

2.4G ANTENNA

MODEL: TH-241B-1.13-IPEX



1. GENERAL DESCRIPTION

Model No
TH241B-1.13-IPEX

Below is a table summarizing the antenna design specification.

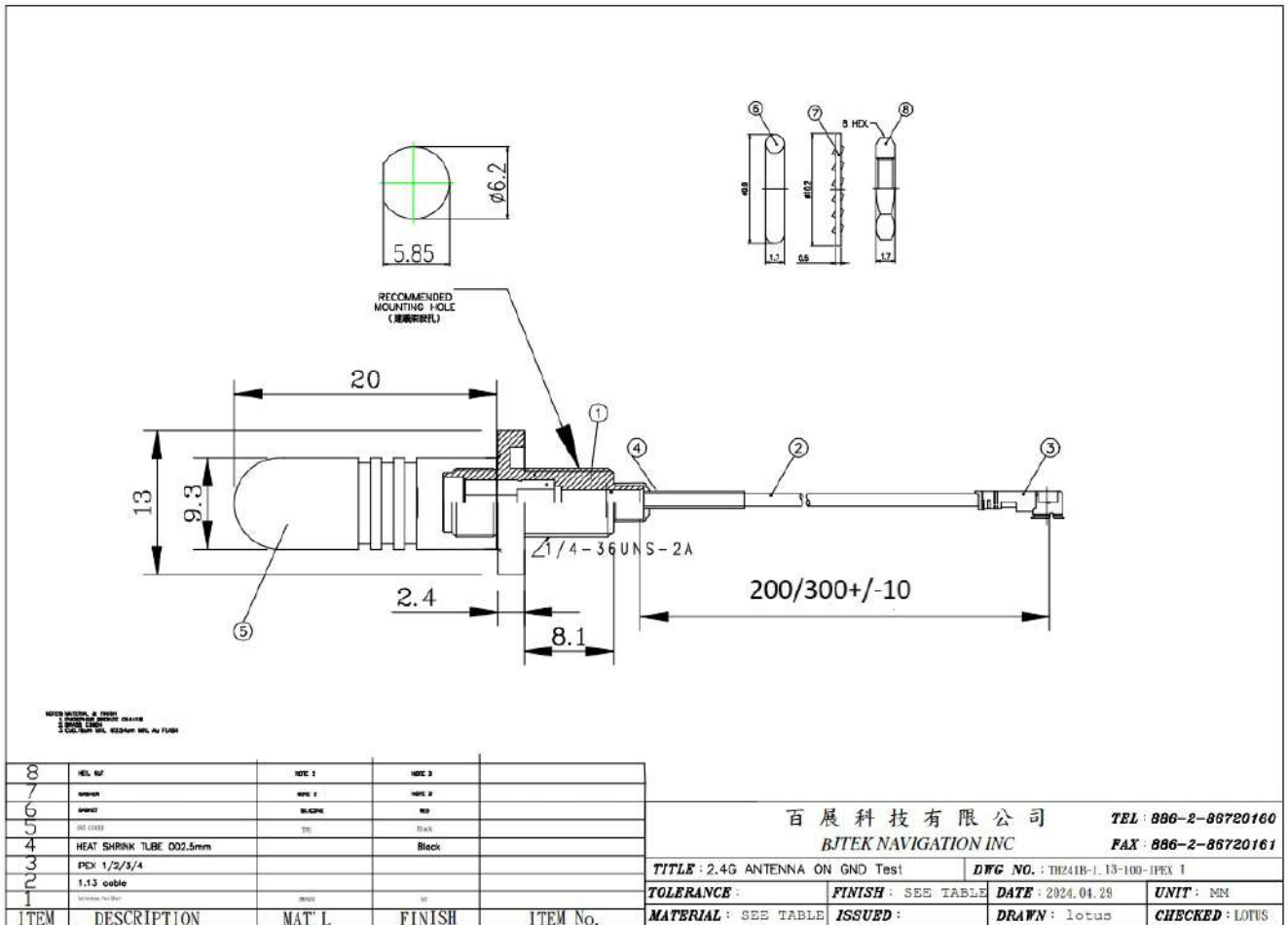
1.1 Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5GHz ON GND 100x100mm
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0 : 1

