

# L & 2.2~4G Gooseneck Antenna

**MODEL: TH-1240-TNC(M)**



## 1. GENERAL DESCRIPTION

Model No	P/N
TH-1240	TH1240-TNC(M)

Below is a table summarizing the antenna design specification.

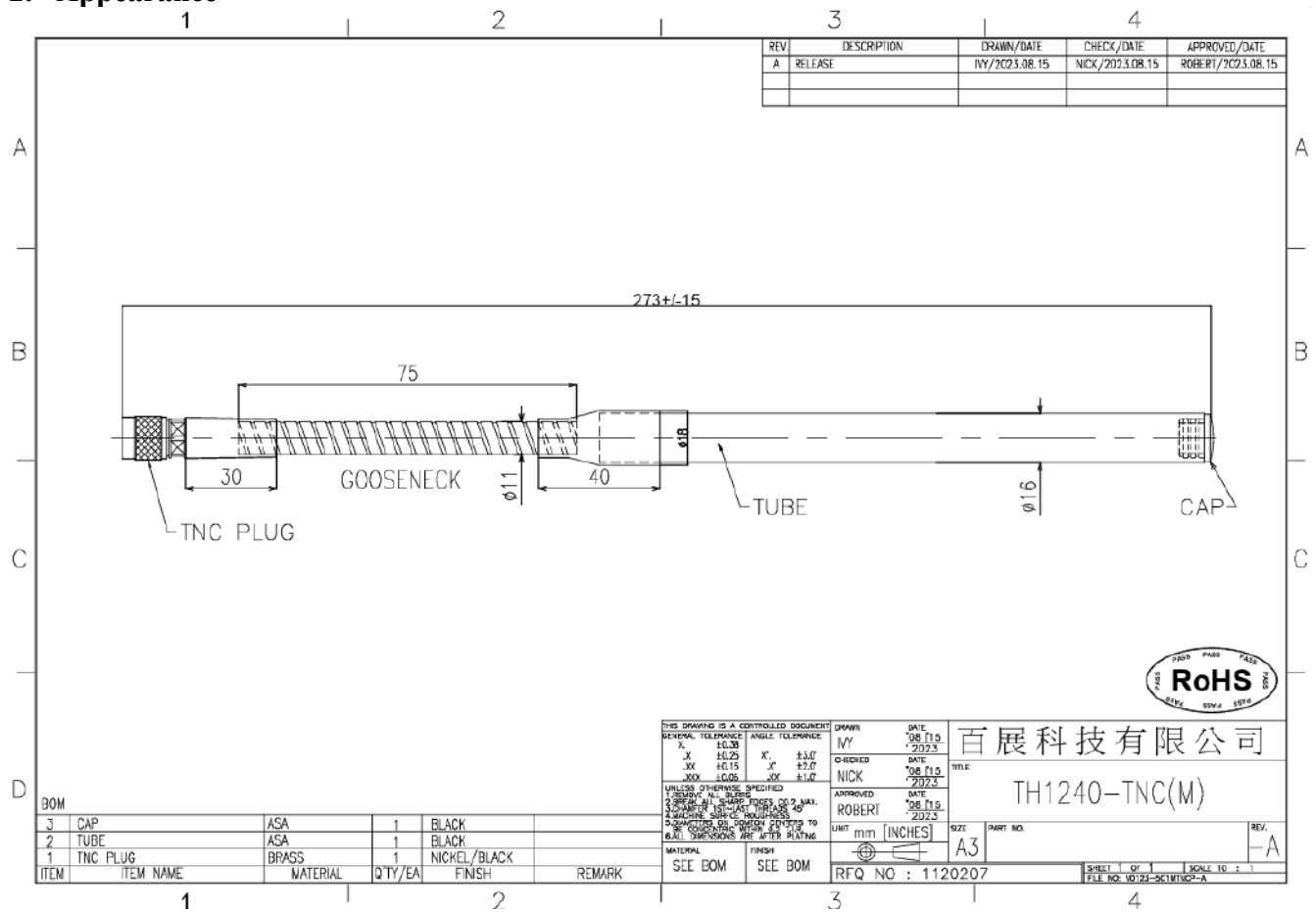
### 1.1 Electrical Properties

Parameter	Description
Frequency Band	1250~1450MHz & 2.2~4Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	Dipole
Return Loss	Please See Data-1
V.S.W.R	2.5 : 1
Peak Gain	2.5db

### 1.2 Mechanical Properties

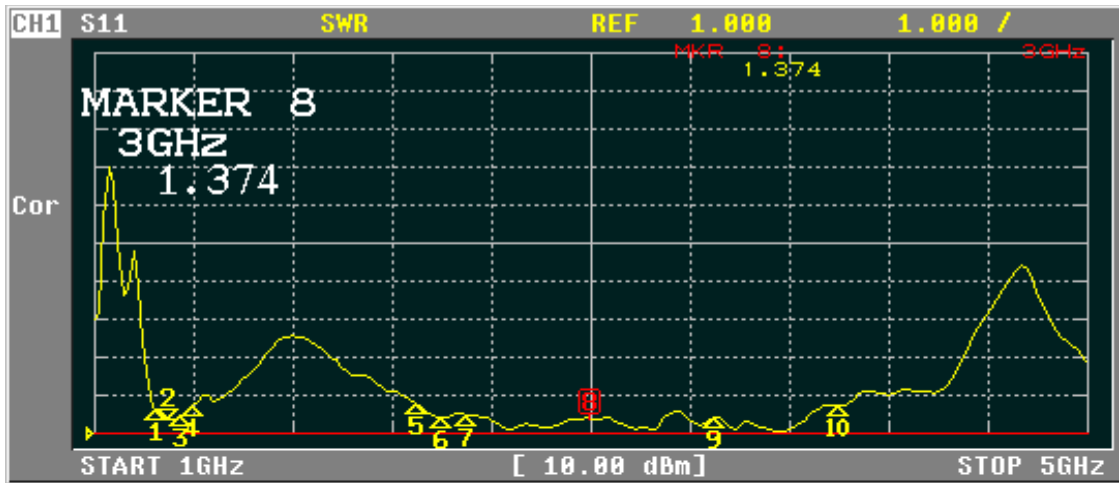
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	TNC(Male)
Antenna Dimensions	275mm ±15
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

## 2. Appearance



## 3. Frequency





ACTIVATE MARKER

MARKER 6

MARKER 7

MARKER 8

MARKER 9

MARKER 10

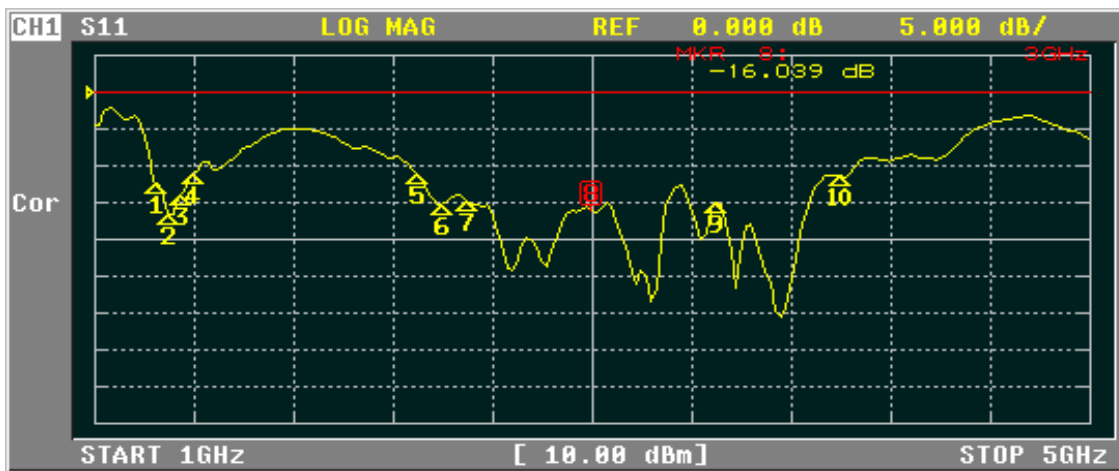
ACTIVATE MKR OFF

Return

More 2/2

CH1 MARKER LIST

1:	1.250 000GHZ	1.640
2:	1.300 000GHZ	1.374
3:	1.350 000GHZ	1.484
4:	1.400 000GHZ	1.747
5:	2.300 000GHZ	1.766
6:	2.400 000GHZ	1.397
7:	2.500 000GHZ	1.474
8:	3.000 000GHZ	1.374
9:	3.500 000GHZ	1.437
10:	4.000 000GHZ	1.746



FORMAT

LOG MAG

PHASE

DELAY

SMITH (R+jX)

SMITH (G+jB)

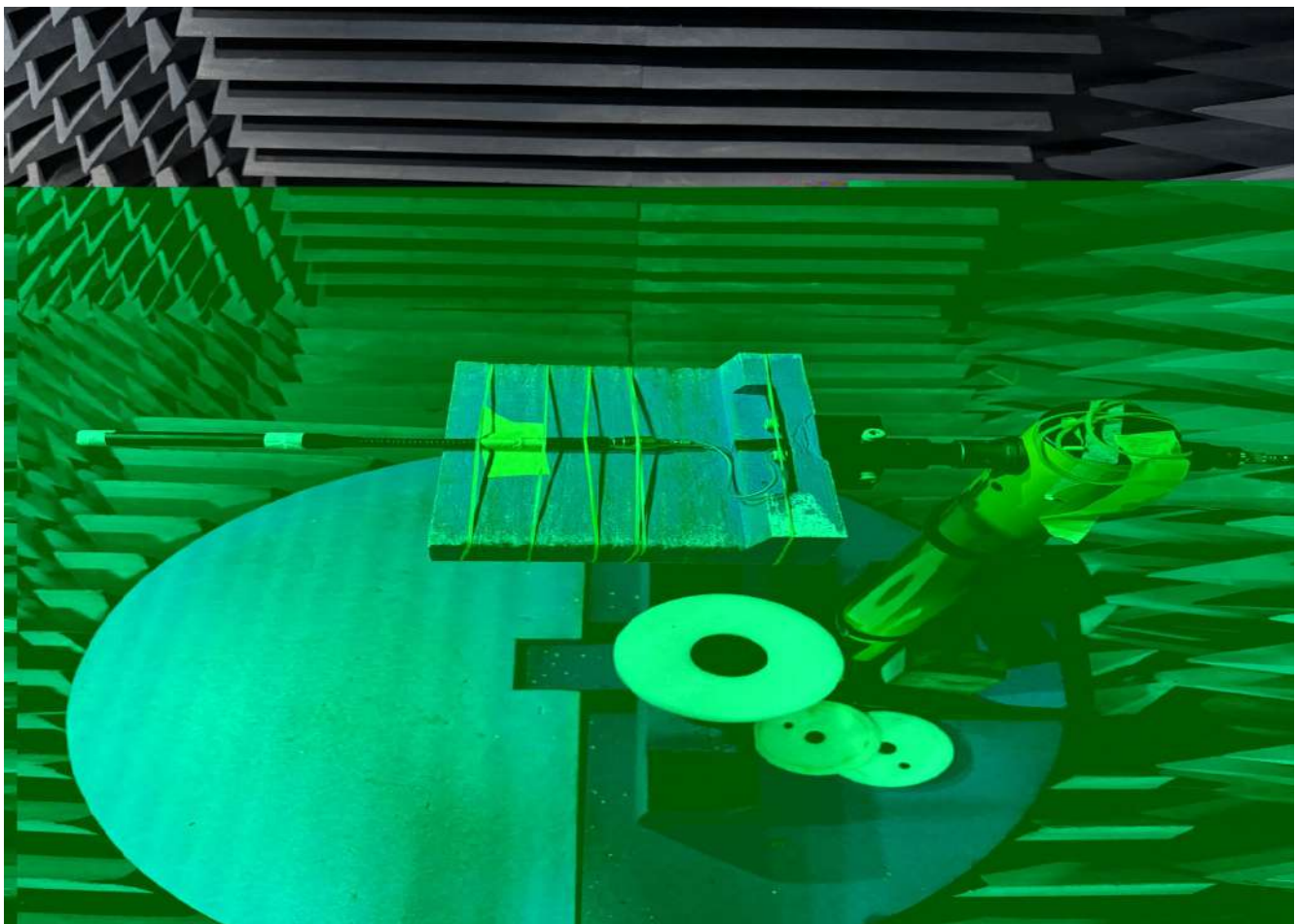
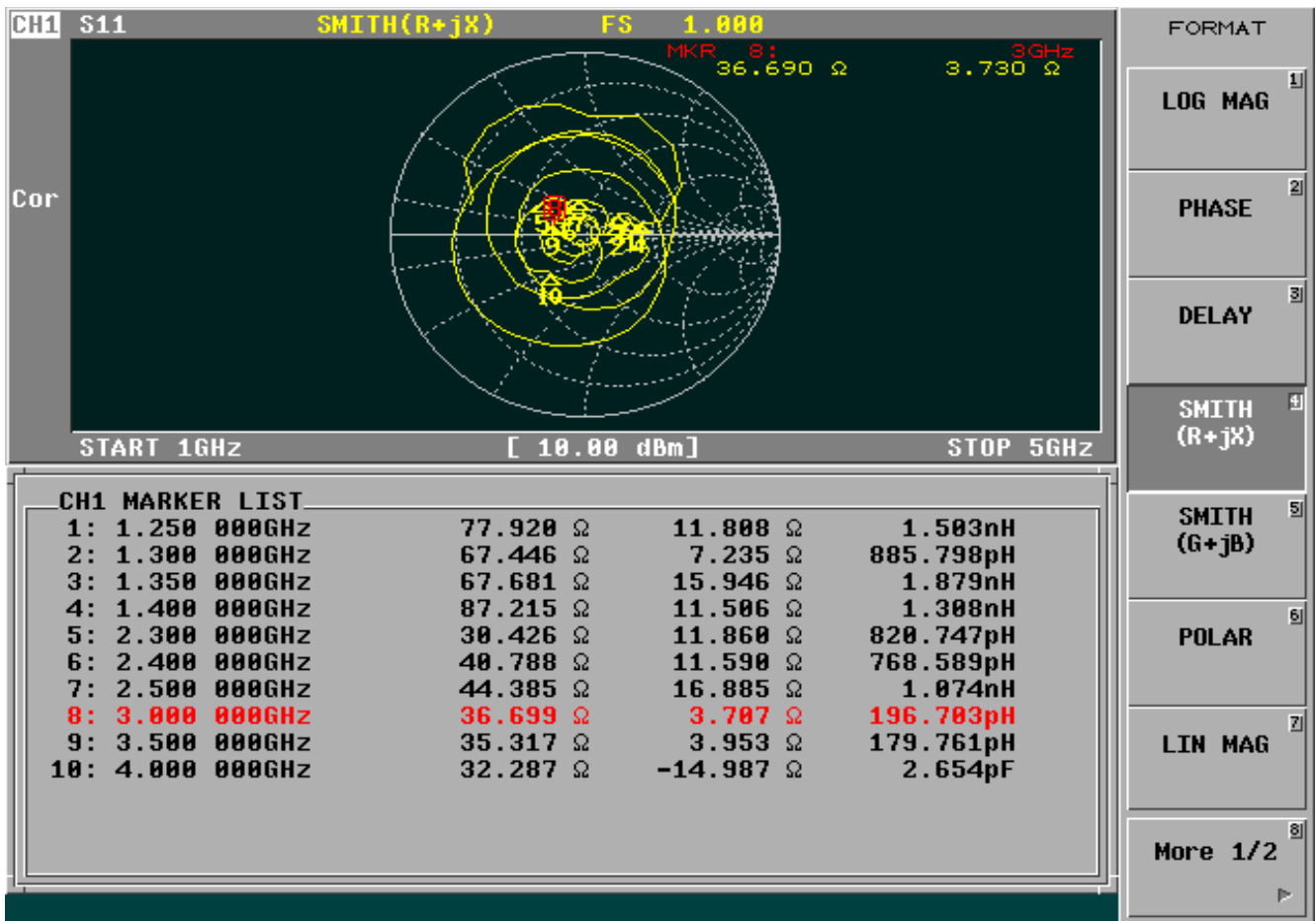
POLAR

LIN MAG

More 1/2

CH1 MARKER LIST

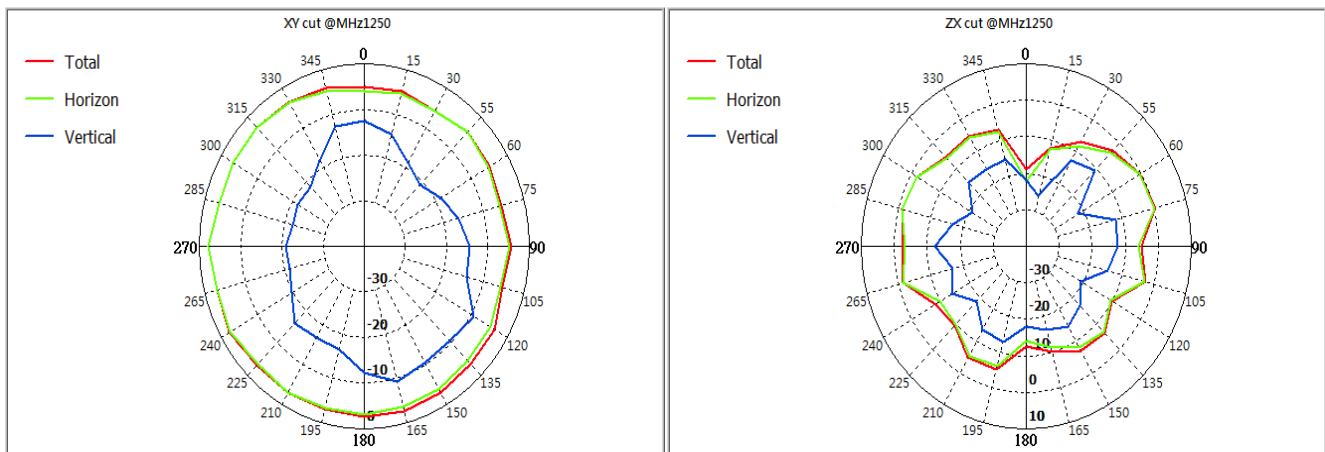
1:	1.250 000GHZ	-12.359 dB
2:	1.300 000GHZ	-16.506 dB
3:	1.350 000GHZ	-14.043 dB
4:	1.400 000GHZ	-11.008 dB
5:	2.300 000GHZ	-11.112 dB
6:	2.400 000GHZ	-15.296 dB
7:	2.500 000GHZ	-14.777 dB
8:	3.000 000GHZ	-16.039 dB
9:	3.500 000GHZ	-14.904 dB
10:	4.000 000GHZ	-11.345 dB



