

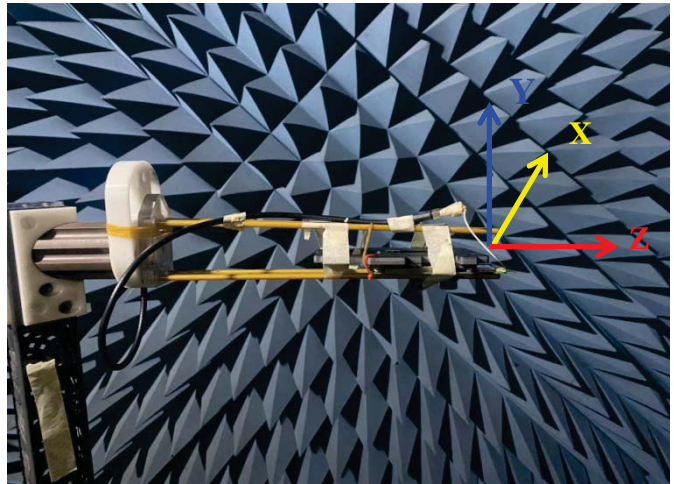
# Smart TV Box Antenna Test Result

## OTA Test Condition & Chamber Coordinate System

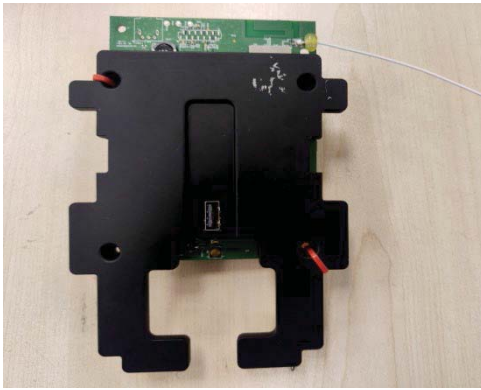
OTA Test System – ETS AMS8600



Antenna Photo

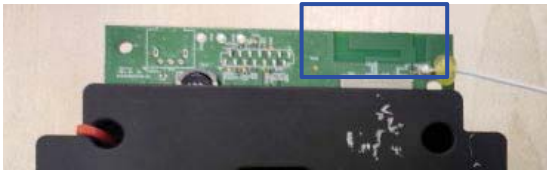
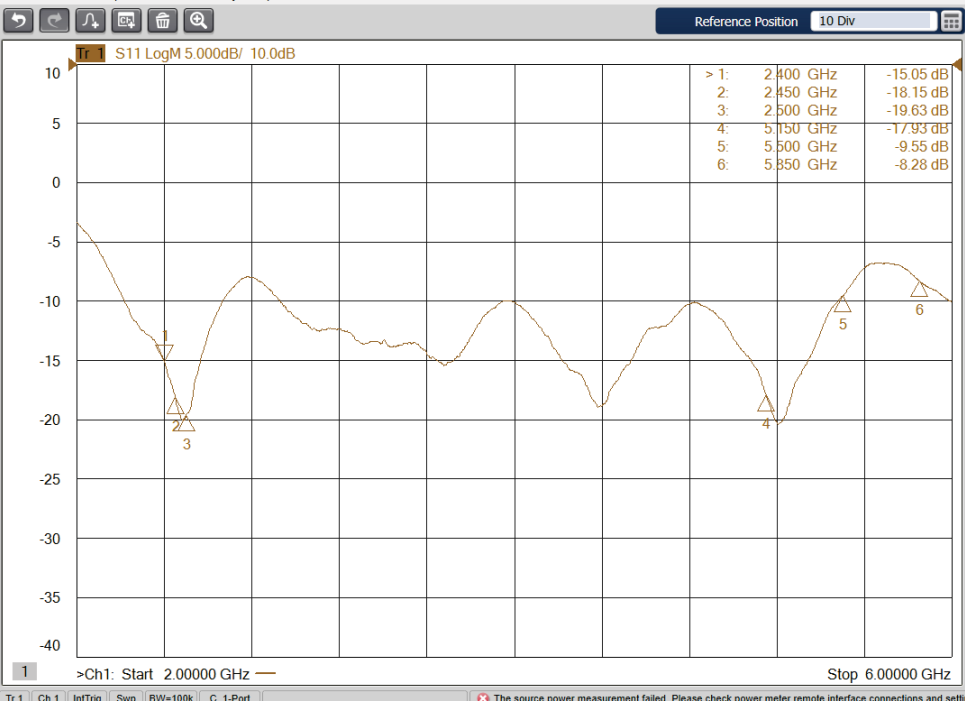


Mockup



# Smart TV Box Antenna Test Result

## ➤ Antenna Return Loss & Gain & Efficiency



Frequency (MHz)	WiFi Antenna		
	Efficiency (dB)	Efficiency (%)	Gain(dBi)
2400	-1.82077	65.7542	2.20939
2410	-1.83284	65.5717	2.1874
2420	-1.69568	67.6756	2.43655
2430	-1.52547	70.3806	2.31023
2440	-1.36103	73.0966	2.75182
2450	-1.29988	74.133	2.71375
2460	-1.47465	71.2091	2.80917
2470	-1.50664	70.6864	2.72809
2480	-1.53024	70.3033	3.01011
2490	-1.49335	70.9031	3.0222
2500	-1.38438	72.7046	3.30285
5150	-1.07997	77.9836	5.47982
5200	-1.22114	75.4894	4.64392
5250	-0.72352	84.6541	5.40679
5300	-0.77772	83.6042	5.78734
5350	-1.28622	74.3666	4.57713
5400	-1.33572	73.5238	5.57693
5450	-2.24455	59.641	4.18342
5500	-2.22888	59.8566	4.51106
5550	-2.2745	59.2312	4.22106
5600	-2.37119	57.927	3.71823
5650	-2.54498	55.6547	2.51828
5700	-2.4934	56.3197	2.73615
5750	-2.13197	61.2072	3.09291
5800	-2.68936	53.8349	2.27241
5850	-2.92743	50.9633	2.34963