1.2 Mechanical Properties

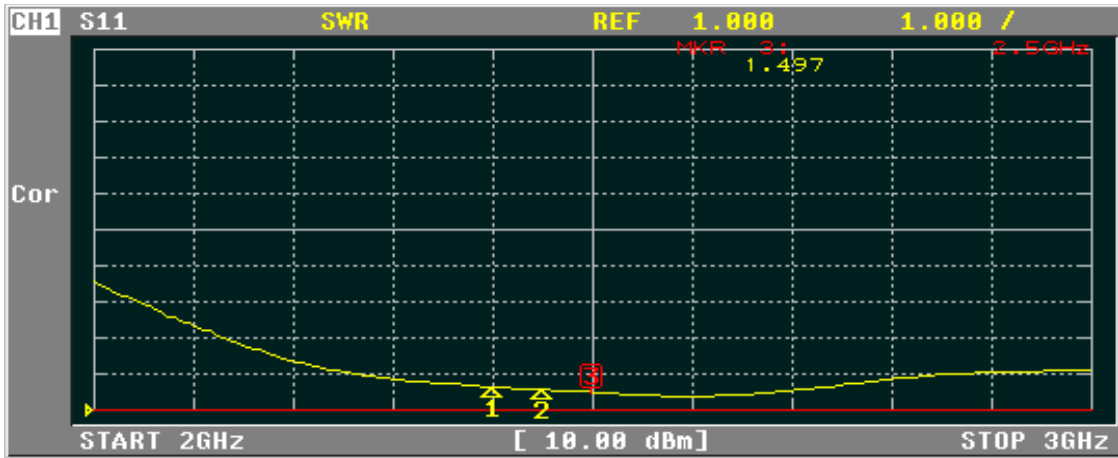
Parameter	Description
Antenna Type	External Antenna
Antenna Material	TPU
Touch Type	Screw Type
Connector Type	IPEX
Antenna Dimensions	$\Phi 9.3 \times 30.5\text{mm} \pm 0.5$
Antenna Color	Black
Operating Temperature Range	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Storage Temperature Range	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

2. Appearance



3. Frequency : Free space test :





CH1 MARKER LIST

1:	2.400 000GHz	1.643
2:	2.450 000GHz	1.573
3:	2.500 000GHz	1.497
4:		
5:		
6:		
7:		
8:		
9:		
10:		

