

# 2.4/5G/6/7G Wifi-6 Antenna

MODEL: TH-2458T



## 1. GENERAL DESCRIPTION

Model No
TH-2458T-SMA(M)

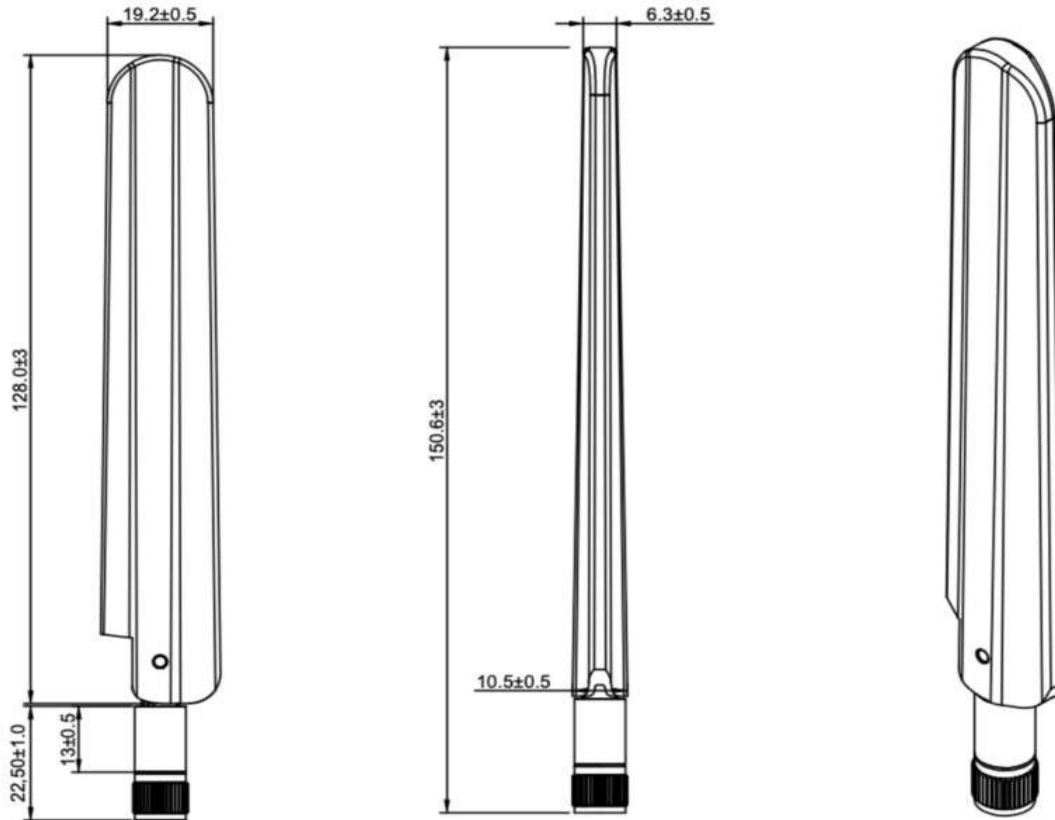
### 1.1 Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85/6~7.125GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1
Peak Gain	3~6dbi

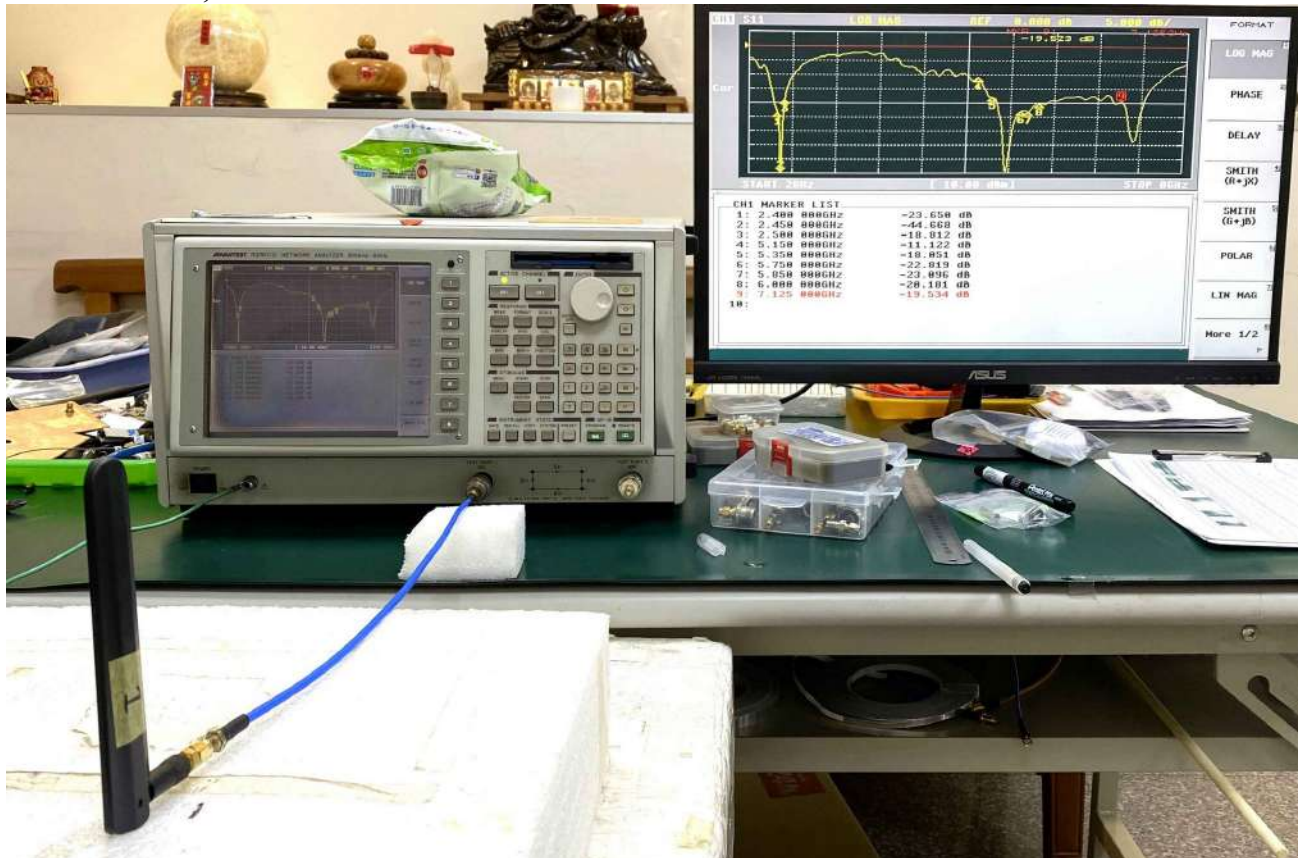
### 1.2 Mechanical Properties

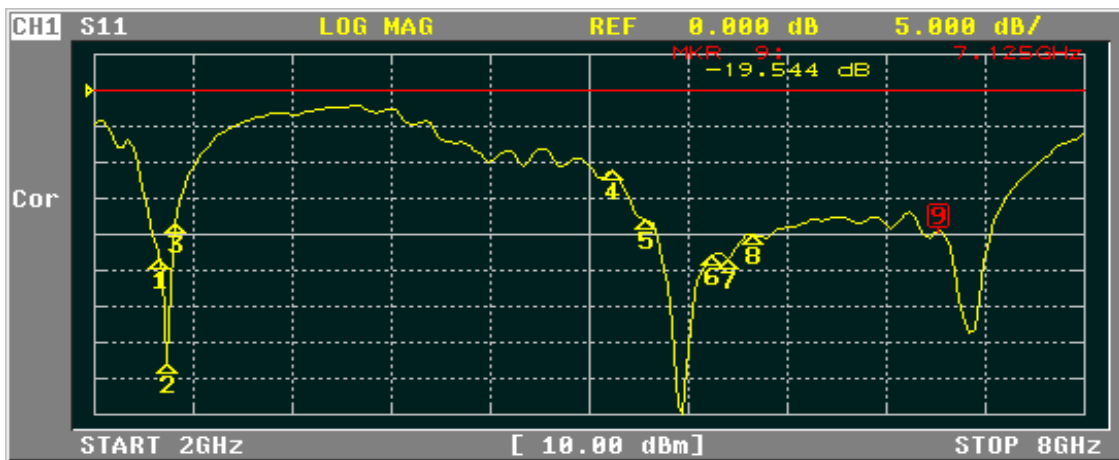
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(M) or RP-SMA(M)
Antenna Dimensions	22 x 210 mm $\pm$ 3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

## 2. Appearance



## 3. Return Loss, V.S.W.R. and Smith Chart





CH1 MARKER LIST

1:	2.400 000GHz	-23.527 dB
2:	2.450 000GHz	-37.663 dB
3:	2.500 000GHz	-18.355 dB
4:	5.150 000GHz	-11.136 dB
5:	5.350 000GHz	-18.067 dB
6:	5.750 000GHz	-22.826 dB
7:	5.850 000GHz	-23.190 dB
8:	6.000 000GHz	-20.183 dB
9:	7.125 000GHz	-19.555 dB
10:		

FORMAT

LOG MAG <sup>1</sup>

PHASE <sup>2</sup>

DELAY <sup>3</sup>

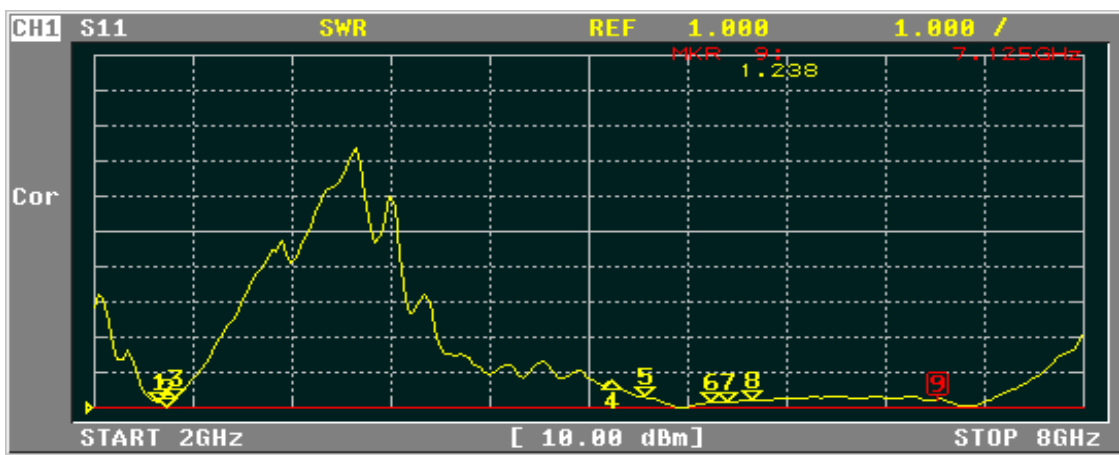
SMITH (R+jX) <sup>4</sup>

SMITH (G+jB) <sup>5</sup>

POLAR <sup>6</sup>

LIN MAG <sup>7</sup>

More 1/2 <sup>8</sup>



CH1 MARKER LIST

1:	2.400 000GHz	1.146
2:	2.450 000GHz	1.024
3:	2.500 000GHz	1.286
4:	5.150 000GHz	1.771
5:	5.350 000GHz	1.286
6:	5.750 000GHz	1.153
7:	5.850 000GHz	1.151
8:	6.000 000GHz	1.215
9:	7.125 000GHz	1.238
10:		