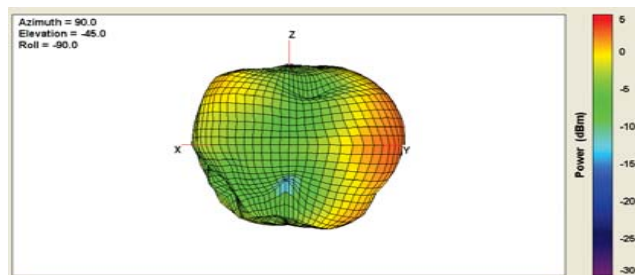
Frequency (MHz)	2400	2450	2500
Return Loss(dB)	-15.05	-18.15	-19.63
Frequency (MHz)	5150	5500	5850
Return Loss(dB)	-17.93	-9.55	-8.28

# Smart TV Box Antenna Test Result

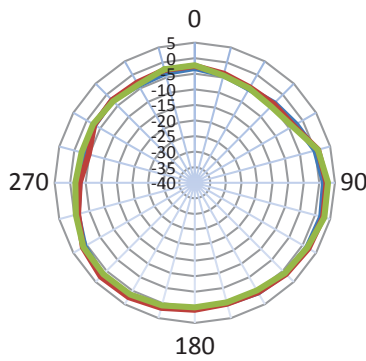
## ➤ Antenna 2D & 3D Radiation Pattern

### ➤ WiFi 2.4G Band

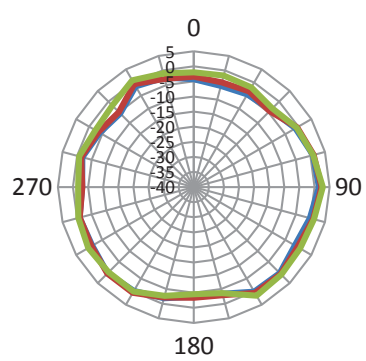
3D 2450MHz



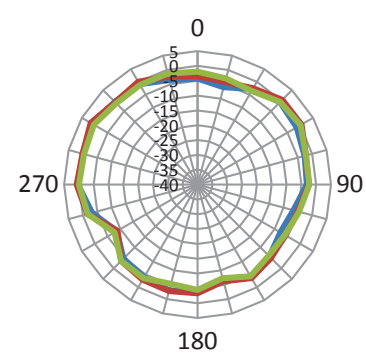
2D XOY



2D YOZ



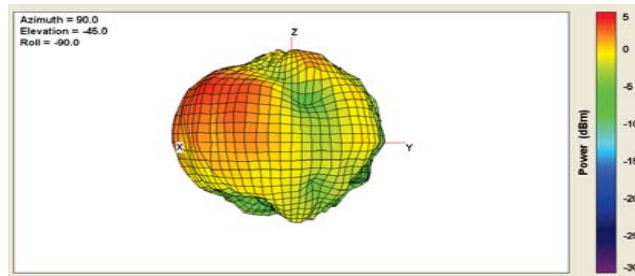
2D XOZ



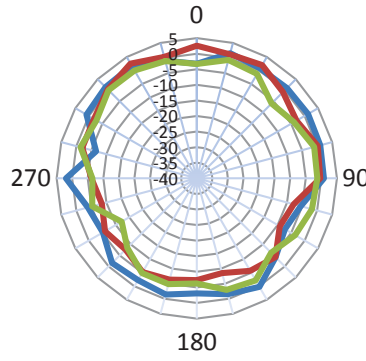
— 2400MHz — 2450MHz — 2500MHz

### ➤ WiFi 5G Band

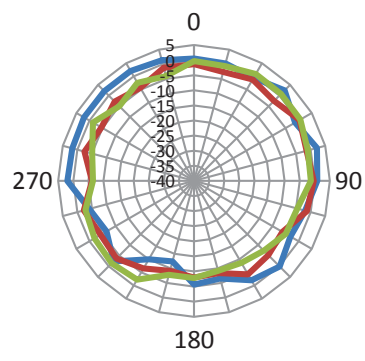
3D 5500MHz



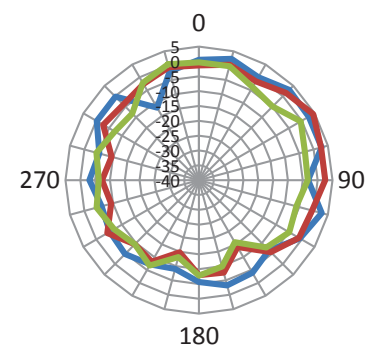
2D XOY



2D YOZ



2D XOZ



— 5150MHz — 5500MHz — 5850MHz

**Thank You!**