FORMAT

SWR ^{1]}

REAL ^{2]}

IMAG ^{3]}

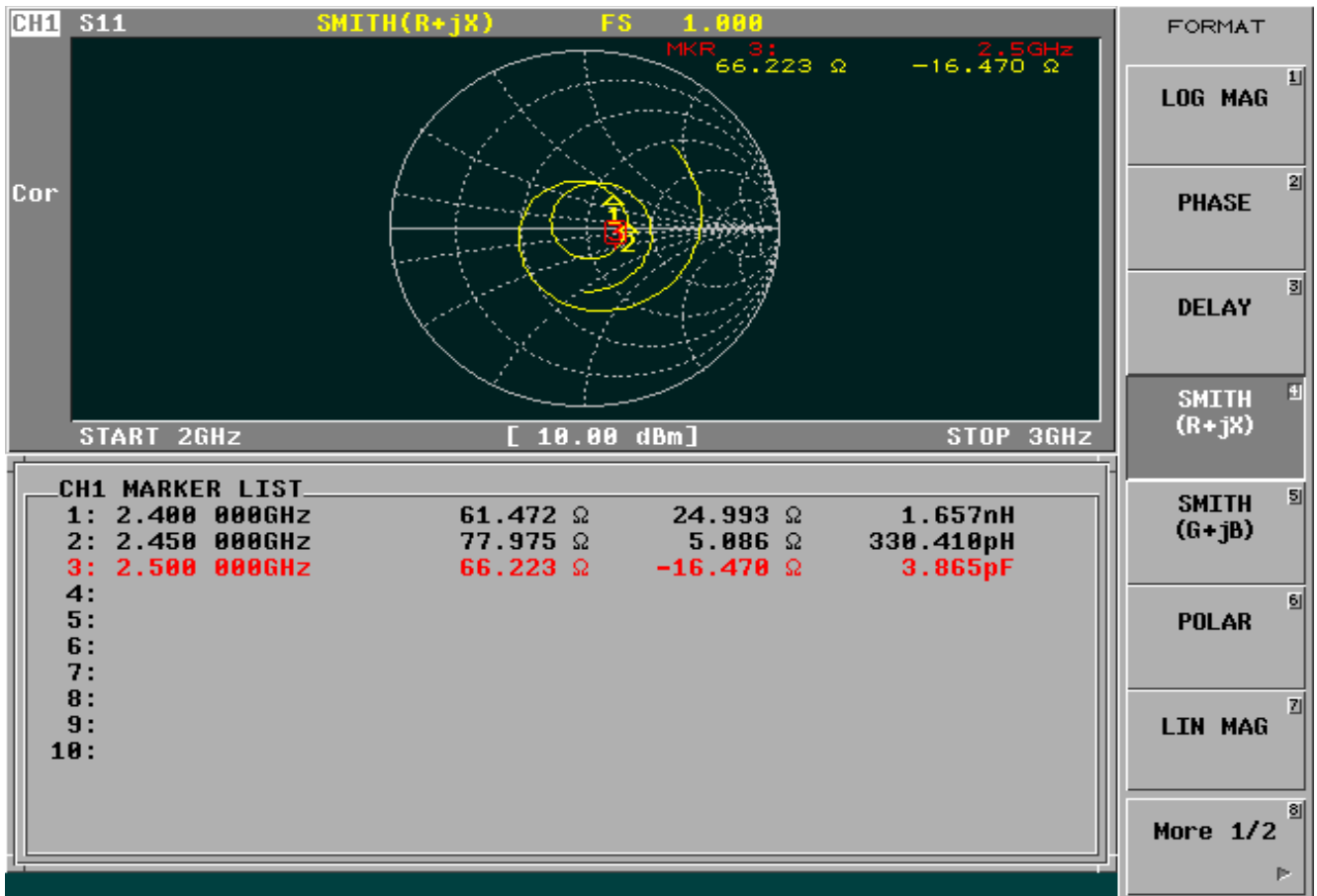
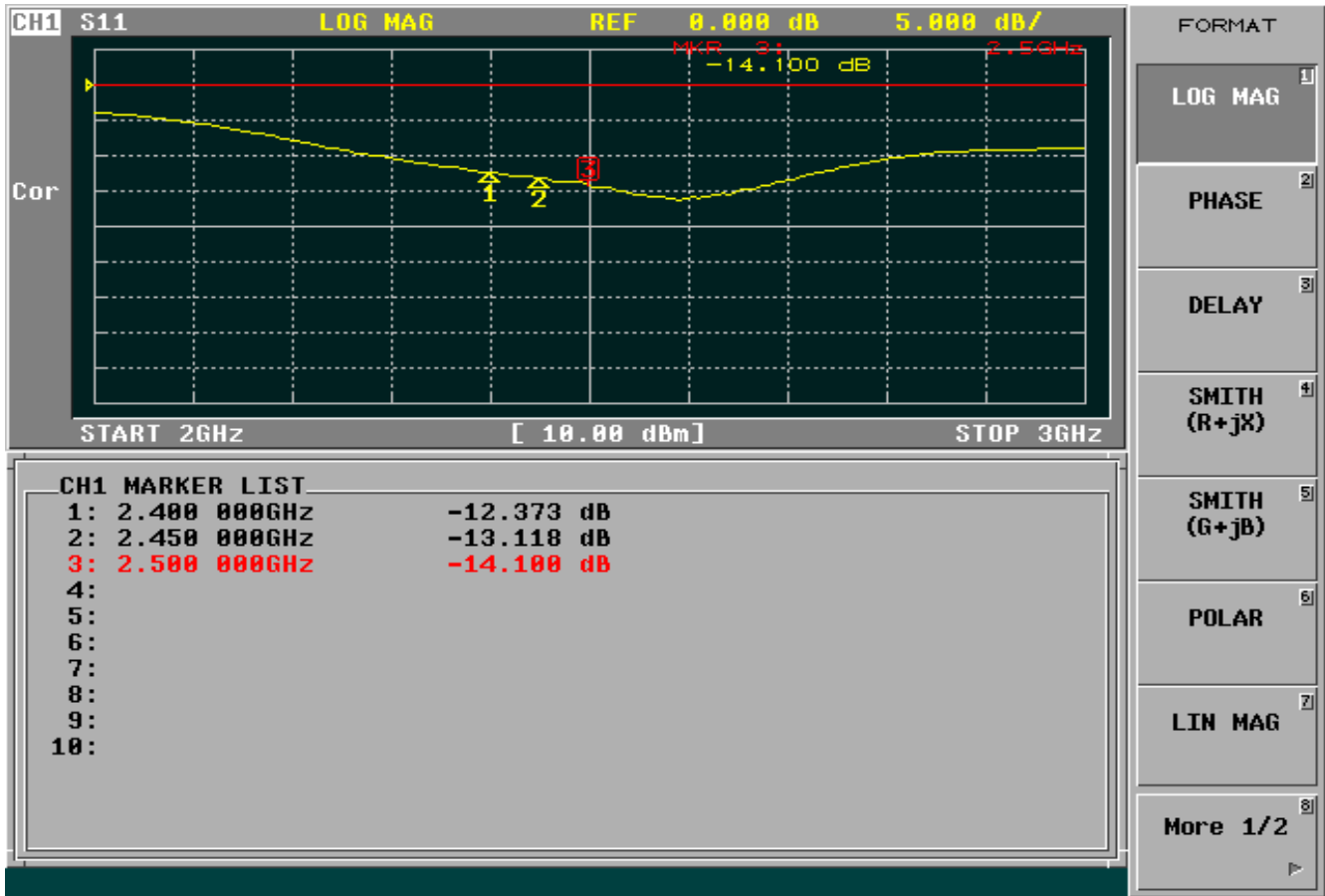
PHASE ^{4]}
-∞ , +∞