FORMAT

SWR <sup>1</sup>

REAL <sup>2</sup>

IMAG <sup>3</sup>

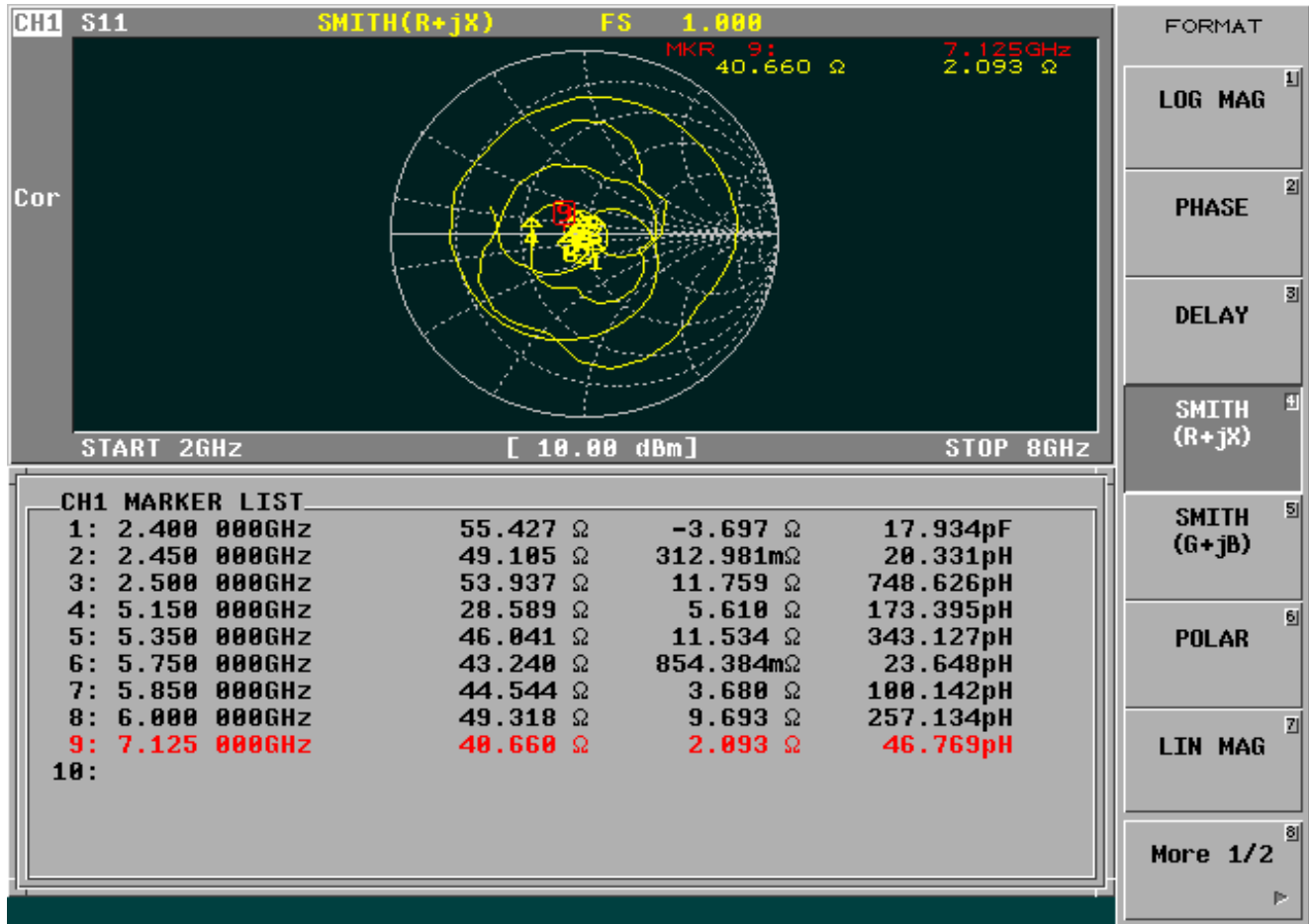
PHASE <sup>4</sup>  
-∞, +∞

LOG MAG & <sup>5</sup>  
PHASE

LOG MAG & <sup>6</sup>  
DELAY

LIN MAG & <sup>7</sup>  
PHASE

More 2/2 <sup>8</sup>

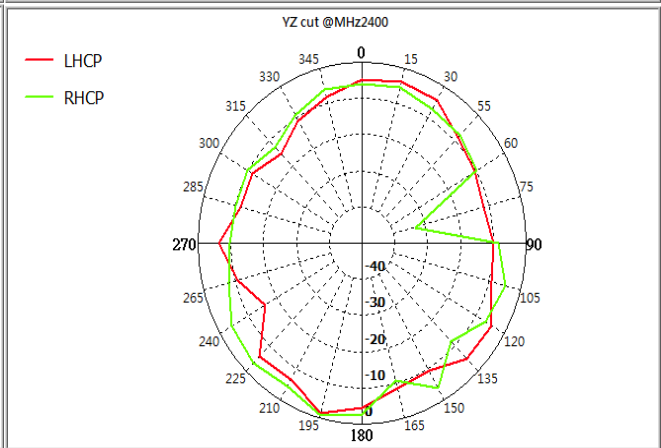
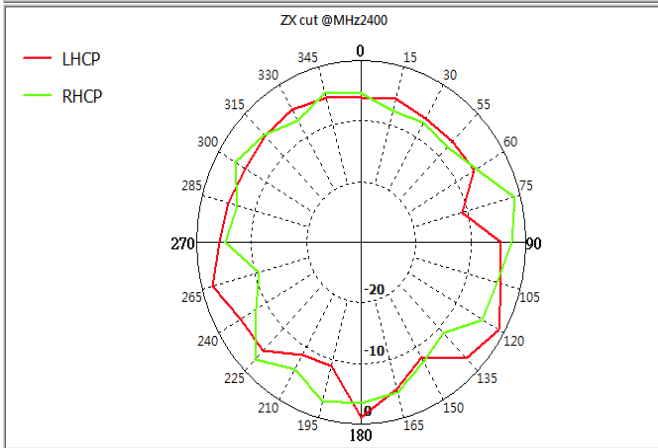
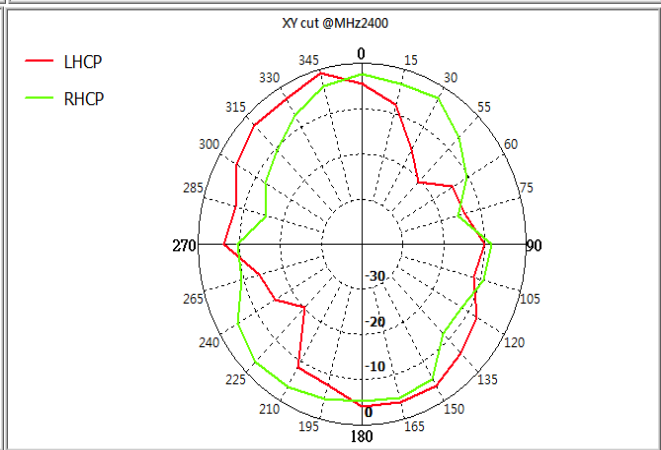
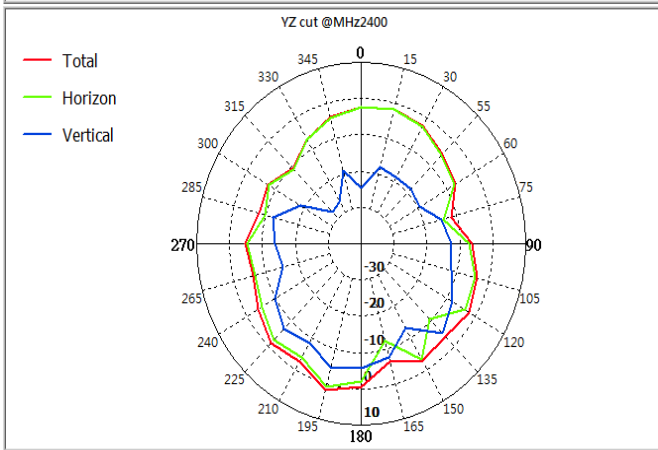
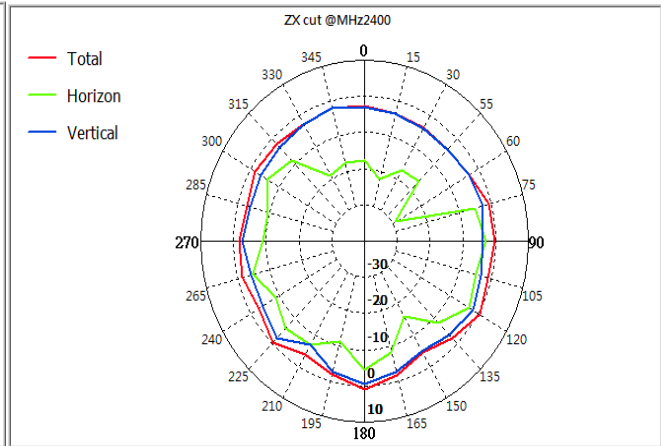
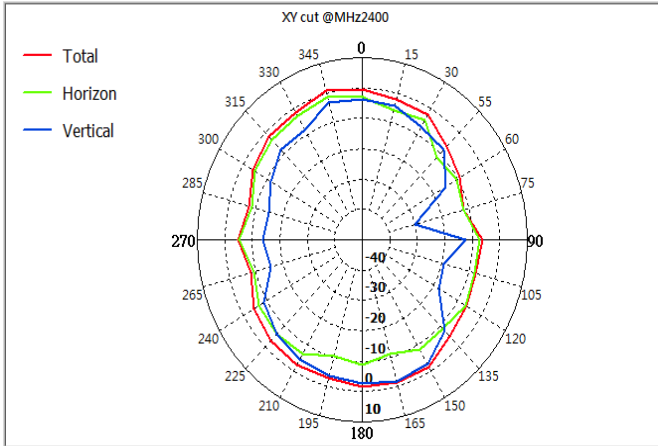


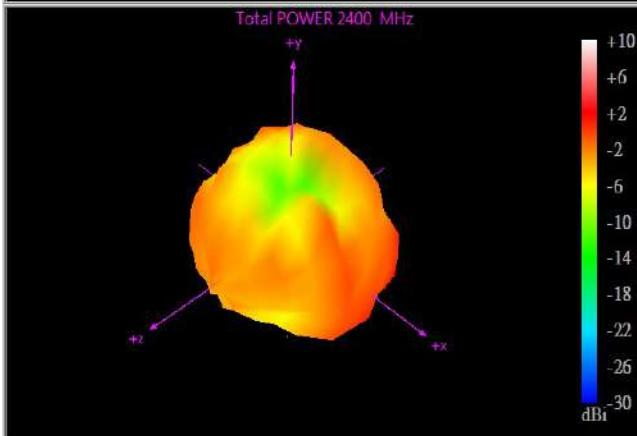
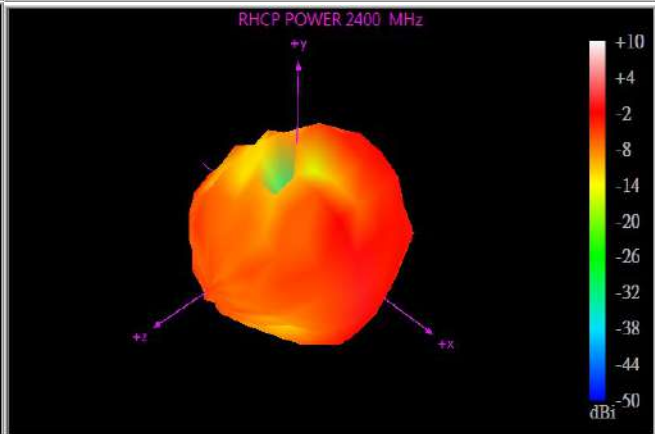
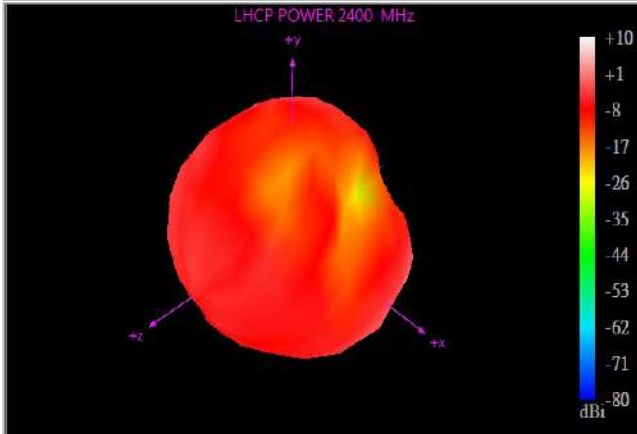
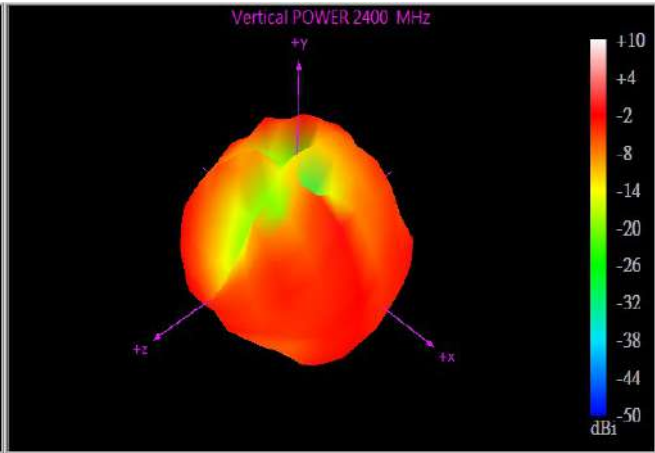
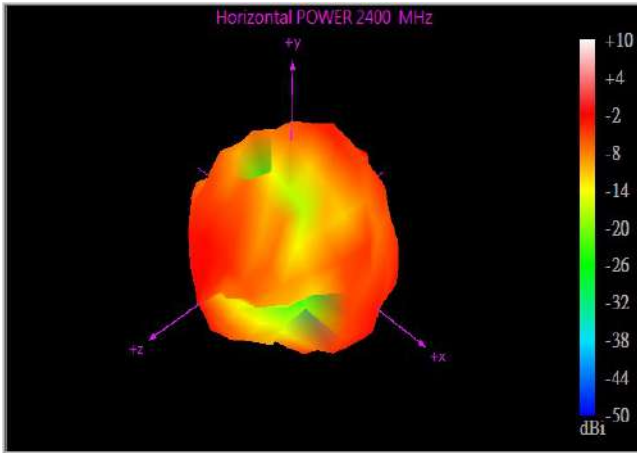
### 3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
2400 MHz	-7.22	-5.26	-3.12	48.76	2.85	-3.12
2450 MHz	-6.09	-4.75	-2.36	58.06	3.02	-2.36
2483.5 MHz	-6.20	-5.10	-2.61	54.83	2.43	-2.61
2500 MHz	-6.58	-5.44	-2.96	50.58	2.31	-2.96
5150 MHz	-8.00	-4.76	-3.08	49.25	2.92	-3.08
5250 MHz	-8.63	-5.79	-3.97	40.06	1.88	-3.97
5350 MHz	-8.25	-5.39	-3.58	43.86	2.13	-3.58
5470 MHz	-8.15	-5.13	-3.37	45.99	2.52	-3.37
5597.5 MHz	-8.21	-4.76	-3.14	48.50	3.32	-3.14
5725 MHz	-8.91	-4.79	-3.37	46.02	2.88	-3.37
5785 MHz	-9.14	-5.20	-3.73	42.39	3.17	-3.73
5850 MHz	-9.05	-4.89	-3.48	44.88	3.85	-3.48
5895 MHz	-7.95	-4.39	-2.80	52.46	3.41	-2.80
5925 MHz	-8.29	-4.28	-2.83	52.17	4.96	-2.83
6000 MHz	-8.55	-5.09	-3.47	44.96	3.30	-3.47
6125 MHz	-7.62	-4.38	-2.69	53.77	4.09	-2.69