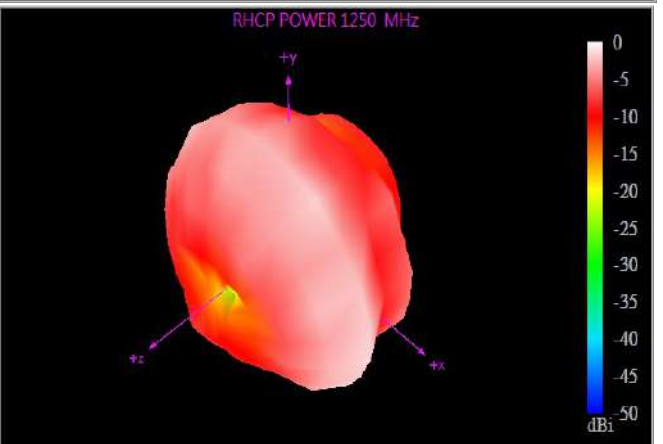
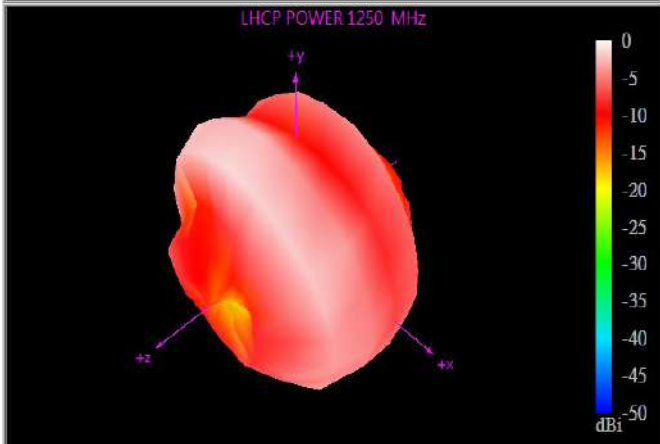
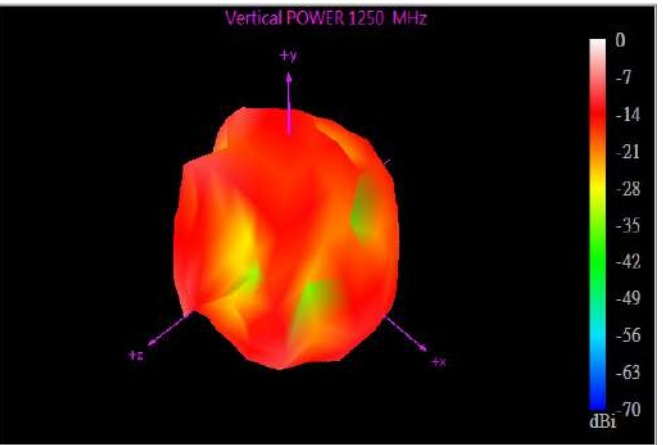
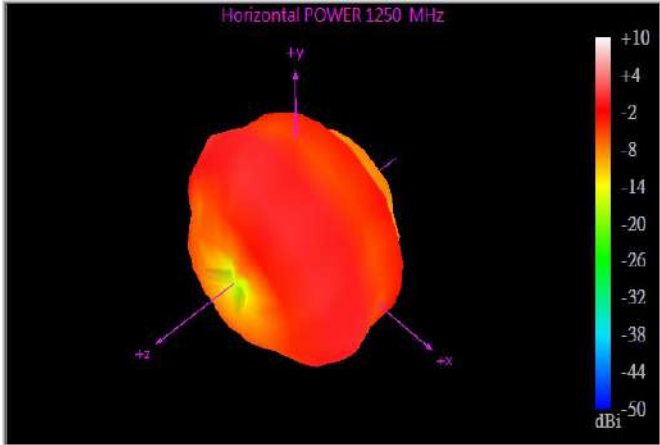
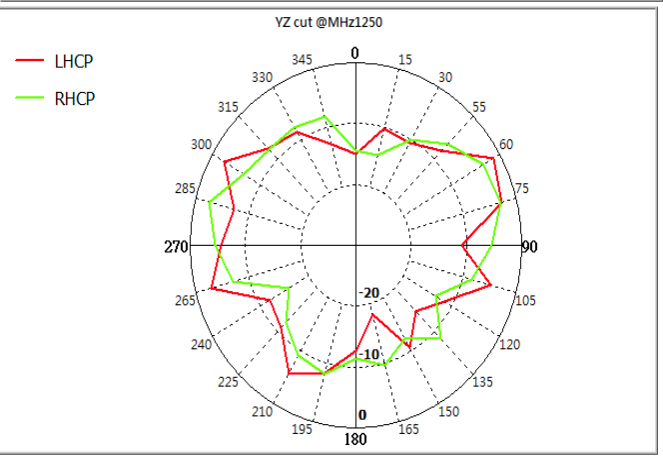
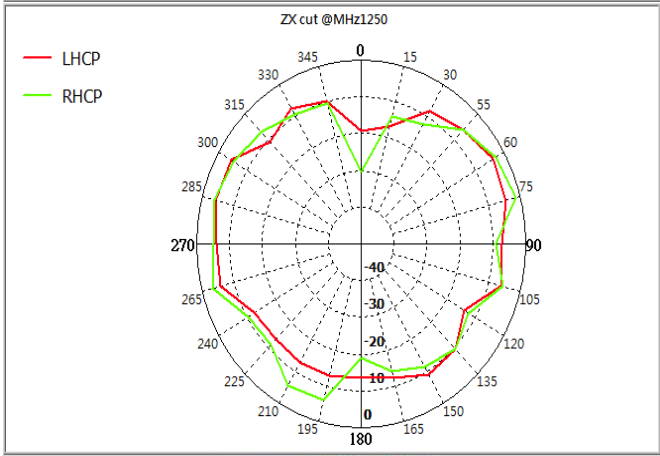
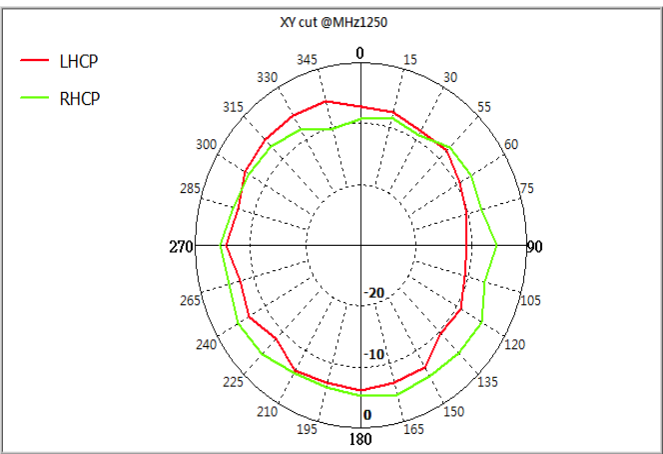
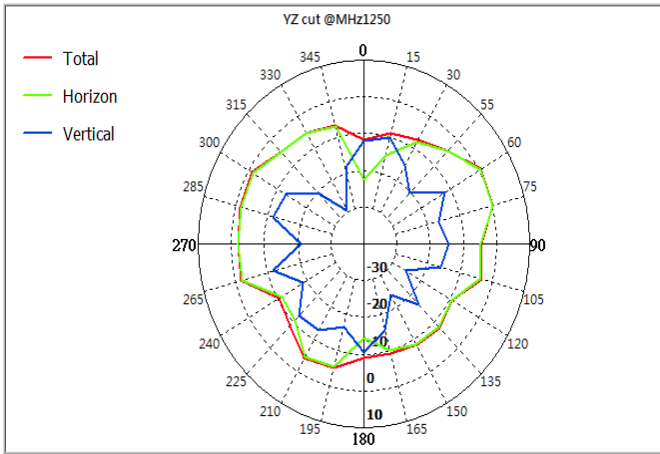
3D Total

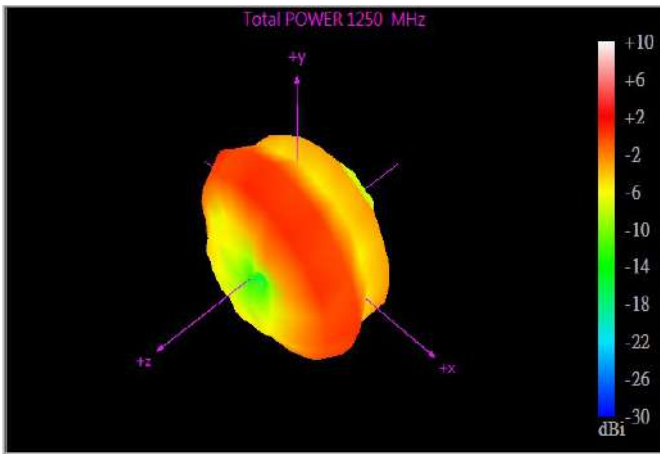
Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
1250 MHz	-5.61	-8.39	-3.77	41.94	0.80	-3.77
1300 MHz	-5.45	-8.26	-3.62	43.46	0.77	-3.62
1350 MHz	-4.94	-6.71	-2.73	53.36	0.81	-2.73
1400 MHz	-5.24	-6.56	-2.84	52.03	0.93	-2.84
1450 MHz	-6.85	-8.11	-4.42	36.12	-0.51	-4.42
1500 MHz	-5.99	-9.07	-4.25	37.59	-0.86	-4.25
2200 MHz	-4.05	-9.84	-3.03	49.76	1.26	-3.03
2250 MHz	-4.38	-11.63	-3.63	43.30	1.72	-3.63
2300 MHz	-4.29	-12.94	-3.74	42.32	2.07	-3.74
2350 MHz	-3.75	-12.59	-3.22	47.68	2.48	-3.22
2400 MHz	-4.16	-11.34	-3.40	45.73	2.41	-3.40
2450 MHz	-4.58	-10.01	-3.48	44.83	1.32	-3.48
2500 MHz	-4.58	-8.72	-3.16	48.26	1.90	-3.16
2600 MHz	-5.31	-7.58	-3.29	46.90	1.58	-3.29
2630 MHz	-5.94	-7.93	-3.81	41.58	0.84	-3.81
3300 MHz	-6.37	-4.32	-2.22	60.04	4.34	-2.22
3400 MHz	-7.90	-6.05	-3.86	41.07	3.02	-3.86
3500 MHz	-6.17	-4.49	-2.24	59.70	3.69	-2.24
3600 MHz	-5.45	-5.55	-2.49	56.38	2.72	-2.49
3700 MHz	-5.62	-6.41	-2.99	50.28	1.16	-2.99
3800 MHz	-7.40	-7.13	-4.26	37.54	0.41	-4.26
3900 MHz	-7.26	-6.93	-4.08	39.10	1.00	-4.08
4000 MHz	-3.03	-3.55	-4.17	38.28	5.22	-0.27

### 1250Mhz:

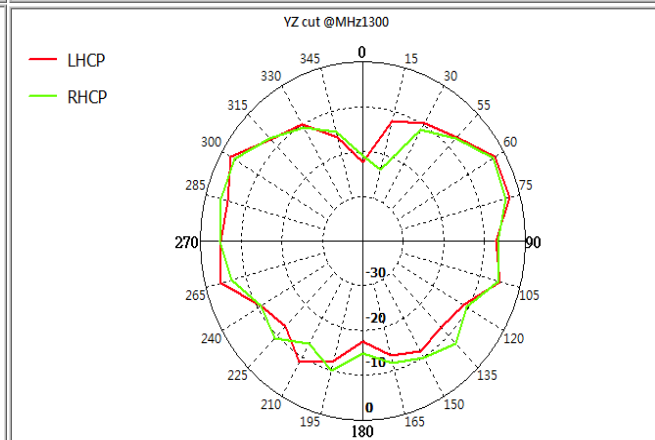
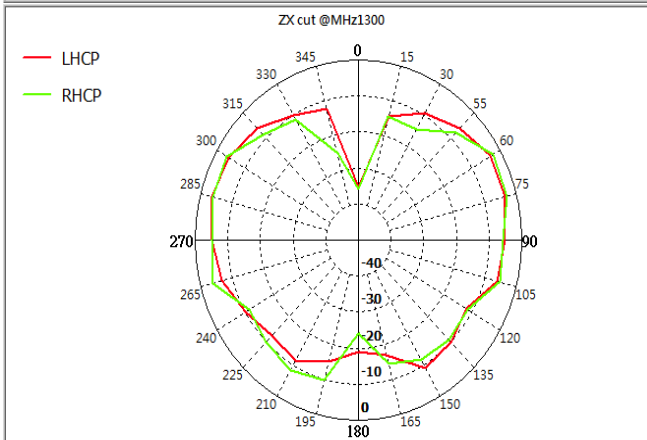
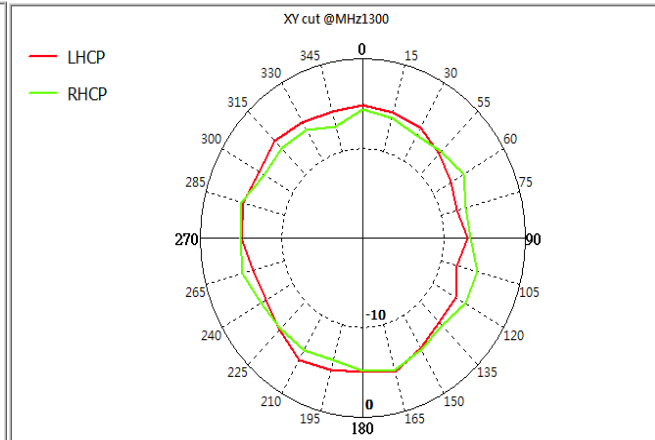
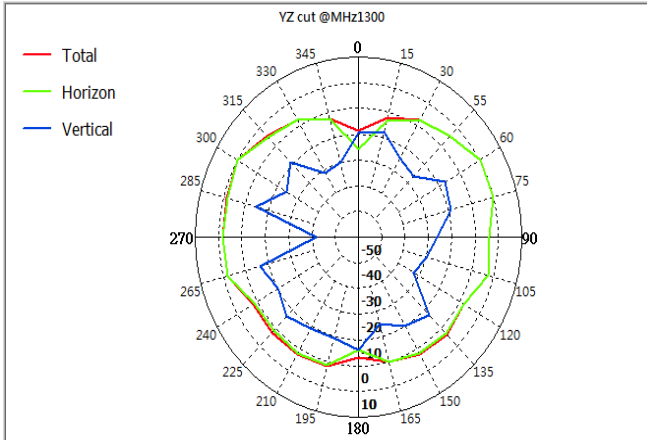
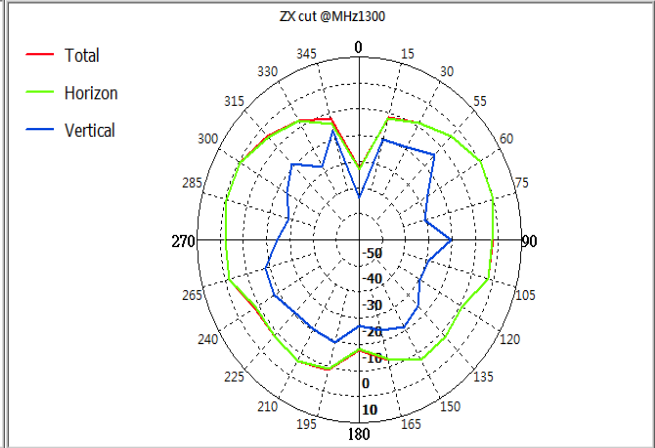
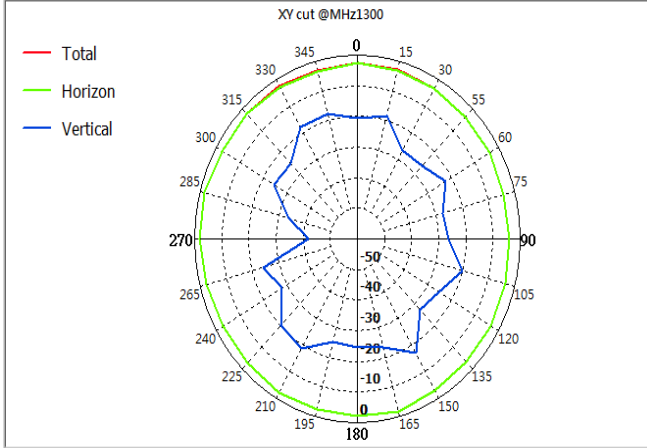




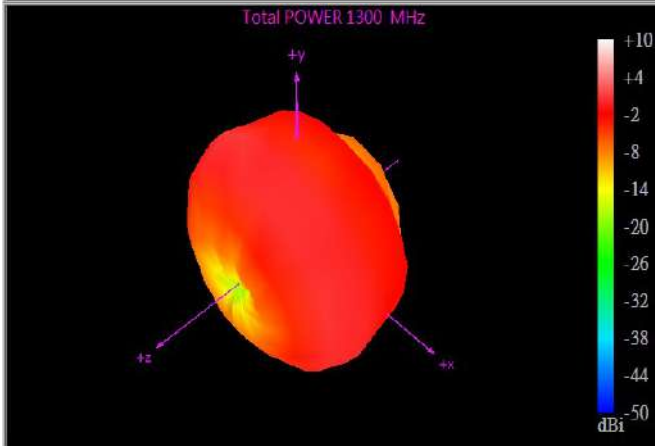
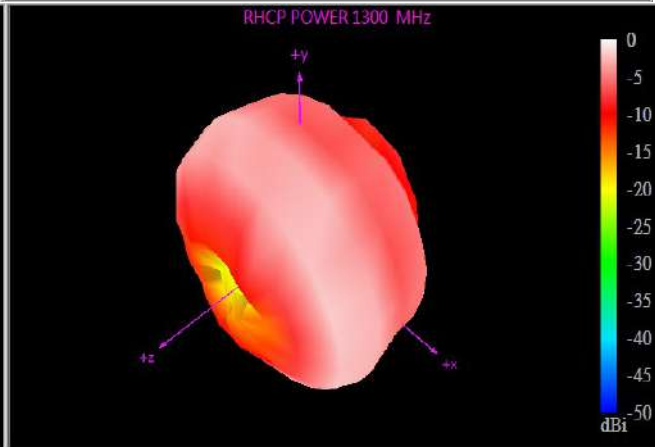
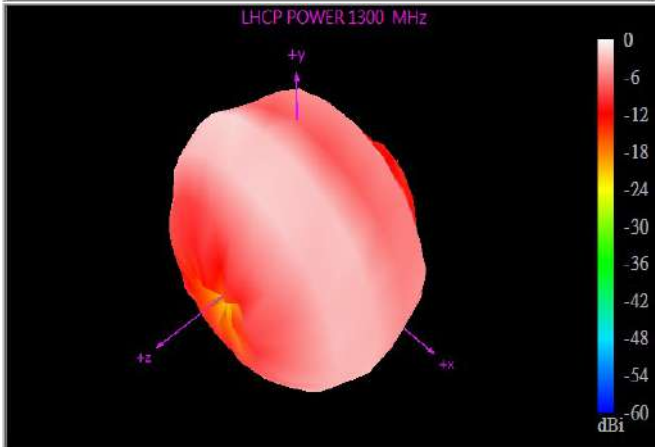
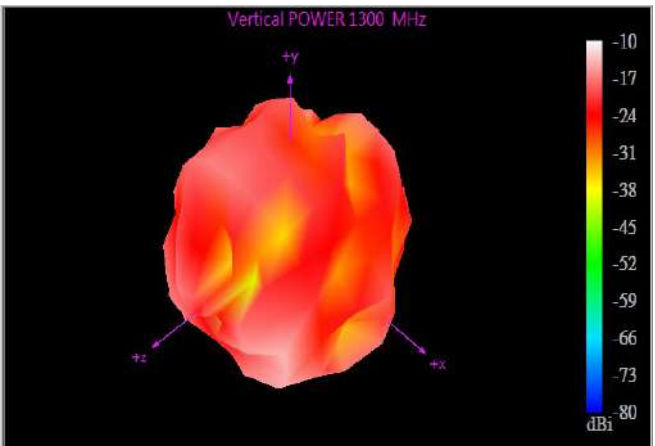
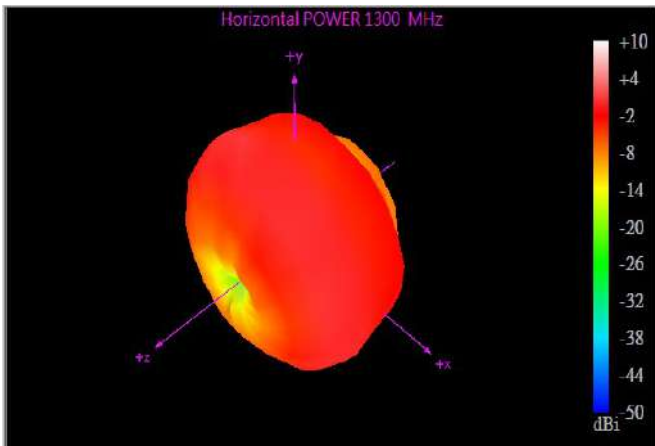