LOG MAG & PHASE ^{5]}

LOG MAG & DELAY ^{6]}

LIN MAG & PHASE ^{7]}

More 2/2 ^{8]}

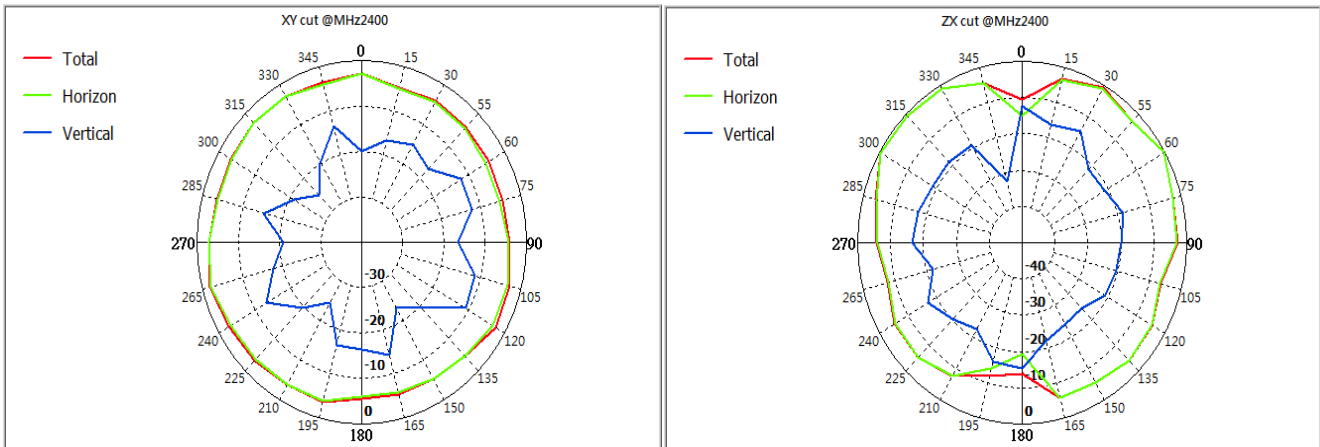


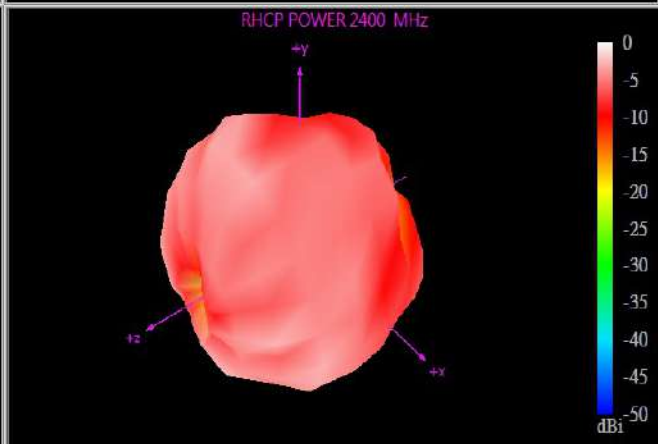
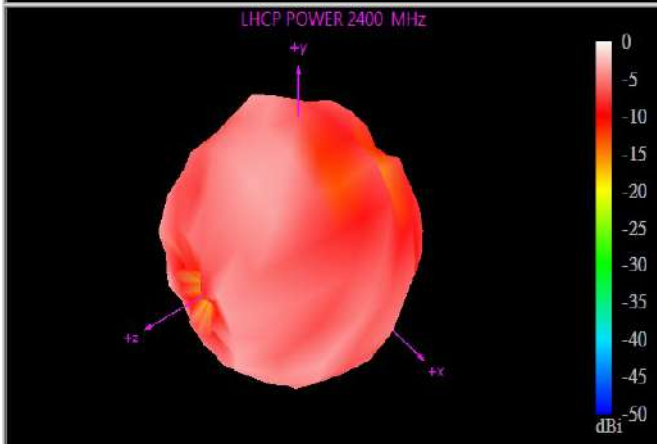