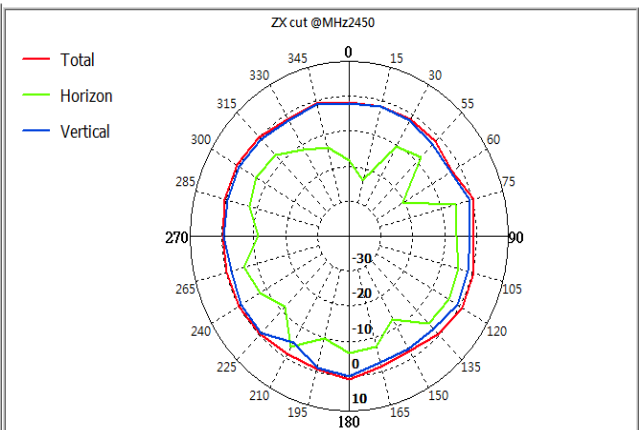
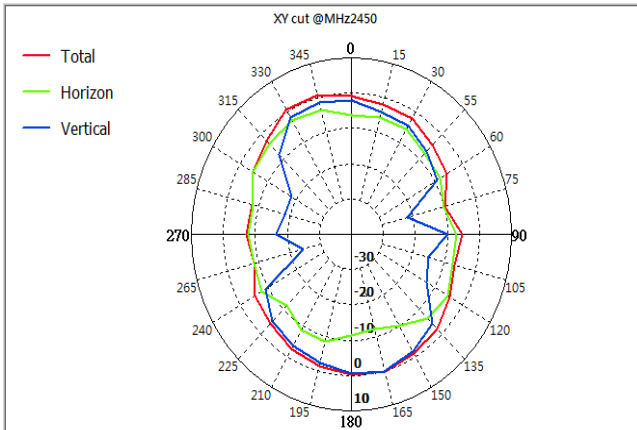
6225 MHz	-7.65	-4.23	-2.60	54.95	4.71	-2.60
6325 MHz	-7.39	-4.34	-2.59	55.08	4.50	-2.59
6425 MHz	-7.00	-3.81	-2.11	61.53	5.10	-2.11
6525 MHz	-7.97	-6.04	-3.89	40.85	3.96	-3.89
6625 MHz	-6.84	-5.18	-2.92	51.08	4.13	-2.92
6725 MHz	-6.98	-5.53	-3.18	48.06	5.01	-3.18
6875 MHz	-6.21	-6.40	-3.29	46.84	5.15	-3.29
7000 MHz	-6.13	-5.35	-2.71	53.54	4.22	-2.71
7125 MHz	-5.14	-4.01	-1.53	70.32	6.57	-1.53

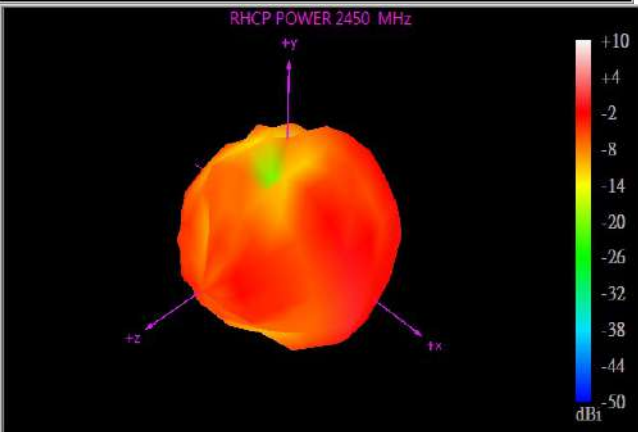
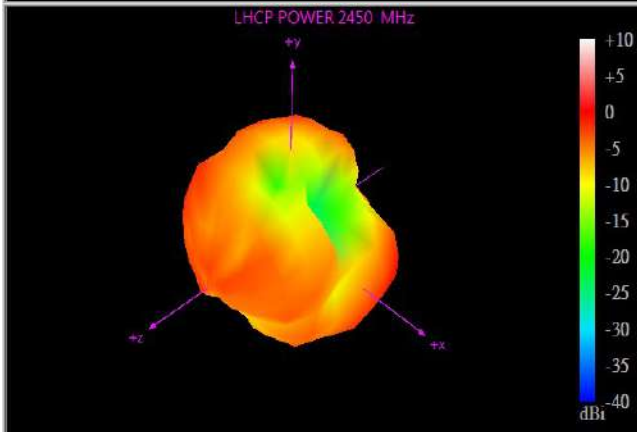
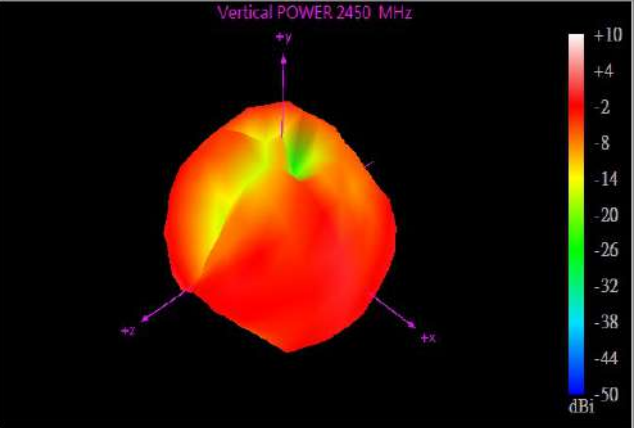
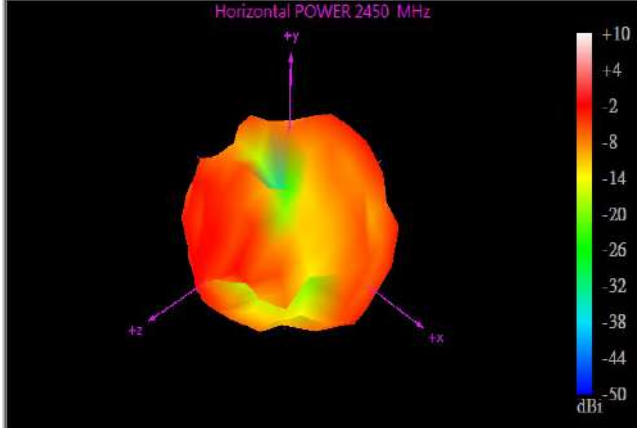
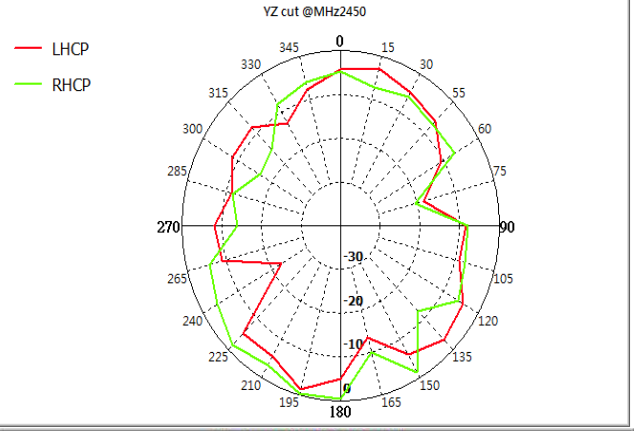
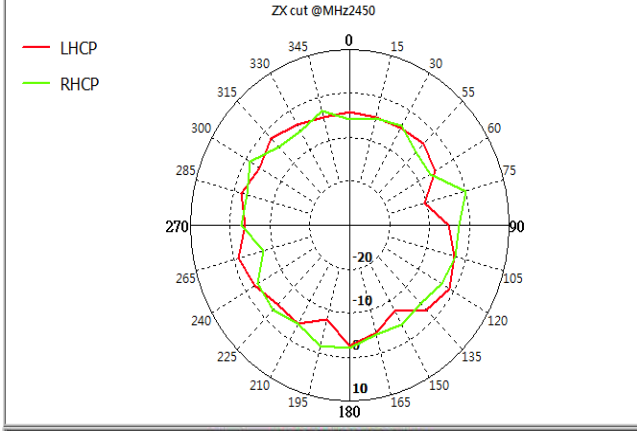
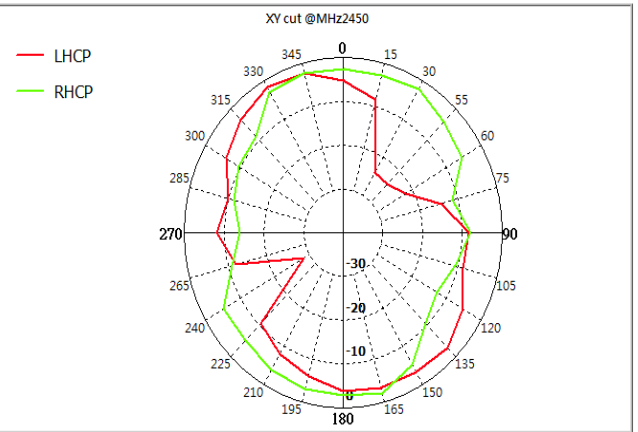
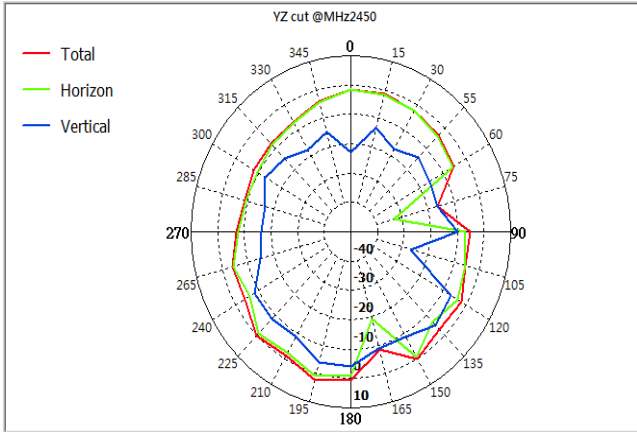
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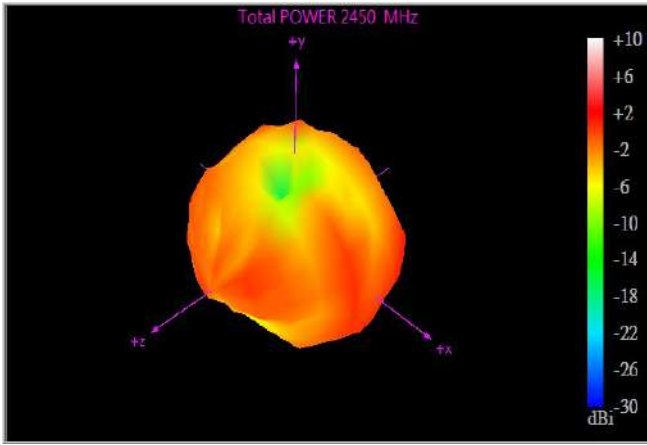