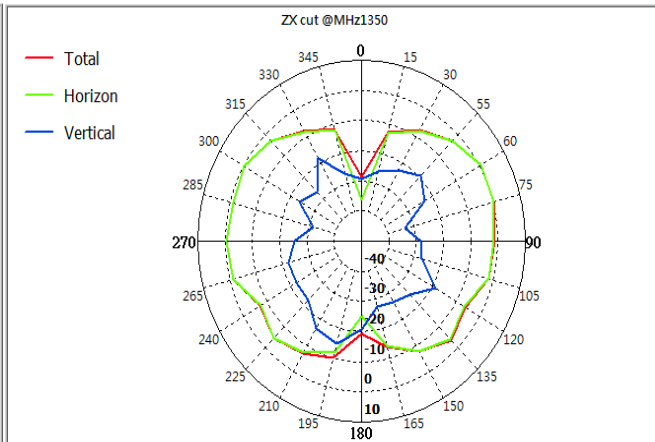
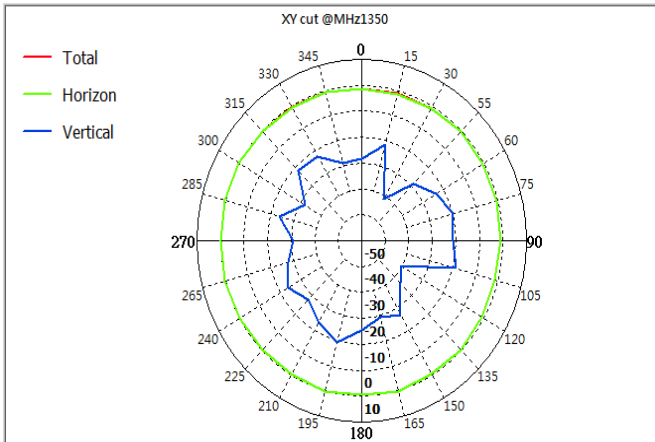
**1300MHz:**

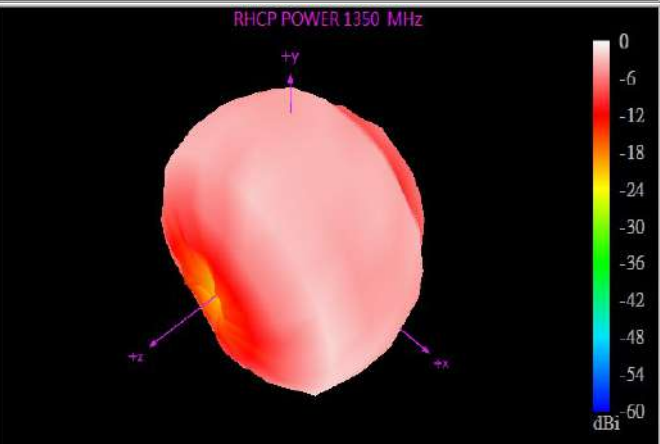
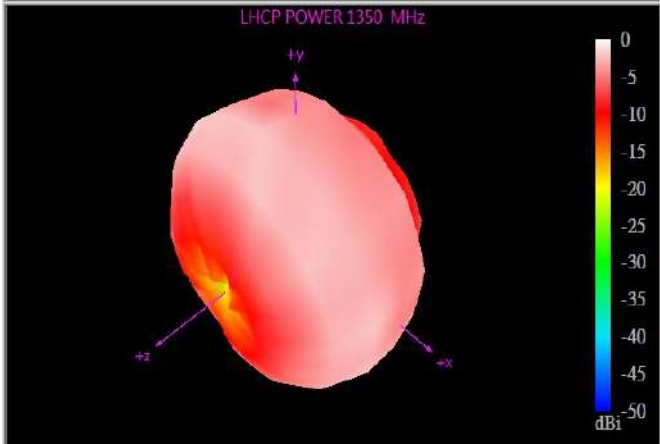
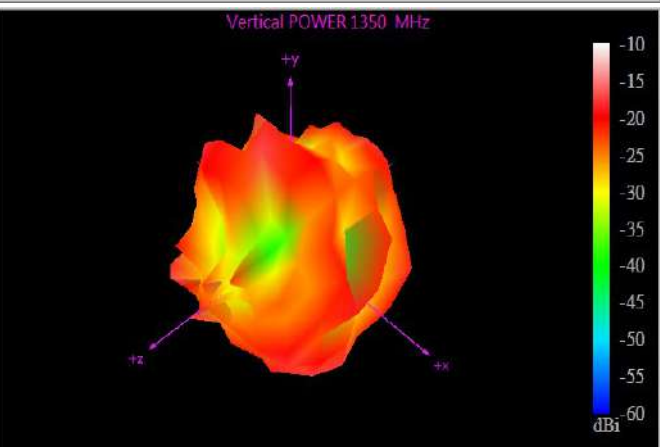
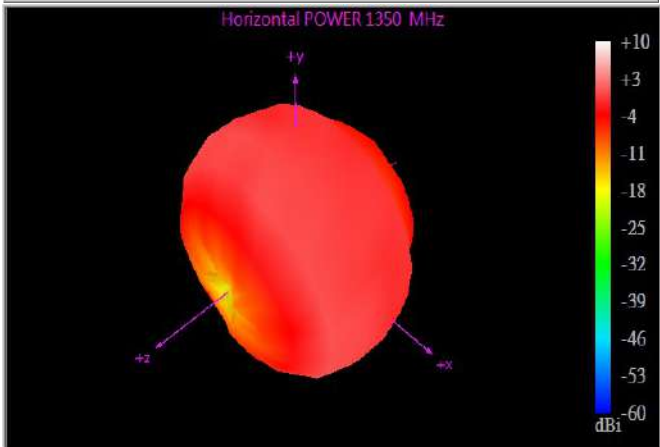
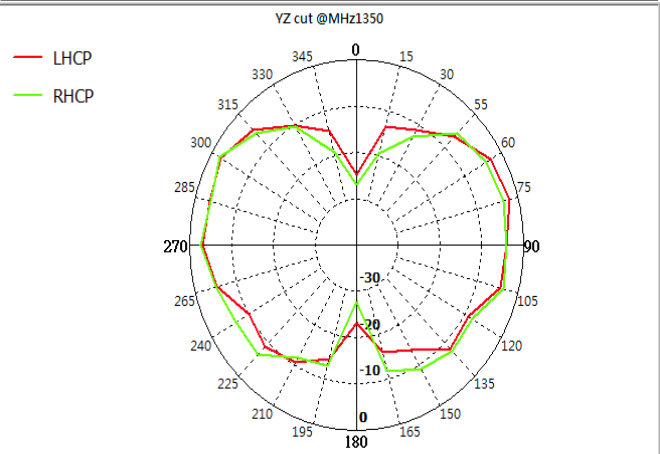
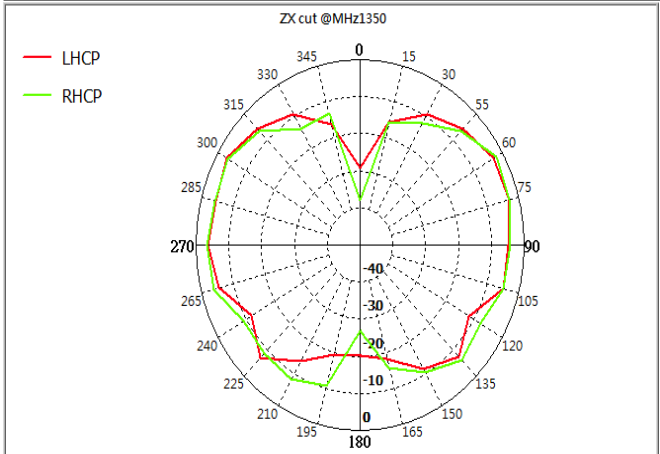
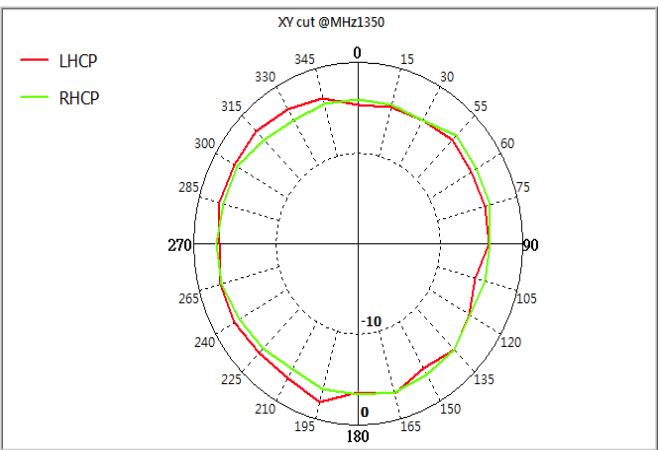
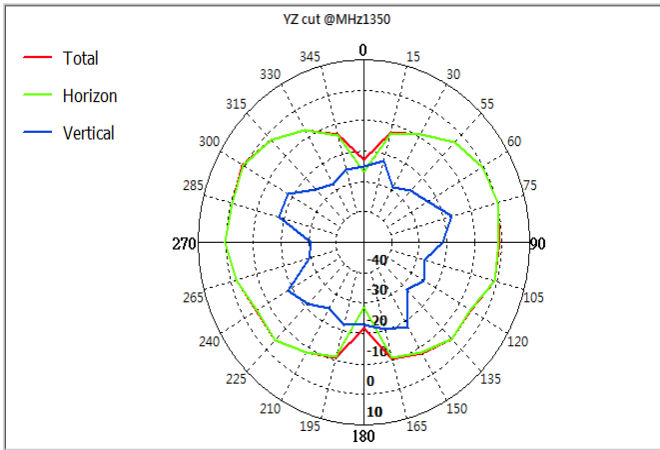


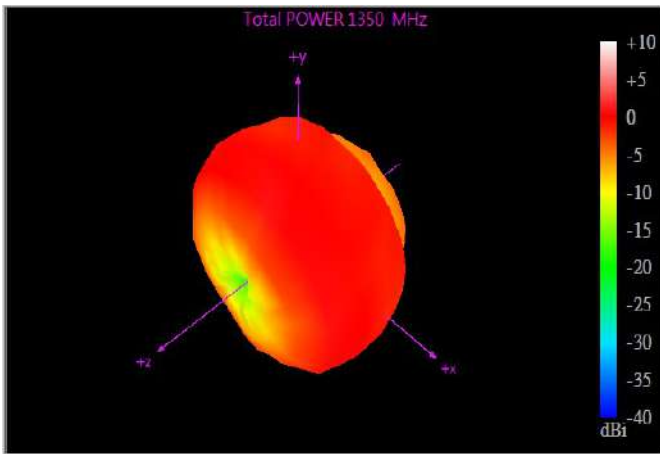




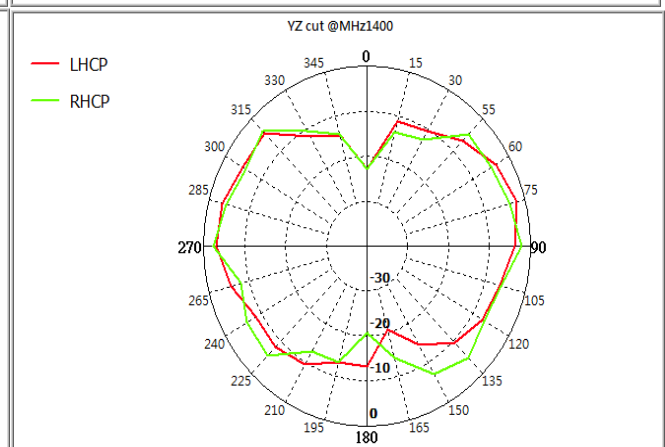
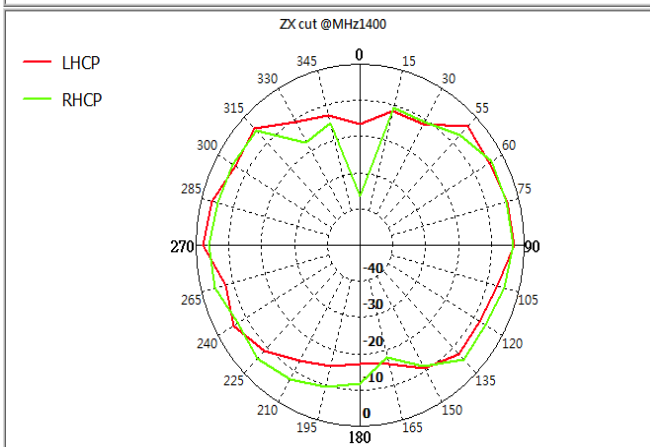
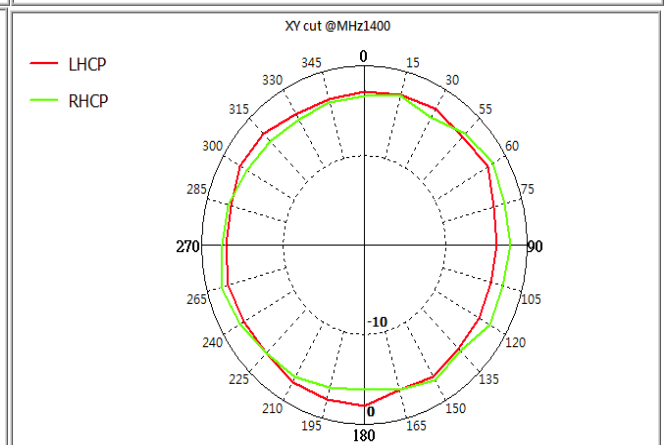
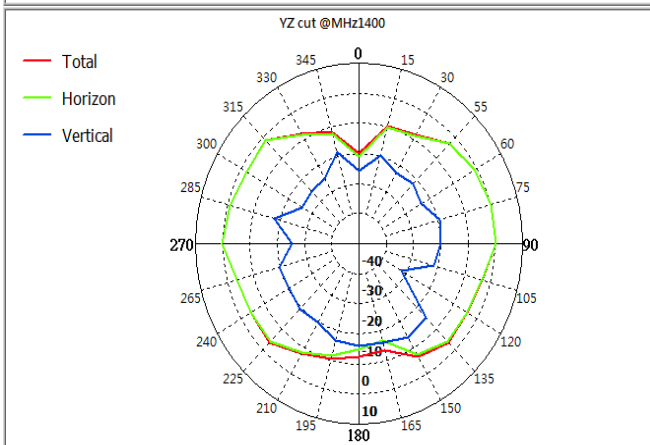
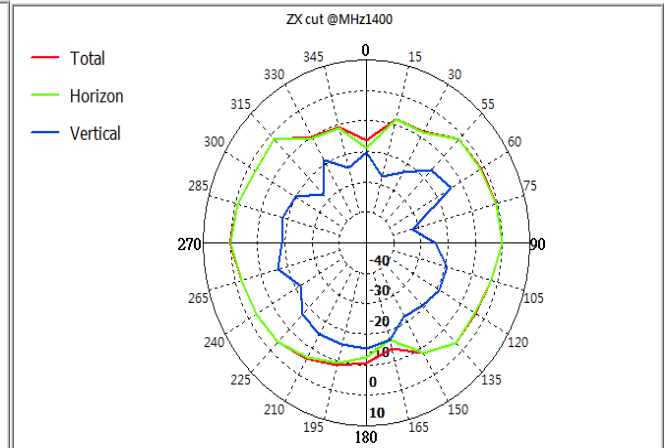
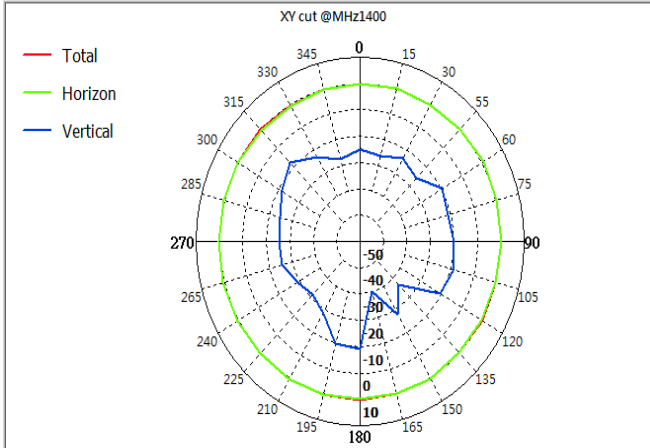
**1350Mhz:**

