

BJTEK NAVIGATION , INC.

GSM/GPS/GLONASS/3G/LTE Passive Antenna

MODEL: TH-81J



1.. GENERAL DESCRIPTION

Model No	P/N
TH-81J-T2	TH-81J-RP-SMA(M)-T2

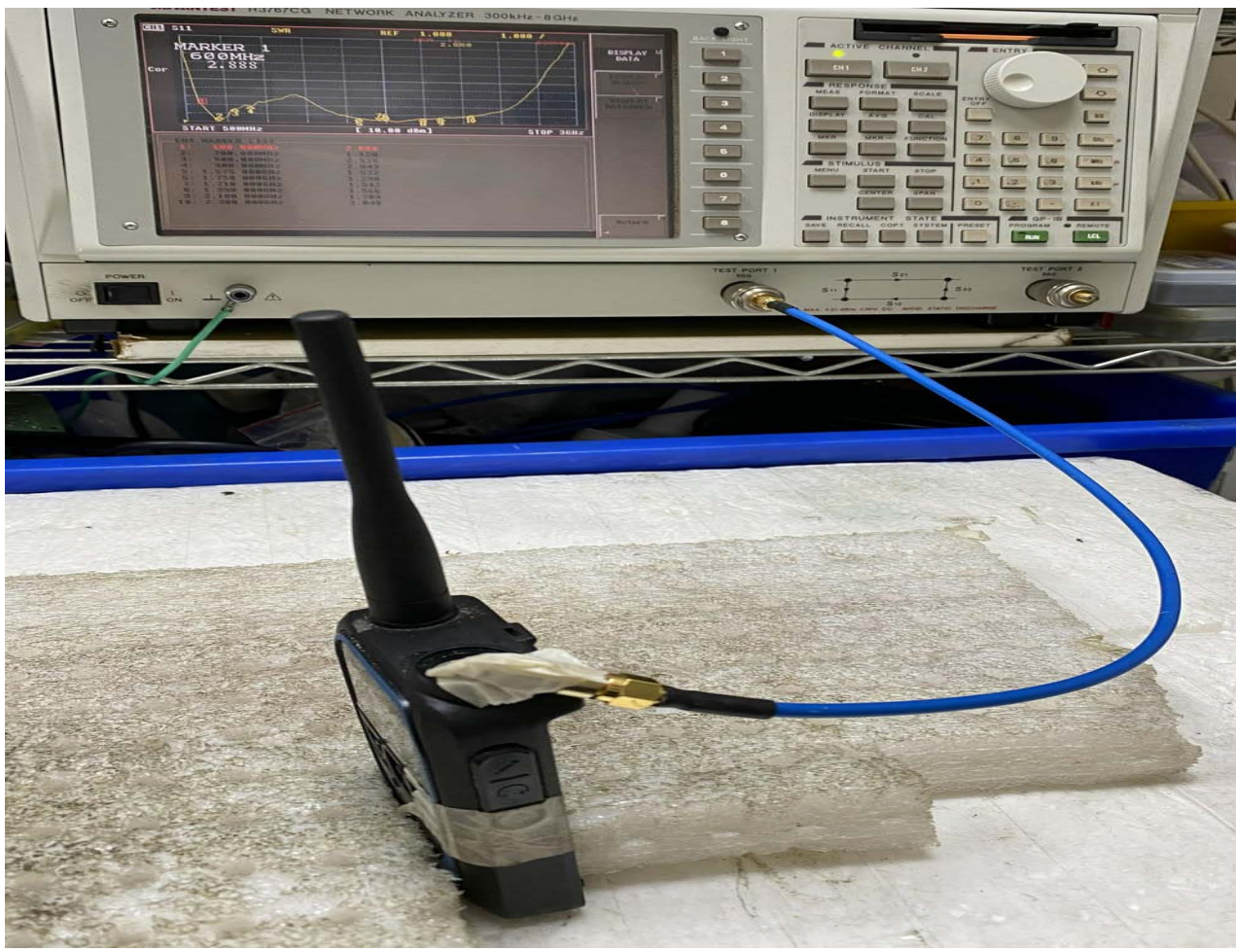
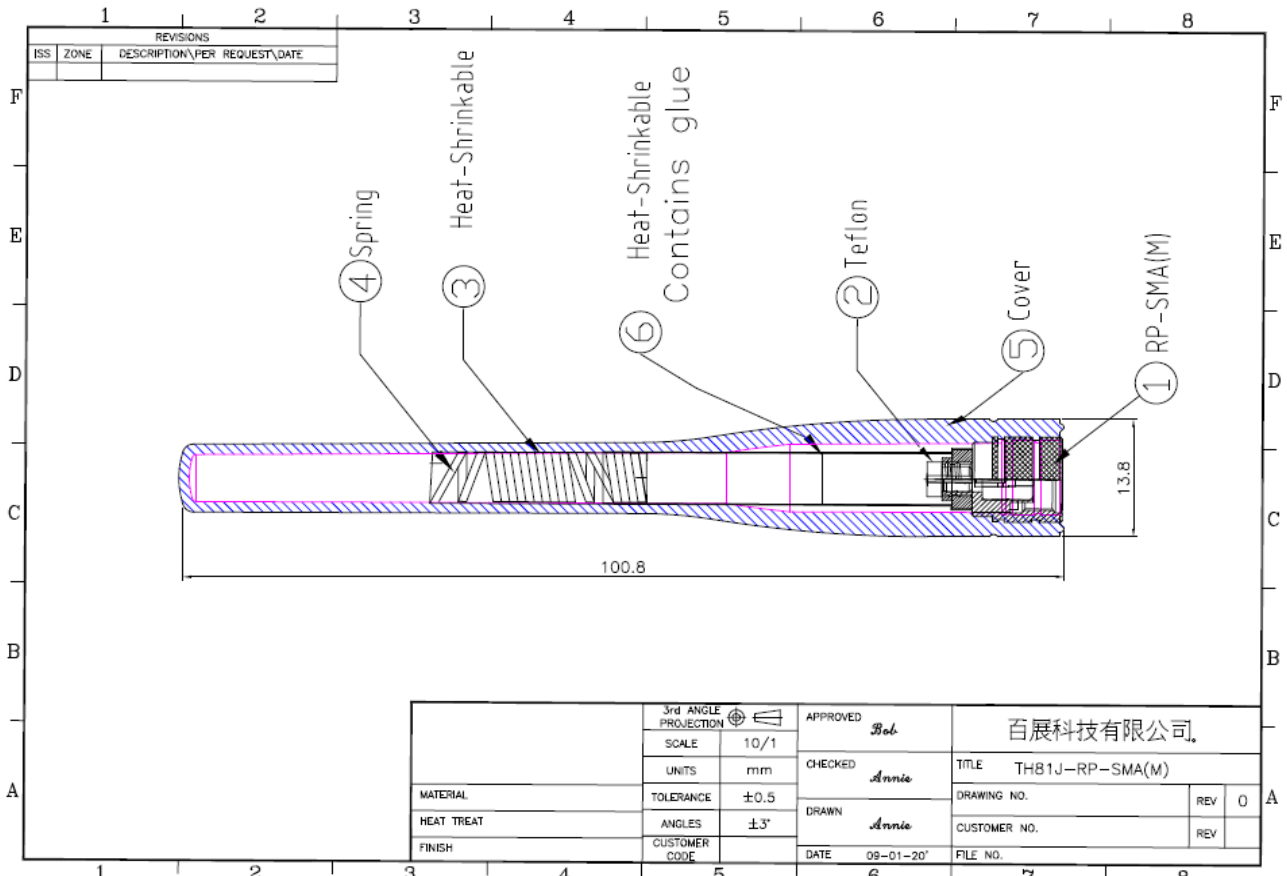
Below is a table summarizing the antenna design specification.