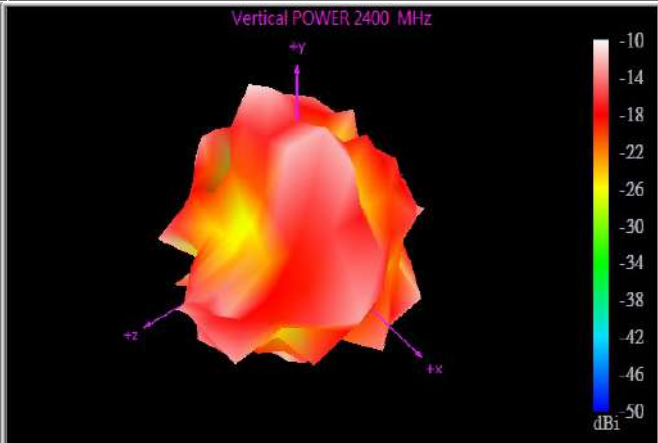
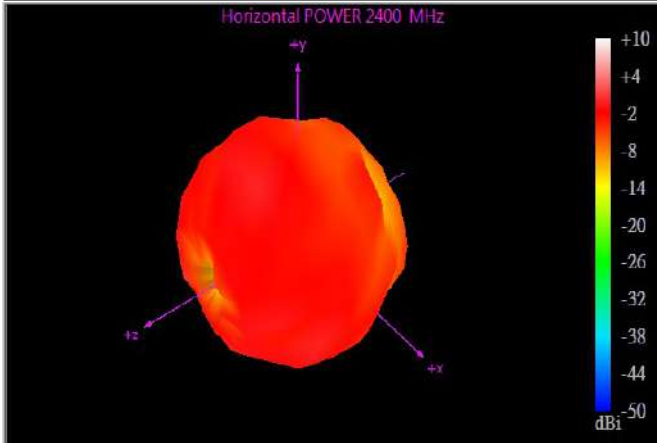
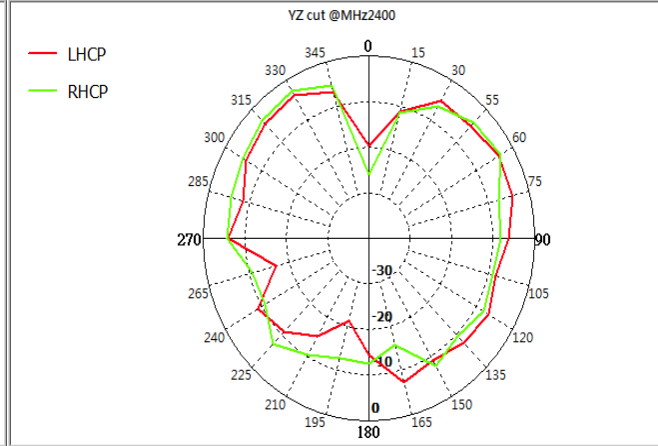
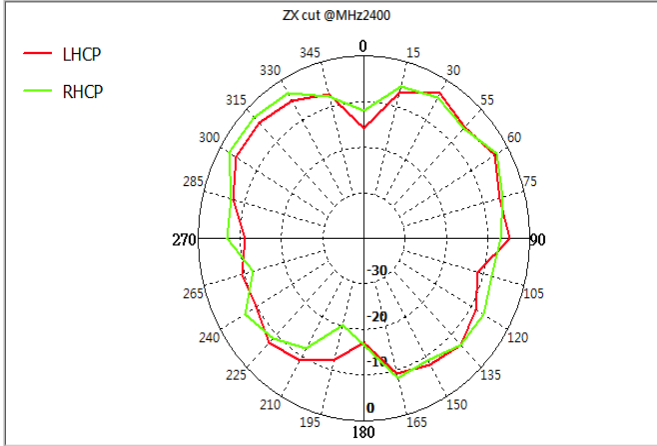
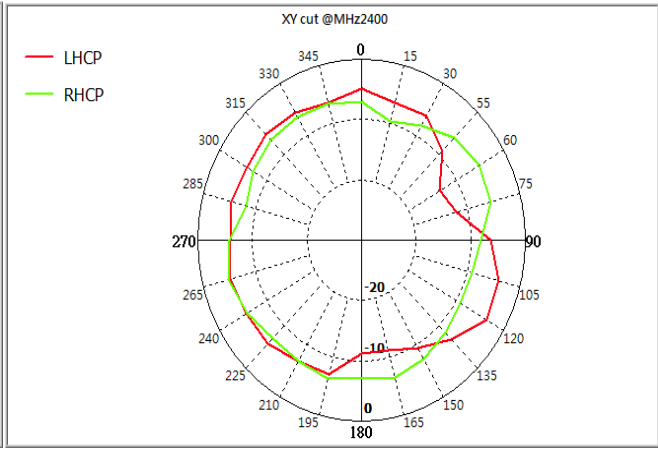
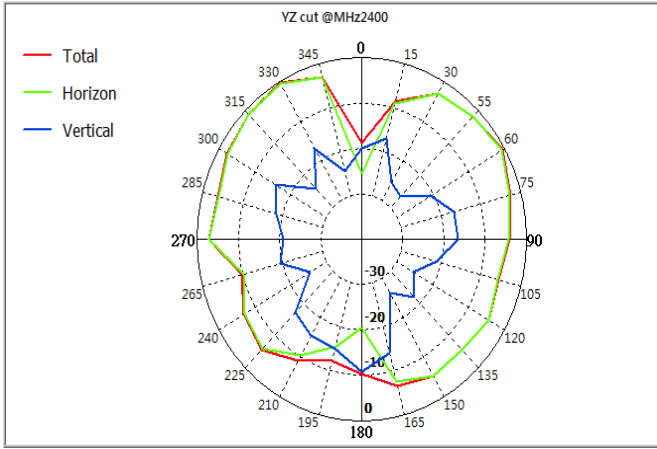