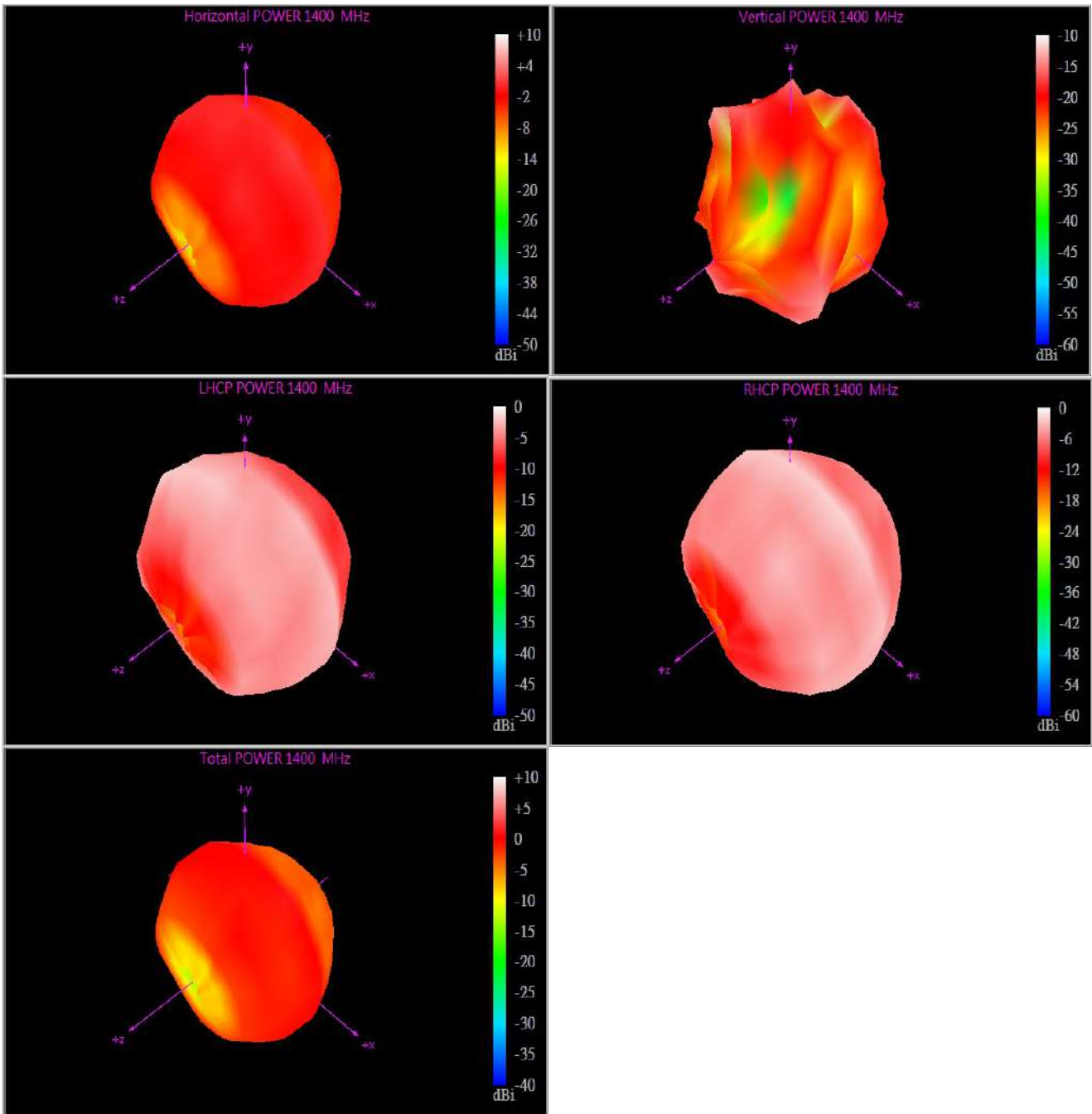




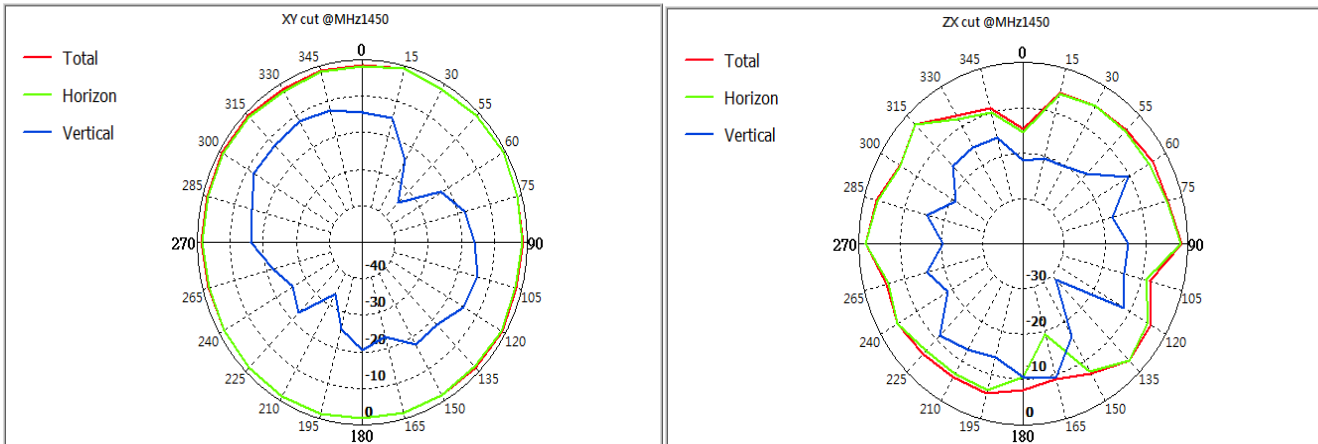


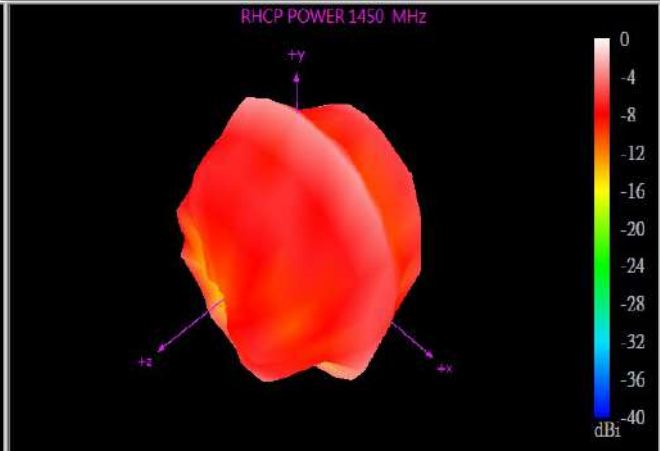
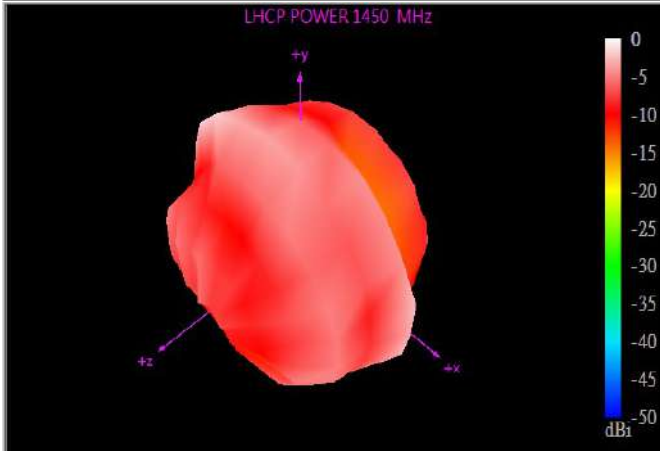
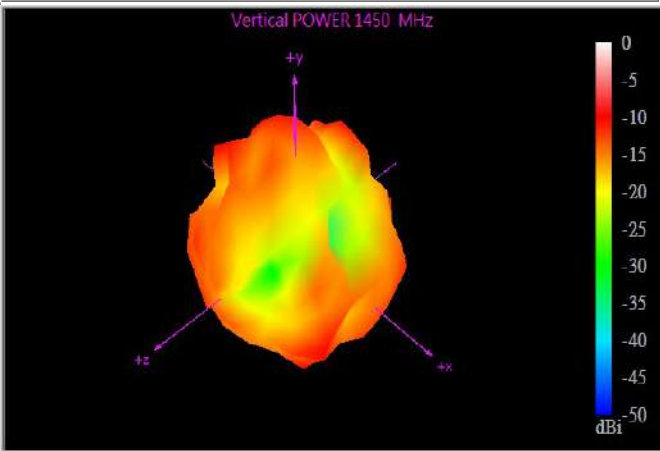
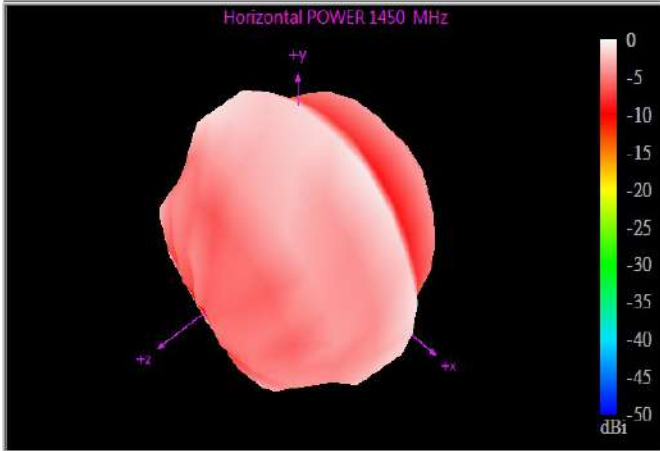
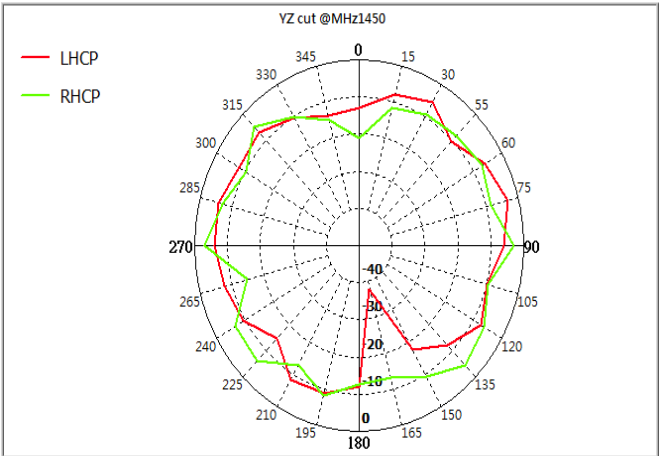
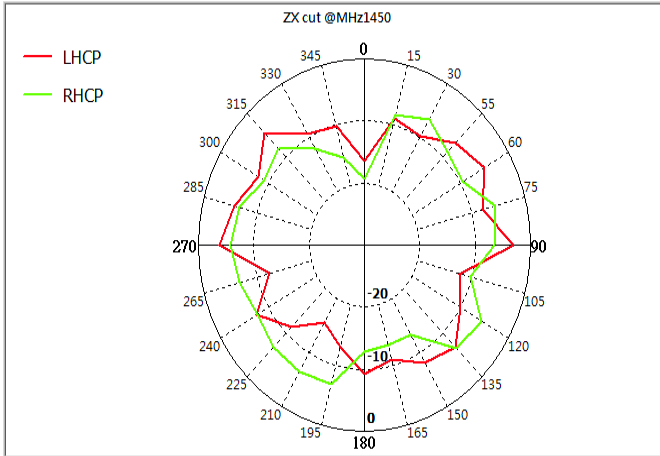
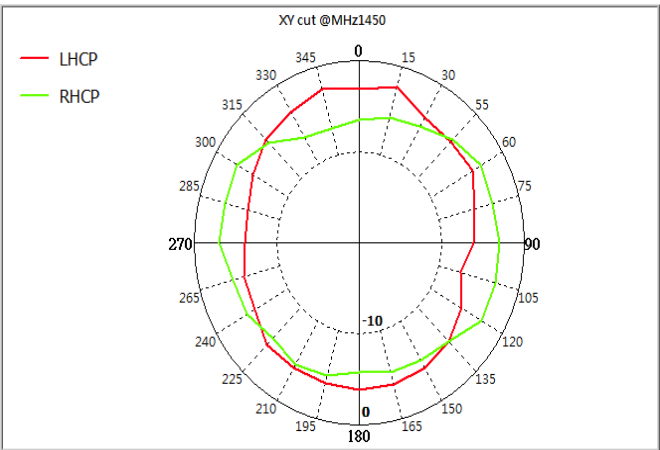
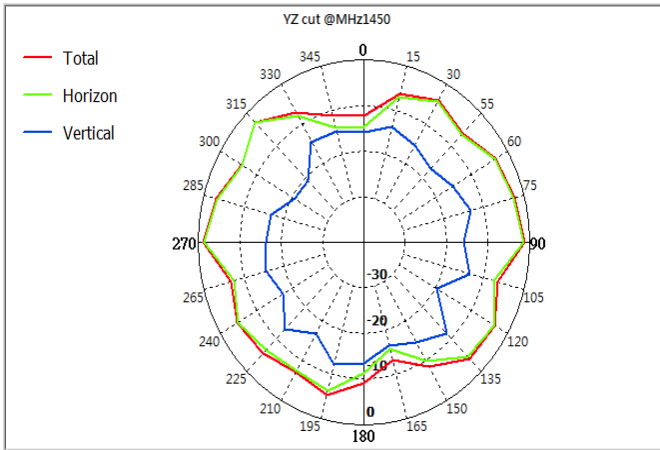
**1400MHz:**





**1450Mhz:**

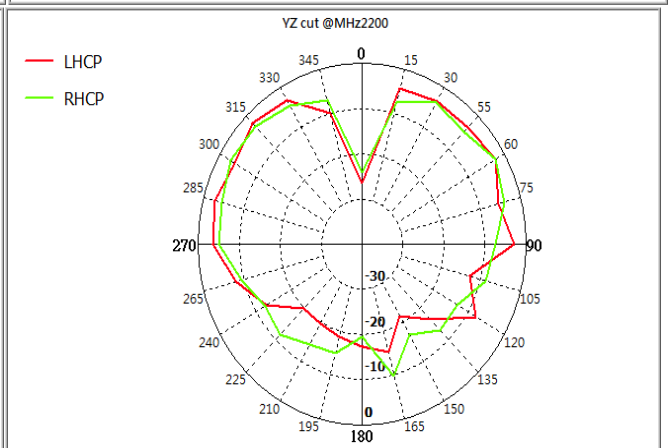
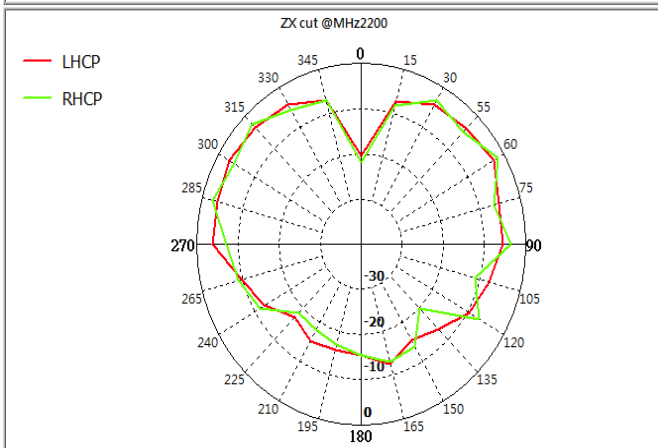
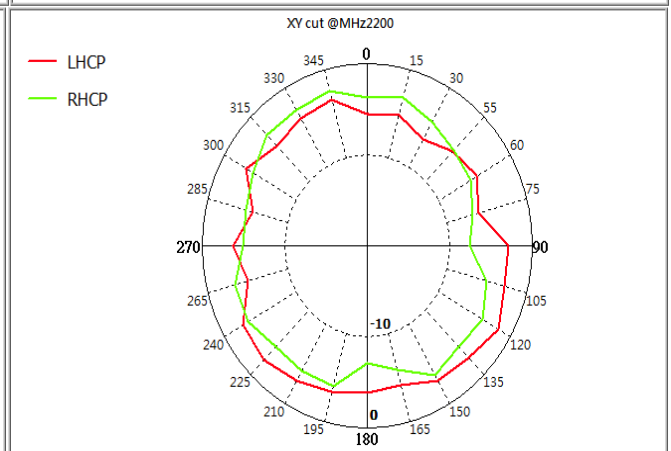
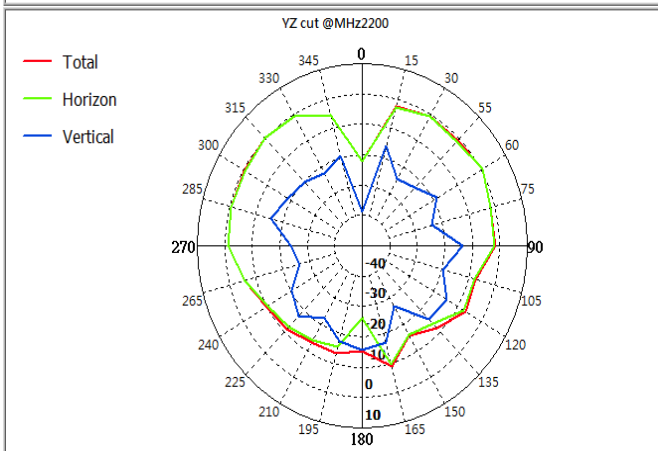
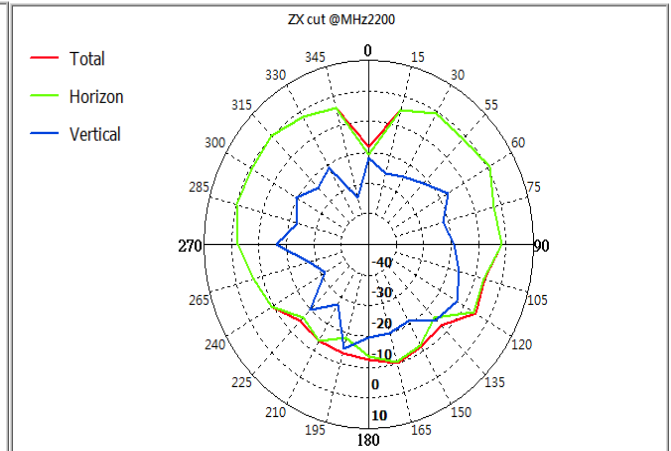
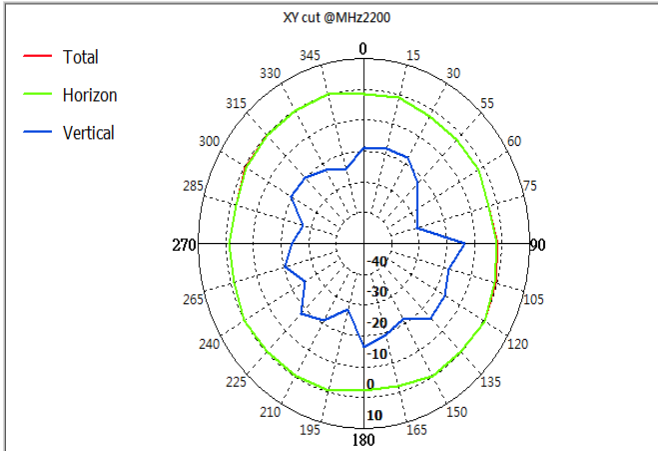




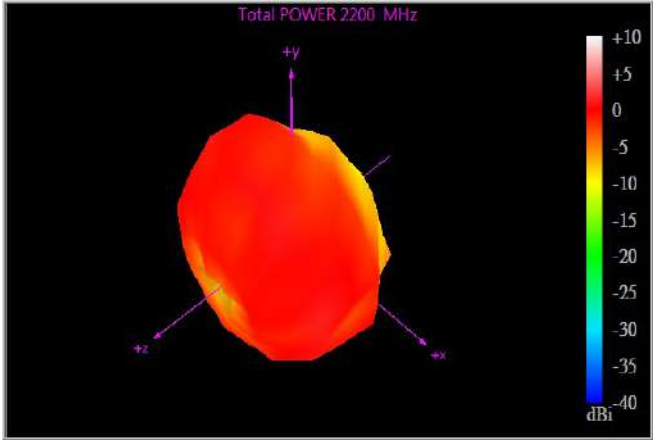
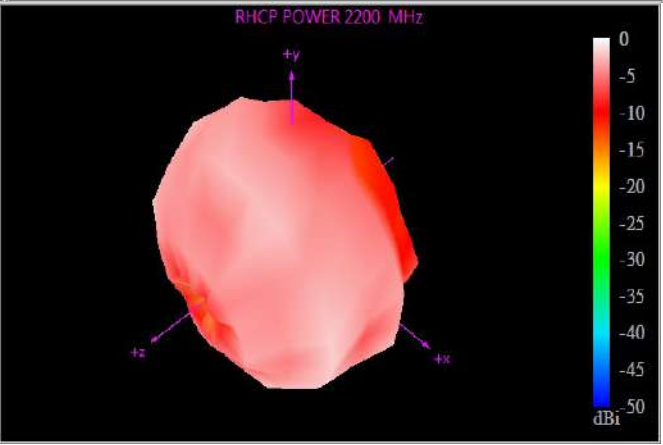
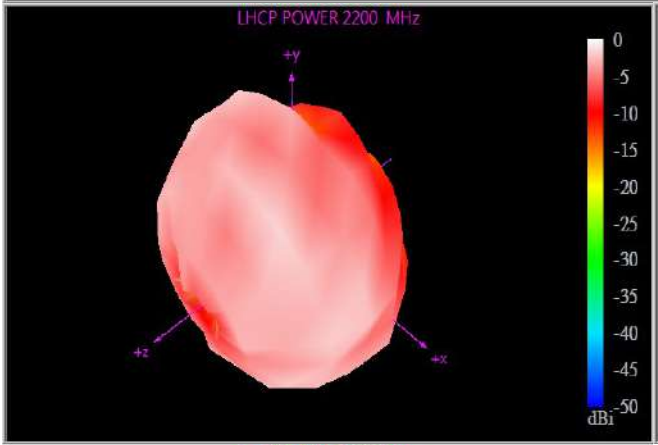
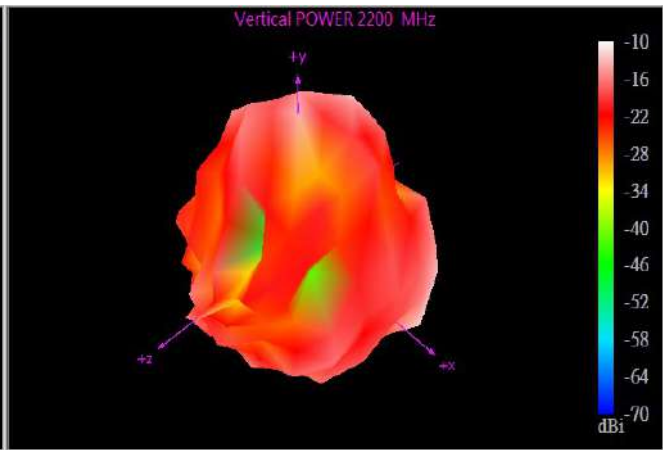
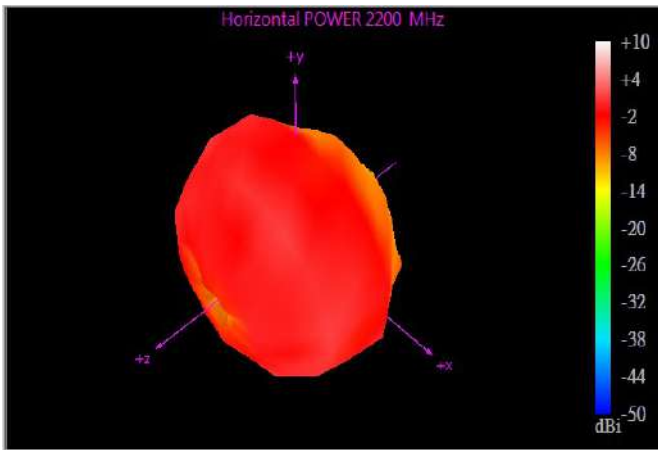




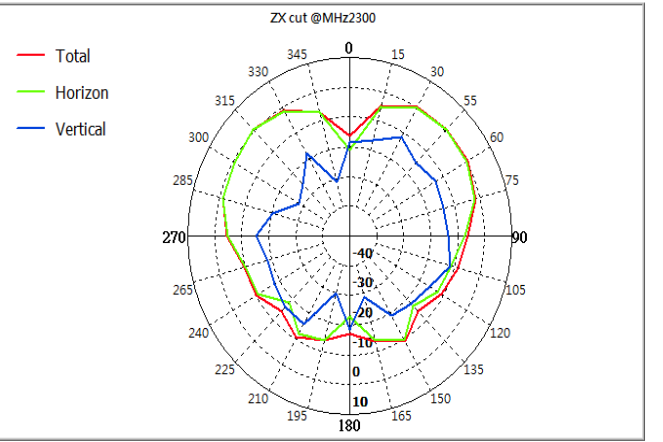
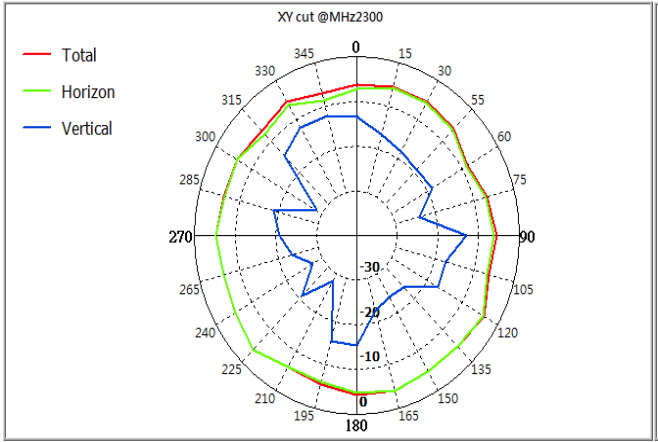
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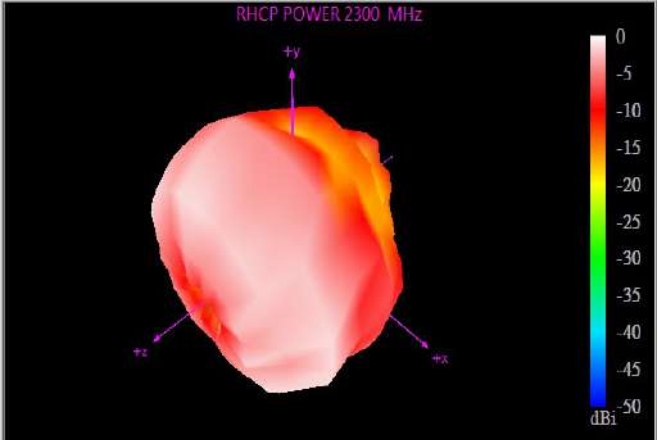
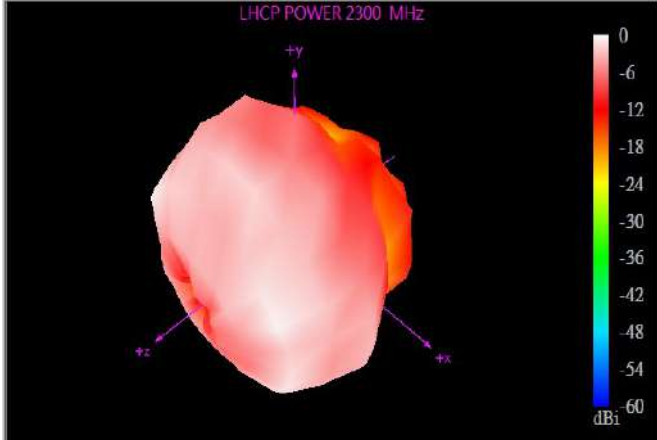
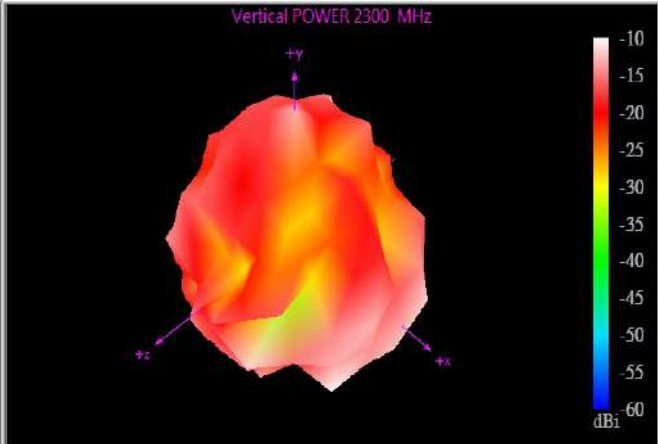
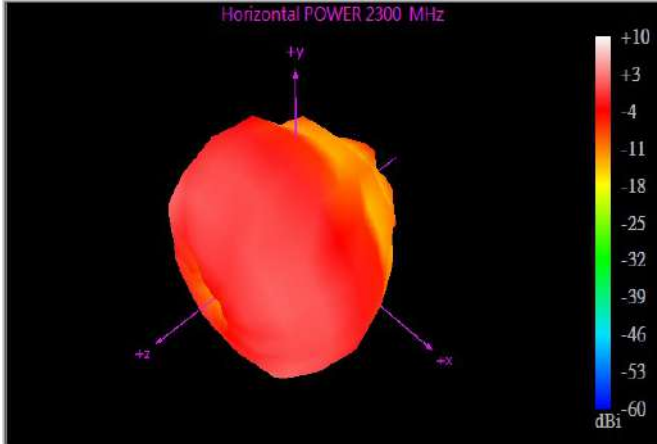
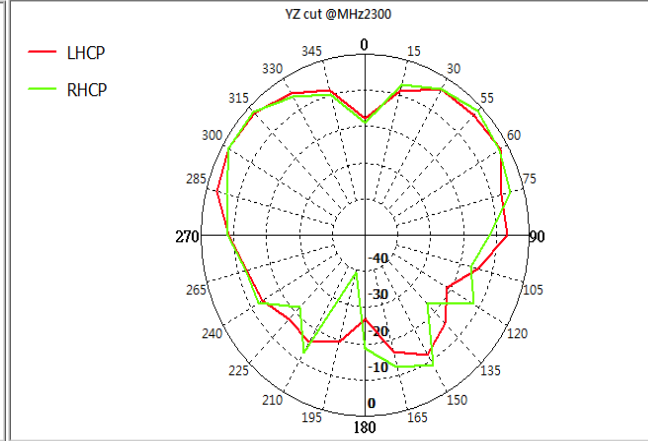
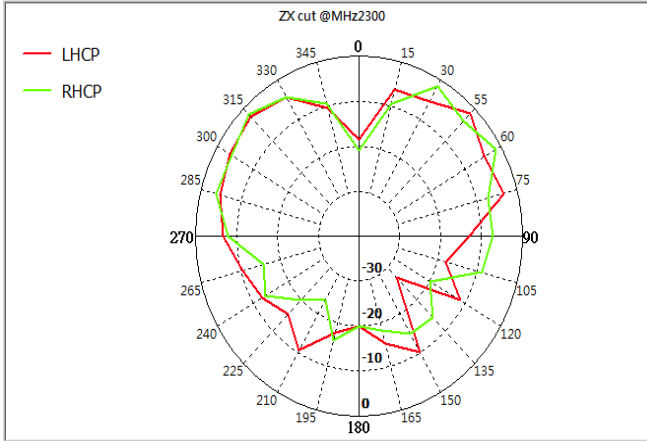
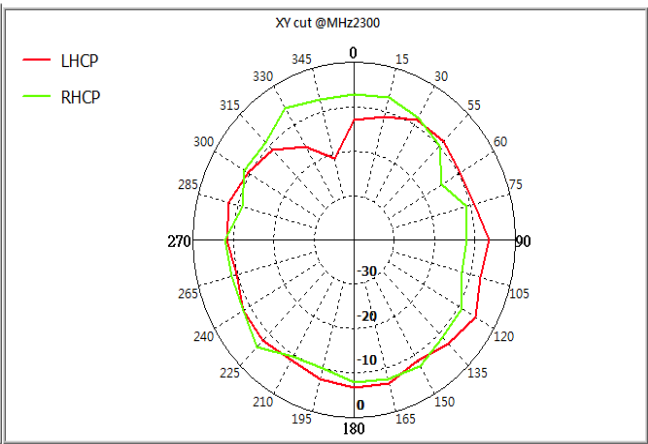
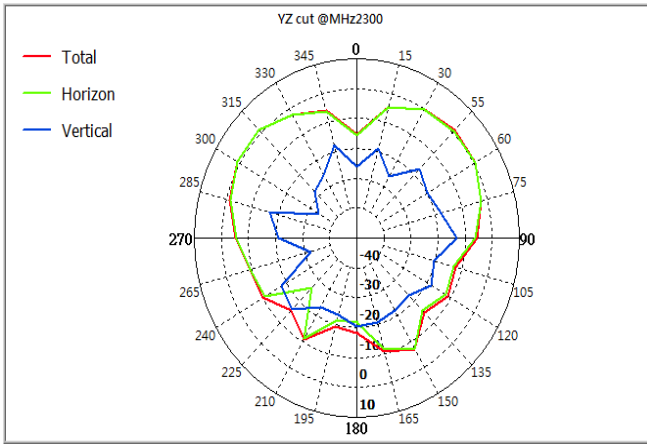


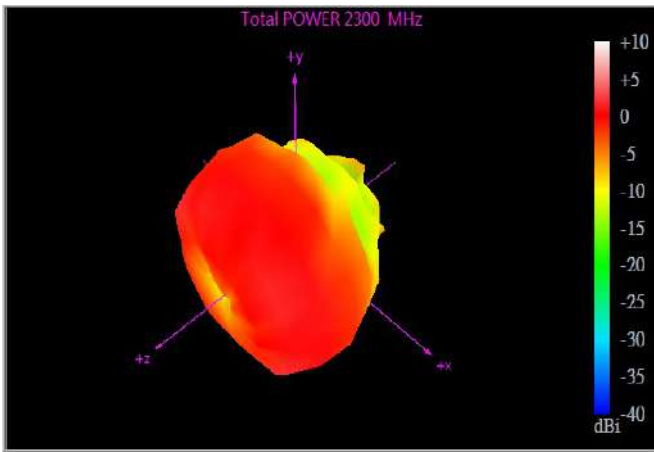




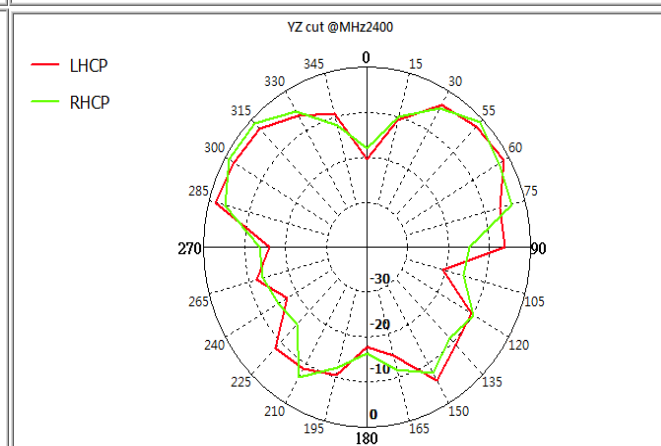
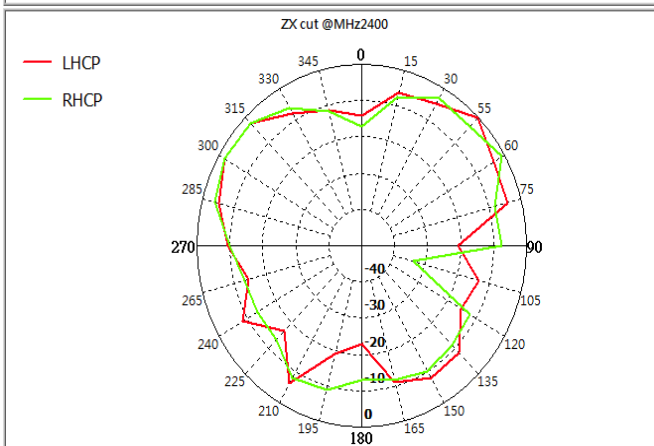
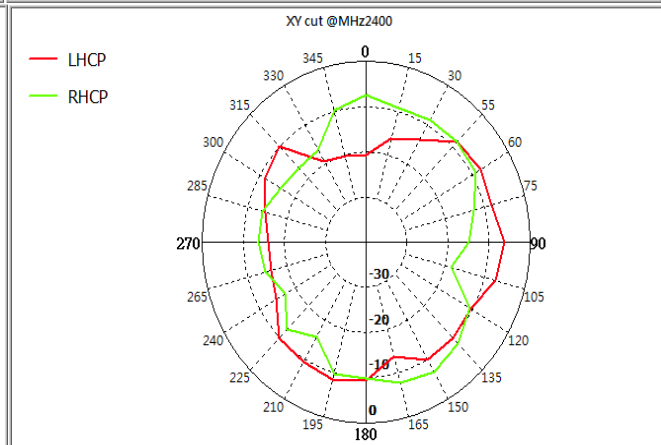
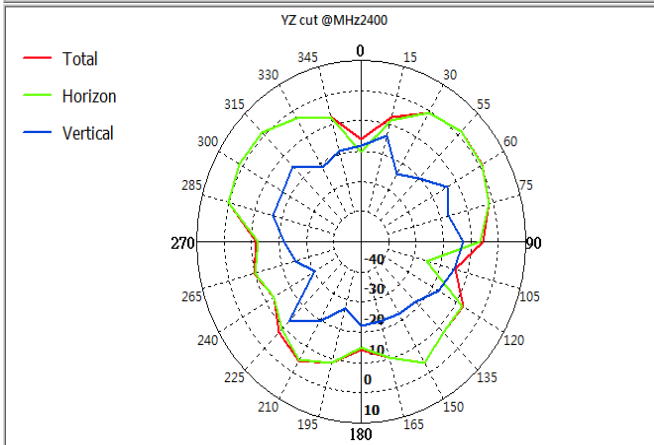
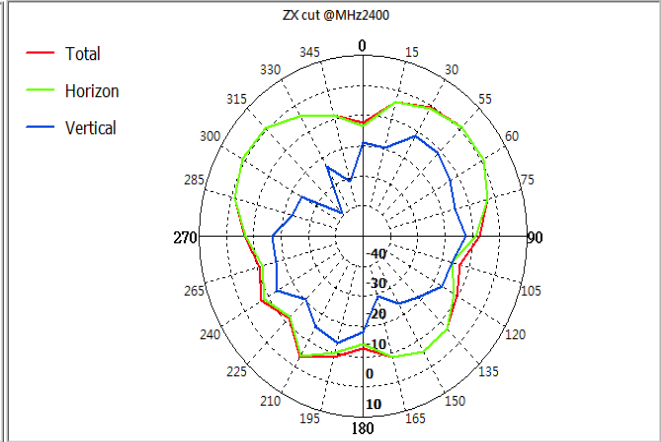
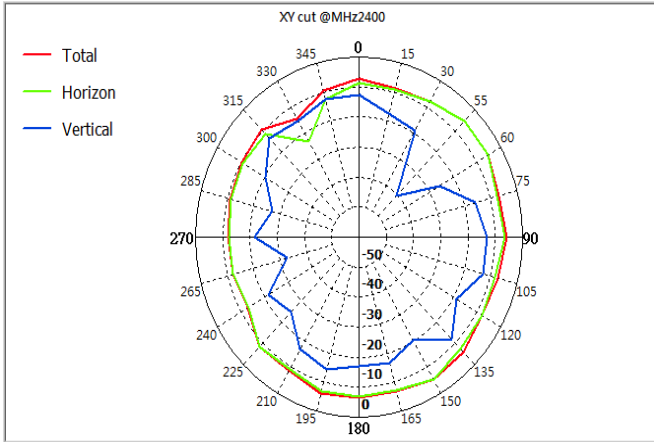
**2300Mhz:**

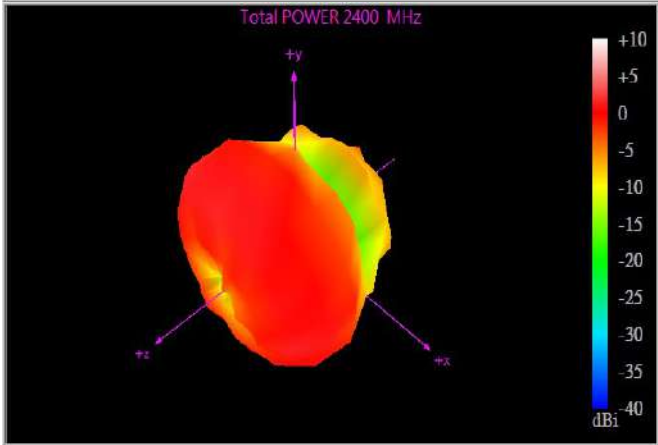
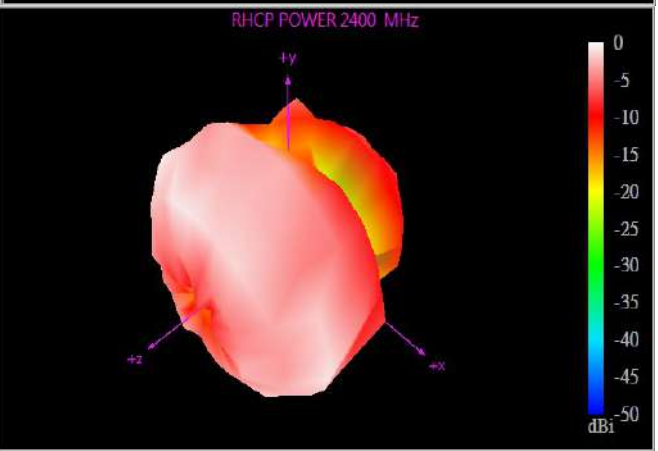
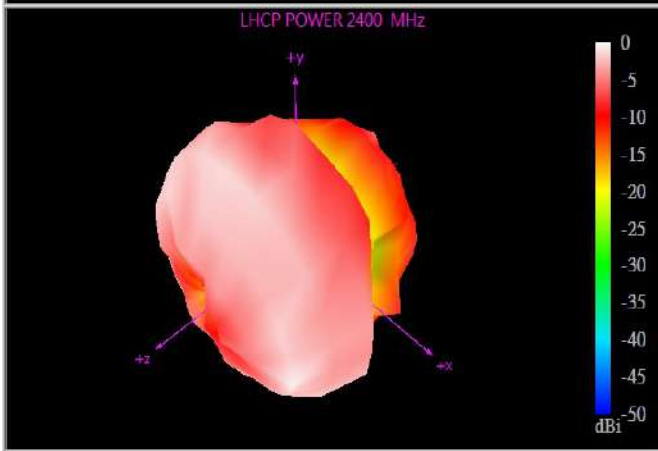
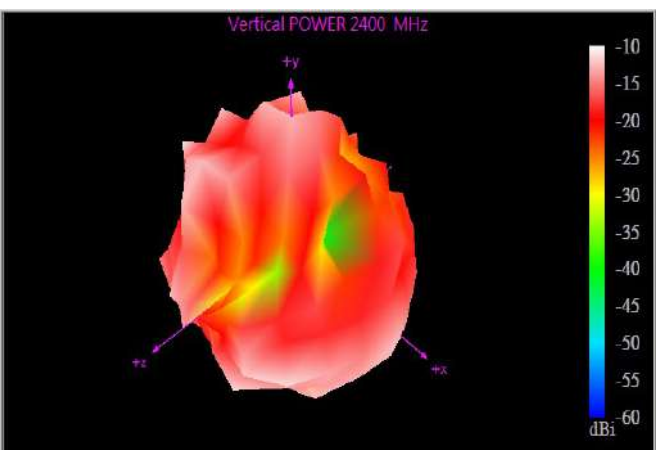
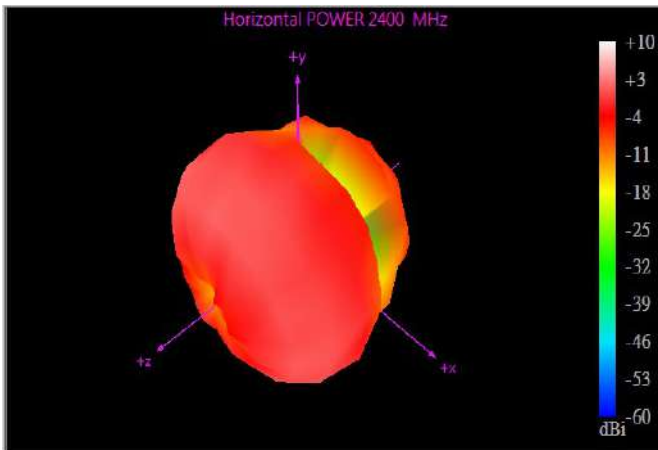




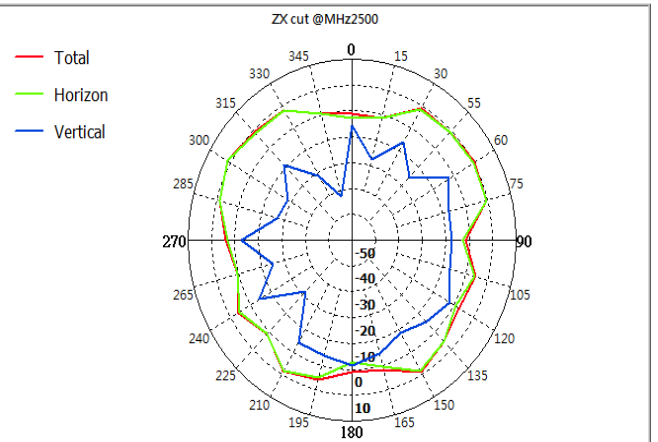
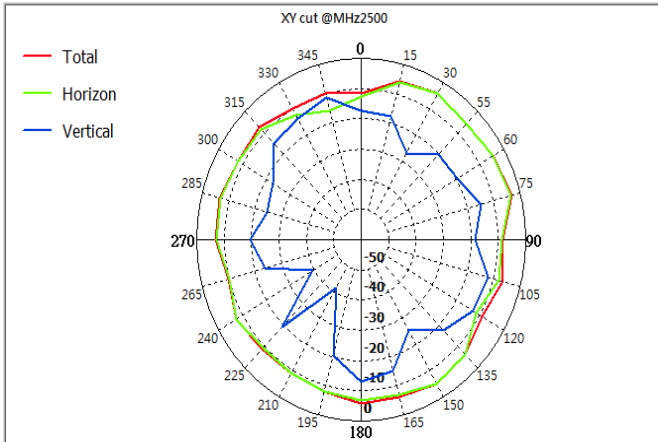


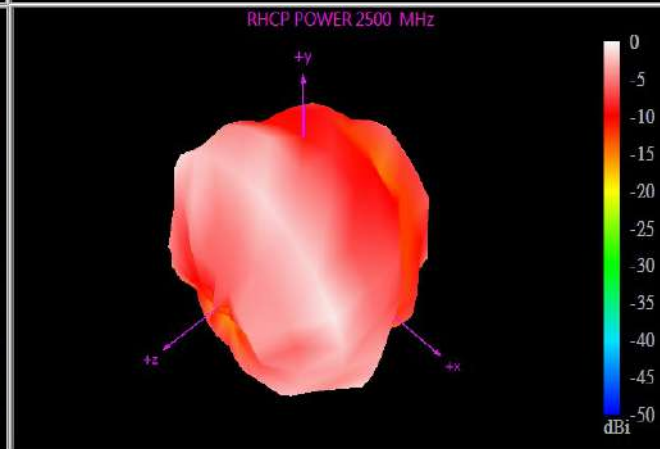
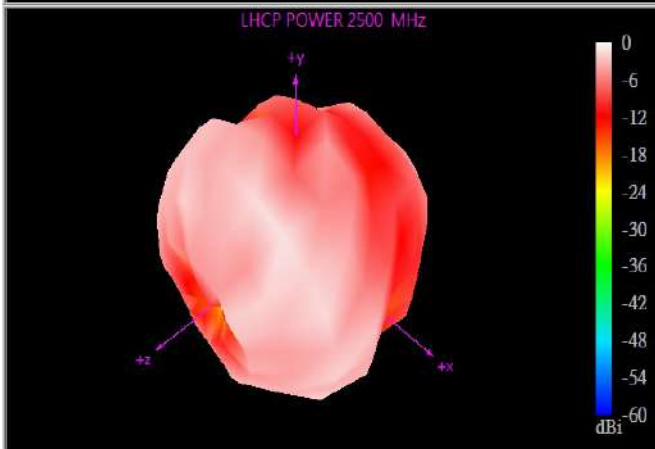
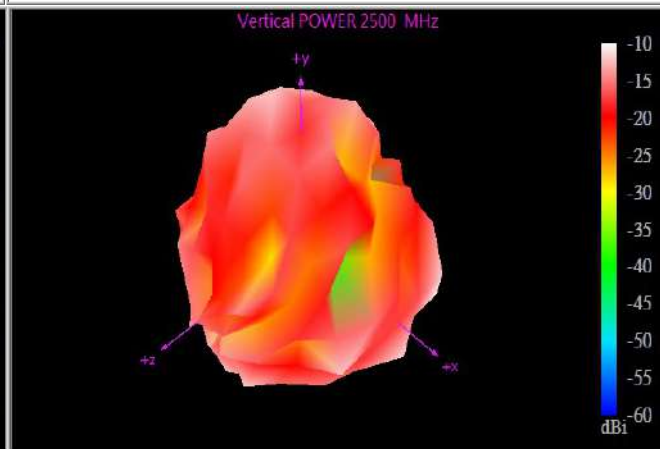
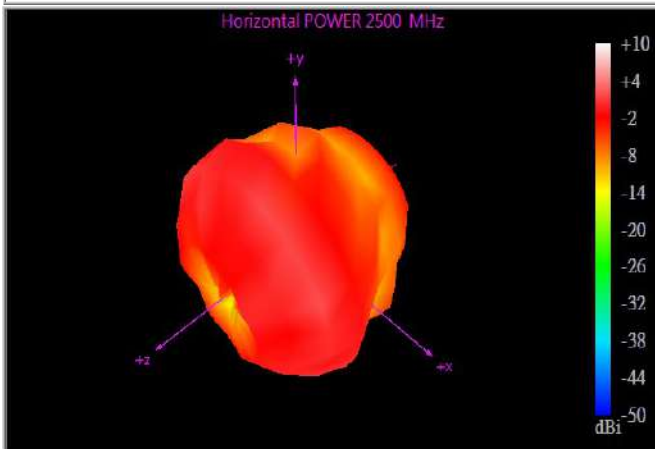
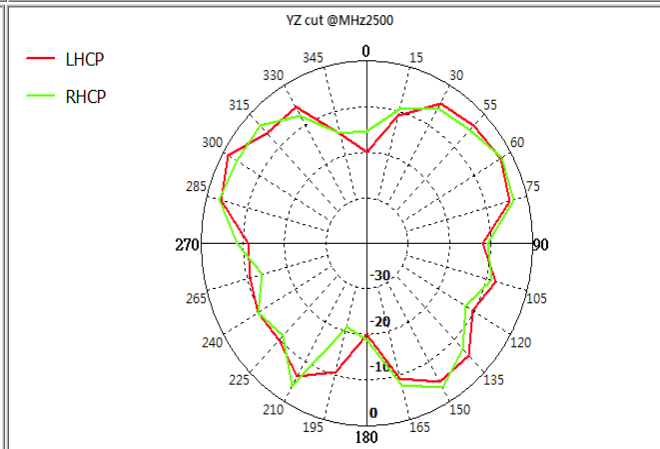
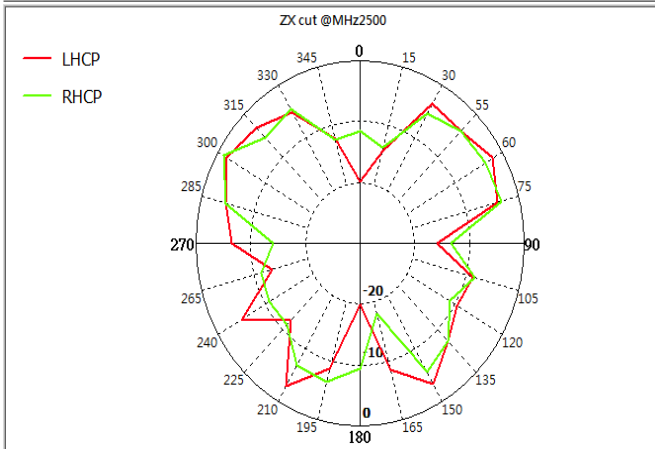
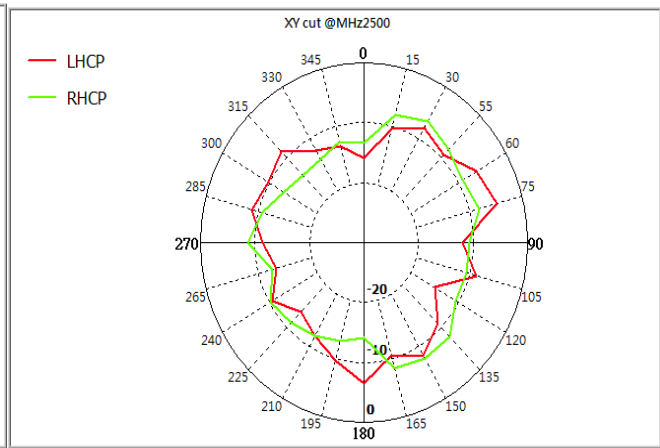
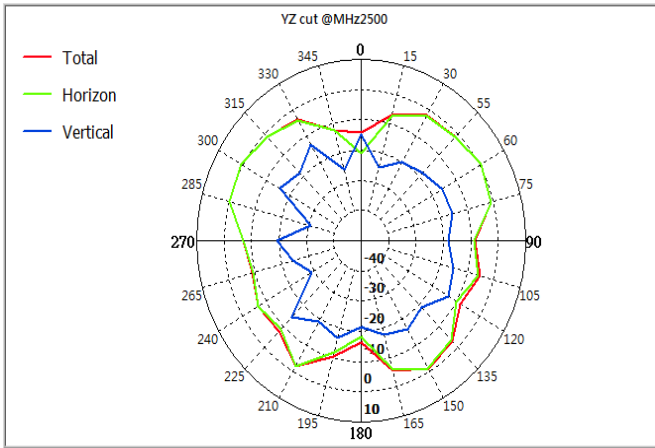
**2400Mhz:**



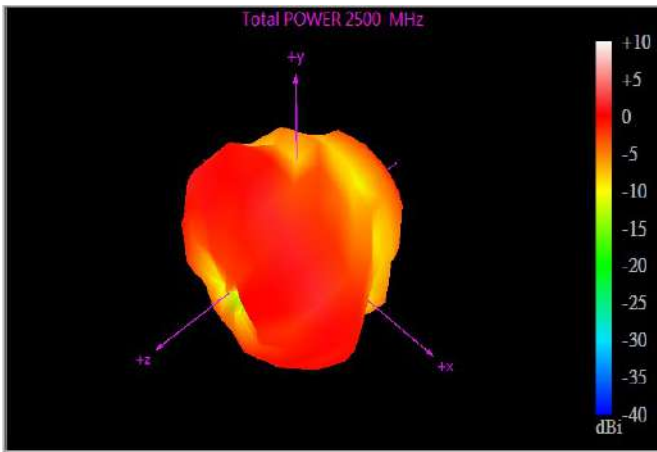


**2500Mhz:**

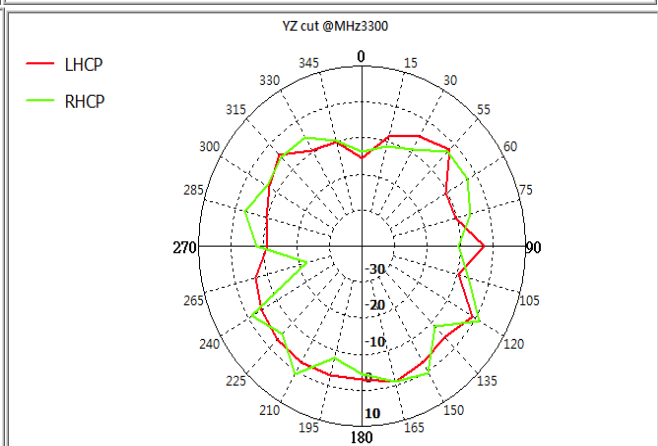
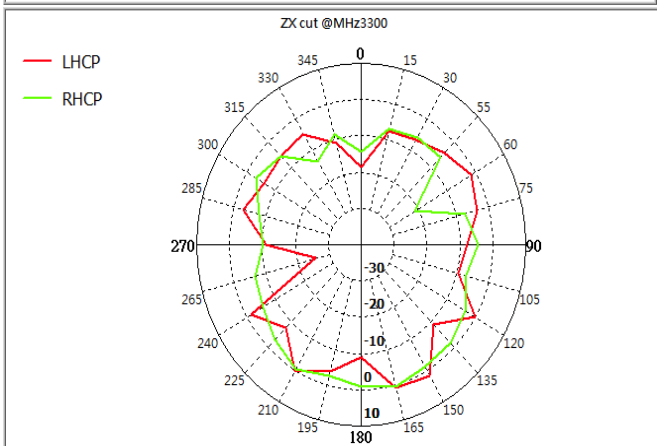
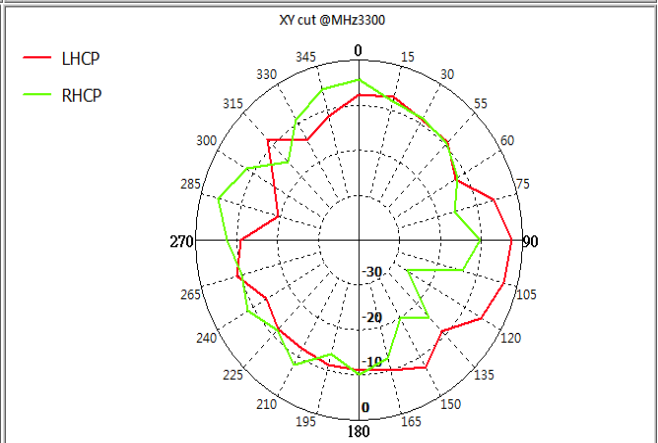
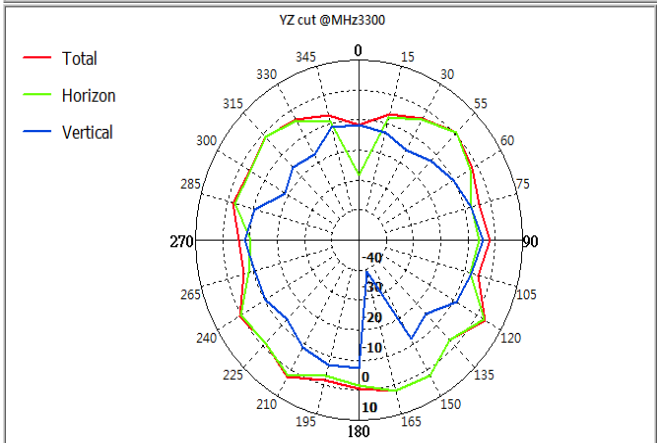
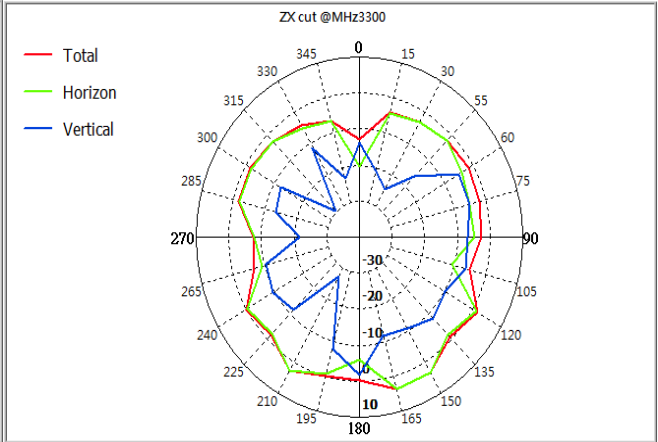
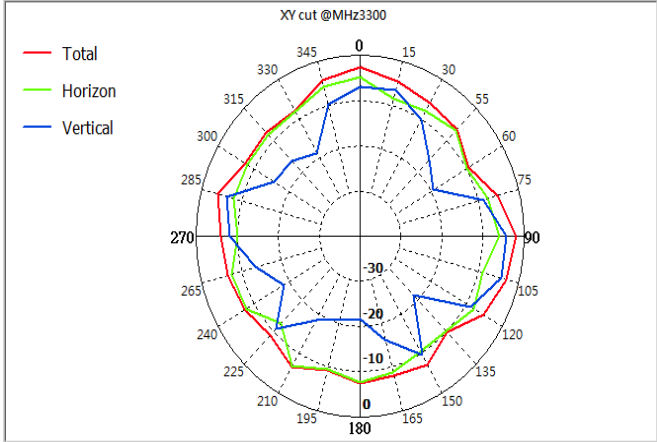