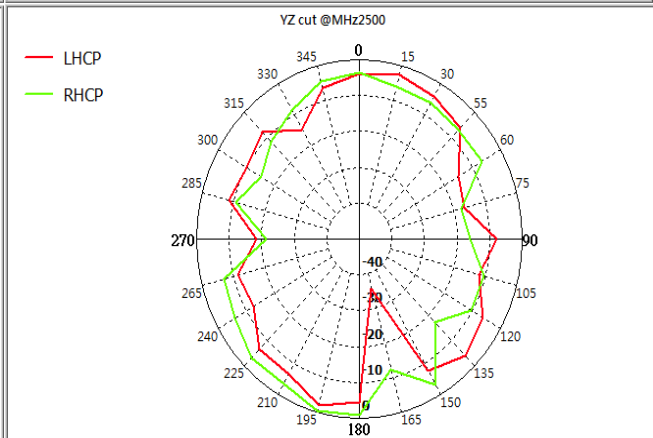
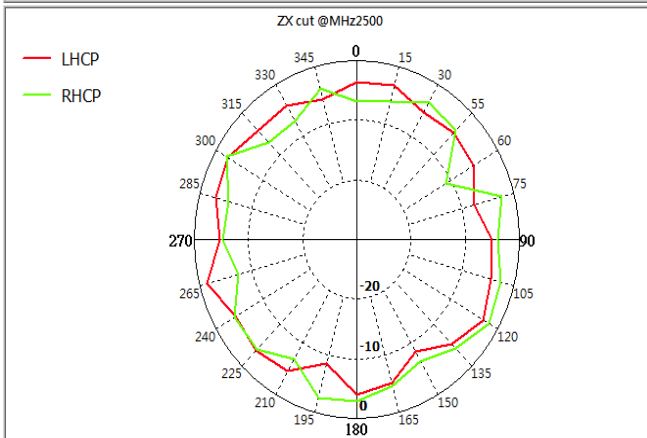
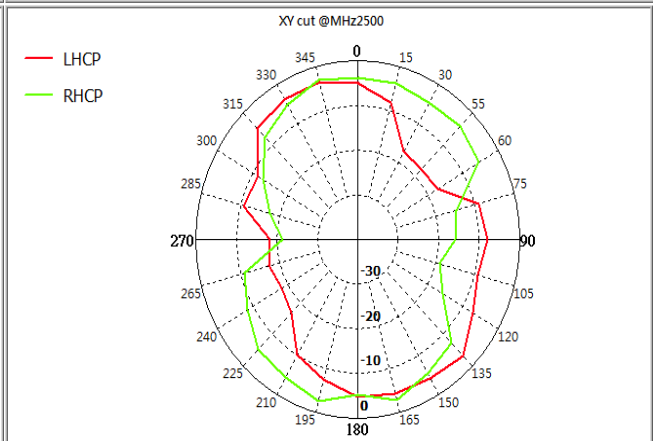
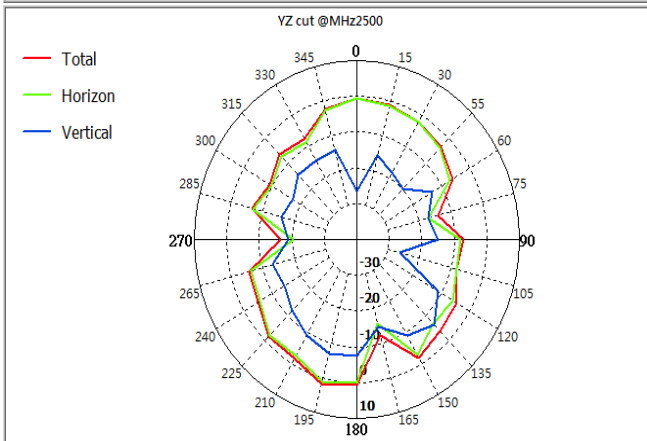
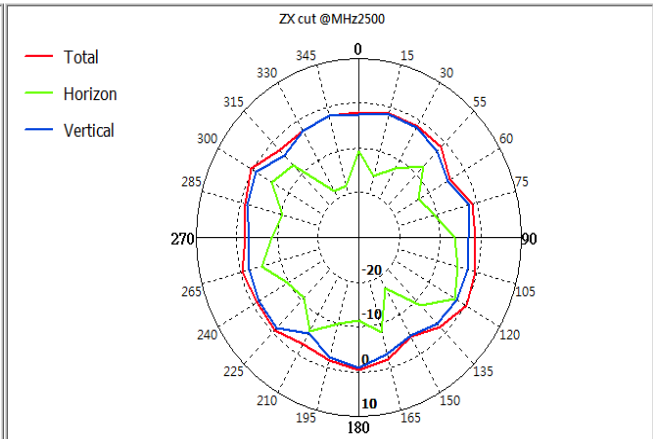
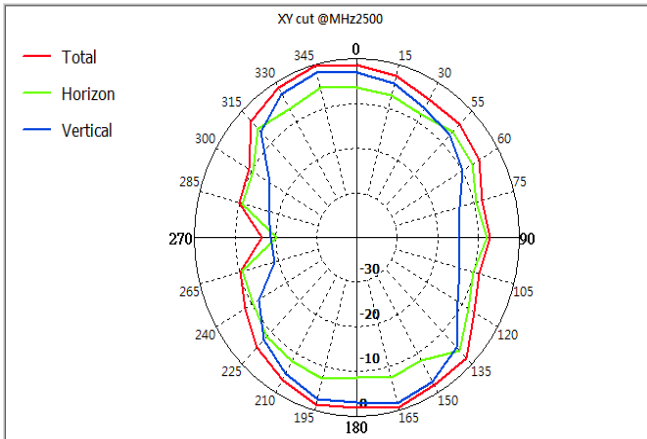
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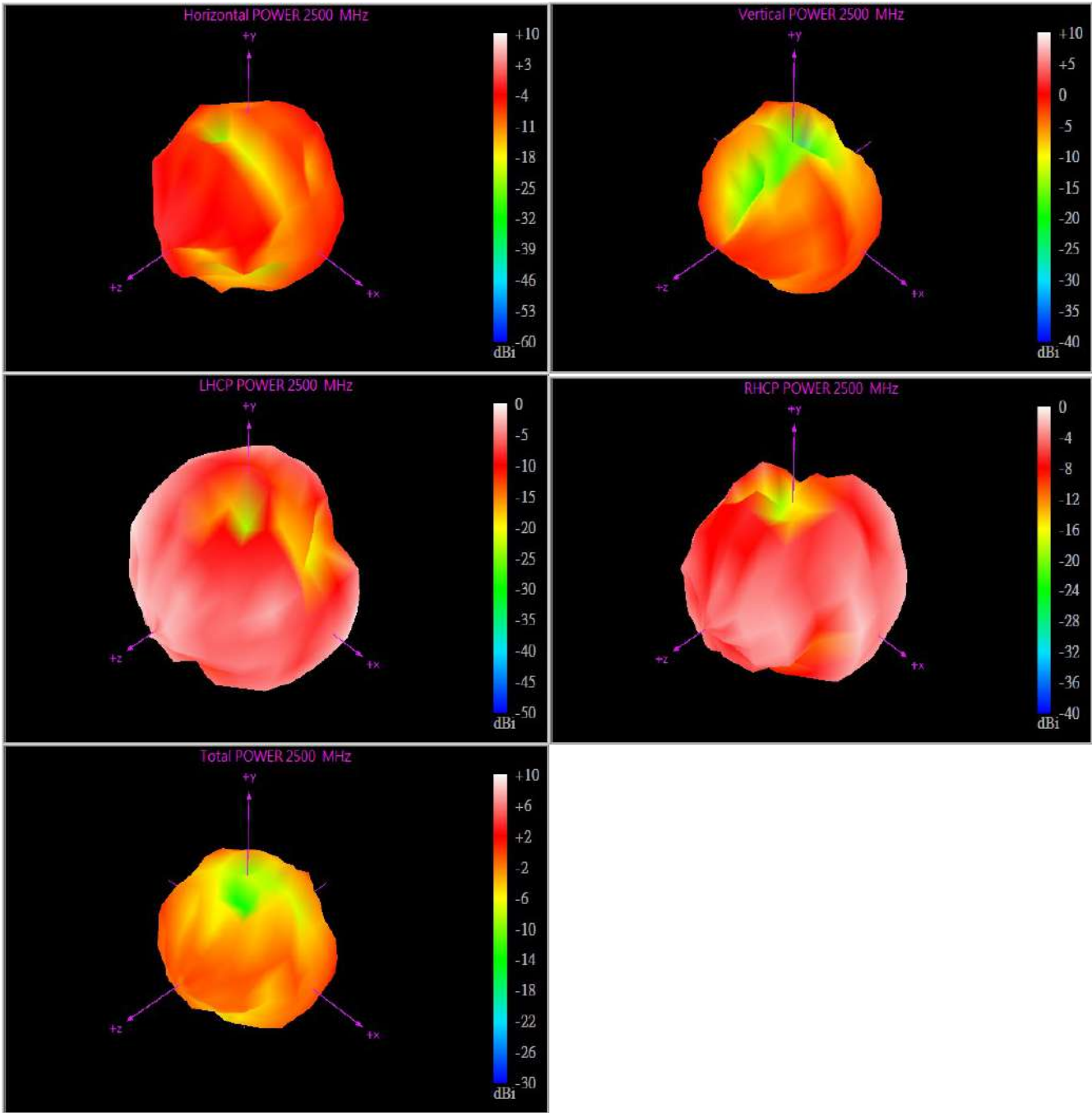




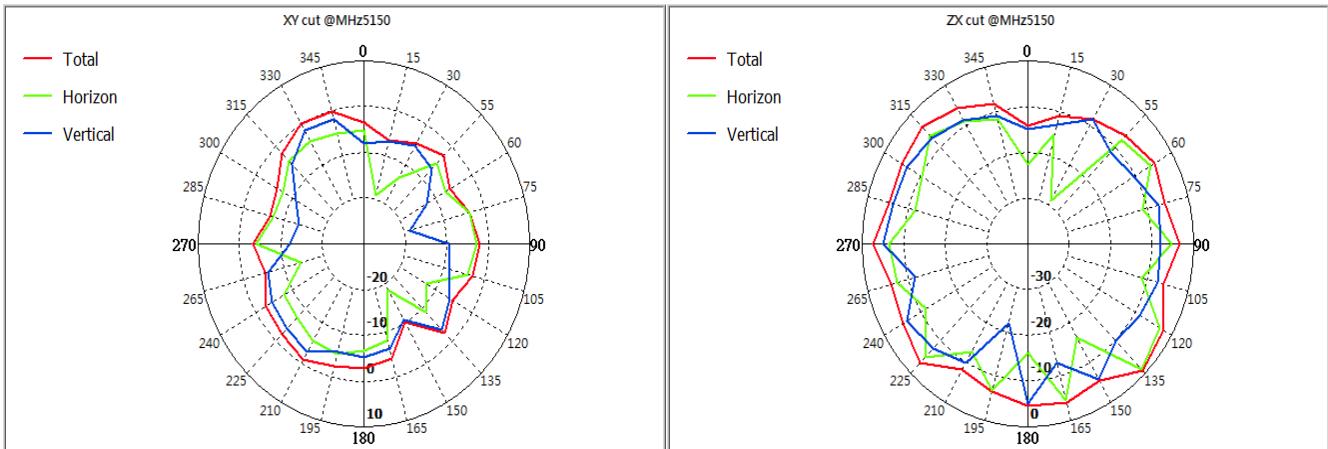
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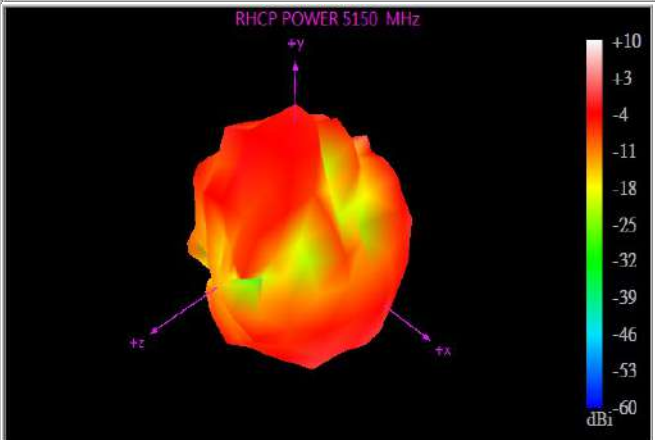
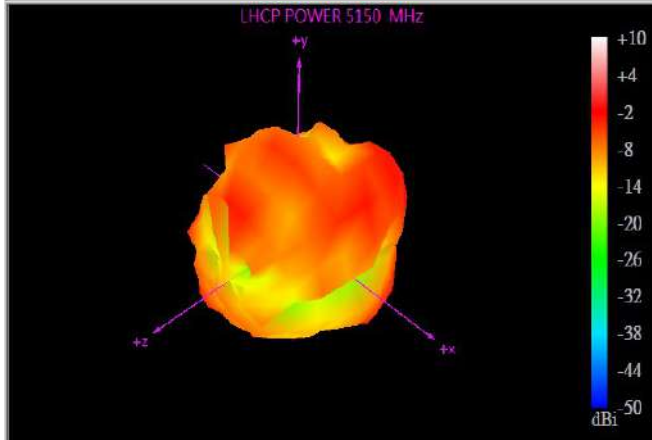
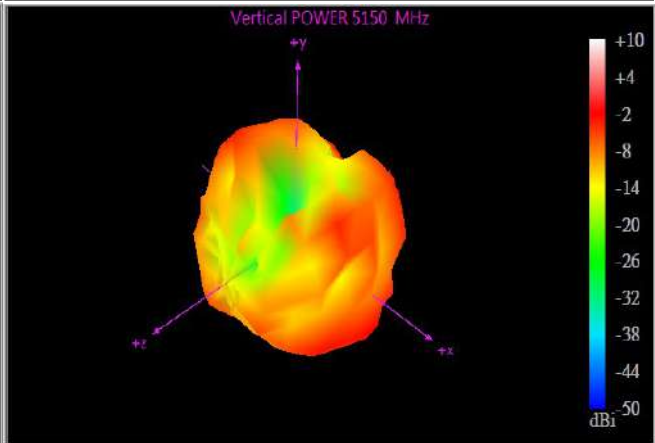
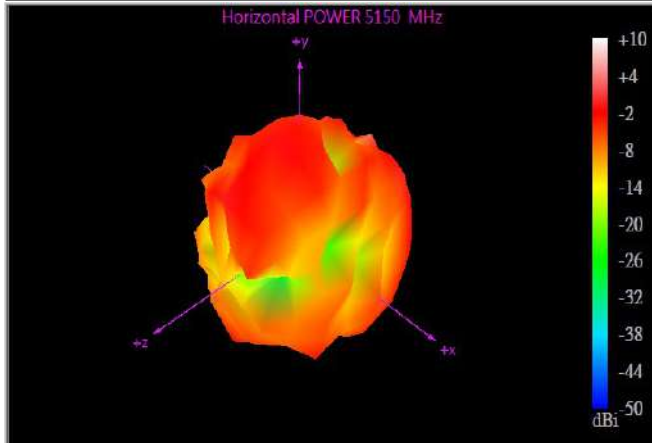
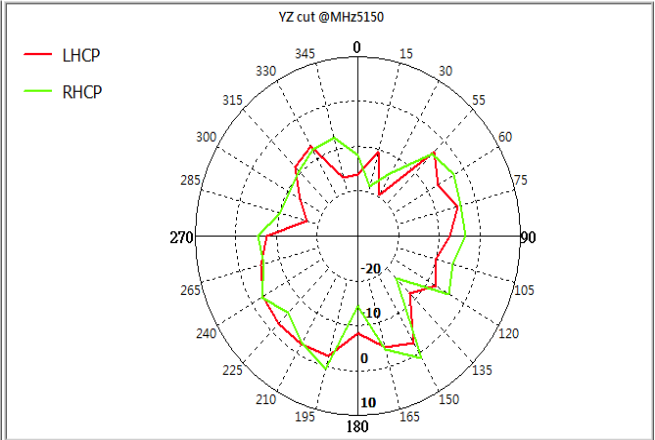
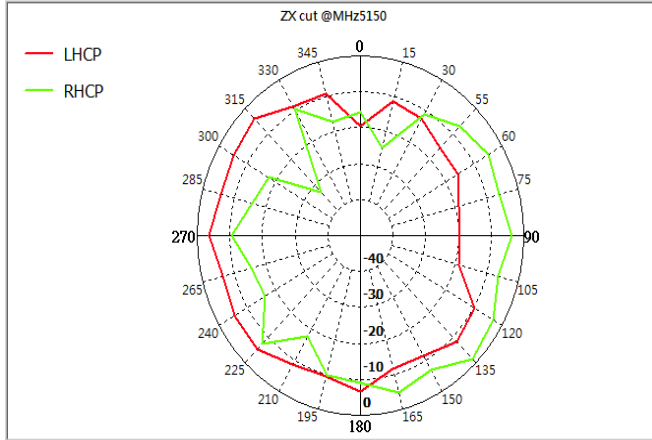
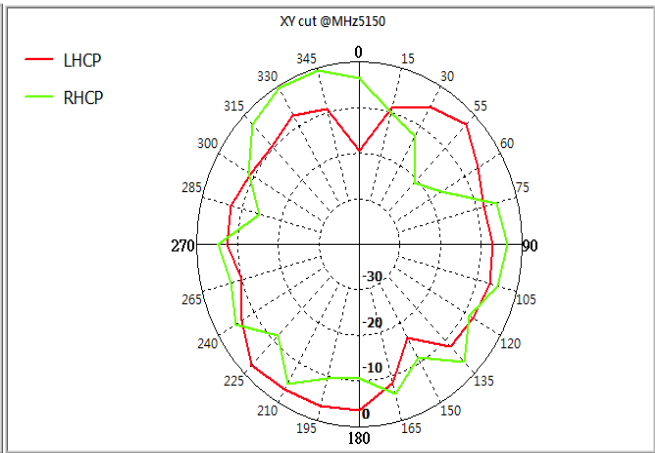
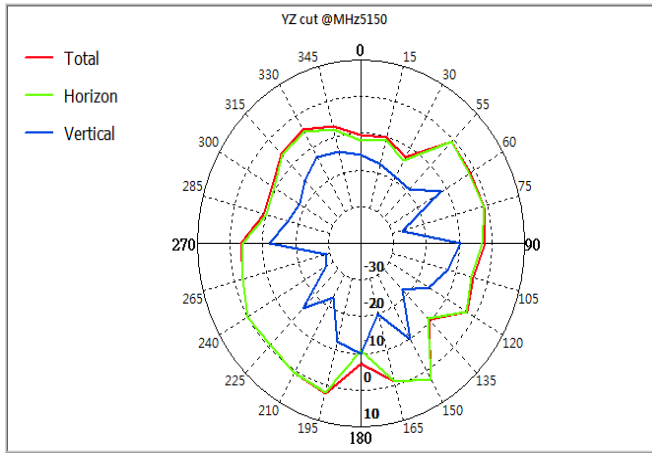


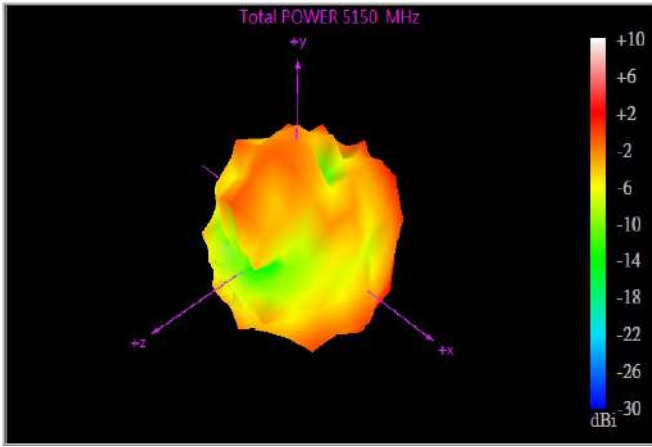




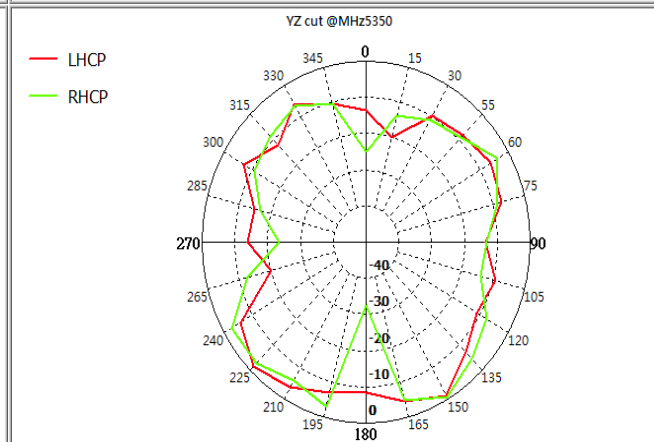
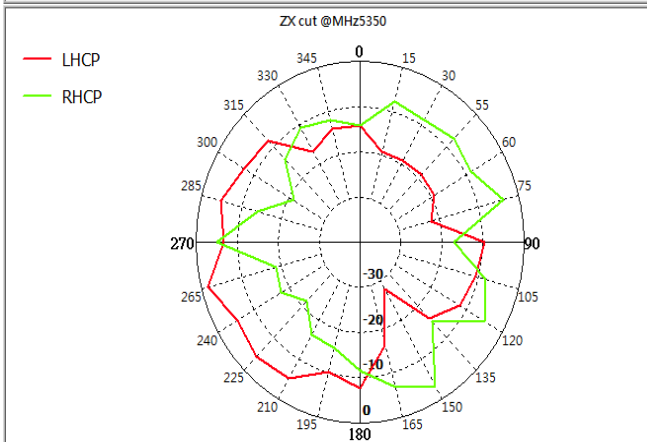
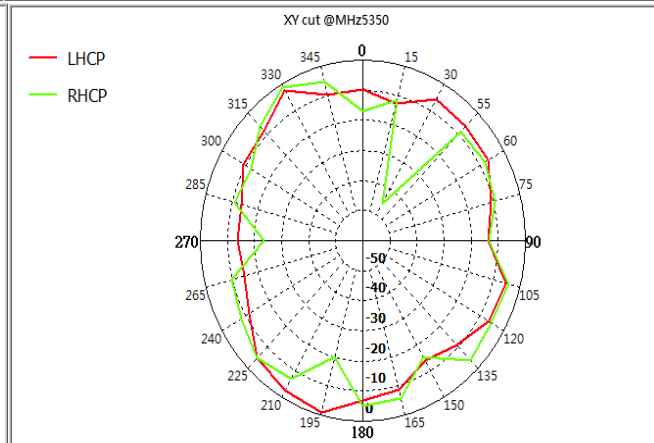
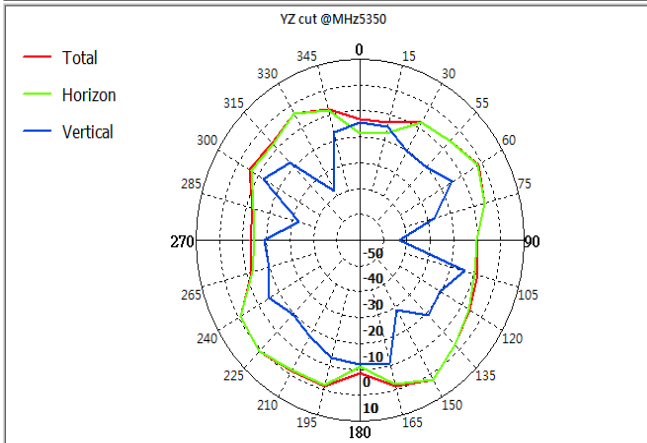
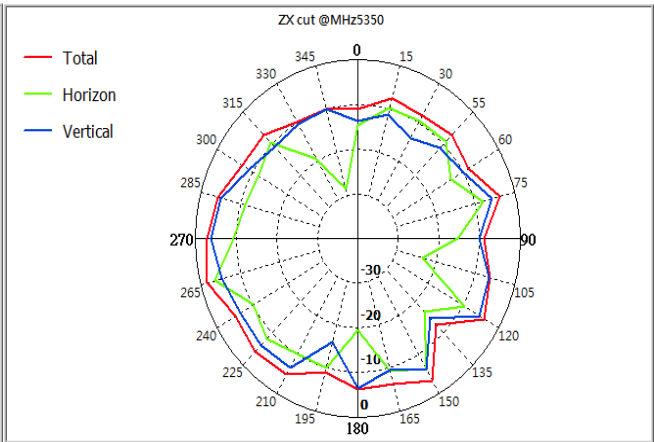
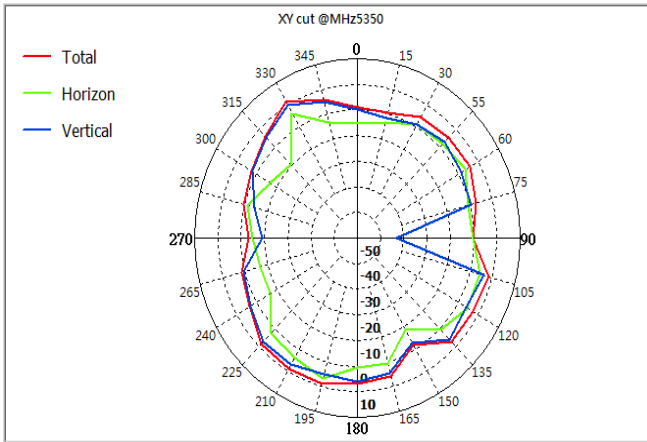
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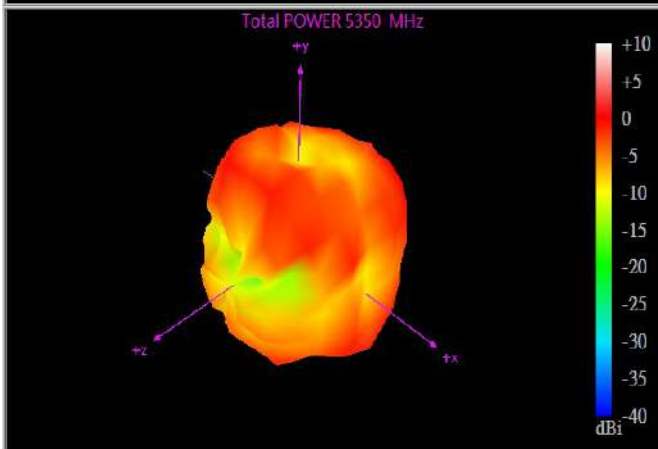
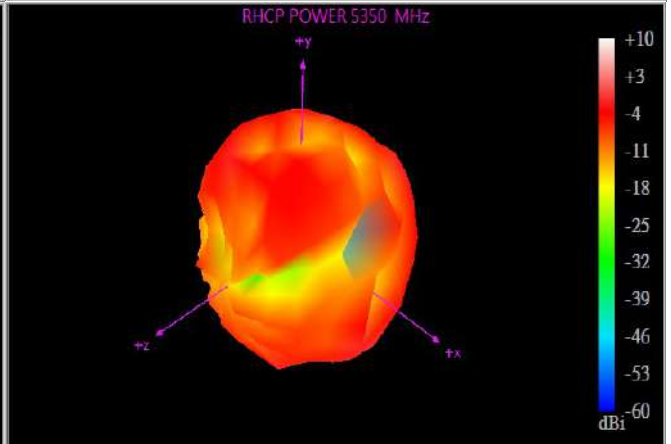
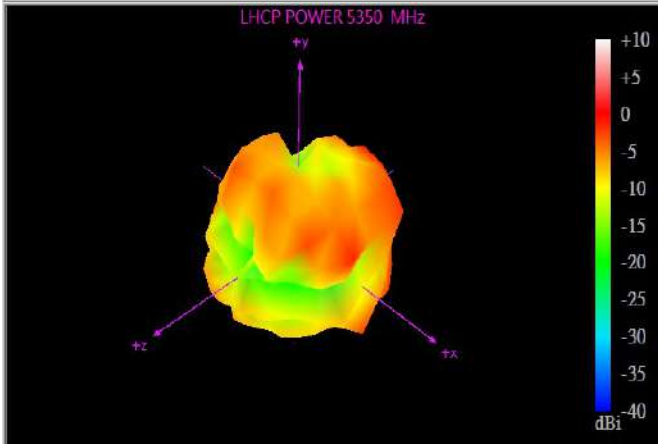
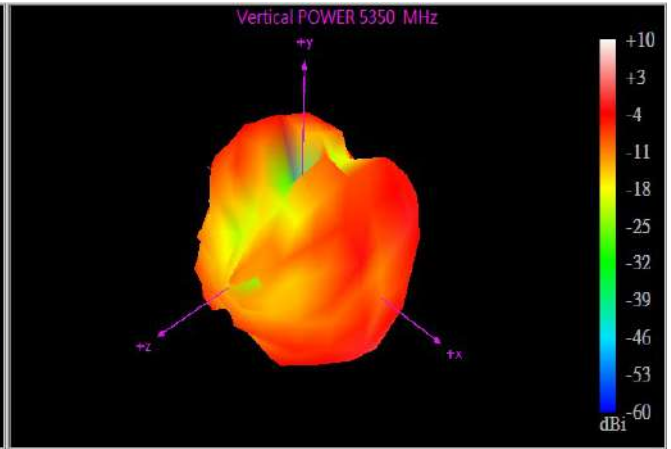
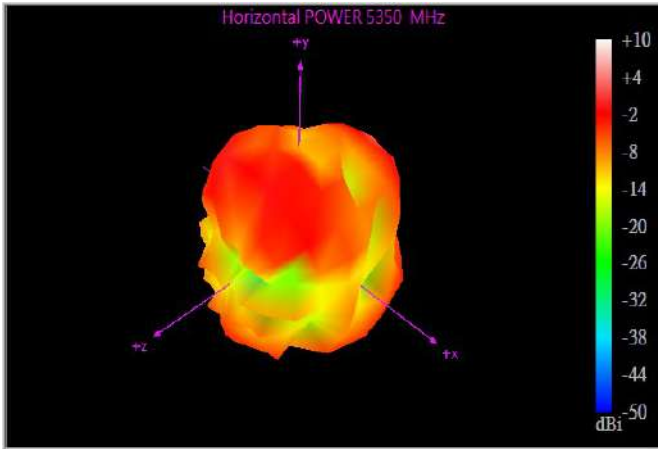




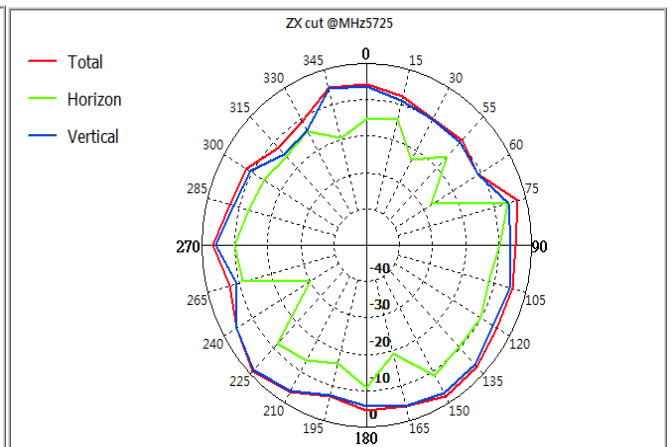
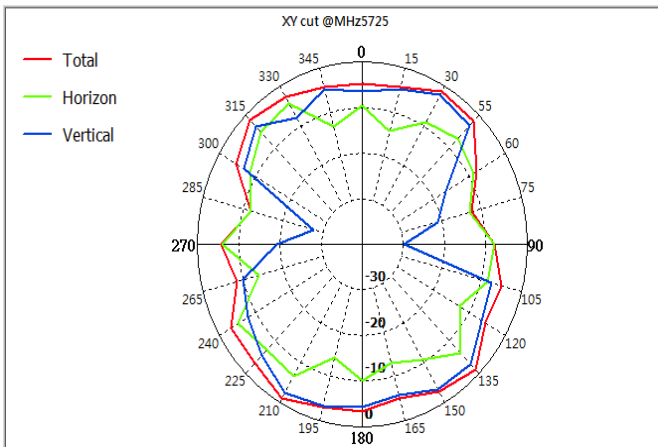


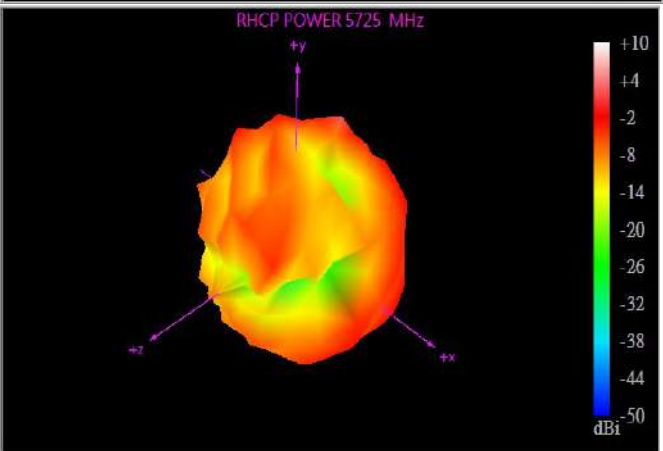
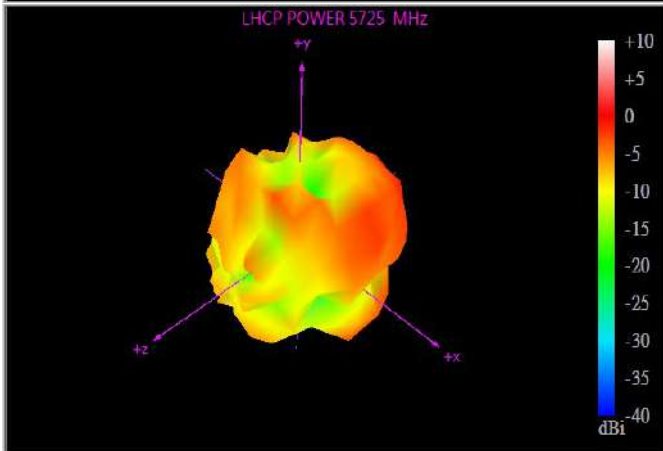
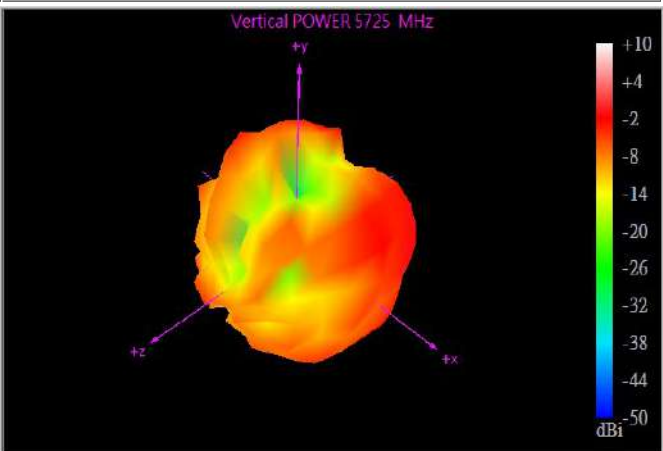
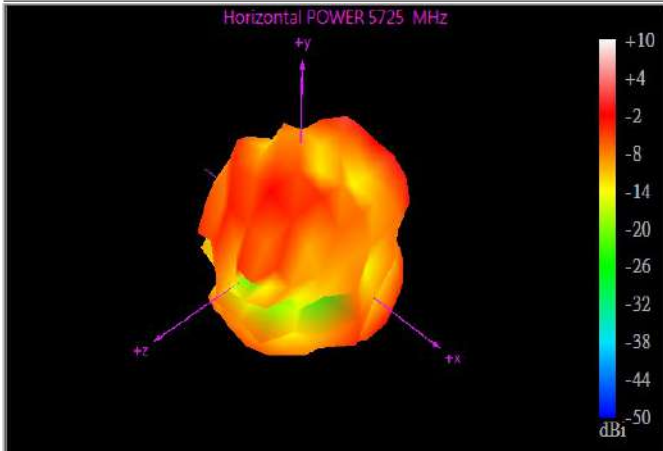
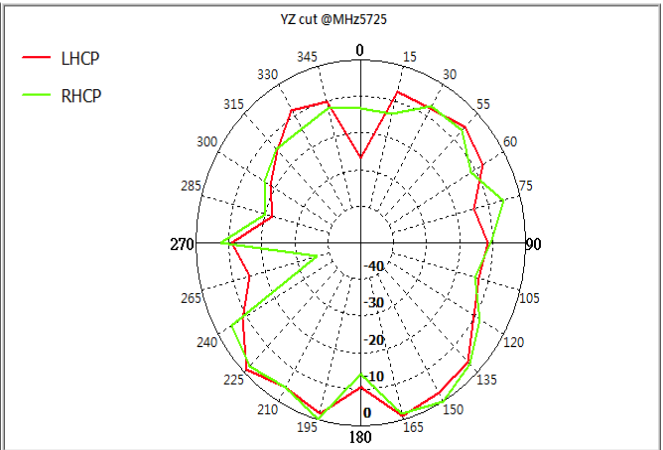
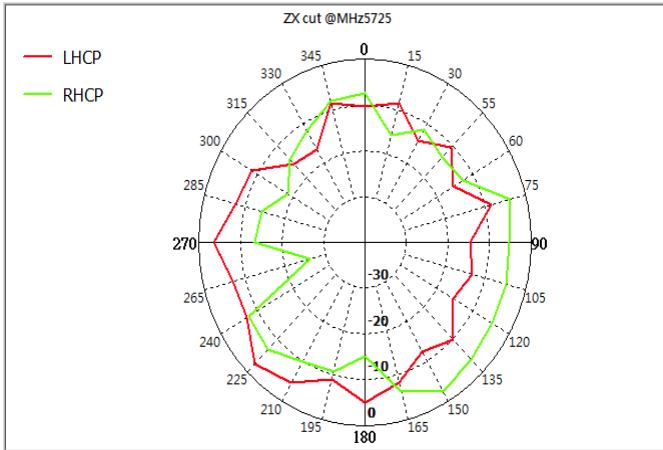
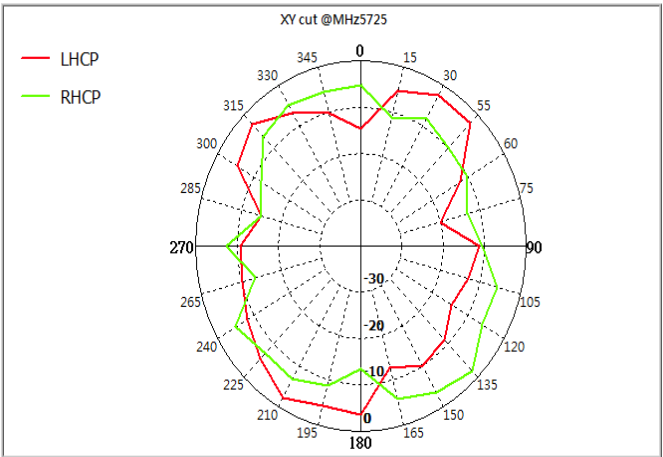
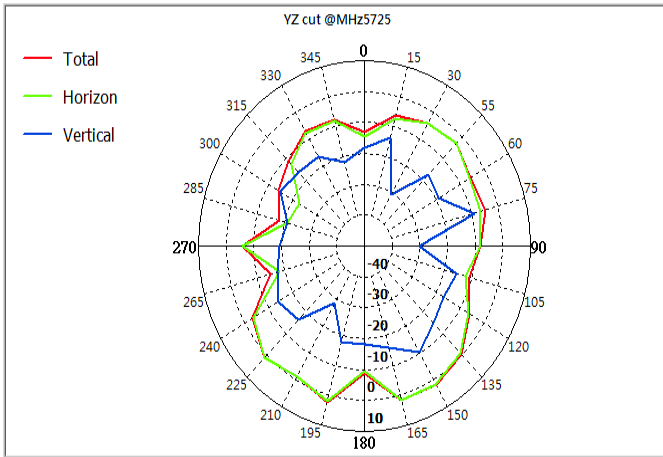
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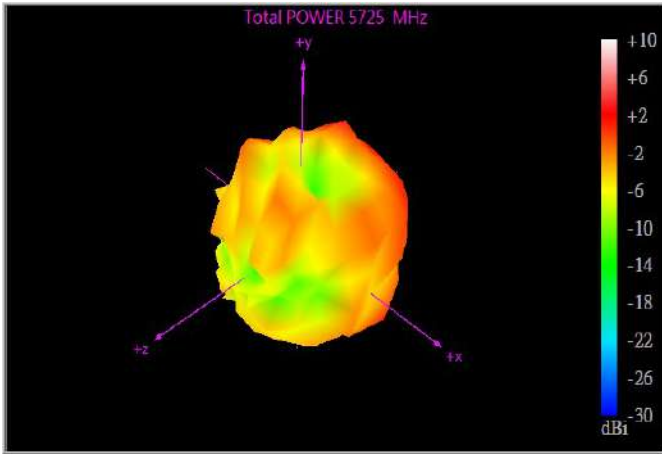




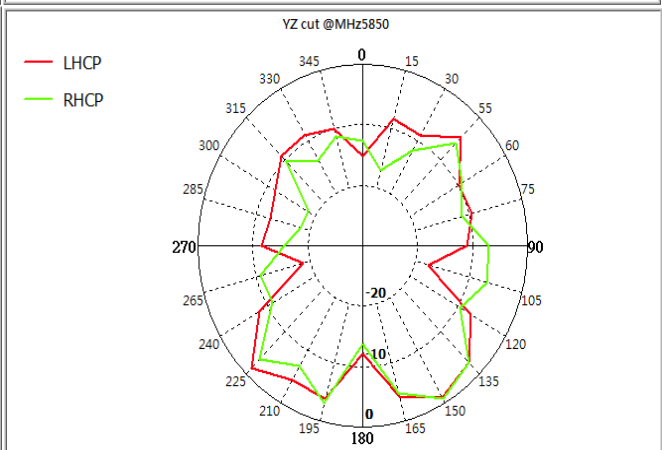
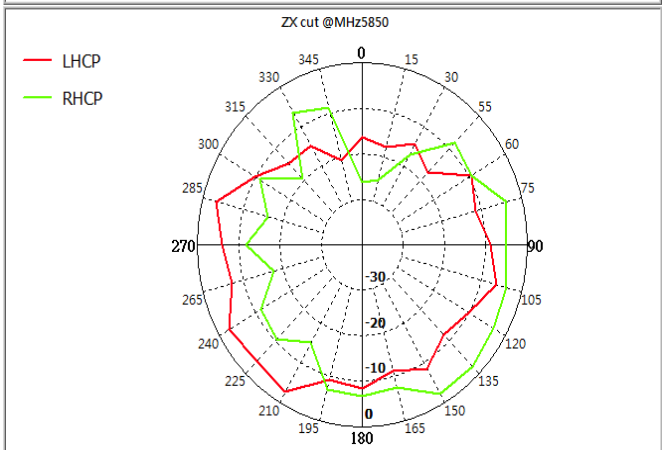
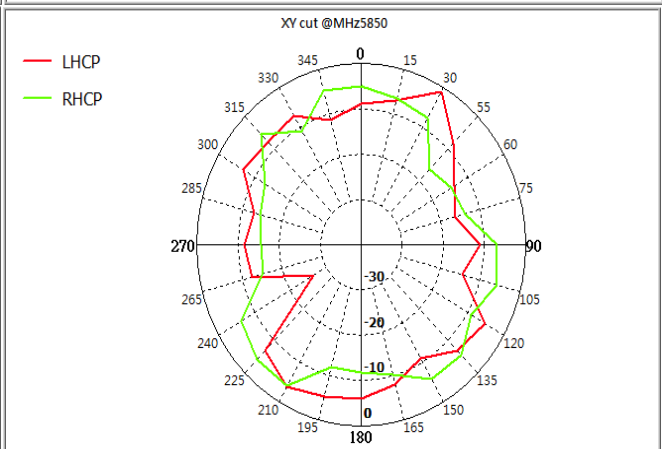
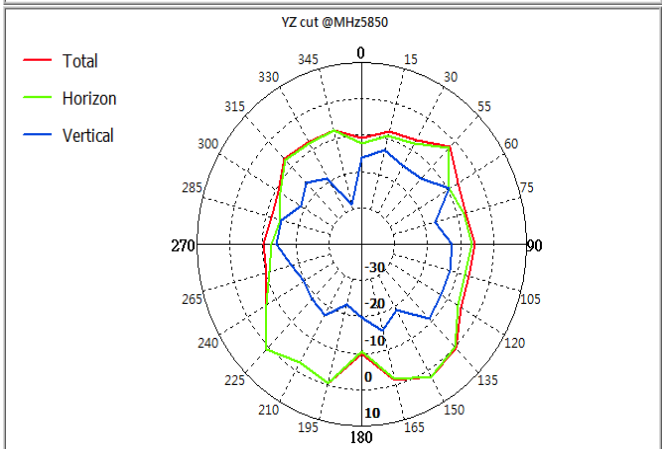
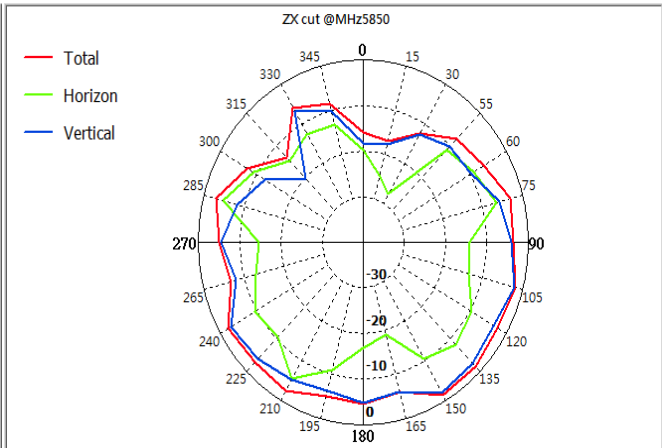
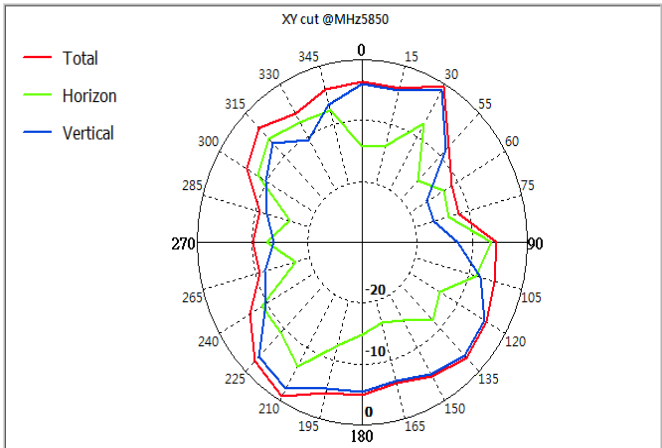
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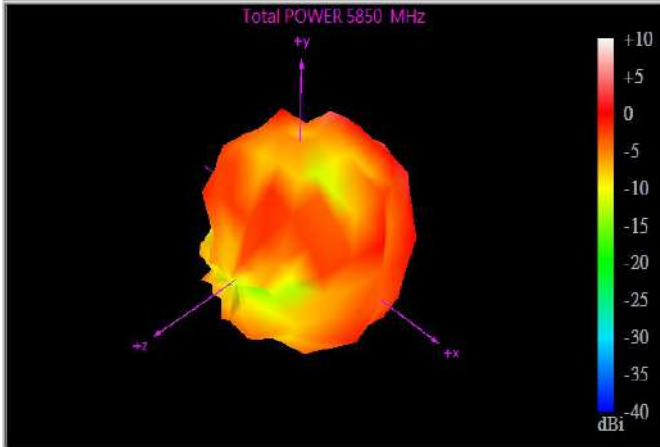
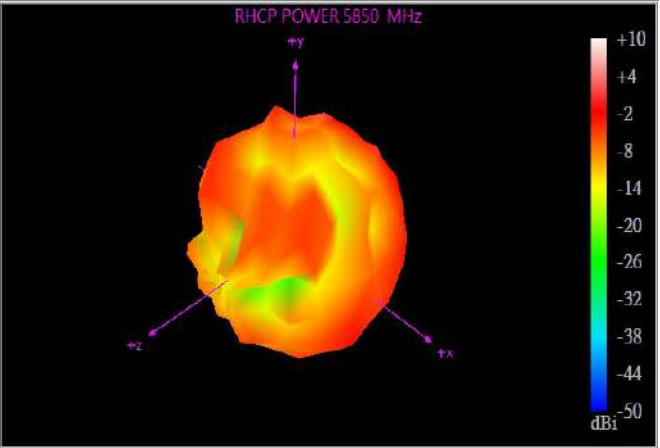
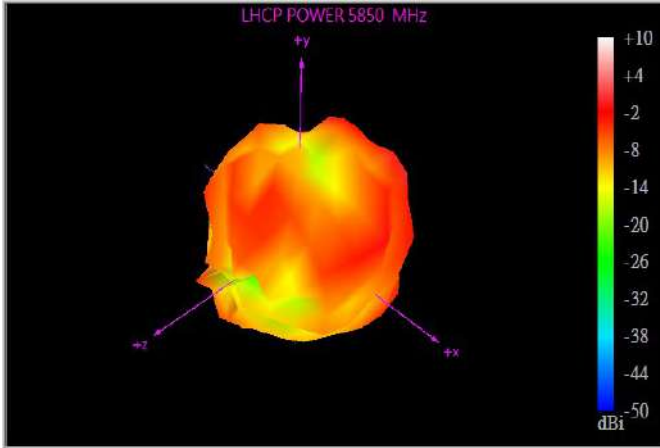
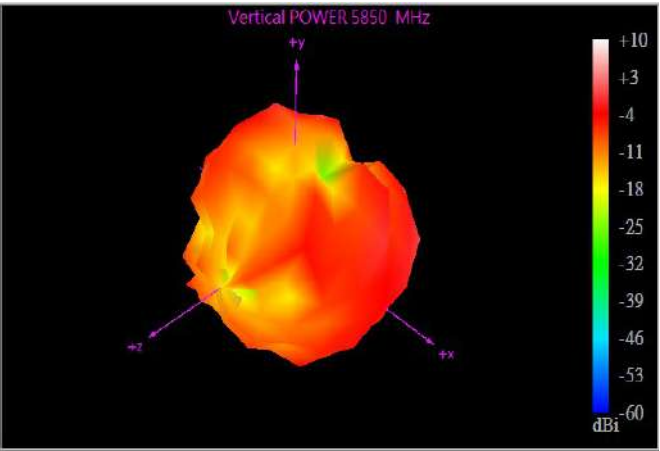
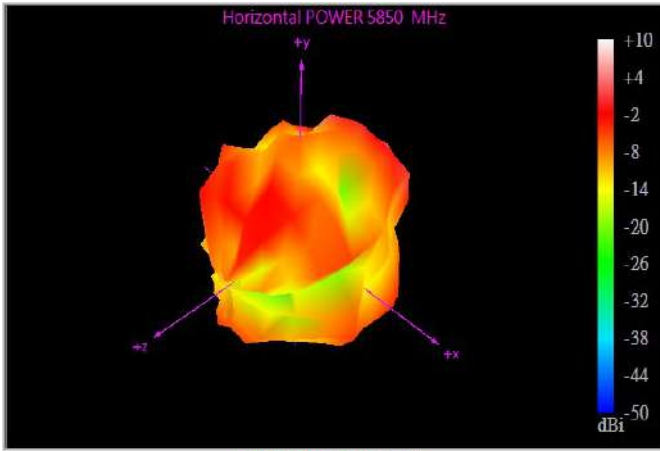




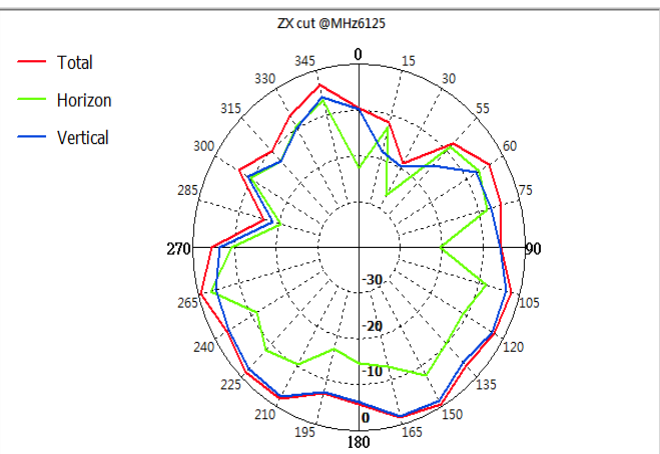
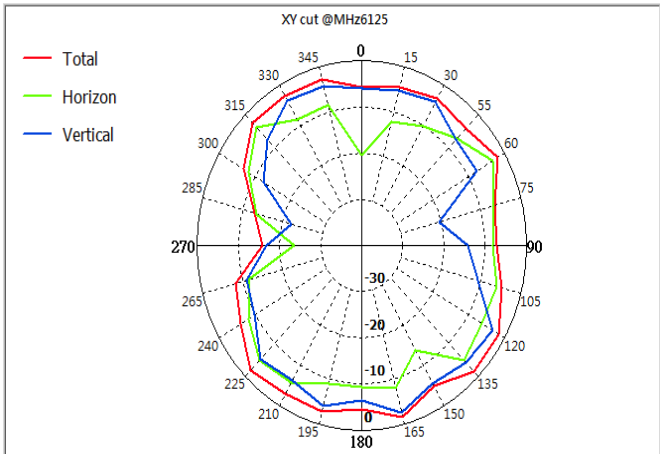


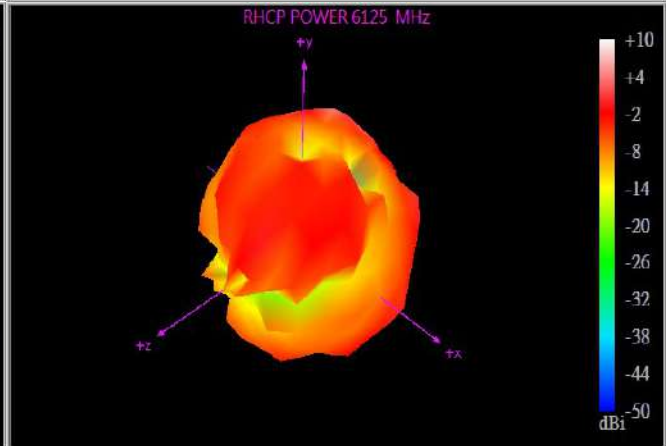
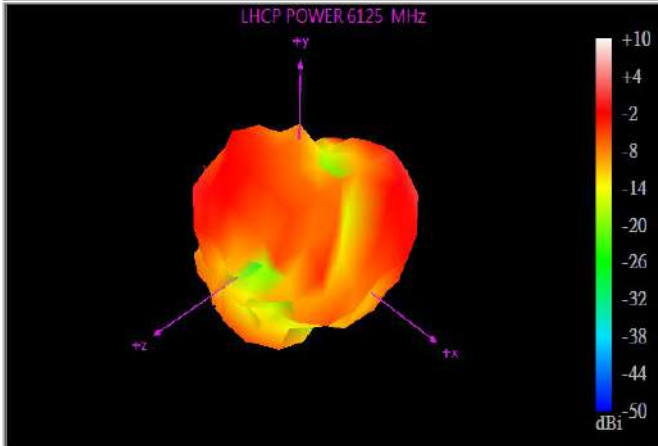
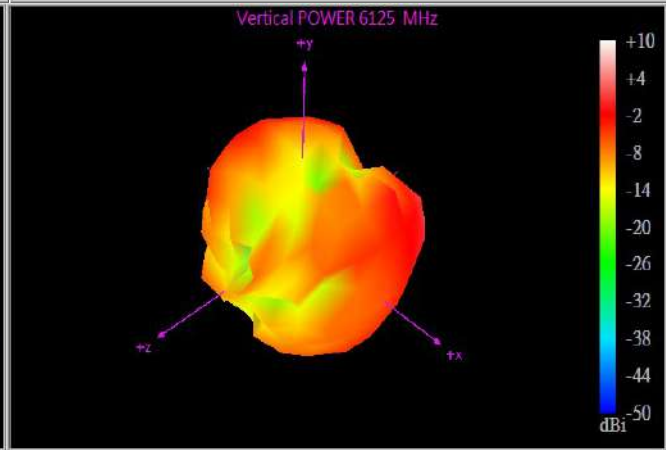
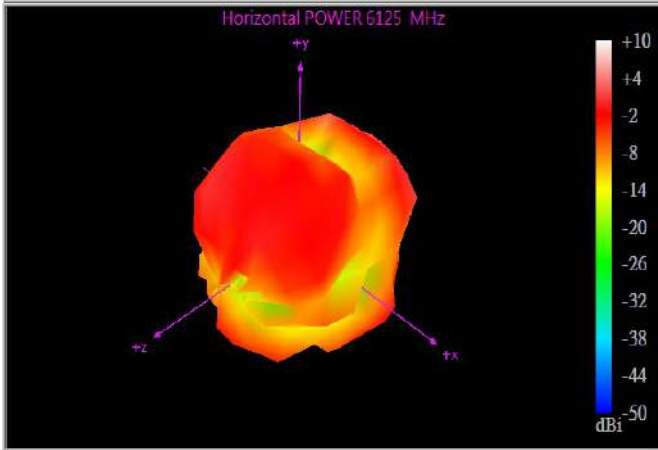
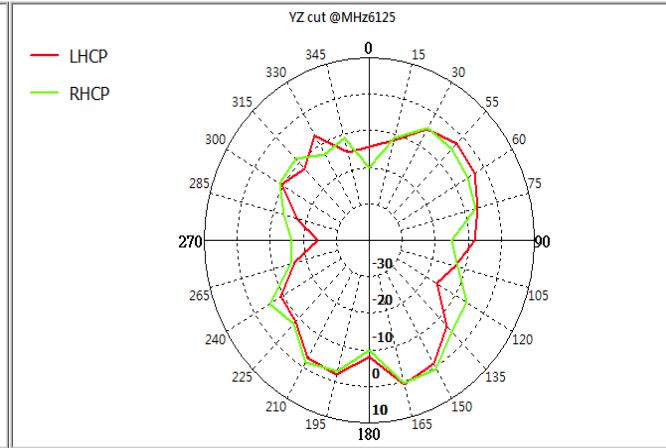
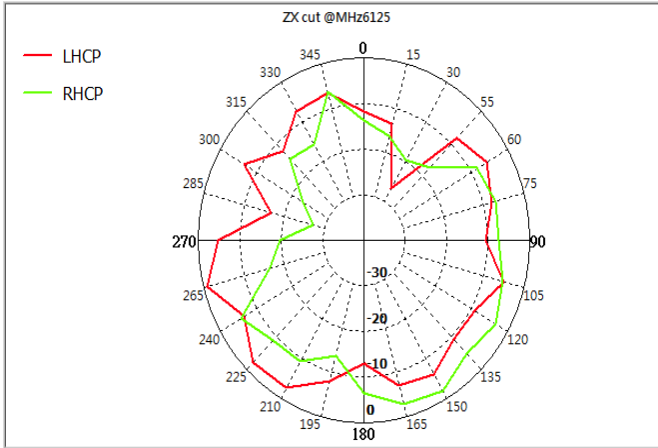
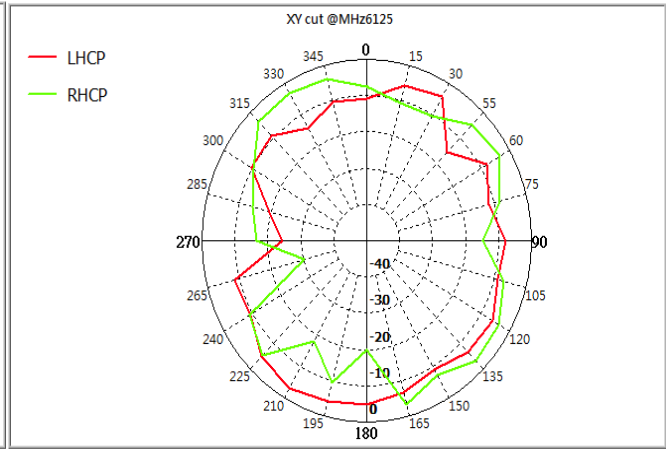
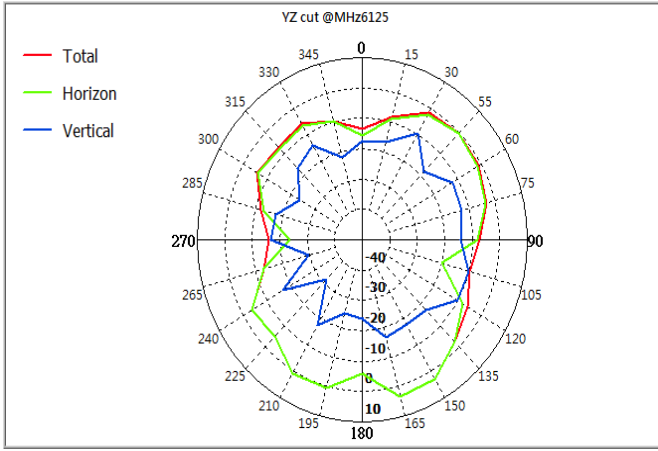
### 5850MHz:



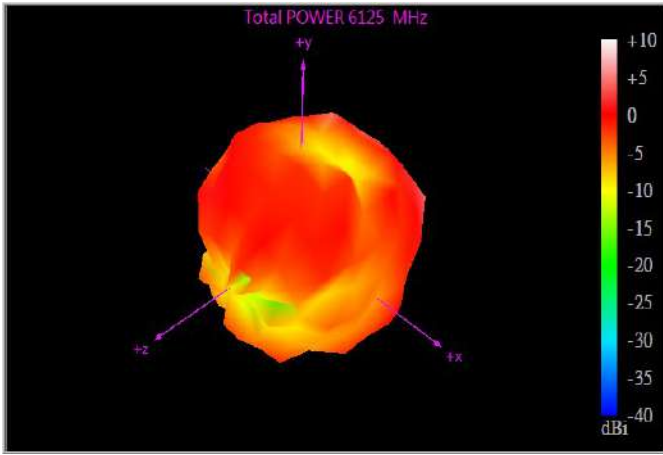


**6125Mhz:**

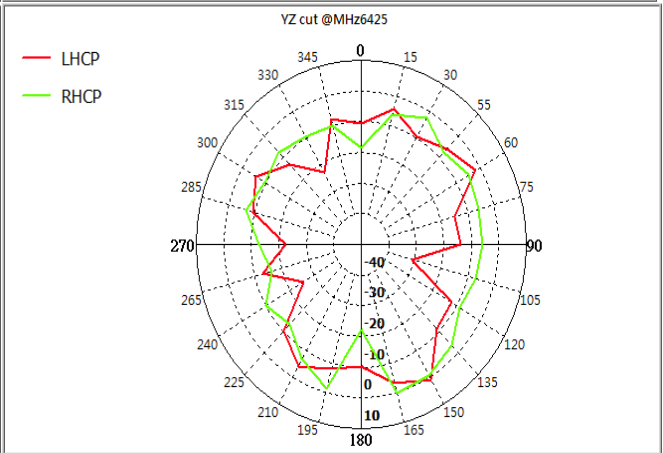
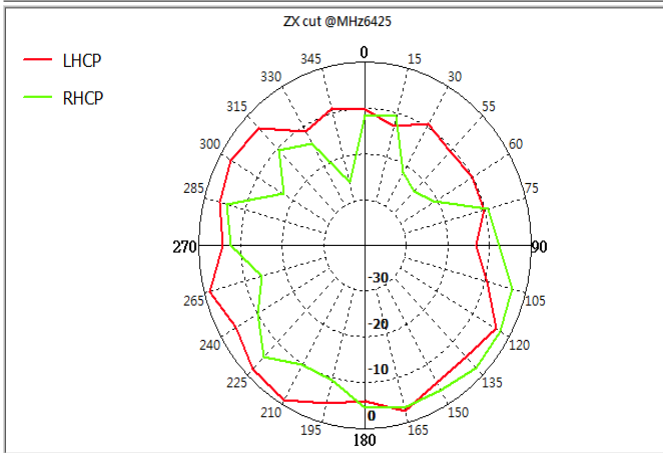
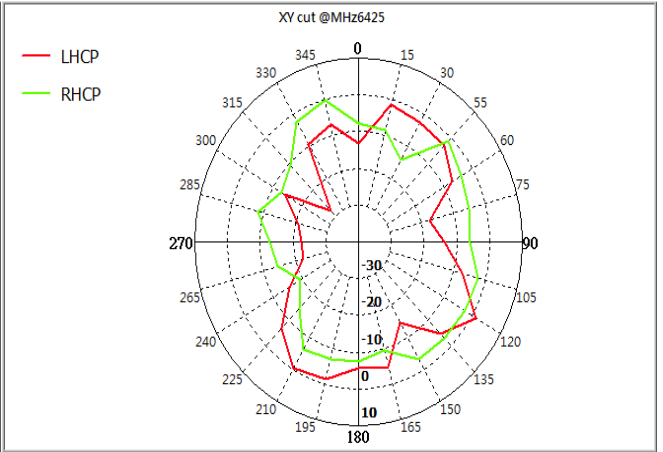
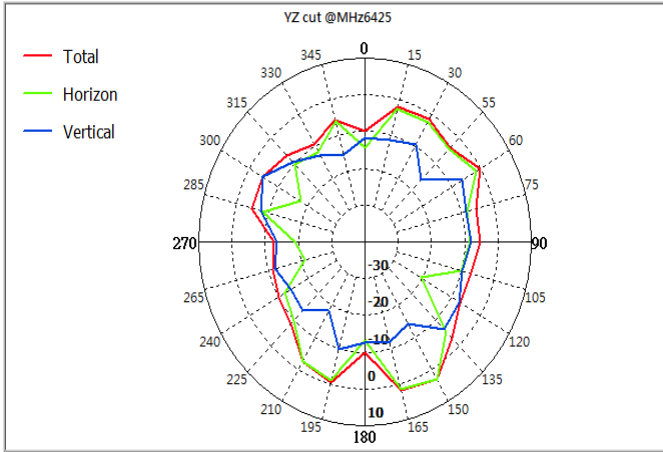
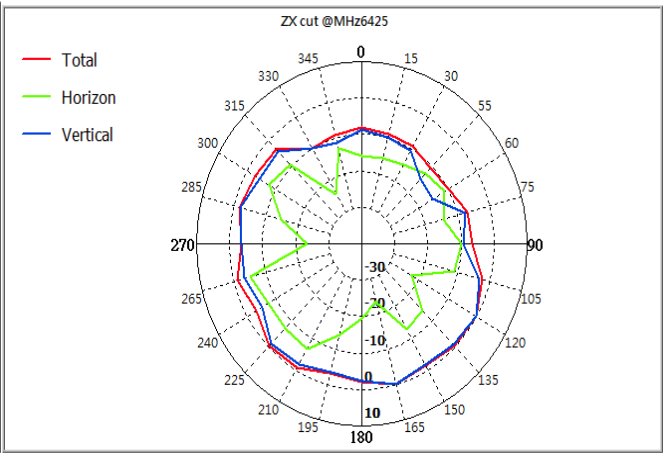
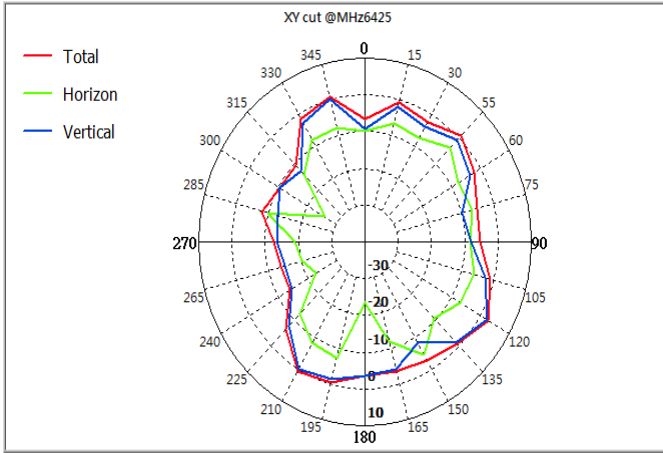


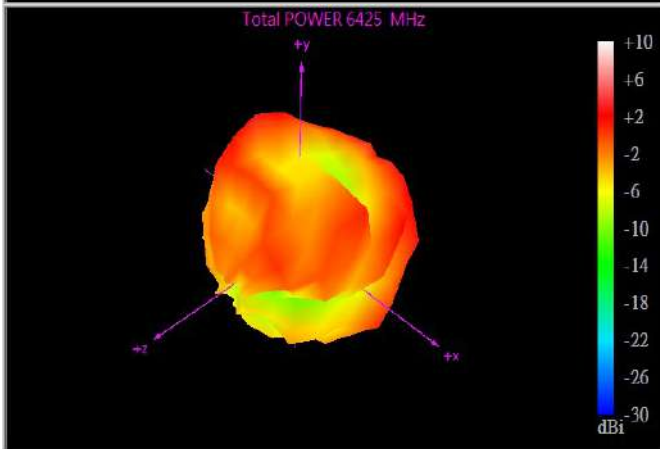
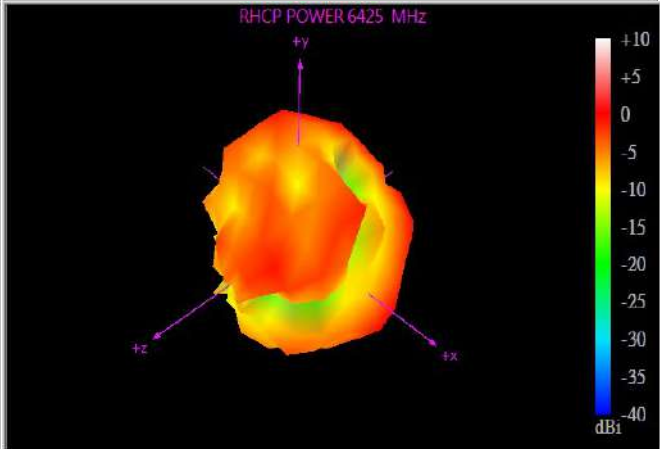
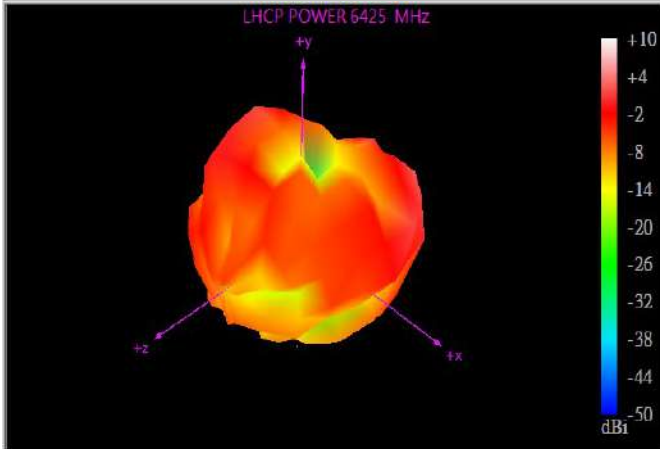
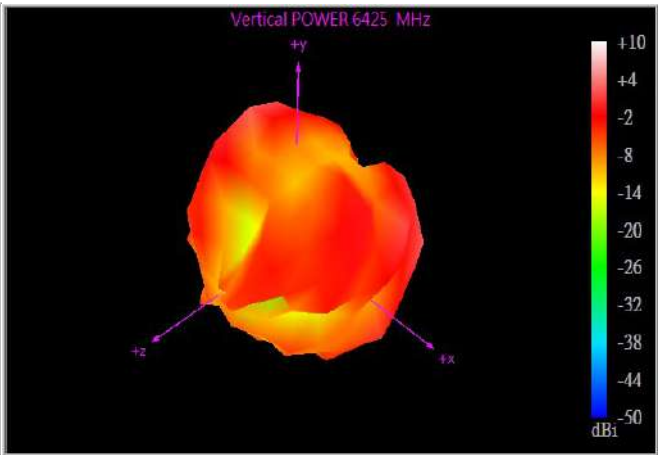
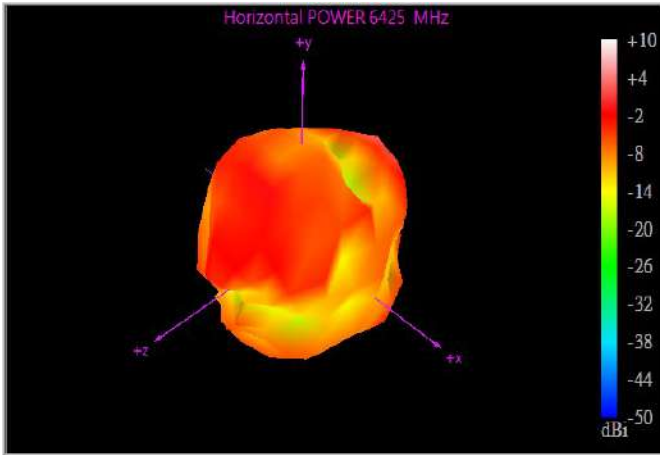






**6425Mhz:**





**7125Mhz:**