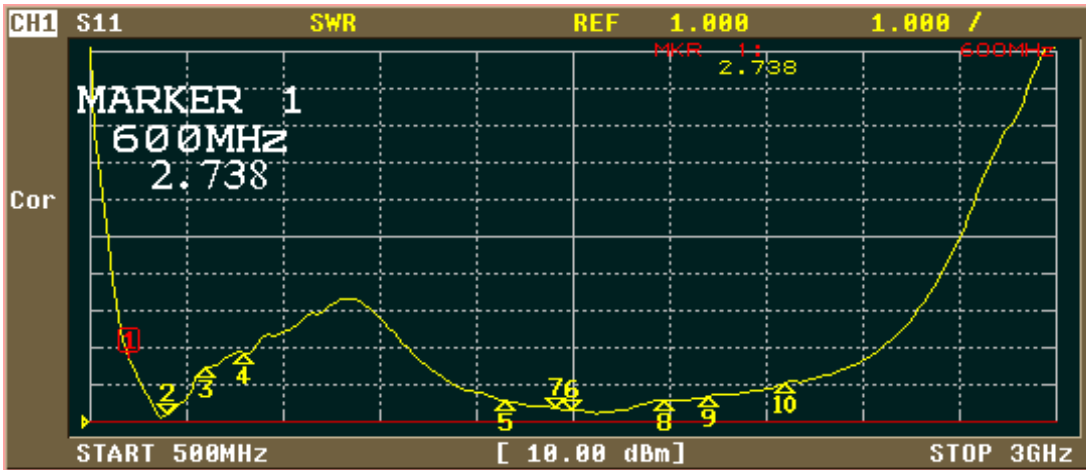
1.1 Electrical Properties

Parameter	Description
Frequency Band	LTE: 600、700、800、900、1700、2200、2300MHz GPS: 1575、1602MHz ON Customer Machine GND
Nominal Impedance	50 ohm
Polarization	Vertical
Admitted Power radiation	1W
V.S.W.R	600 & 900Mhz : 4.0:1 700、800、1575、1602、1700、2200、2300Mhz : 3.5:1
Antenna Peak Gain	0 ~2.5dB

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	TPU60D-10 (& 3403 Glue)
Touch Type	Screw Type
Connector Type	OD8.75-10 SMA (Male) , Center PIN offset +/-0.08mm
Antenna Dimensions	OD13.8 x 100.8mm±0.5
Antenna Color	Black
Operating Temperature Range	-30°C~+80°C
Storage Temperature Range	-30°C~+80°C





CH1 MARKER LIST

1:	600.000MHz	2.738
2:	700.000MHz	1.203
3:	800.000MHz	2.481
4:	900.000MHz	2.850
5:	1.575 000GHz	1.561
6:	1.750 000GHz	1.293
7:	1.710 000GHz	1.352
8:	1.990 000GHz	1.584
9:	2.100 000GHz	1.677
10:	2.300 000GHz	2.043

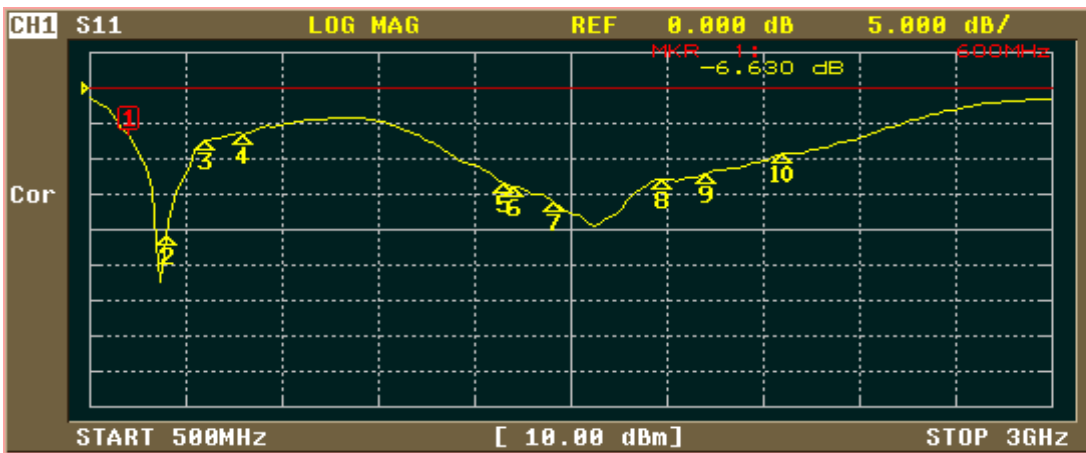
DISPLAY

DISPLAY DATA

DISPLAY MEMORY

DISPLAY DATA&MEM

Return



CH1 MARKER LIST

1:	600.000MHz	-6.630 dB
2:	700.000MHz	-20.816 dB
3:	800.000MHz	-7.474 dB
4:	900.000MHz	-6.474 dB
5:	1.575 000GHz	-13.365 dB
6:	1.602 000GHz	-13.867 dB
7:	1.710 000GHz	-16.189 dB
8:	1.990 000GHz	-12.942 dB
9:	2.100 000GHz	-12.125 dB
10:	2.300 000GHz	-9.321 dB

FORMAT

LOG MAG

PHASE

DELAY

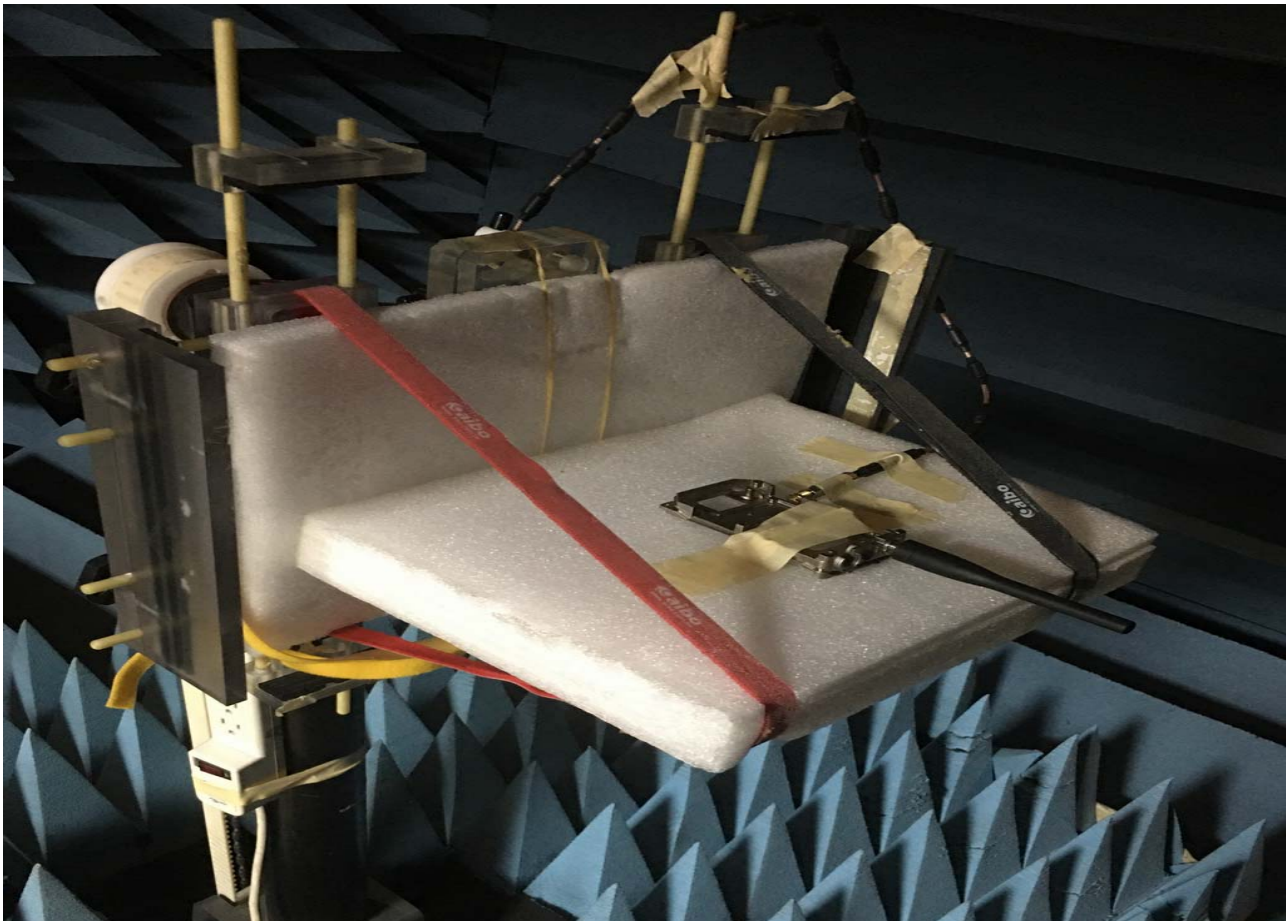
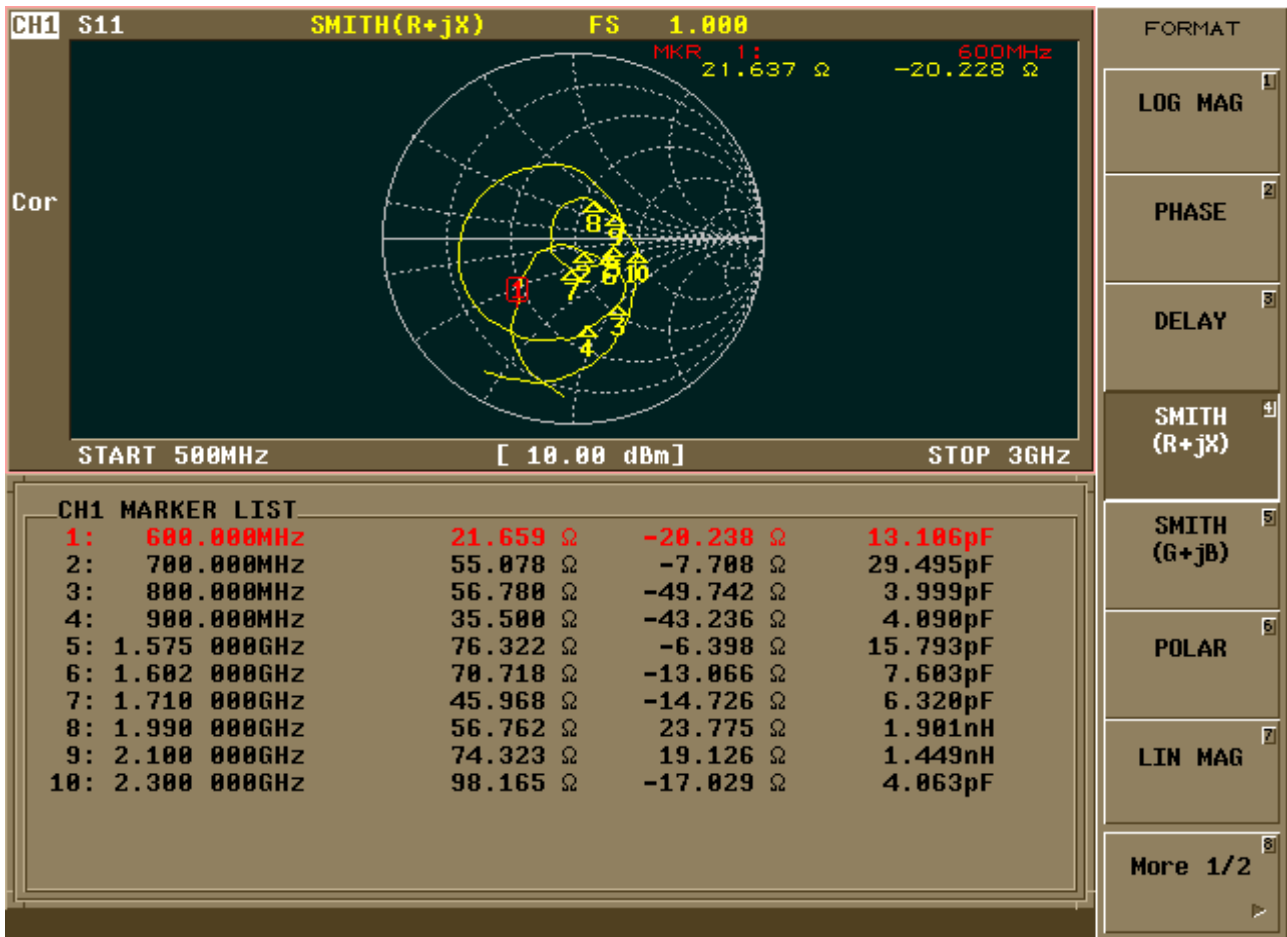
SMITH (R+jX)

SMITH (G+jB)

POLAR

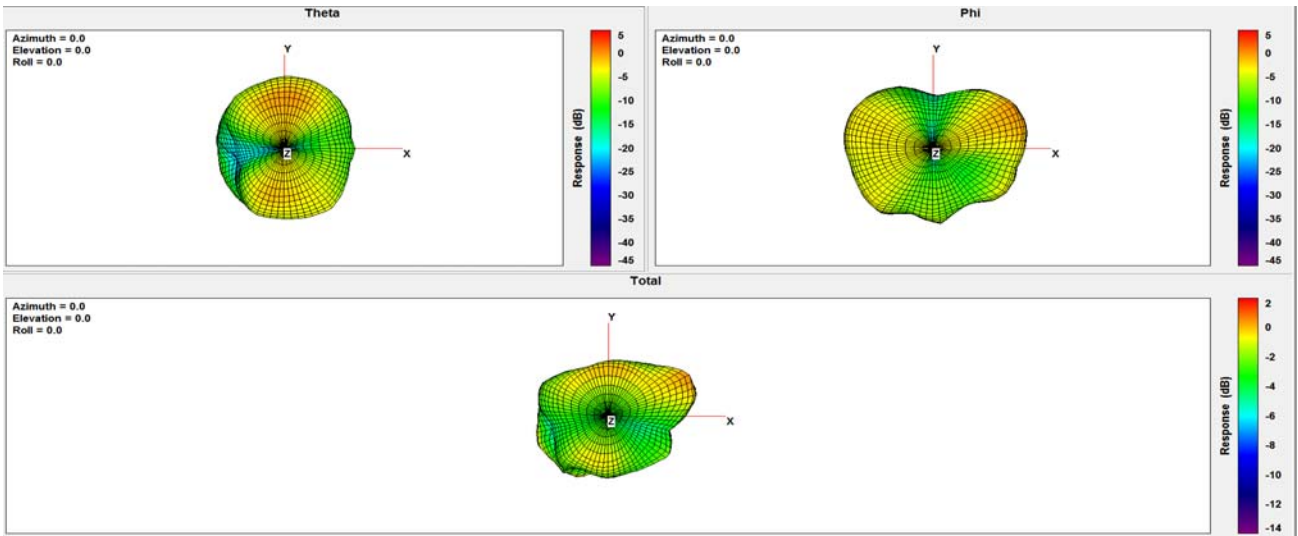
LIN MAG

More 1/2

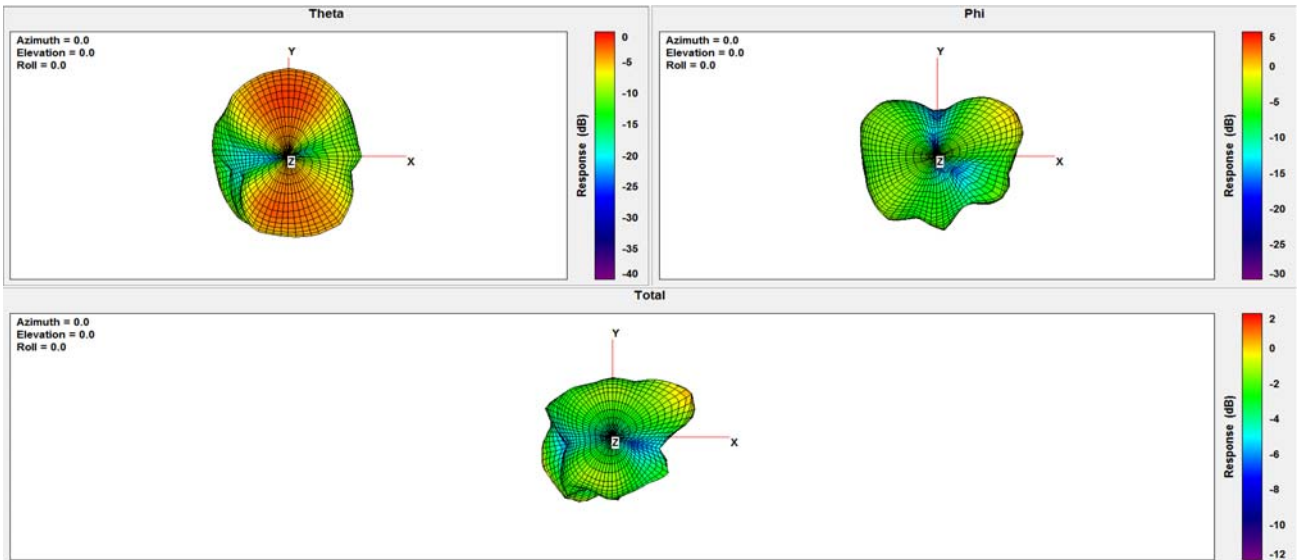


3D Radiation Patterns

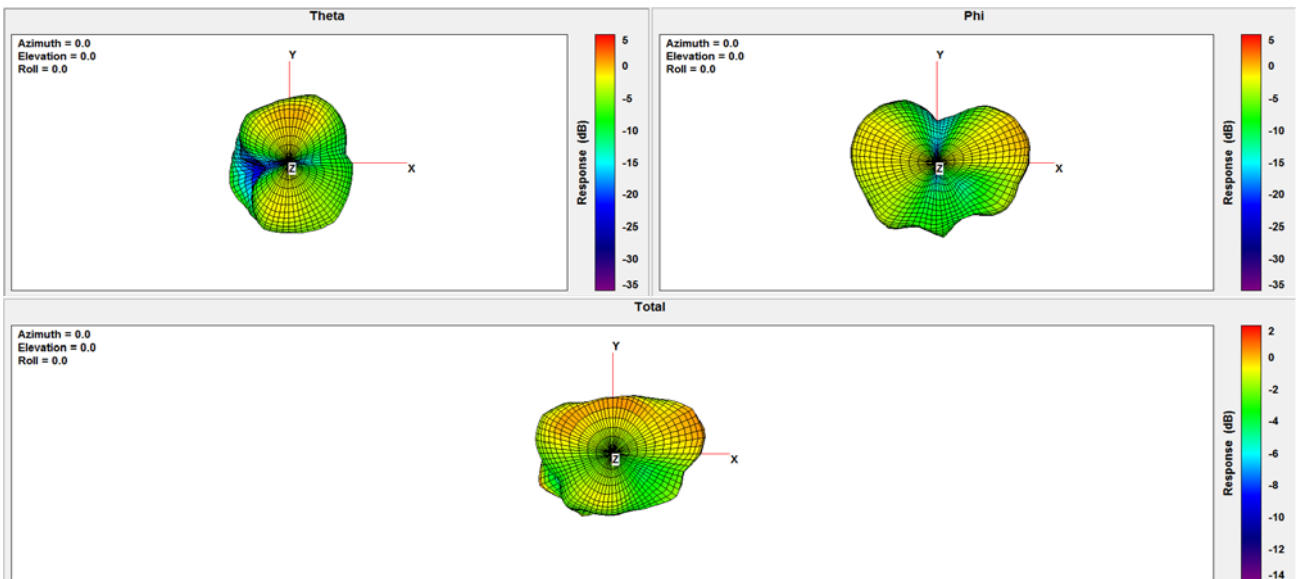
600Mhz:



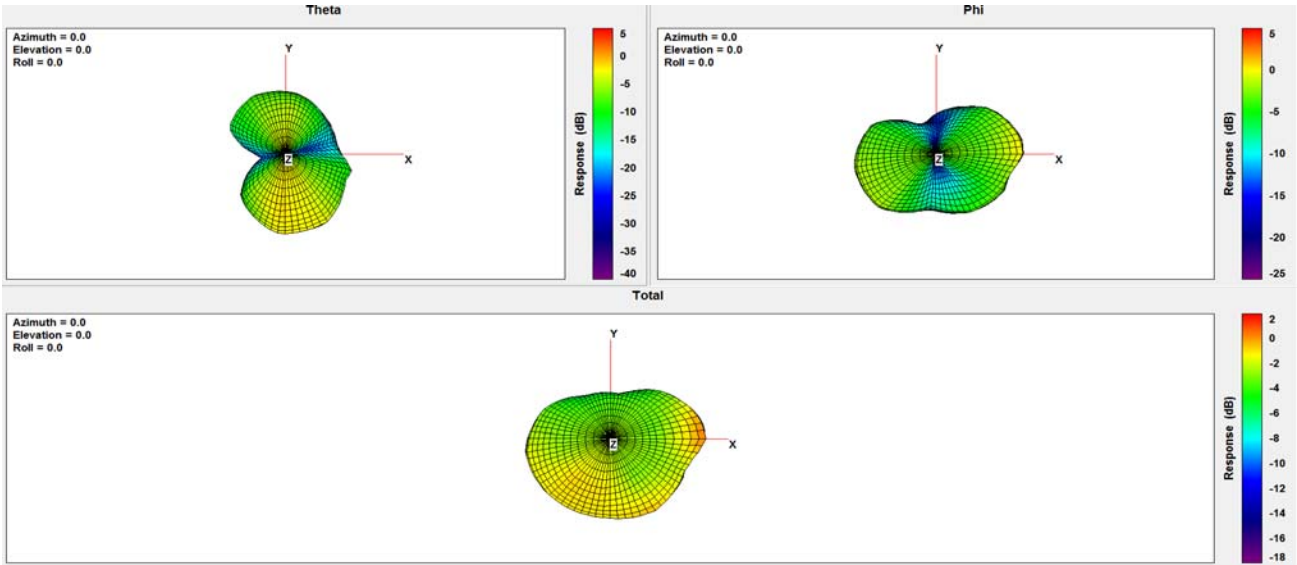
700Mhz:



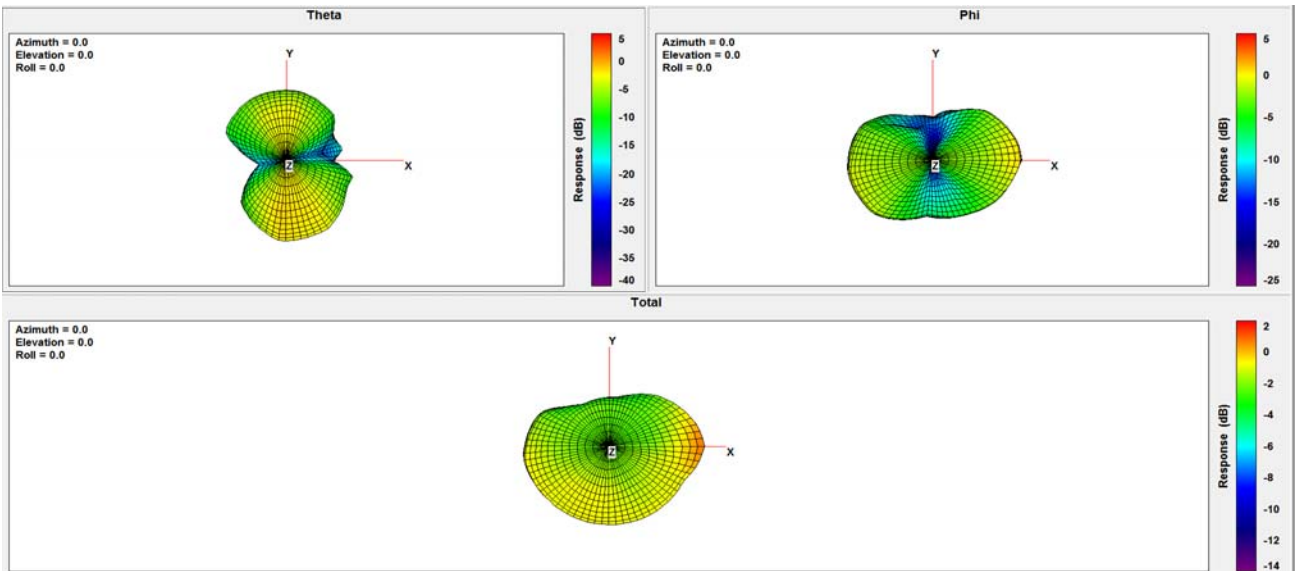
800Mhz:



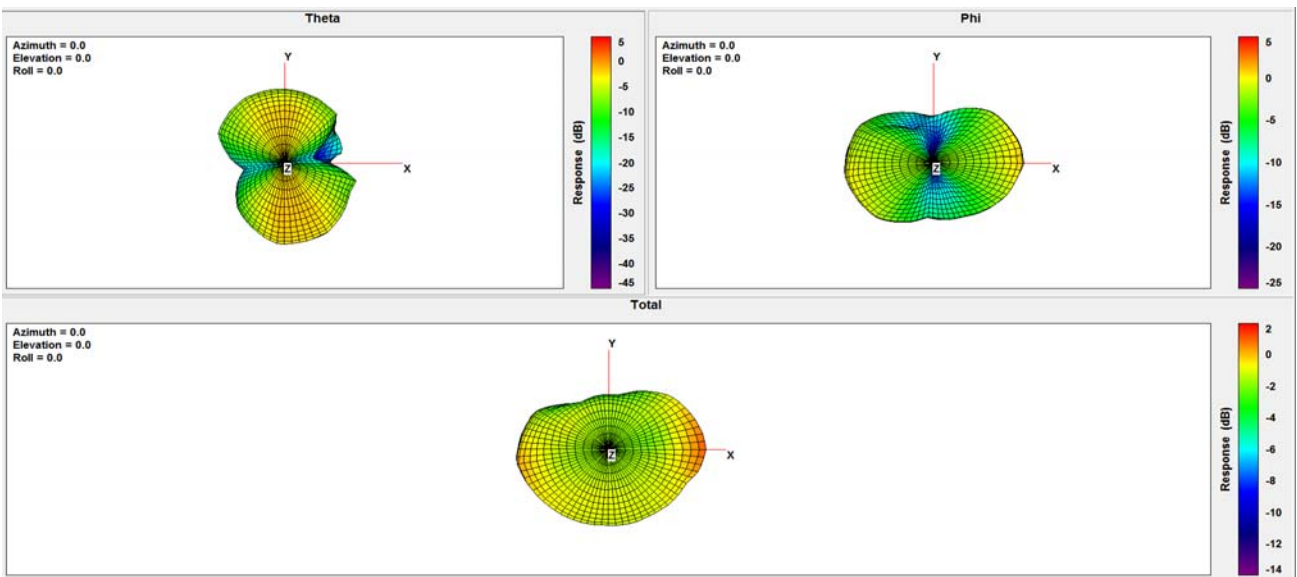
900Mhz:



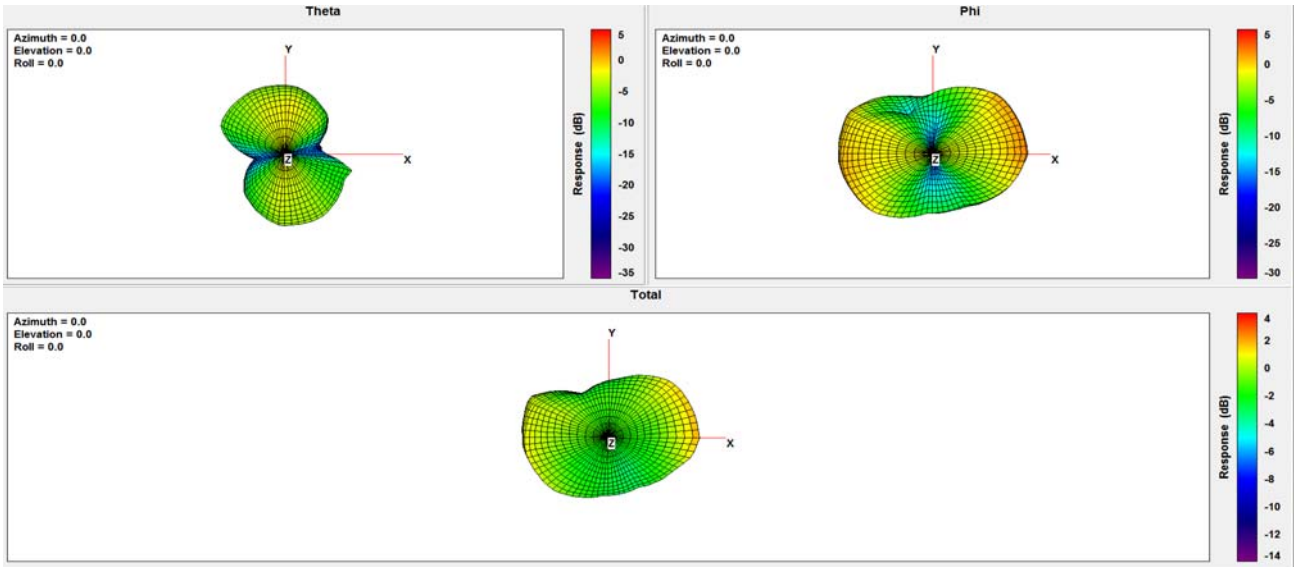
1575Mhz:



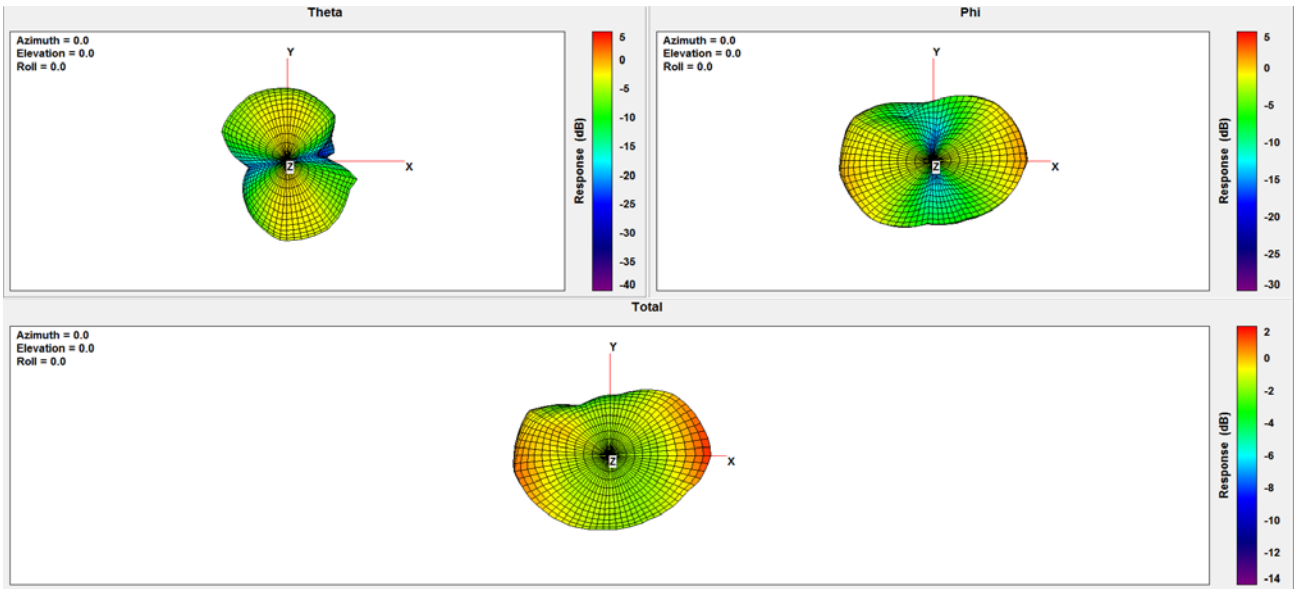
1602Mhz:



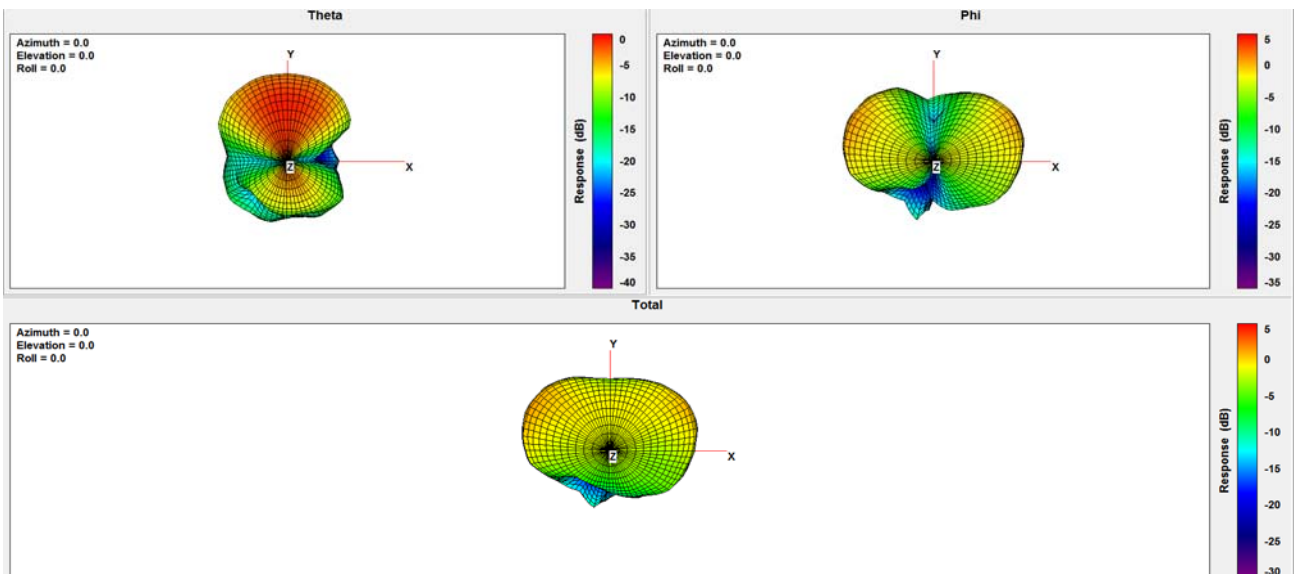
1750Mhz:



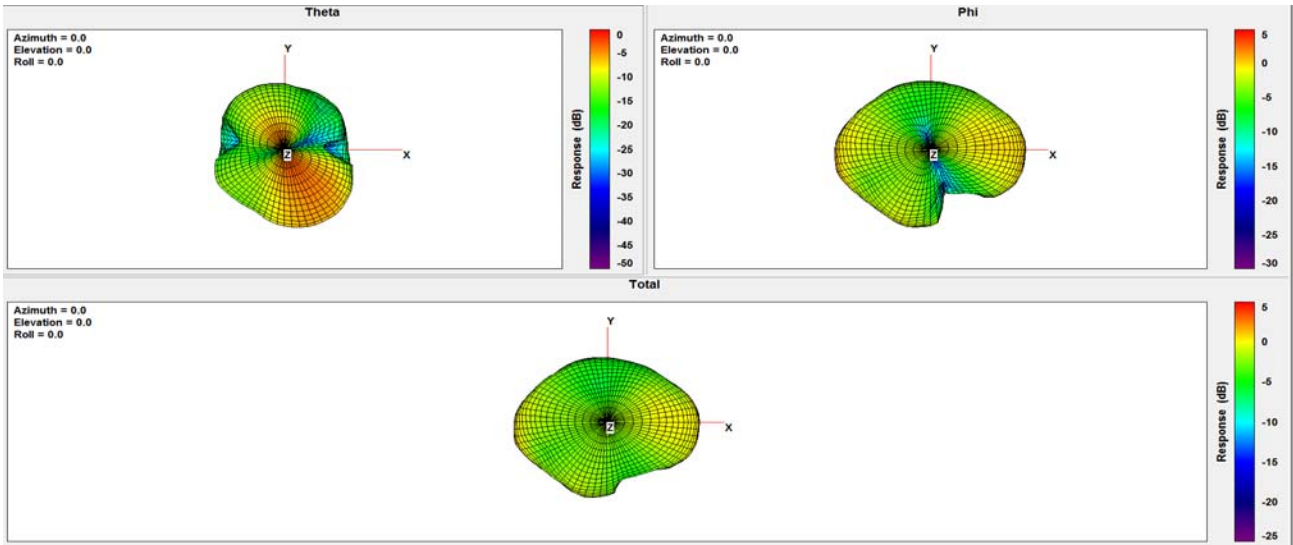
1990Mhz:



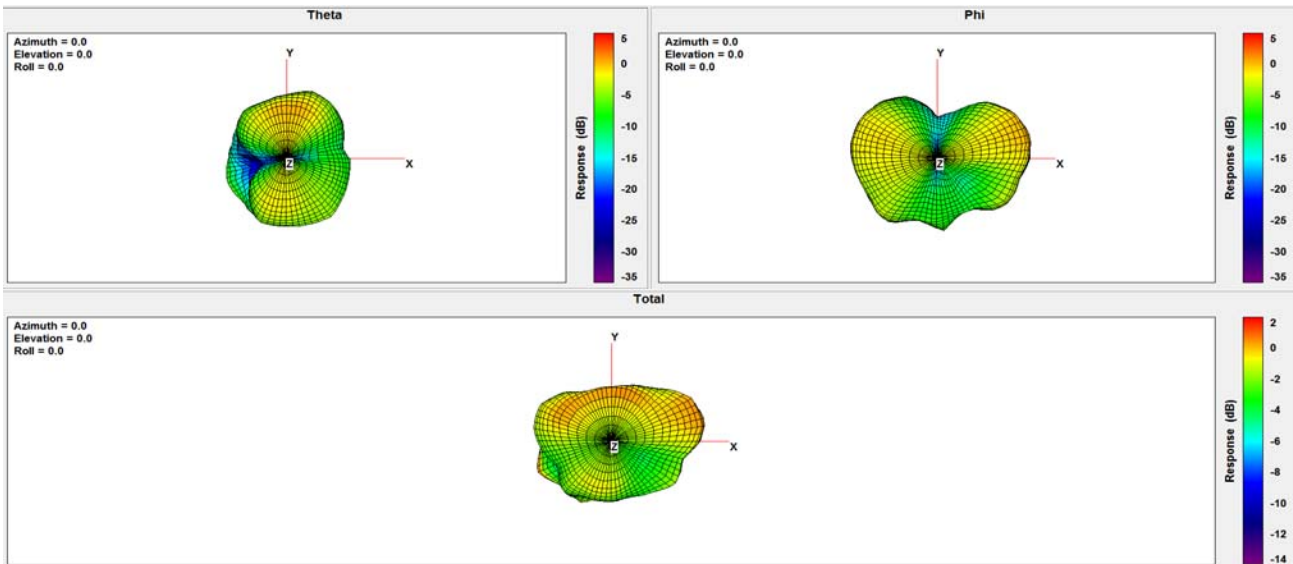
2100Mhz:



2200Mhz:

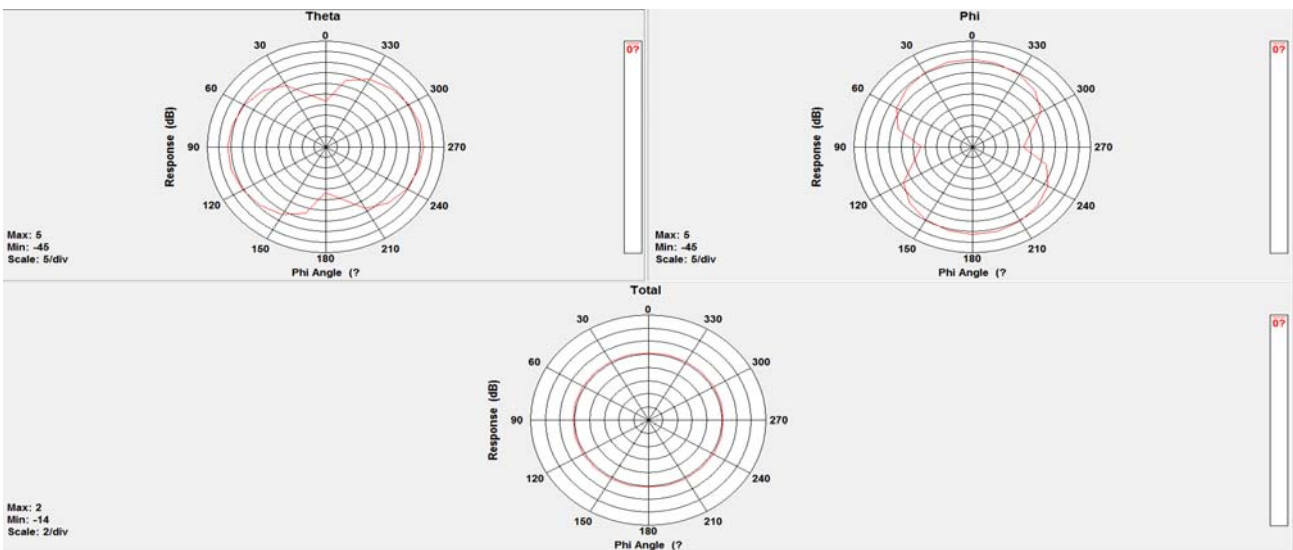


2300Mhz:

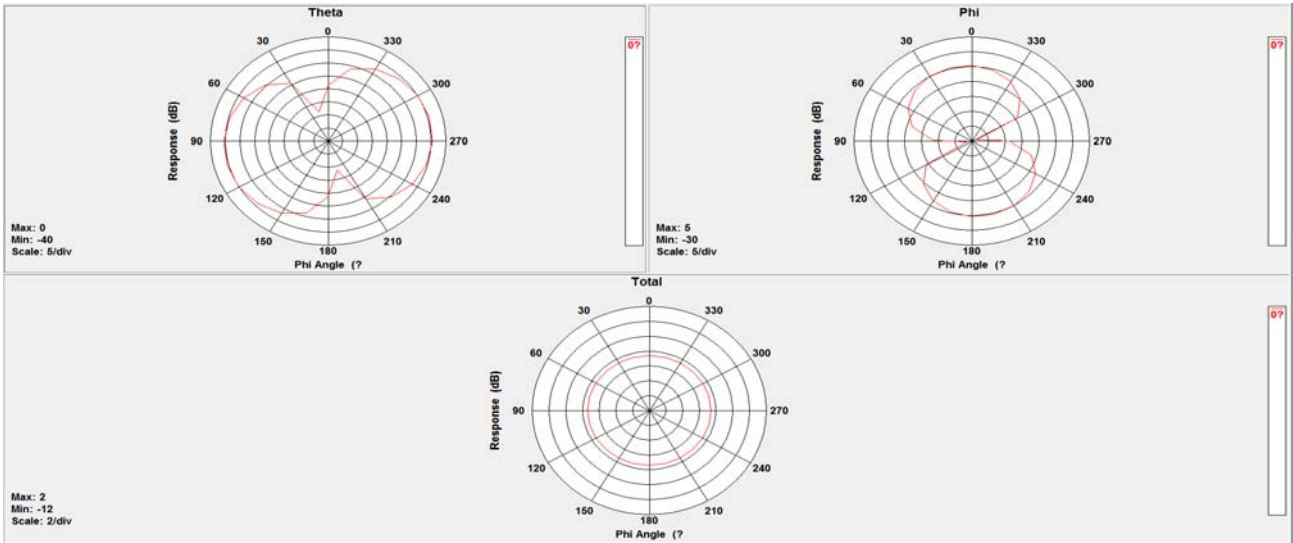


2D Radiation Patterns

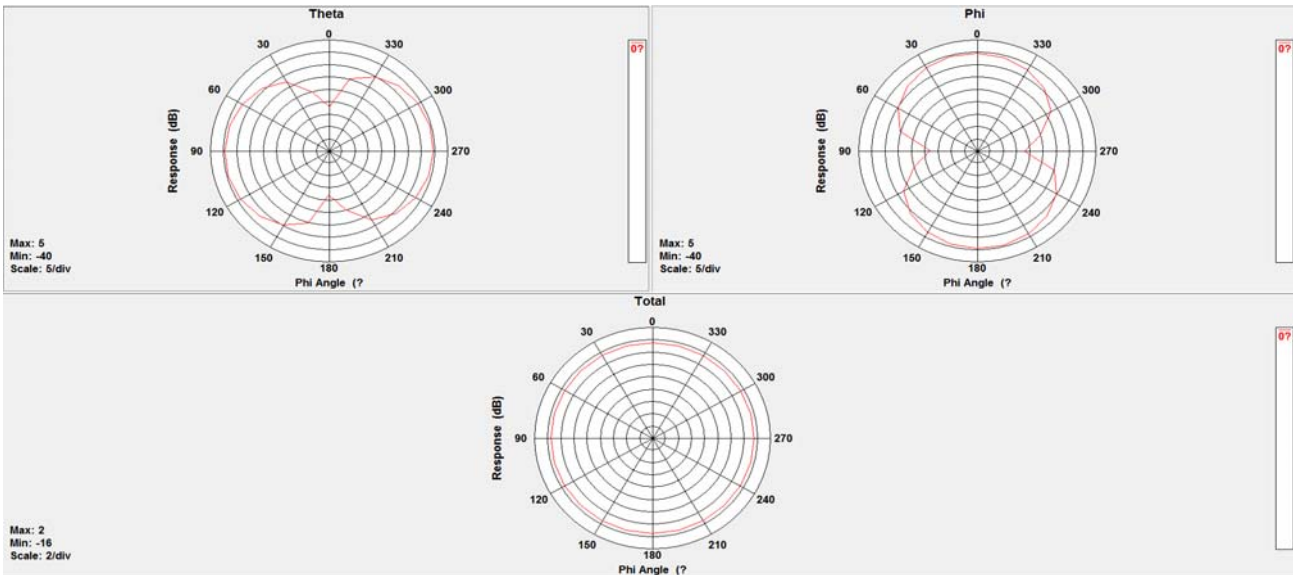
600Mhz:



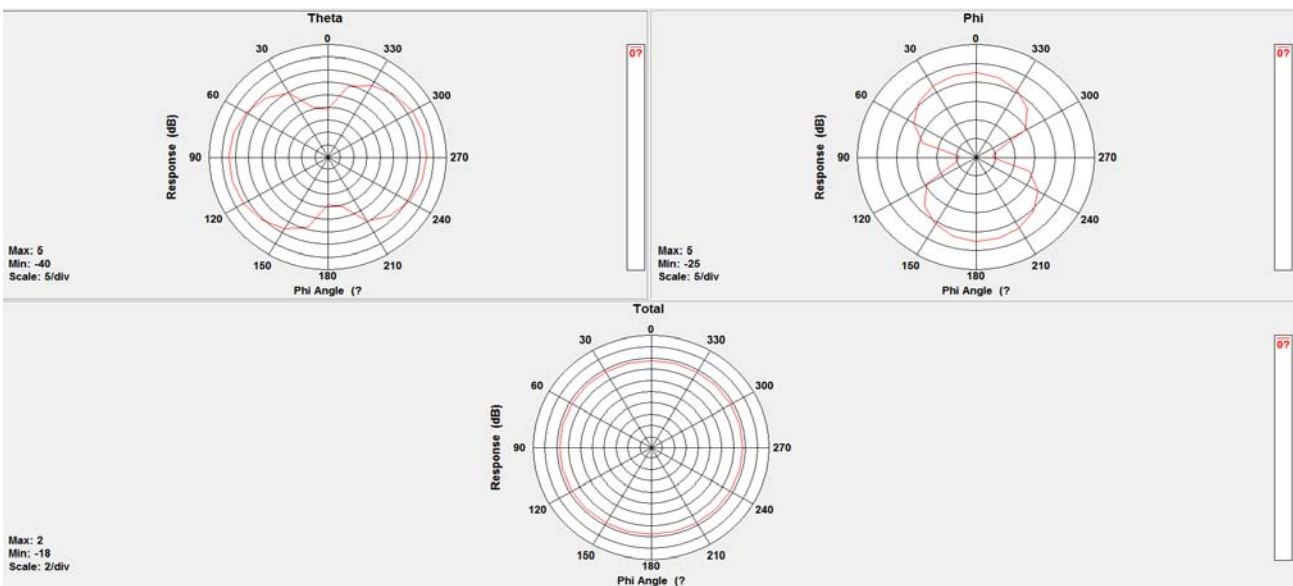
700Mhz:



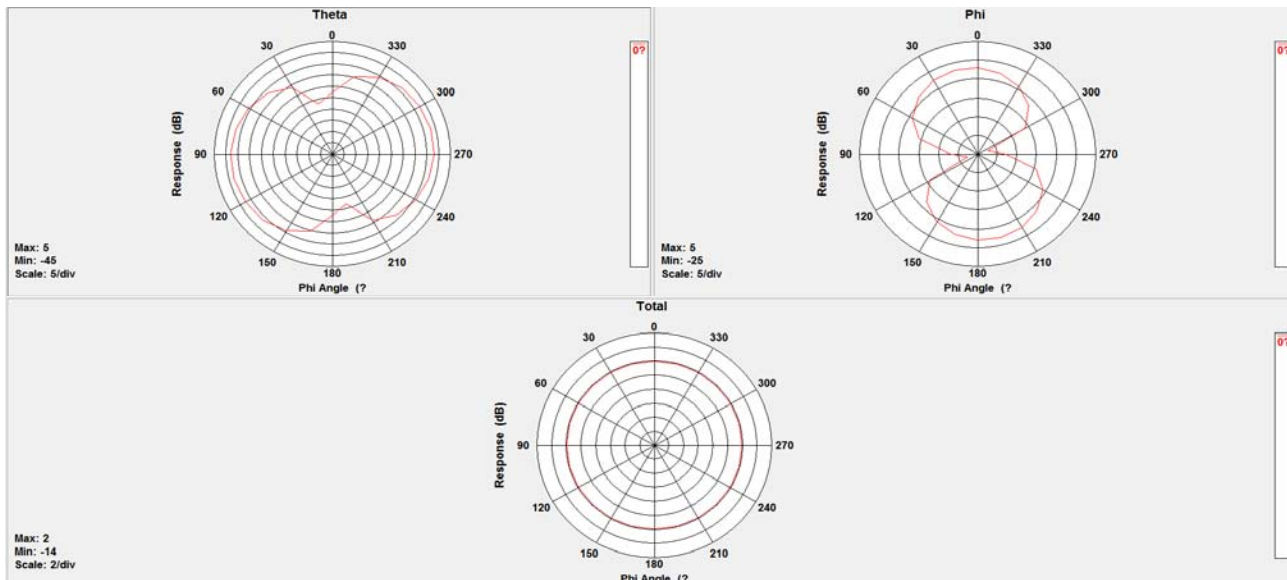
800Mhz:



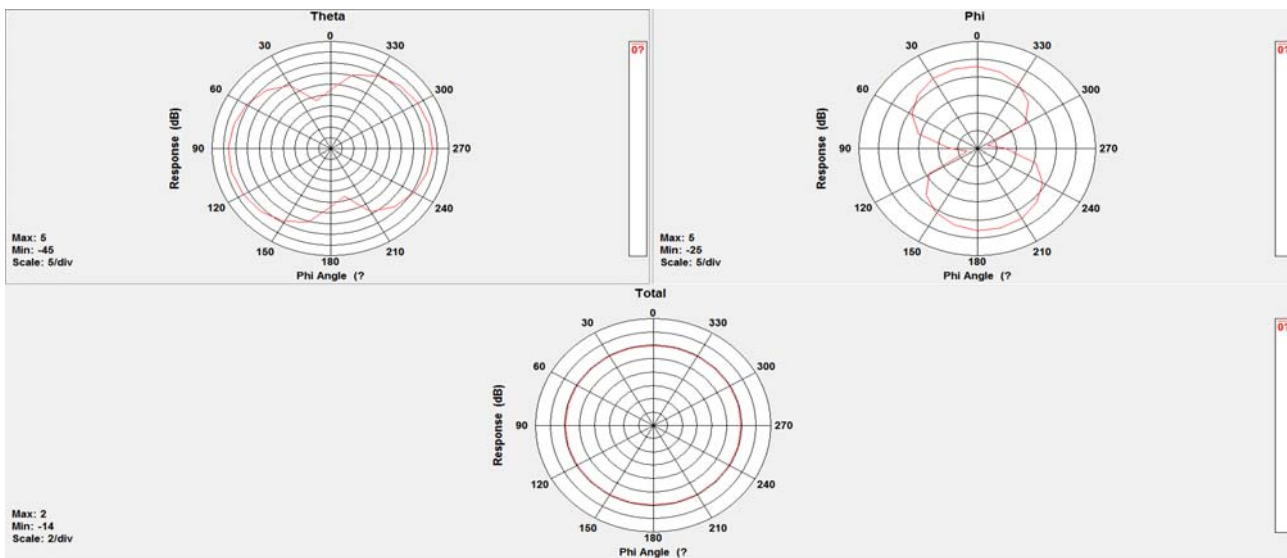
900Mhz:



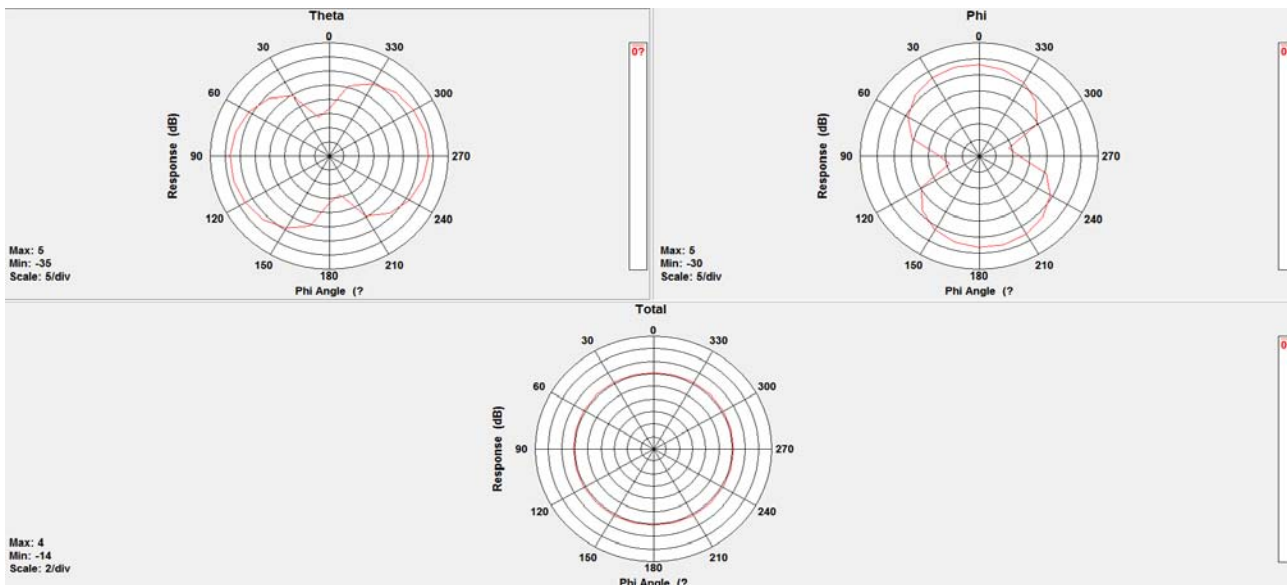
1575Mhz:



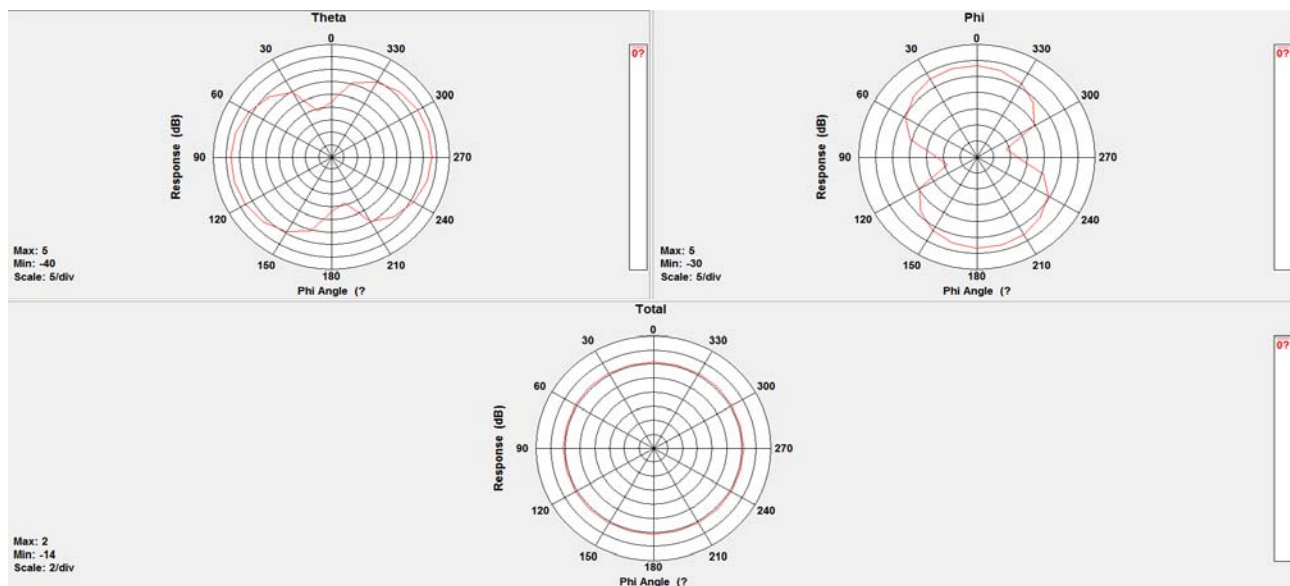
1602Mhz:



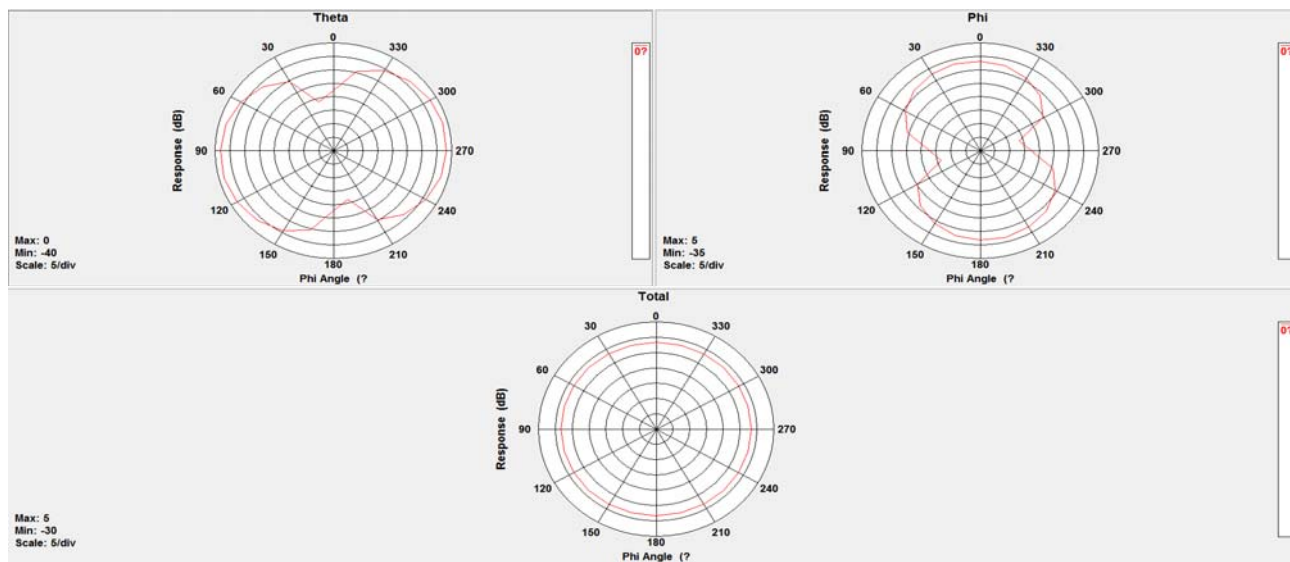
1750Mhz:



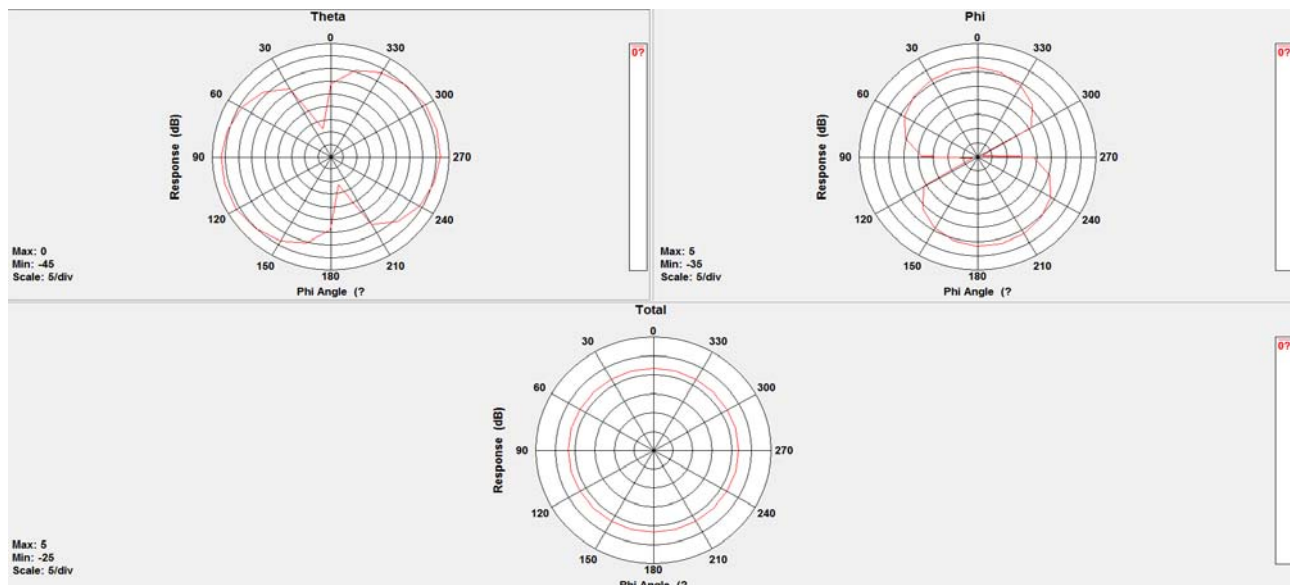
1990Mhz:



2100Mhz:



2200Mhz:



2300Mhz:

