

# 2.4&5G Antenna

**MODEL: TH-2458K**



## 1. GENERAL DESCRIPTION

Model No
TH2458K-SMA(M)

Below is a table summarizing the antenna design specification.

### 1.1 Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85GHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	3.0 : 1
Gain	0-5db


### 1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna Material	ASA-UV
Touch Type	Screw Type
Connector Type	SMA 180°(Male) OD10.0mm
Antenna Dimensions	OD9.3 x 128.5mm ±0.5
Antenna Color	Black
Operating Temperature Range	-40°C~+80°C
Storage Temperature Range	-40°C~+80°C

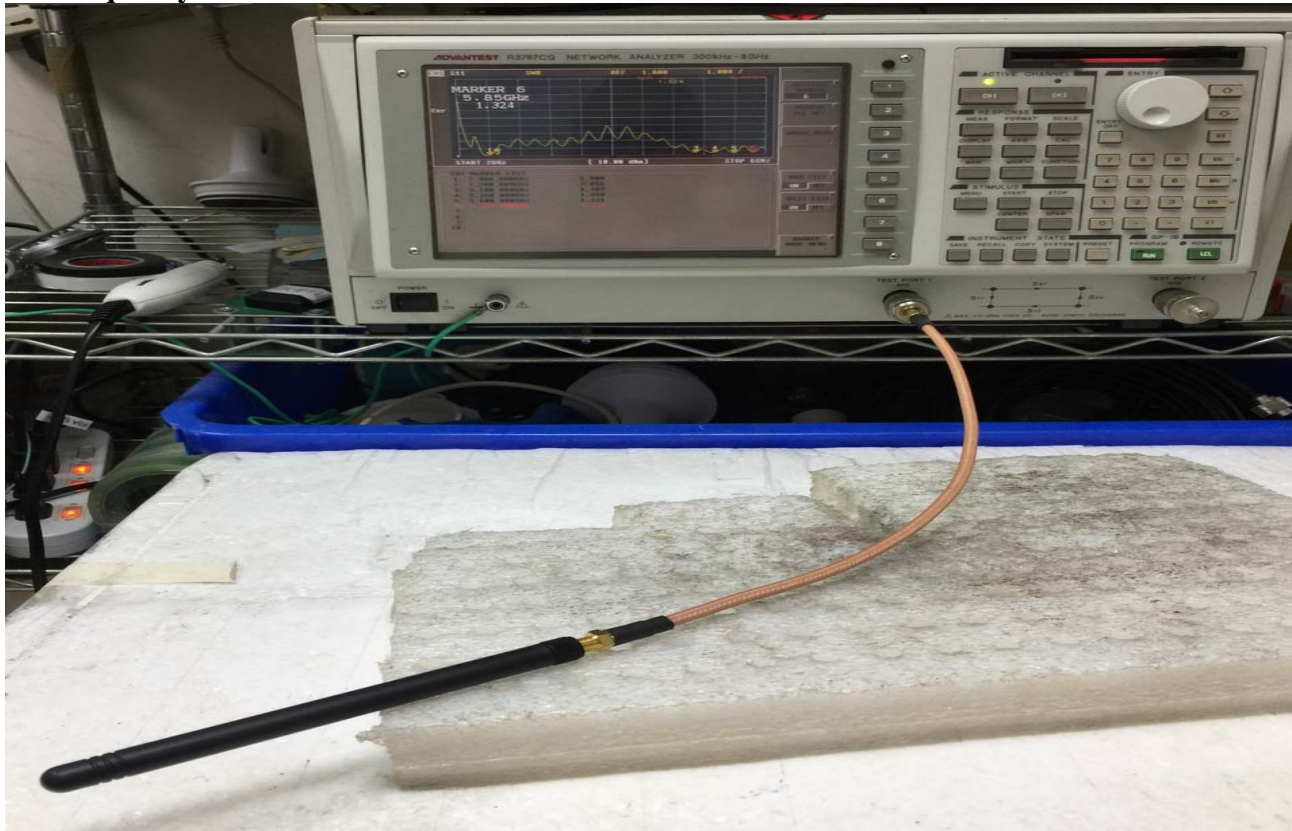
## 2. Appearance

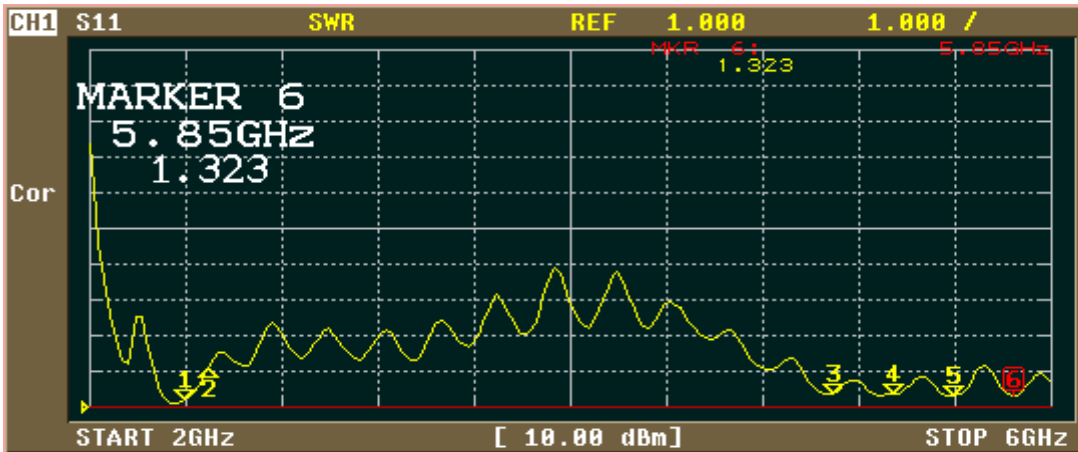
NO.	NAME	Q, TY
01	ASA-UV Tube	01
02	SMA(M)	01



 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
			TH2458K		2.4~2.5/5.1~5.85	M/M		20190418
	TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\sqrt{S}$	APPEARANCE					

## 3. Frequency





CH1 MARKER LIST

1:	2.400 000GHz	1.223
2:	2.500 000GHz	2.112
3:	5.100 000GHz	1.385
4:	5.350 000GHz	1.384
5:	5.600 000GHz	1.317
6:	5.850 000GHz	1.323
7:		
8:		
9:		
10:		

MKR

ACTIVATE MARKER  
6

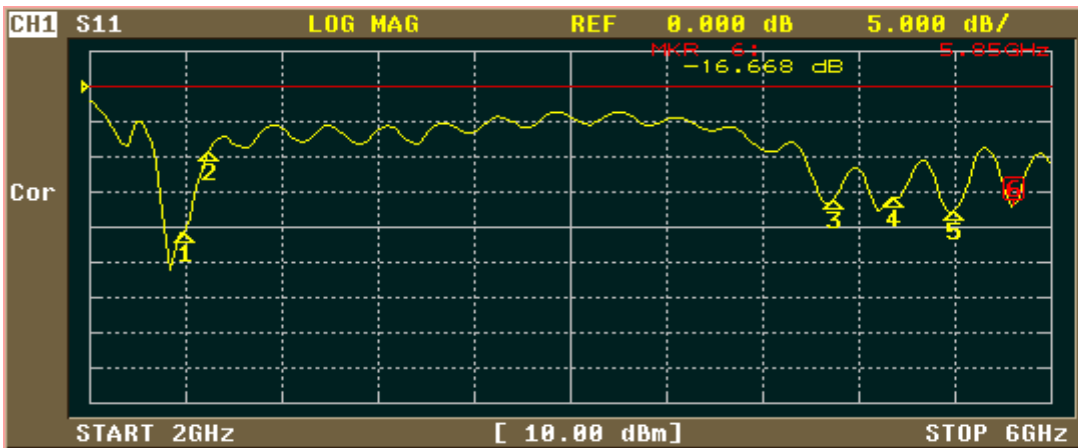
MARKER ALL OFF

ΔMODE MENU

MKR LIST  
ON OFF

SPLIT LIST  
ON OFF

MARKER MODE MENU



CH1 MARKER LIST

1:	2.400 000GHz	-20.764 dB
2:	2.500 000GHz	-9.130 dB
3:	5.100 000GHz	-16.165 dB
4:	5.350 000GHz	-15.876 dB
5:	5.600 000GHz	-17.782 dB
6:	5.850 000GHz	-16.668 dB
7:		
8:		
9:		
10:		

FORMAT

LOG MAG

PHASE

DELAY

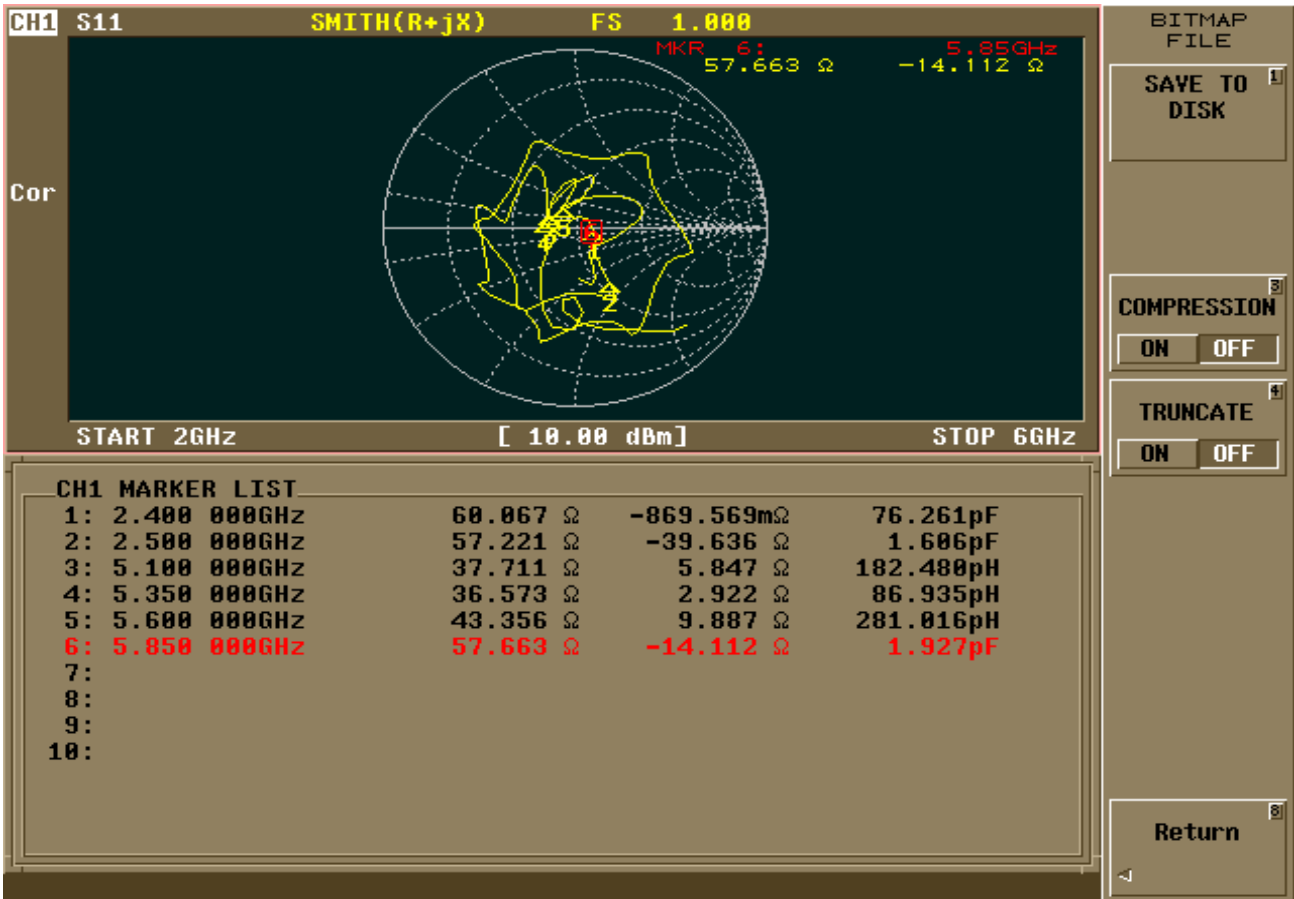
SMITH (R+jX)

SMITH (G+jB)

POLAR

LIN MAG

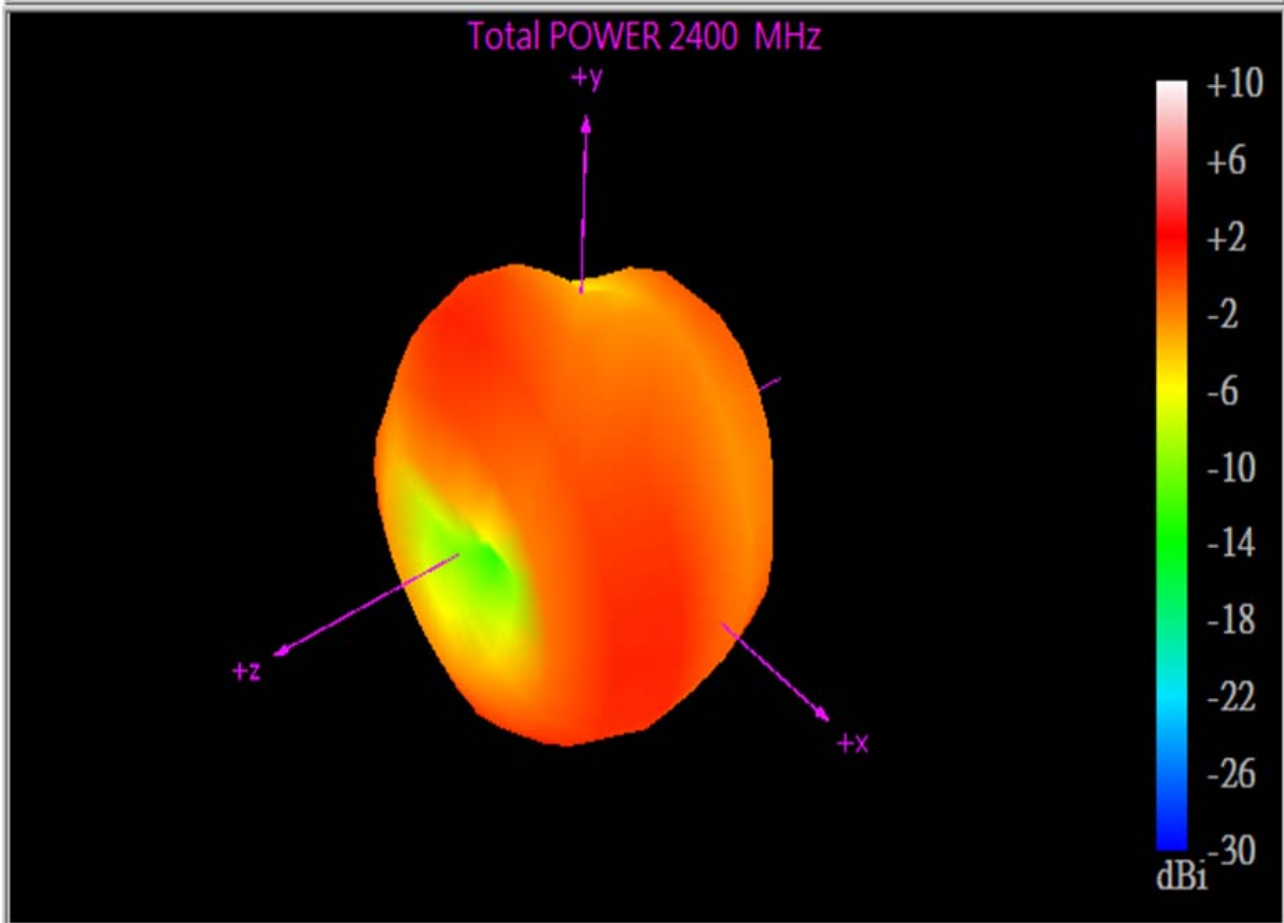
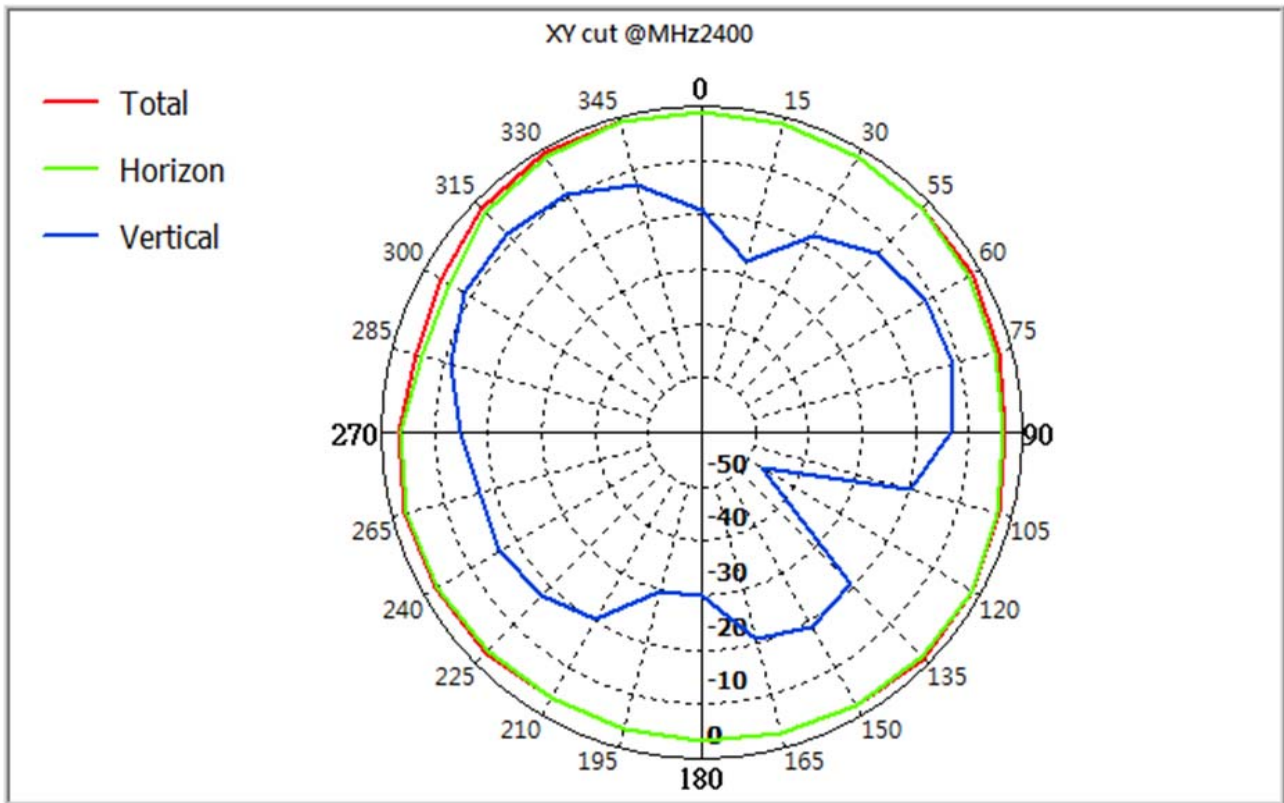
More 1/2



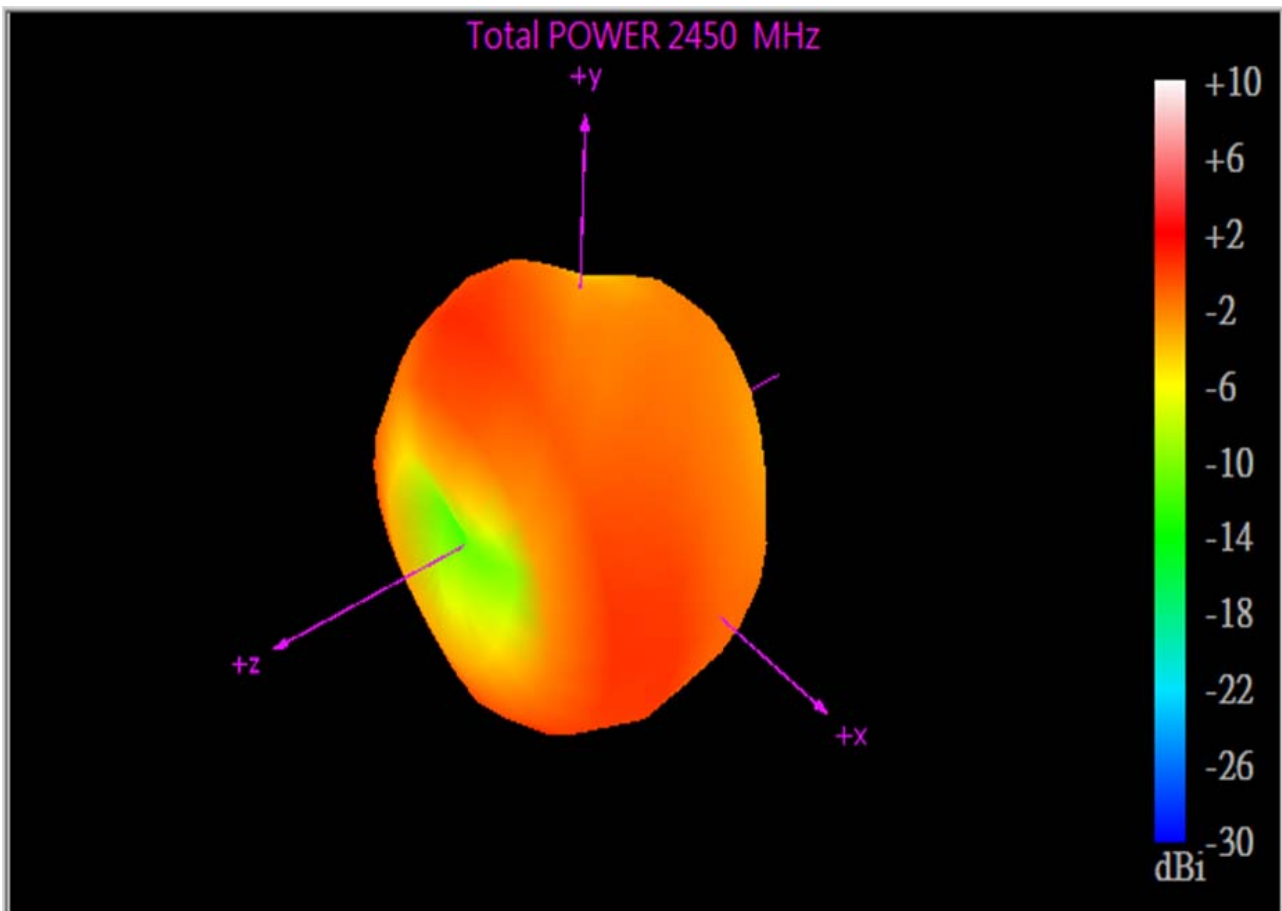
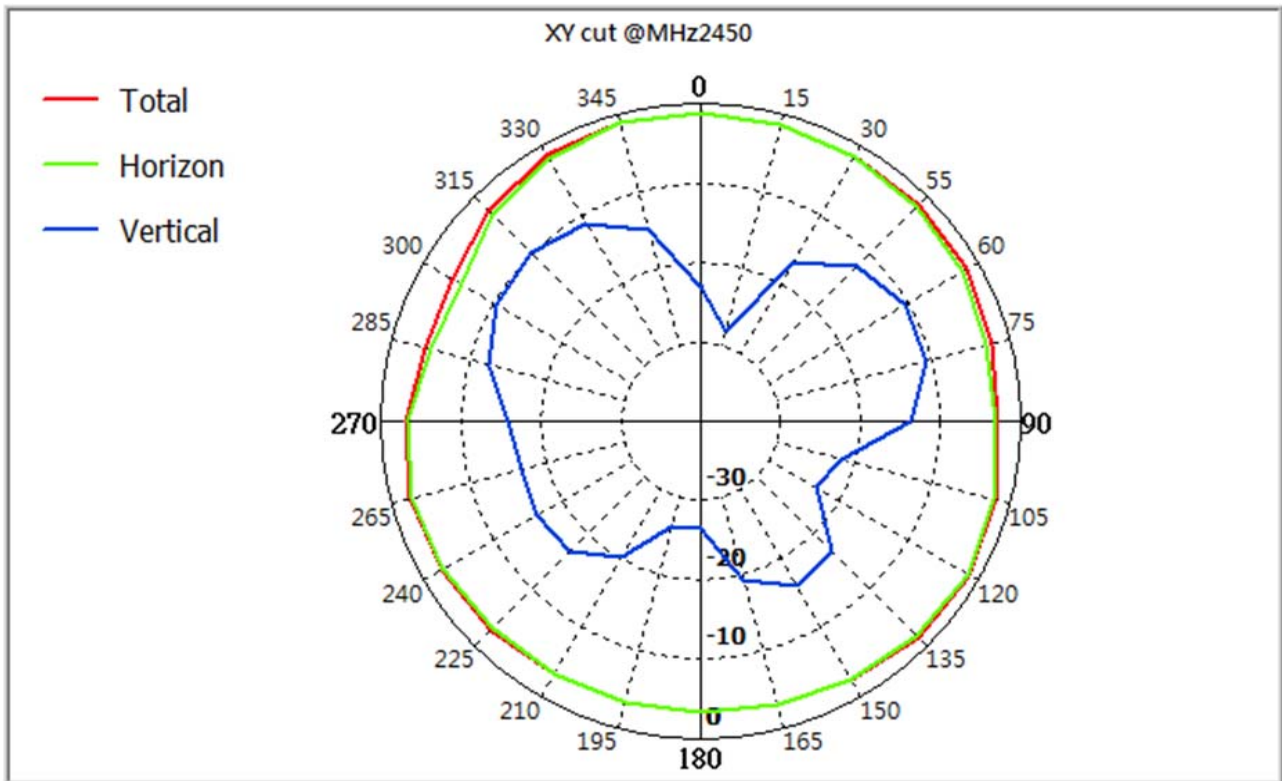
3D Total

Frequency (MHz)	Upper Hem. PRP (dB)	Lower HEM. PRP (dB)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
2400 MHz	-4.36	-5.87	-2.04	62.52	1.61	-2.04
2410 MHz	-4.38	-5.91	-2.07	62.11	1.52	-2.07
2420 MHz	-4.40	-5.97	-2.10	61.60	1.45	-2.10
2440 MHz	-4.57	-6.19	-2.30	58.92	1.19	-2.30
2450 MHz	-4.65	-6.28	-2.38	57.79	1.08	-2.38
2460 MHz	-4.71	-6.35	-2.45	56.94	1.00	-2.45
2470 MHz	-4.70	-6.34	-2.43	57.17	1.01	-2.43
2480 MHz	-4.63	-6.28	-2.37	58.01	1.09	-2.37
2490 MHz	-4.65	-6.31	-2.39	57.73	1.09	-2.39
2500 MHz	-4.88	-6.56	-2.63	54.61	0.90	-2.63
5150 MHz	-3.78	-5.61	-1.59	69.42	3.47	-1.59
5250 MHz	-3.86	-5.33	-1.53	70.37	3.24	-1.53
5350 MHz	-4.23	-5.36	-1.75	66.85	3.89	-1.75
5470 MHz	-4.49	-5.39	-1.91	64.47	4.31	-1.91
5600 MHz	-4.79	-5.12	-1.94	64.01	4.62	-1.94
5725 MHz	-3.52	-3.46	-0.48	89.52	6.10	-0.48
5785 MHz	-3.85	-3.72	-0.78	83.63	5.62	-0.78
5850 MHz	-4.26	-3.97	-1.10	77.55	5.19	-1.10
5875 MHz	-4.27	-3.94	-1.09	77.76	5.16	-1.09
6000 MHz	-4.41	-3.76	-1.06	78.38	4.98	-1.06

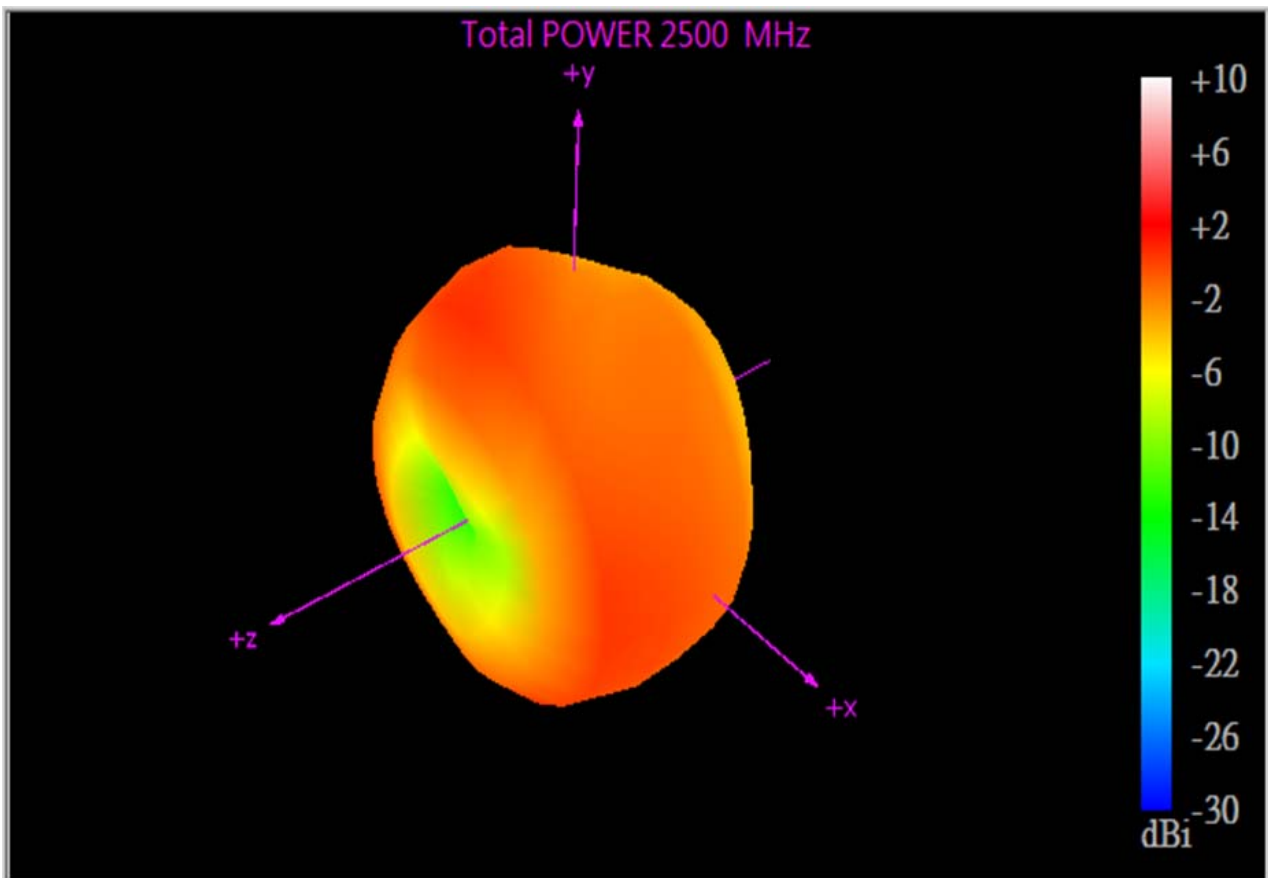
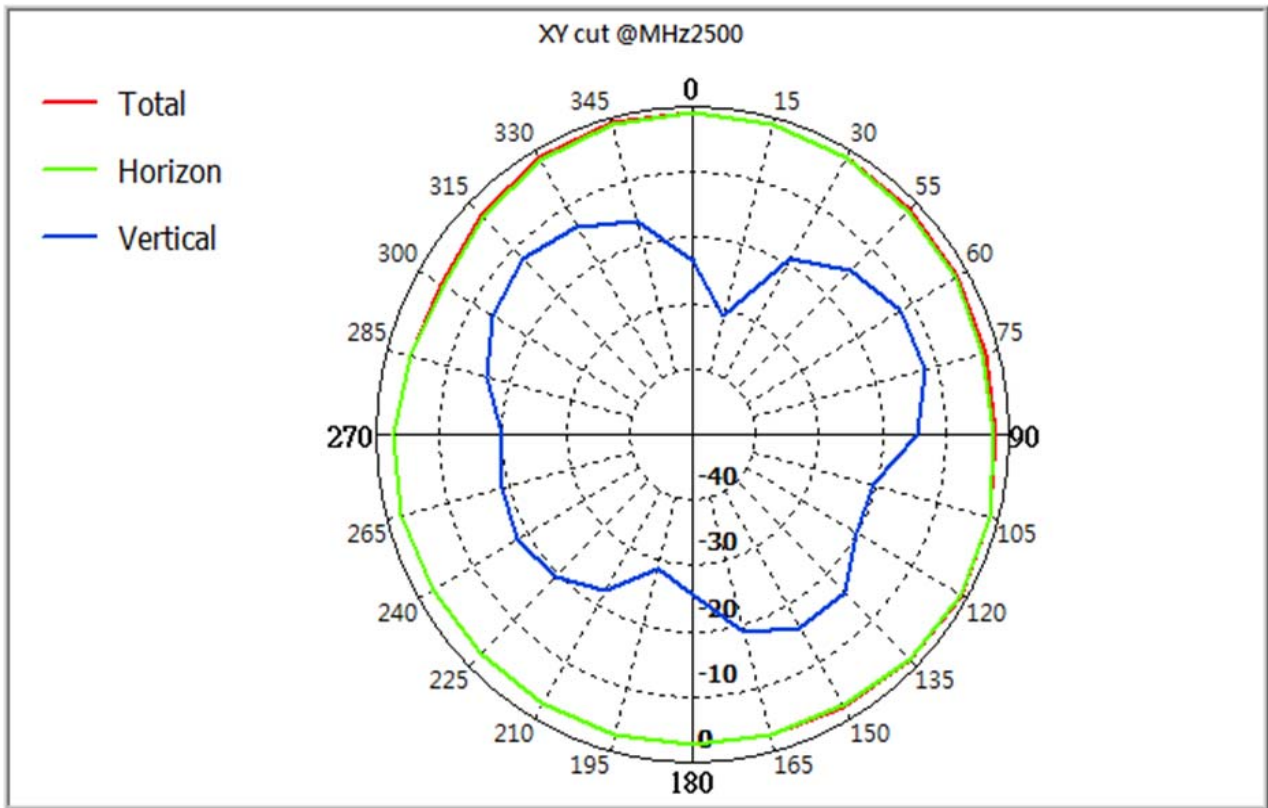
## 2.4G