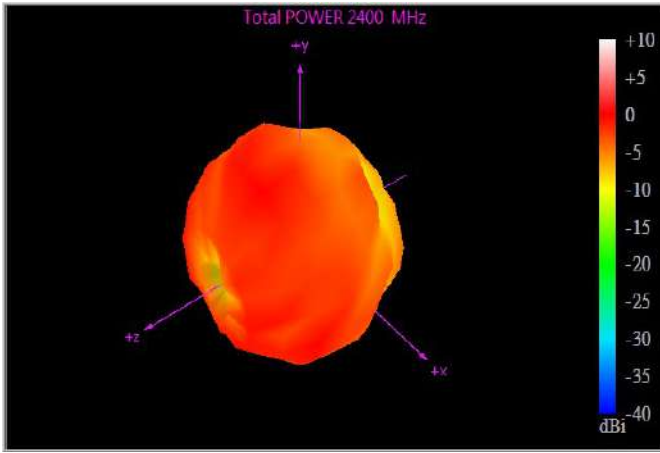
3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
2400 MHz	-5.70	-9.28	-4.12	38.71	0.37	-4.12
2450 MHz	-5.37	-9.26	-3.88	40.94	0.93	-3.88
2500 MHz	-5.49	-9.30	-3.98	40.00	1.07	-3.98