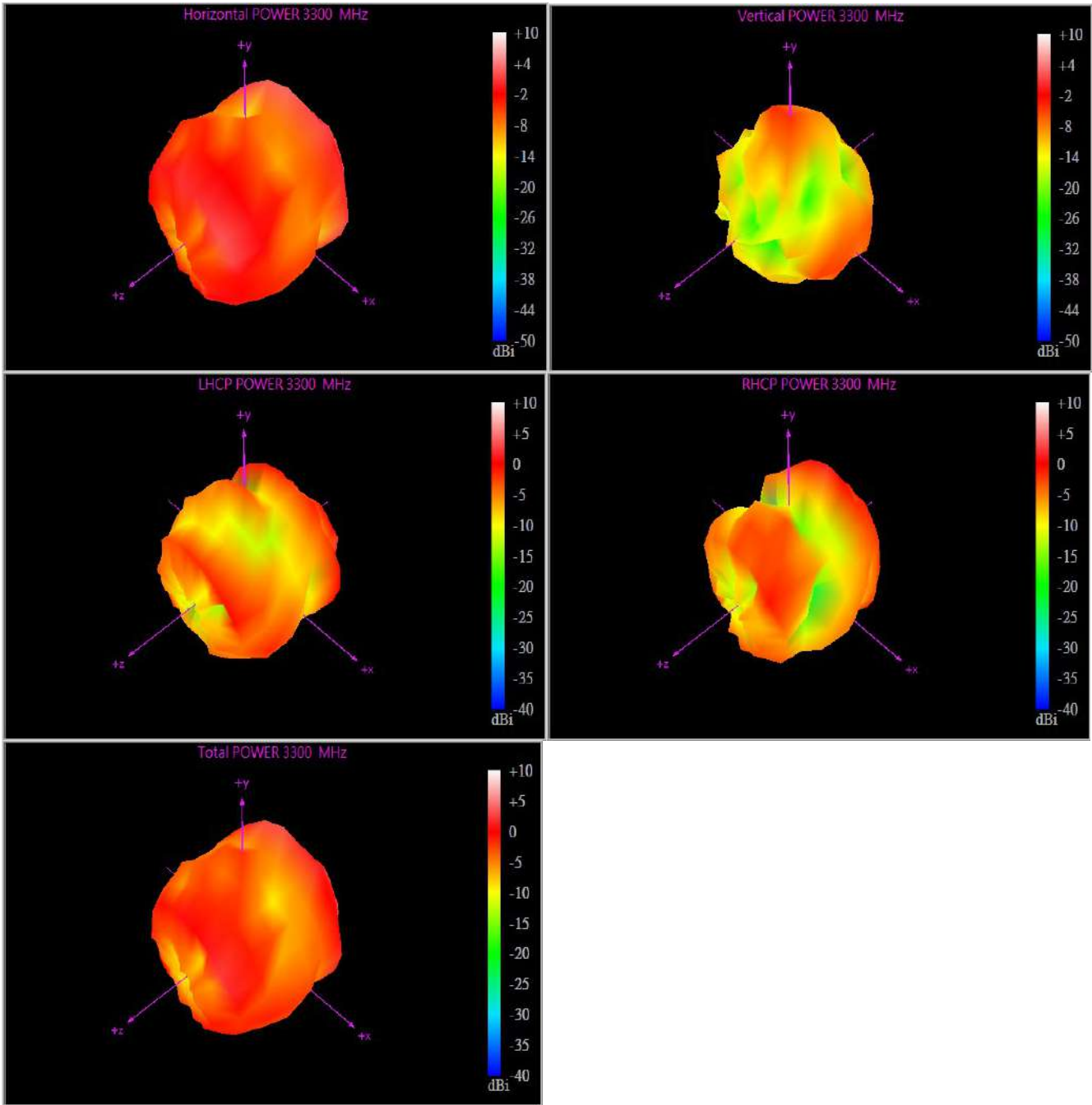




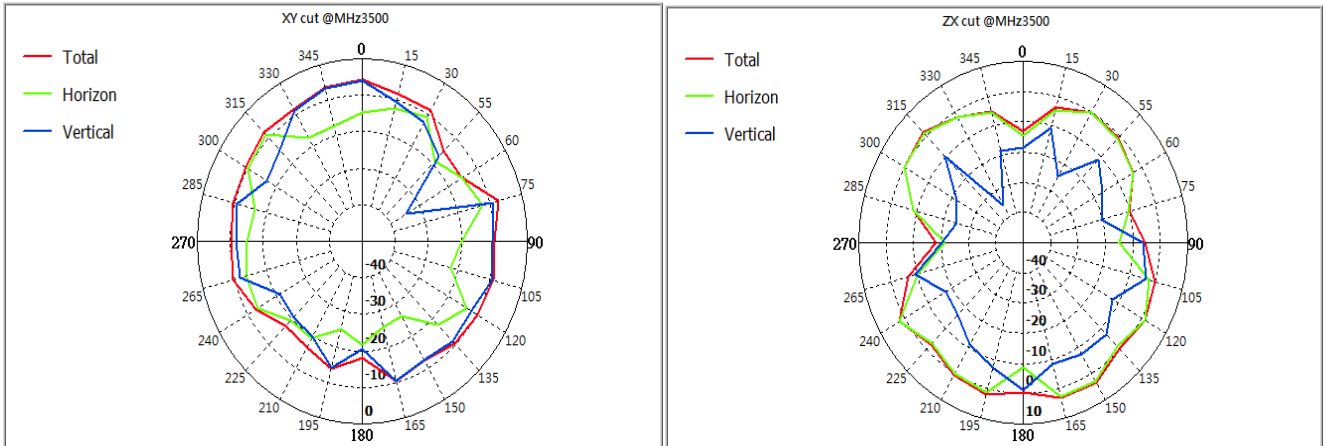
**3300MHz:**

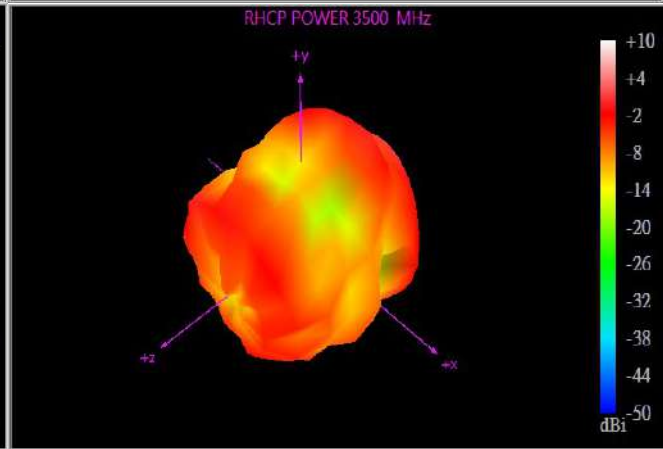
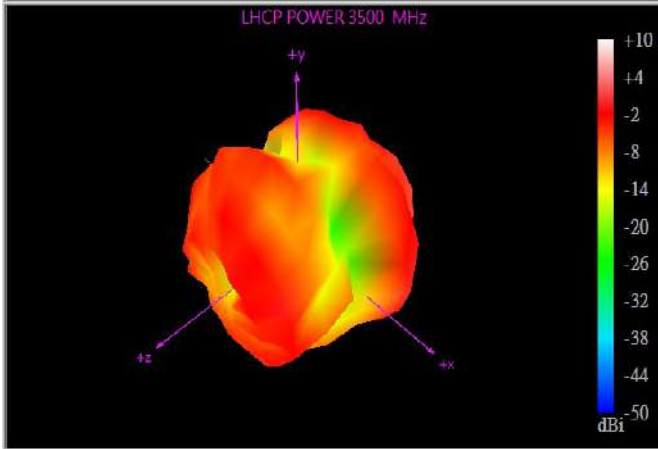
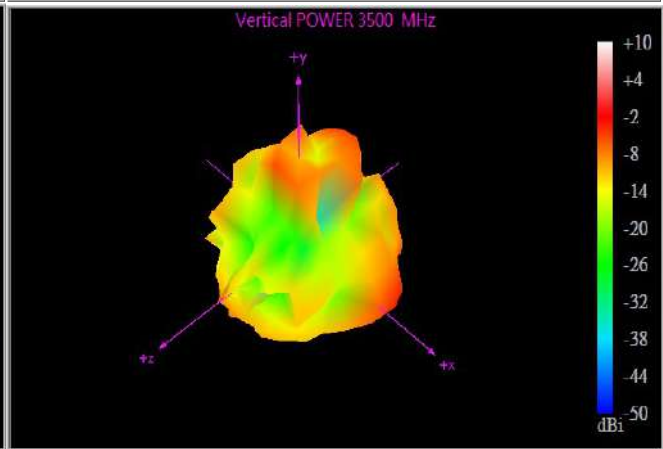
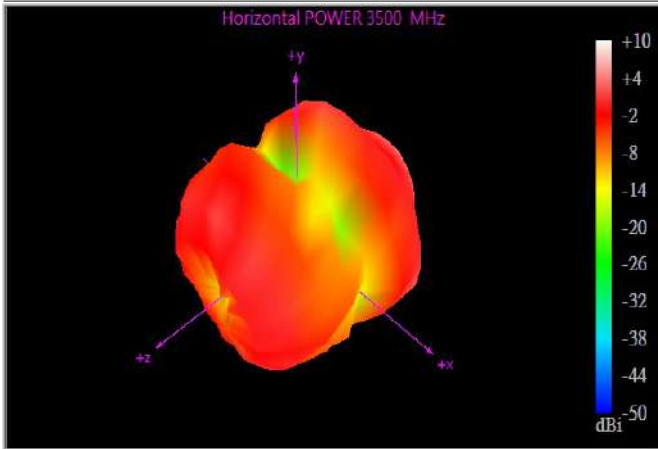
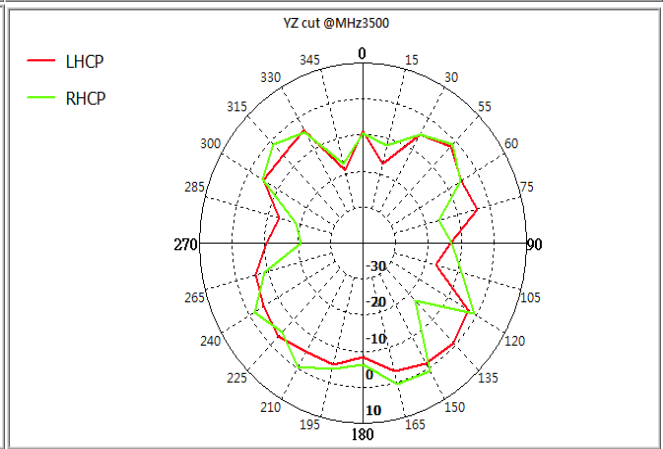
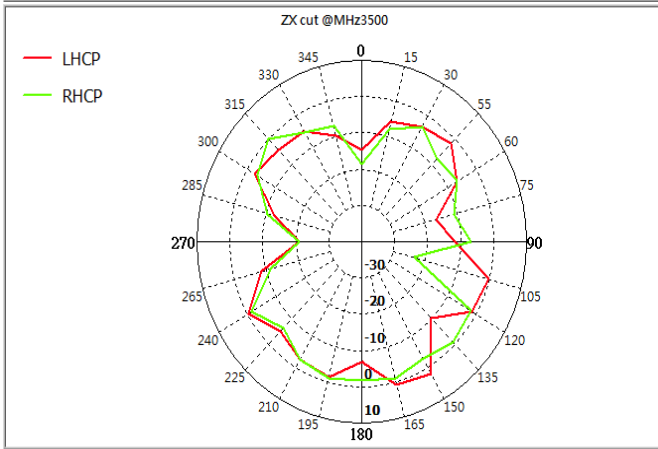
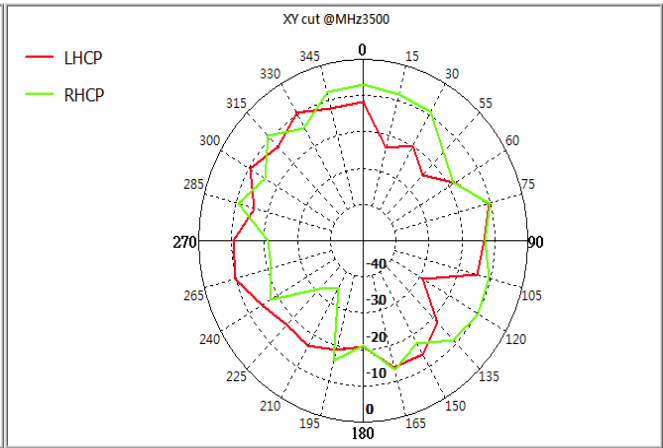
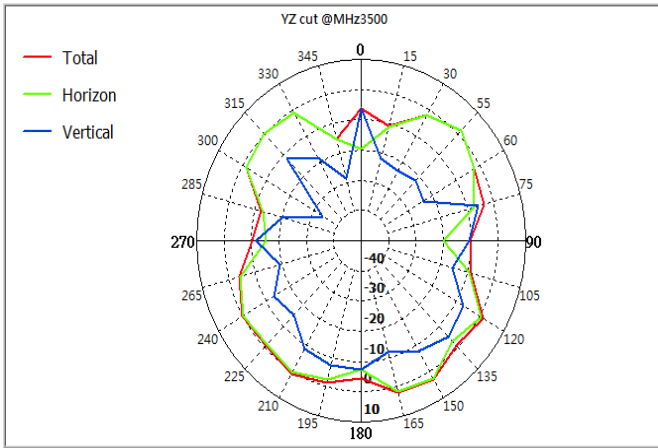


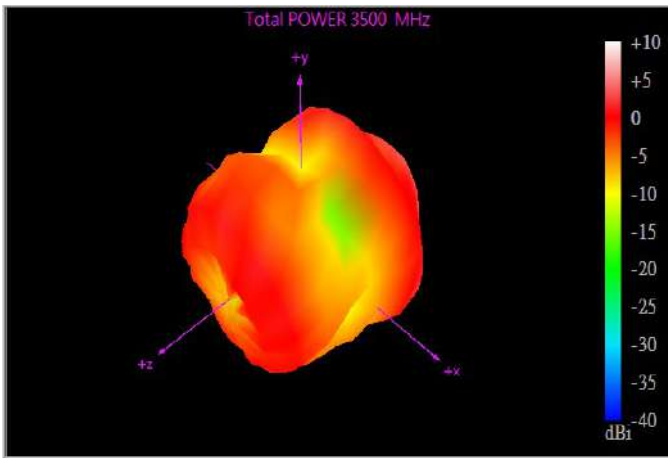




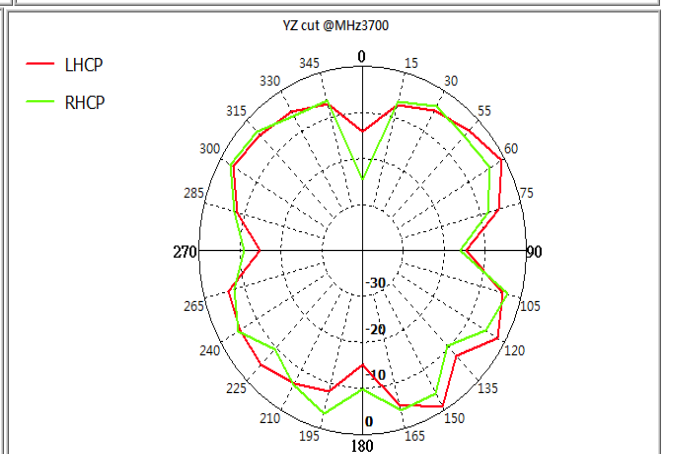
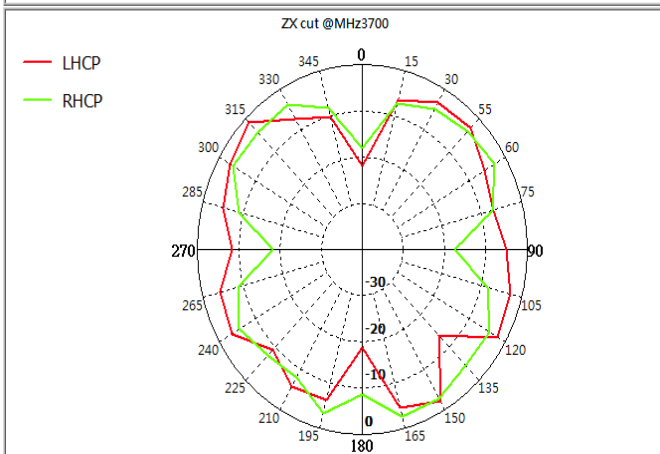
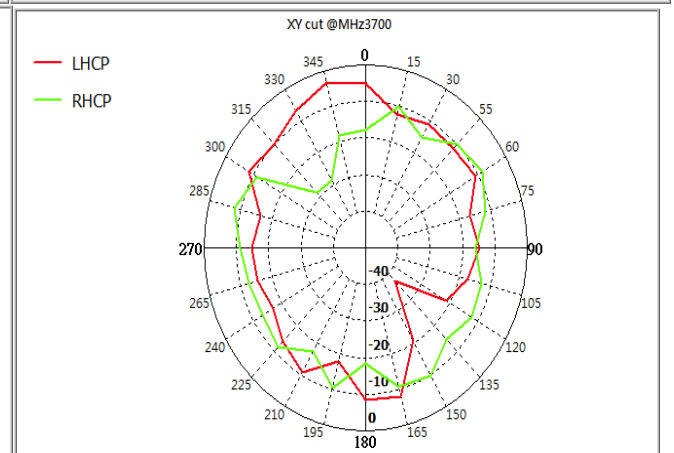
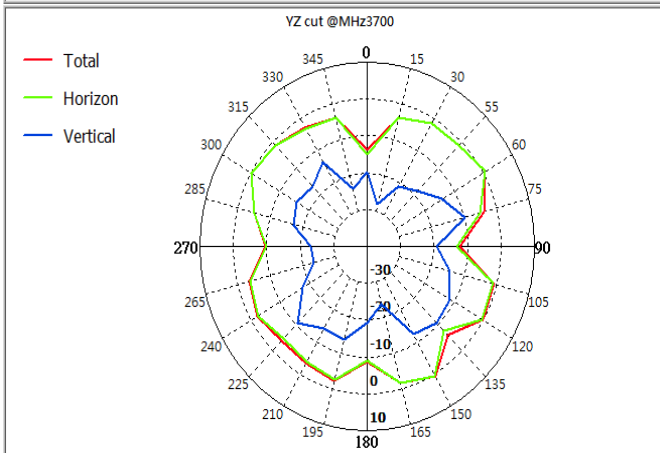
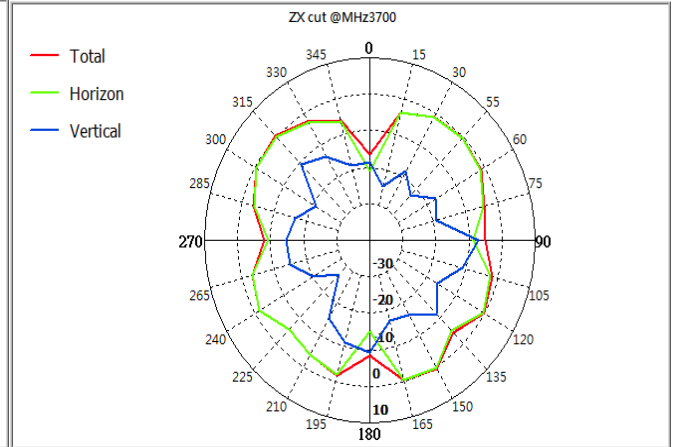
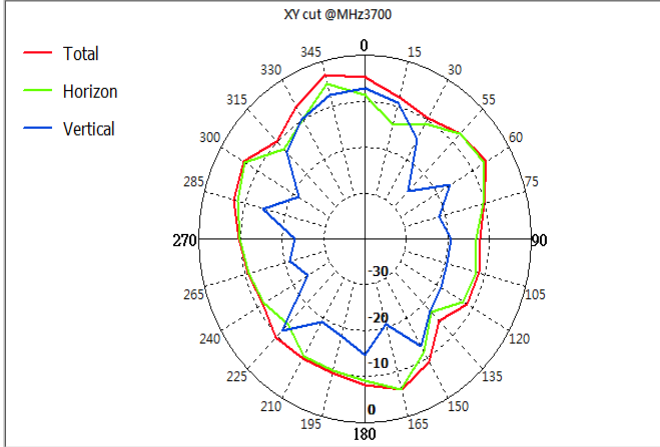
**3500Mhz:**

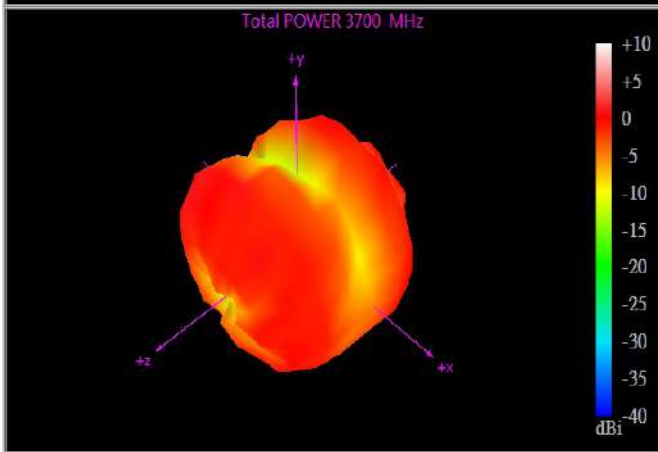
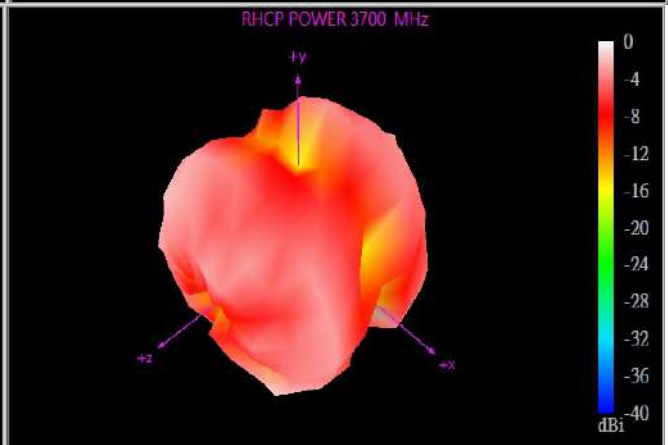
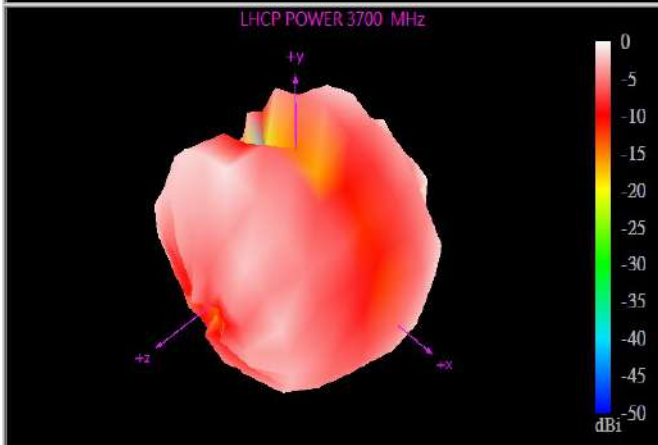
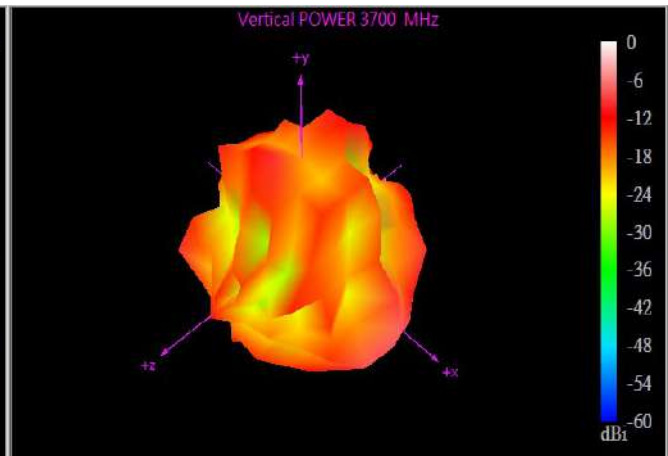
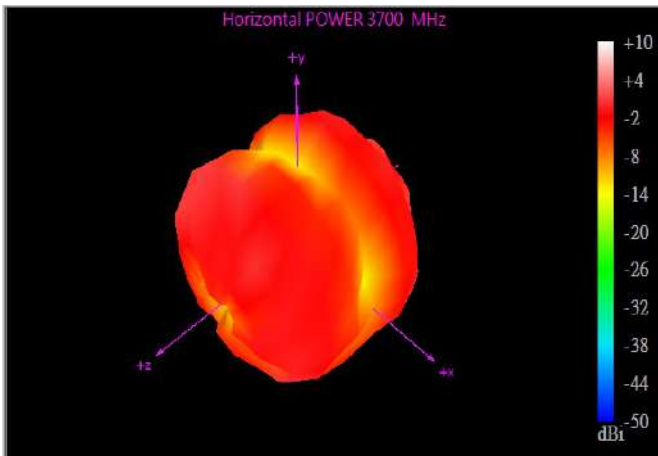




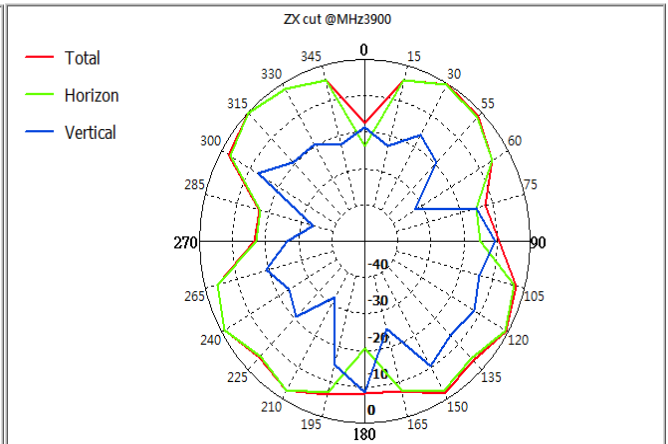
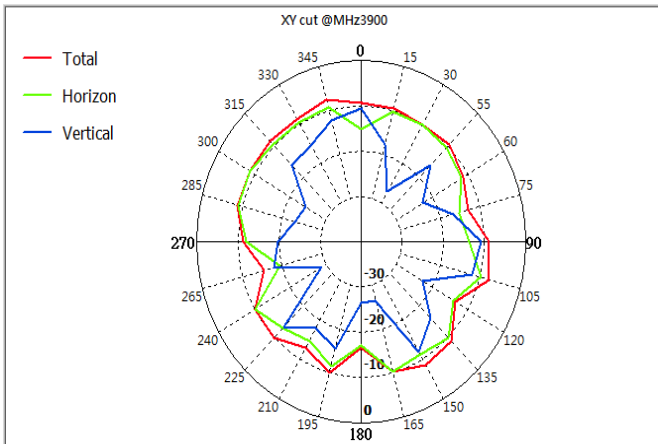


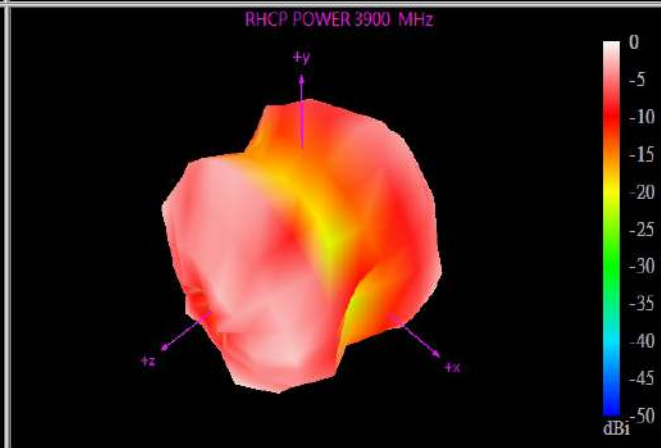
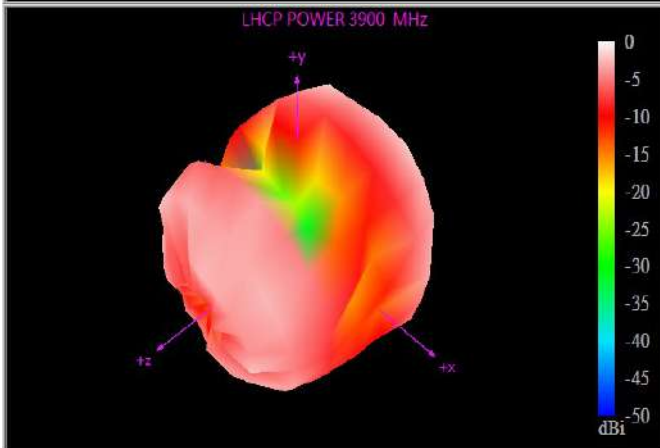
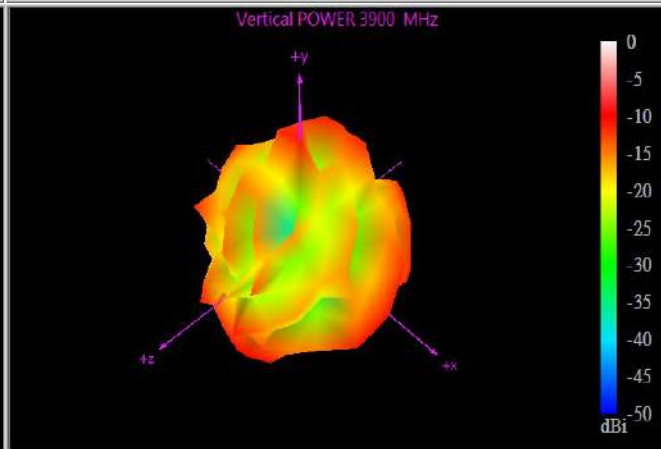
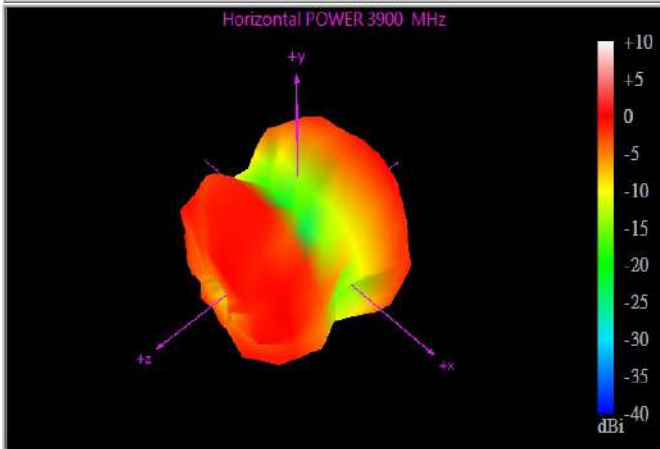
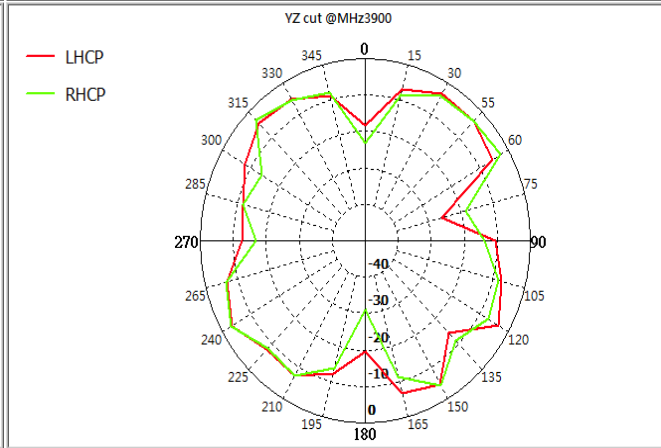
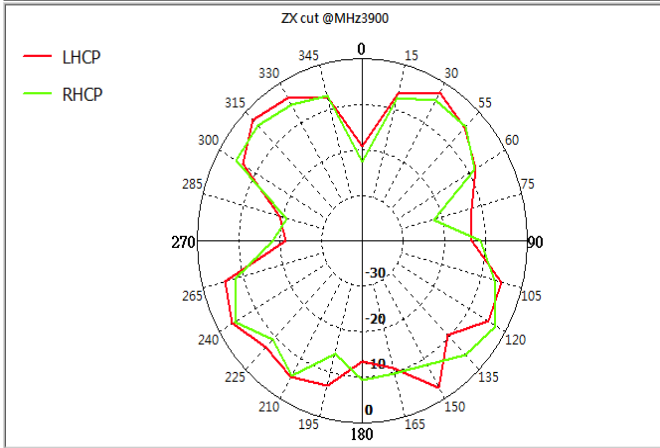
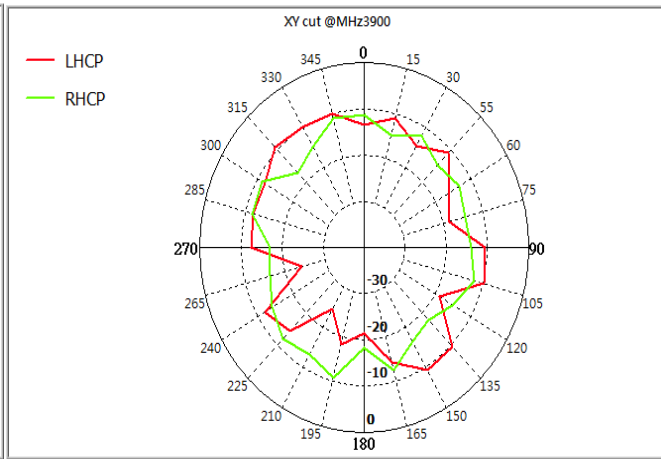
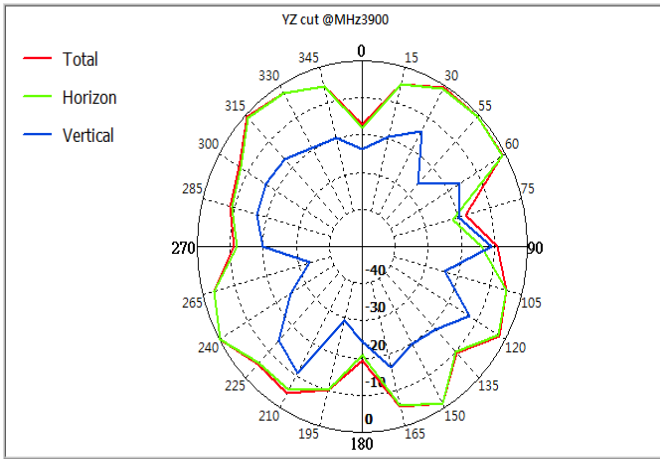
### 3700MHz:



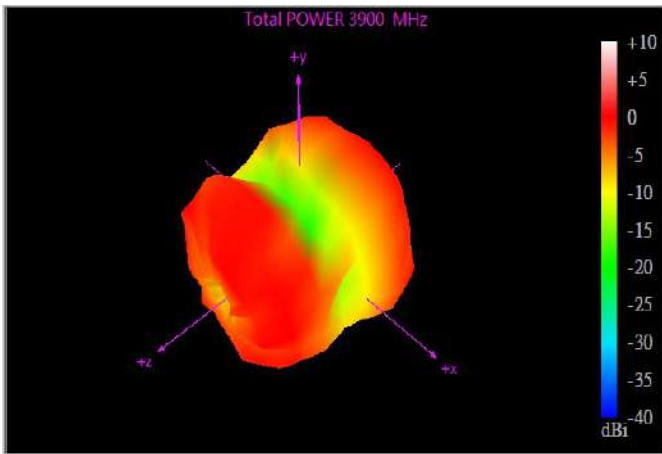


**3900Mhz:**









**4000MHz:**