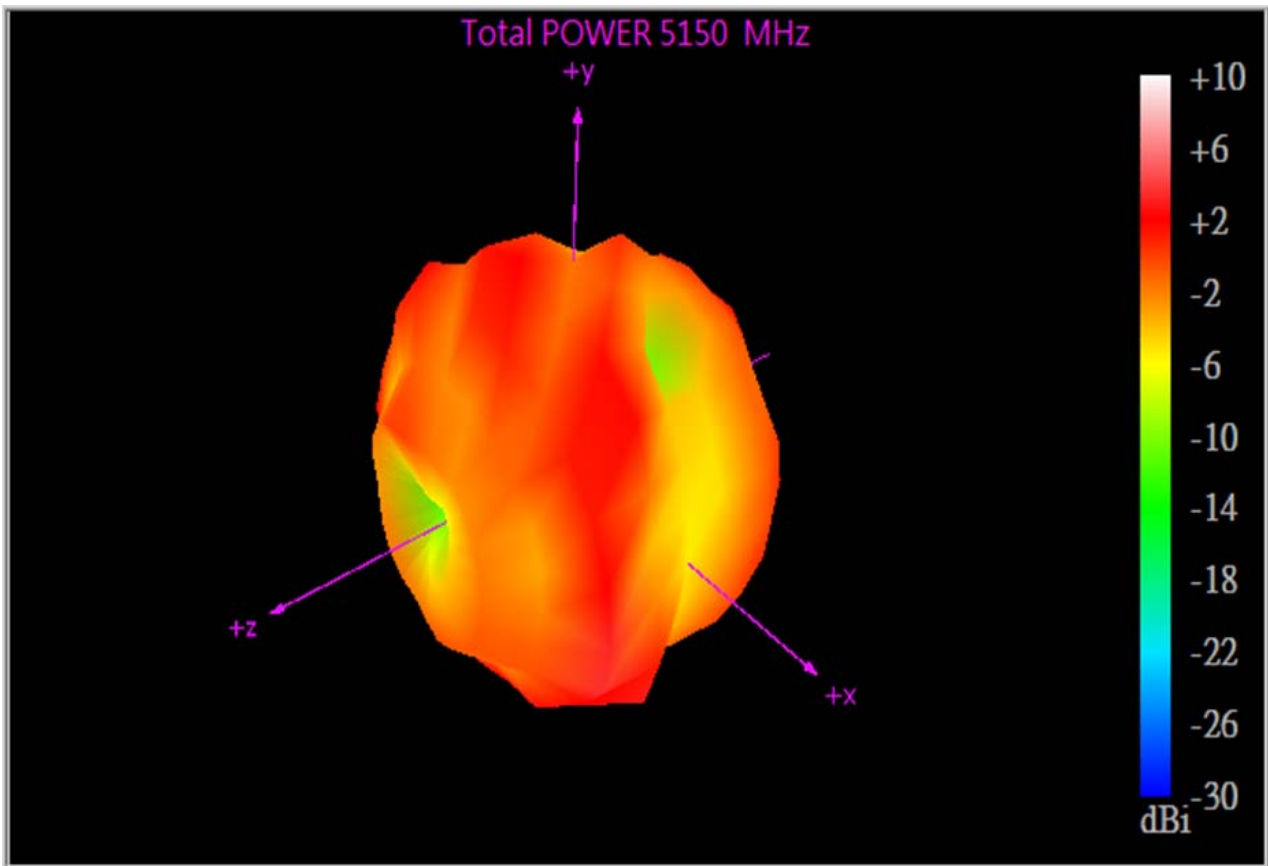
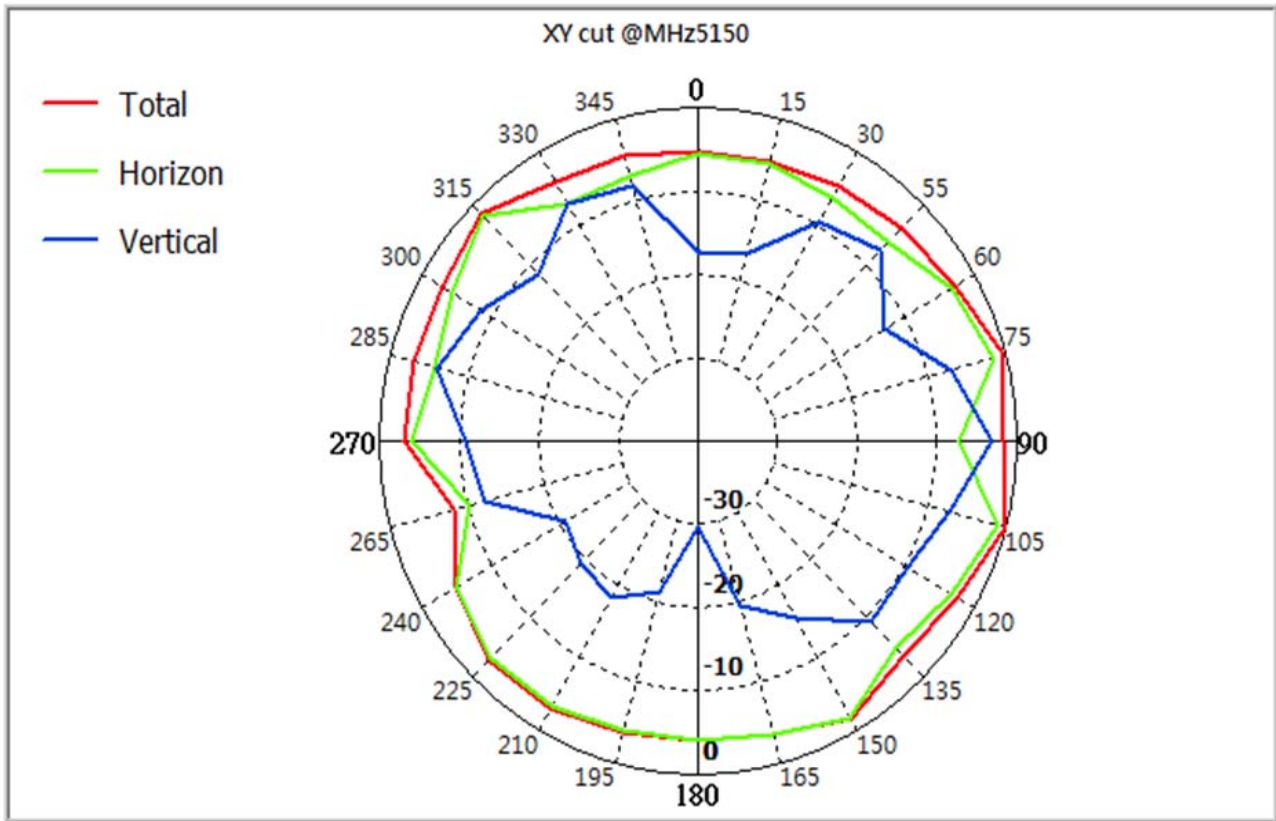
2.45G



## 2.5G

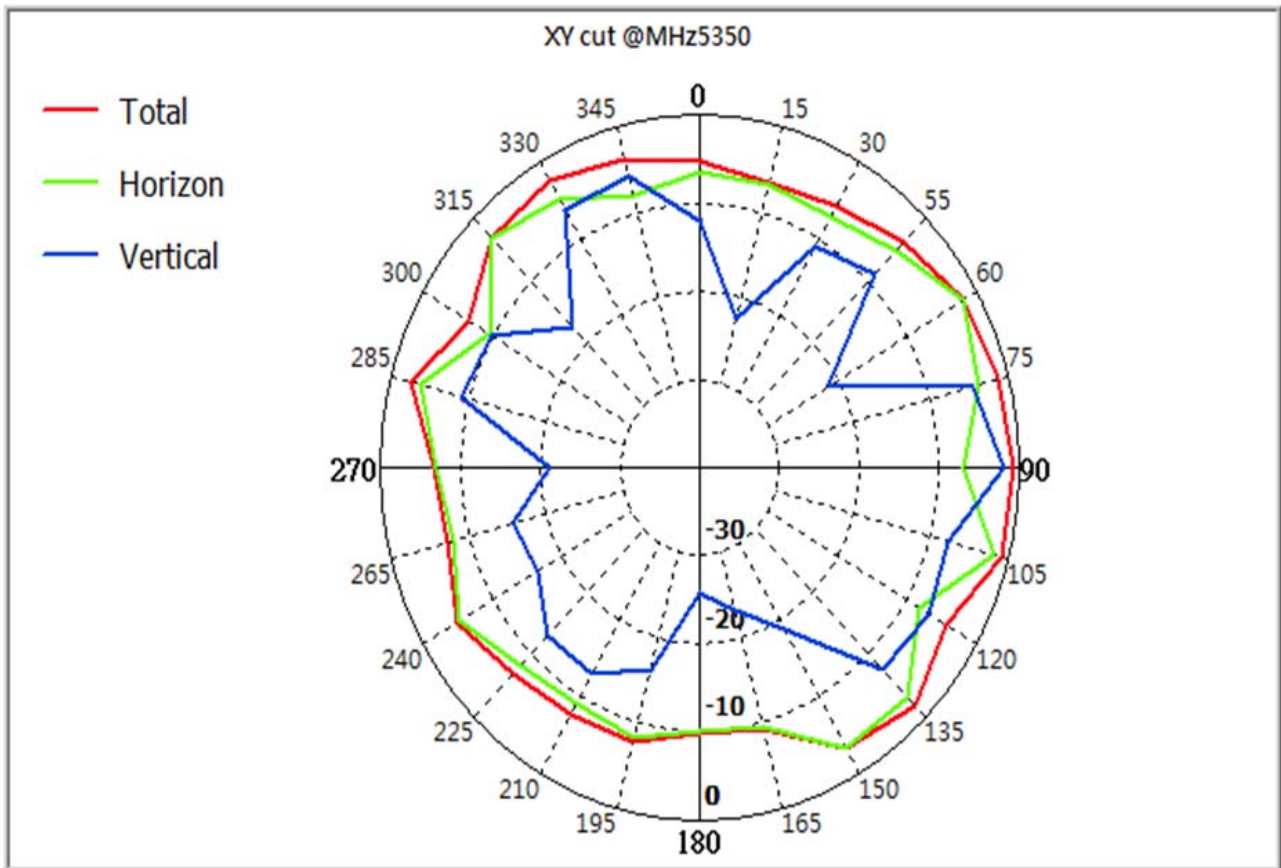


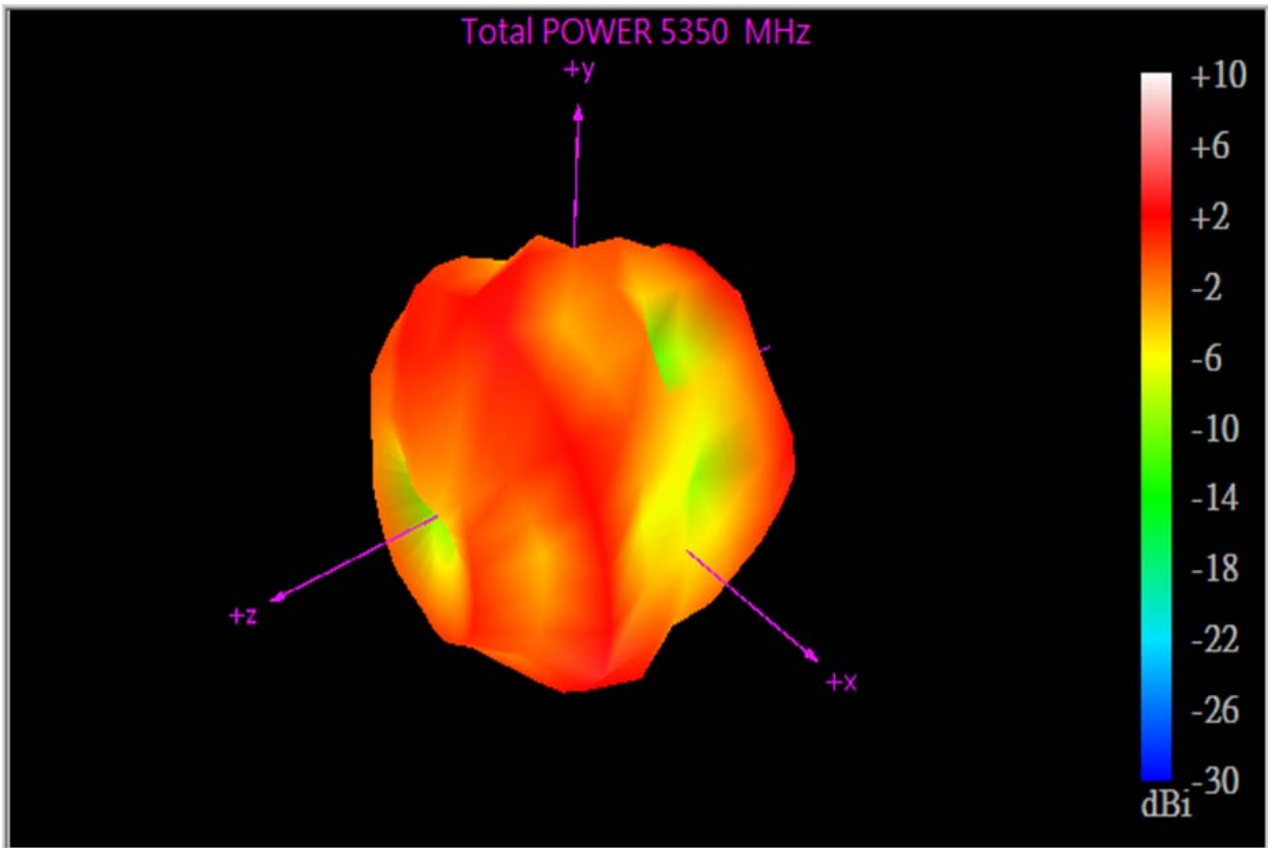
5.15G



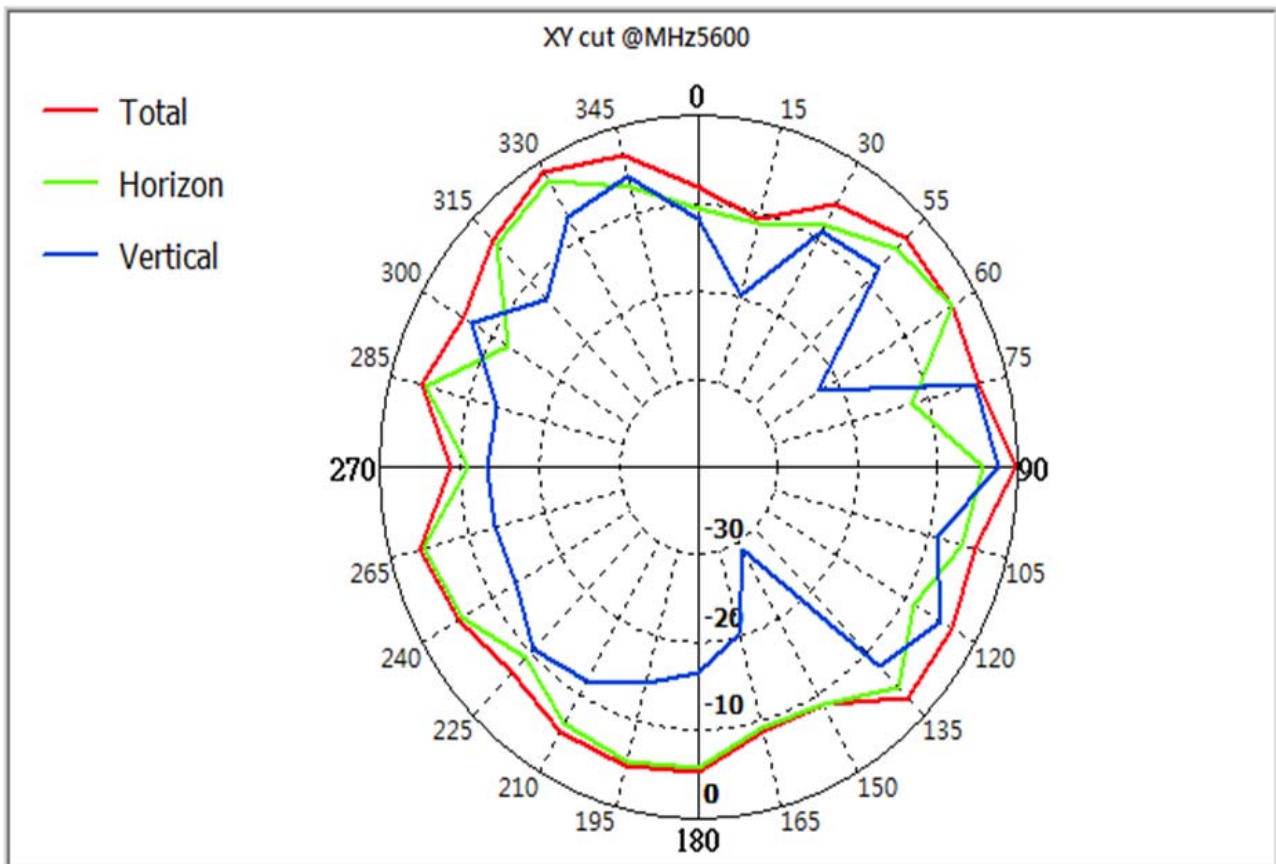


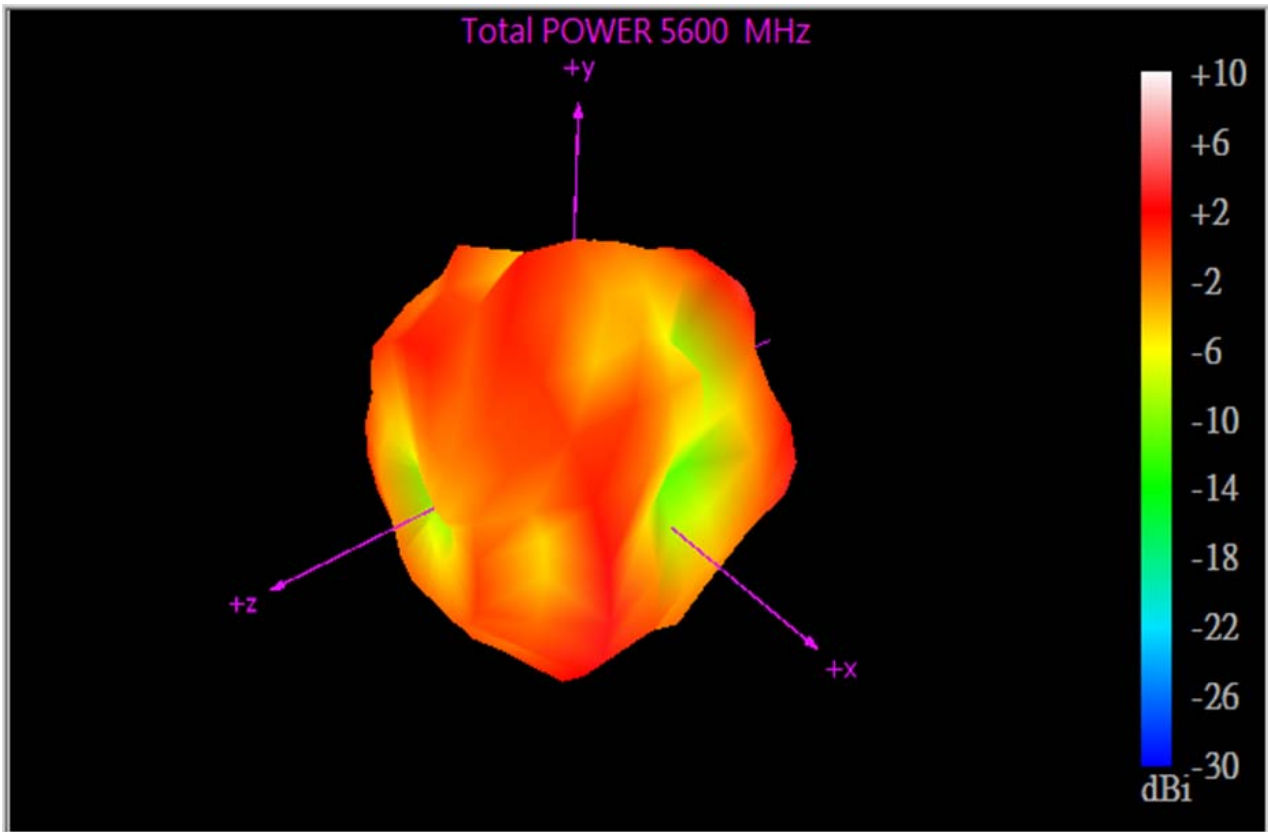
5.35G





5.6G





5.85G