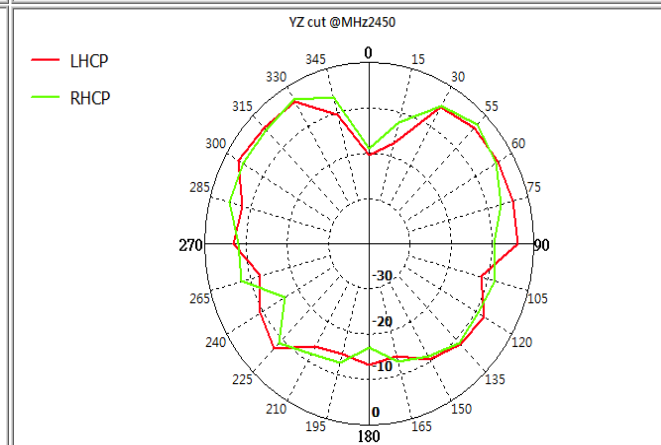
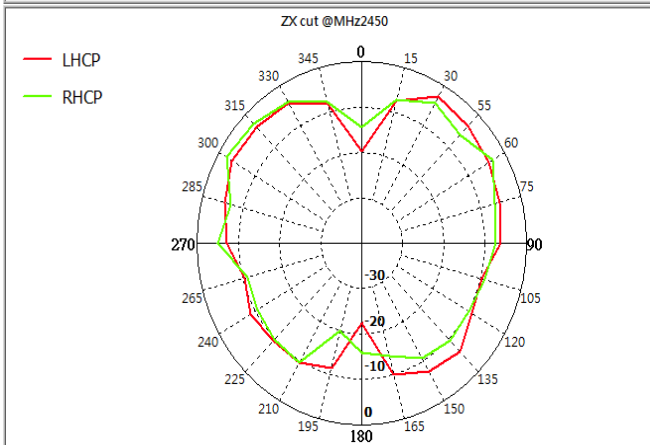
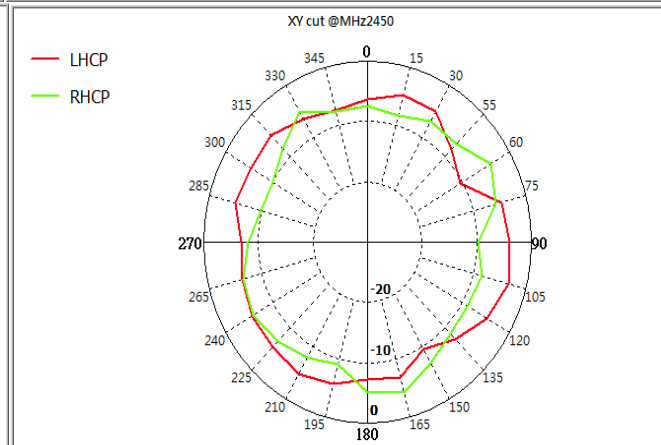
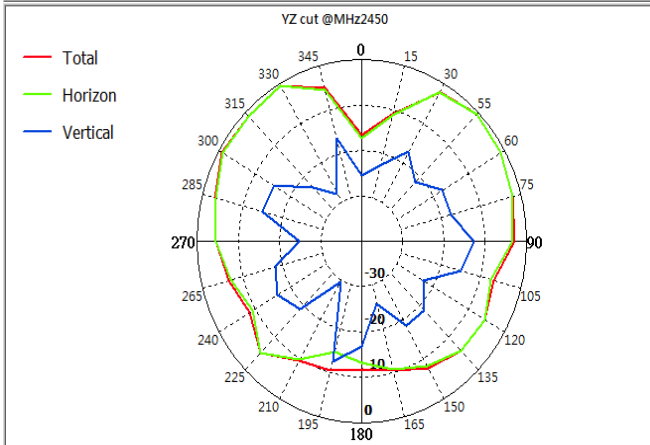
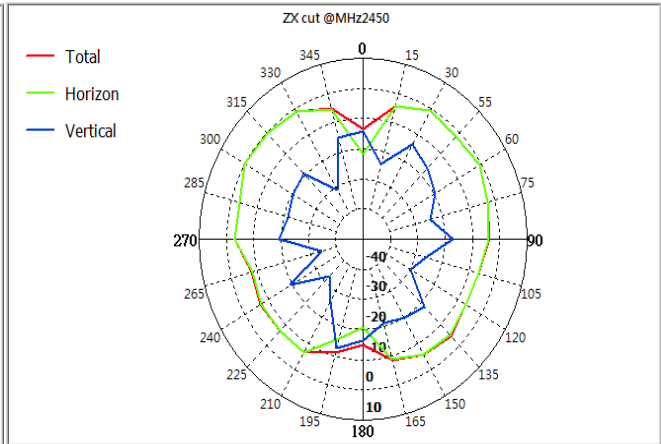
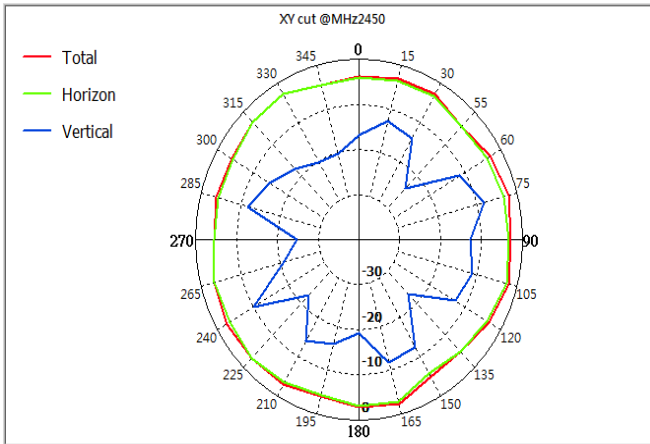
2400Mhz:

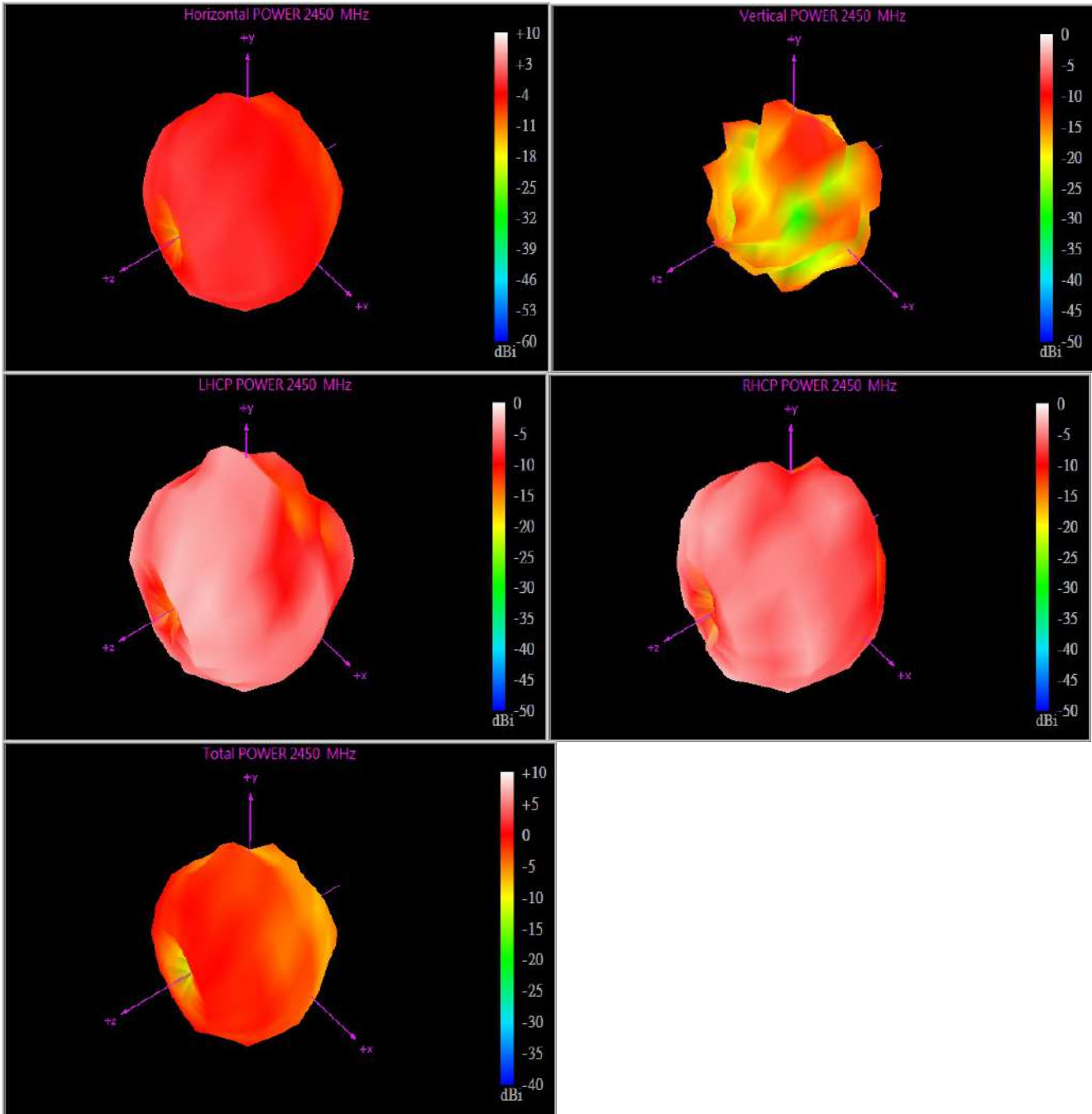






2450Mhz:





2500Mhz:

