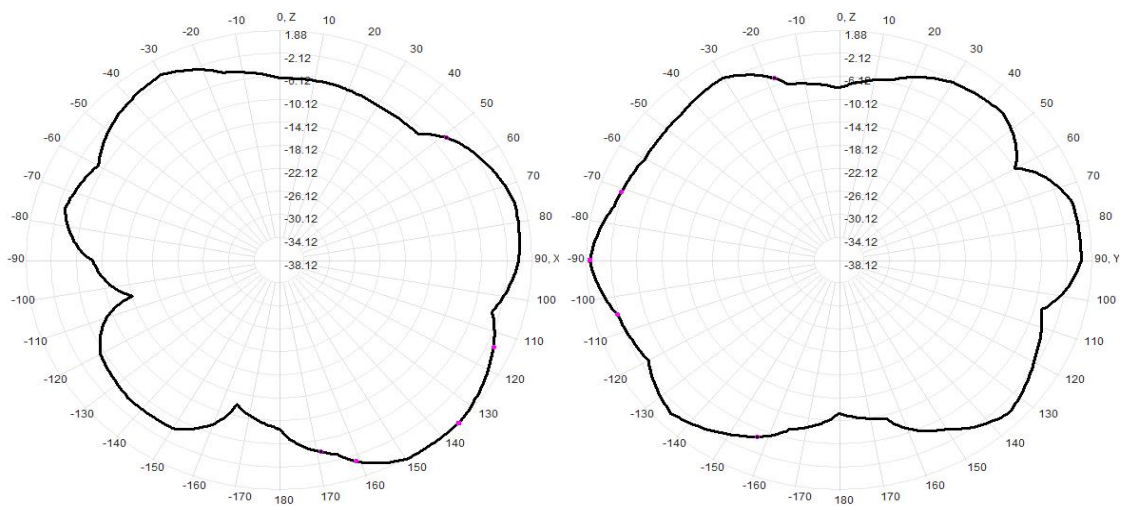
(3) 2500MHz

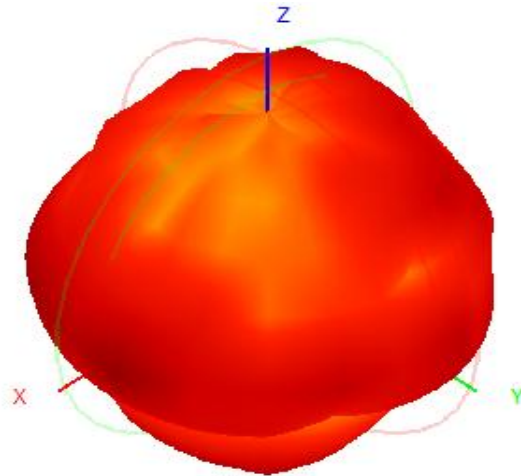
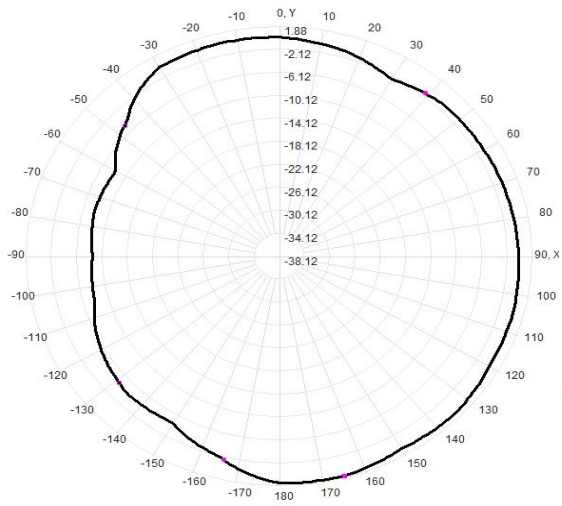


(4) 5150MHz



(5) 5450MHz





(6) 5850MHz

