

# LTE/WIMAX Antenna

MODEL: TH-81P



## 1. GENERAL DESCRIPTION

Model No
TH81P-N(M)

Below is a table summarizing the antenna design specification.

### 1.1 Electrical Properties

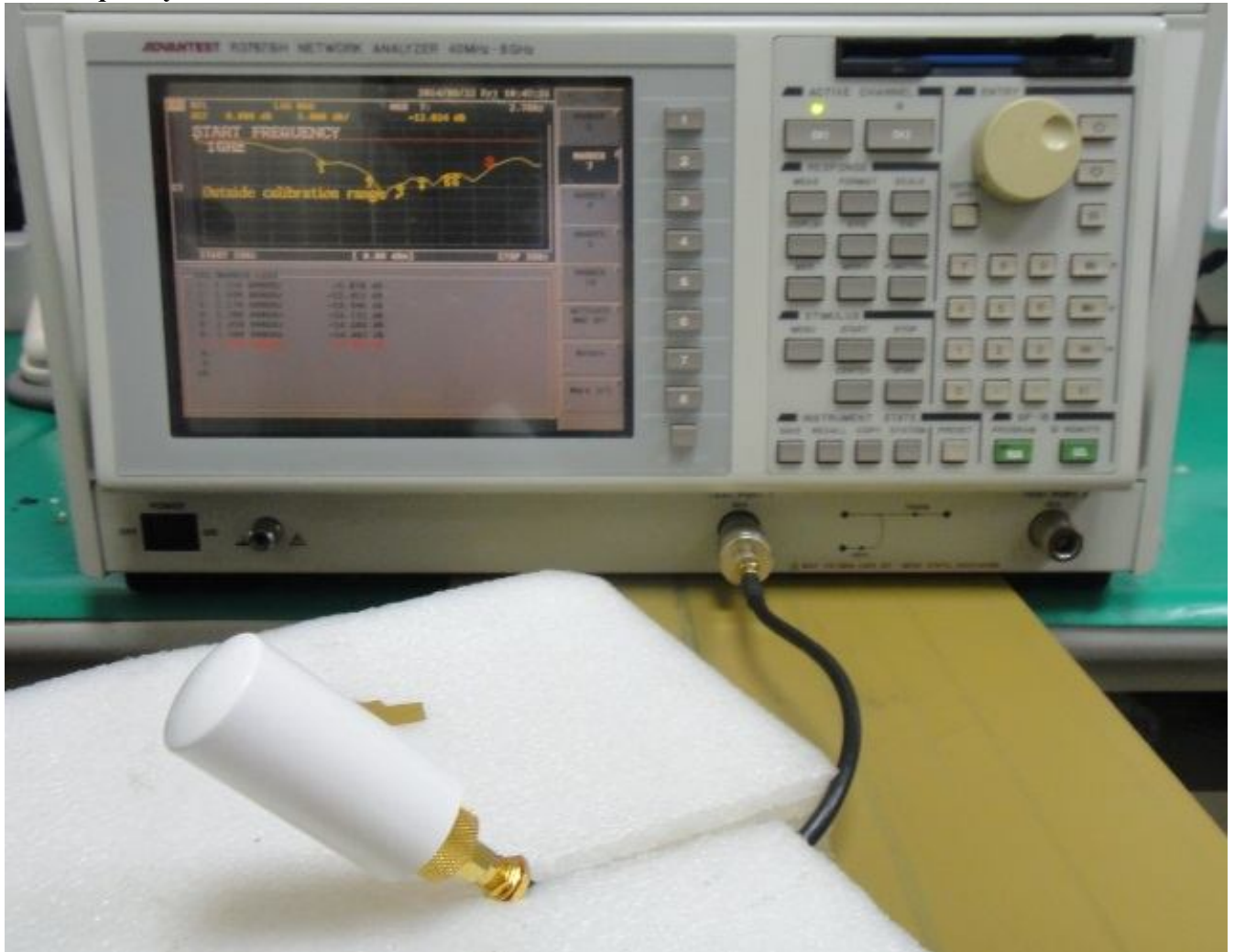
Parameter	Description
Frequency Band	1710~1990/1990~2170/2300~2700 MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0 : 1
Note: Gain includes the cable loss	

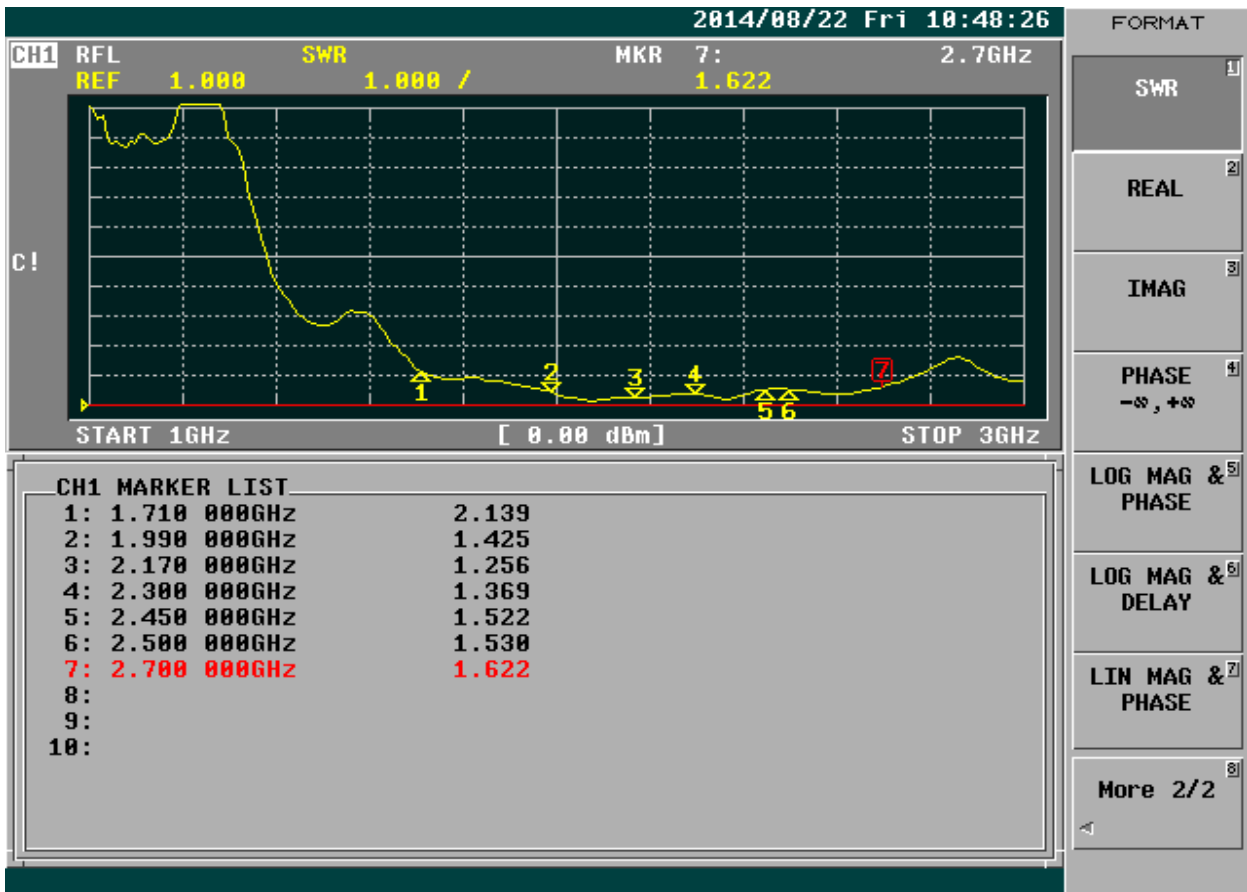
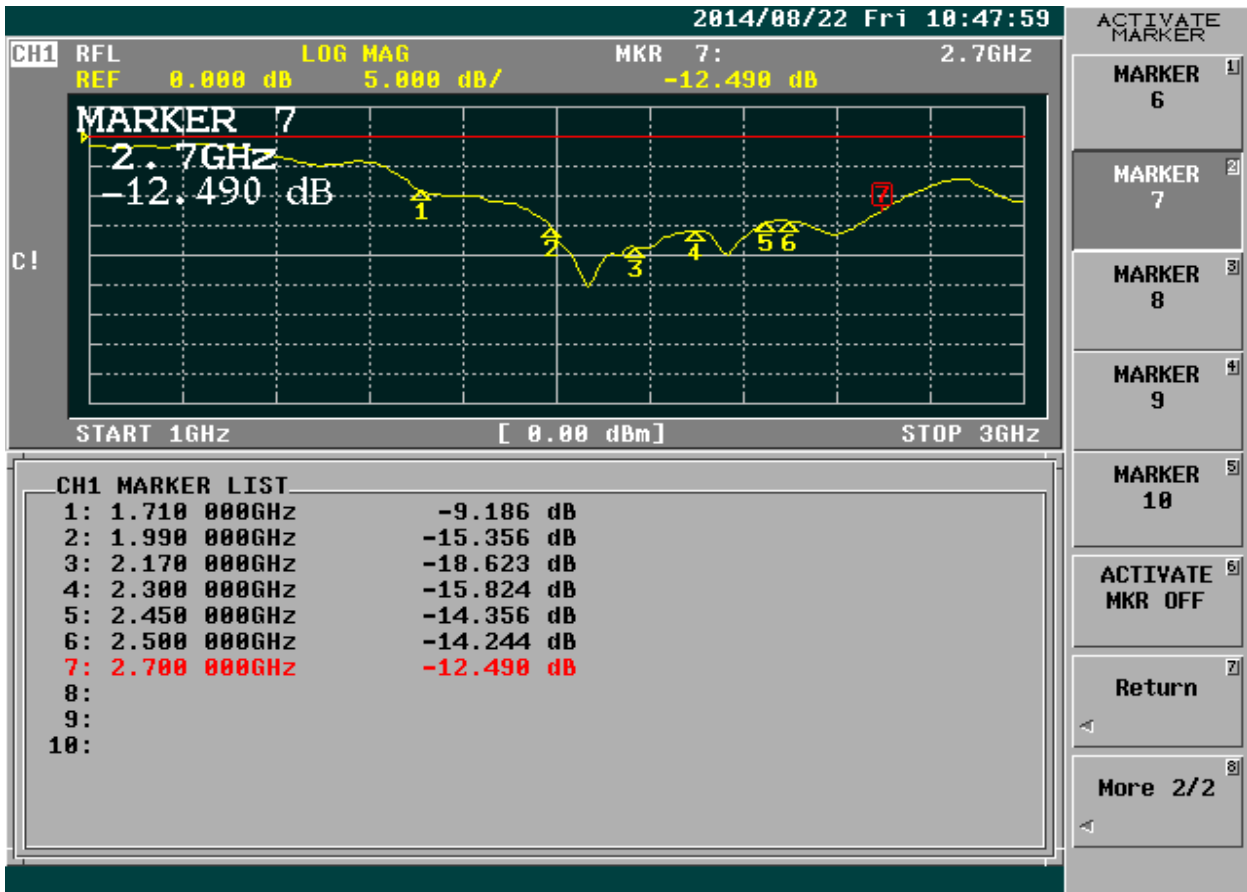
### 1.2 Mechanical Properties

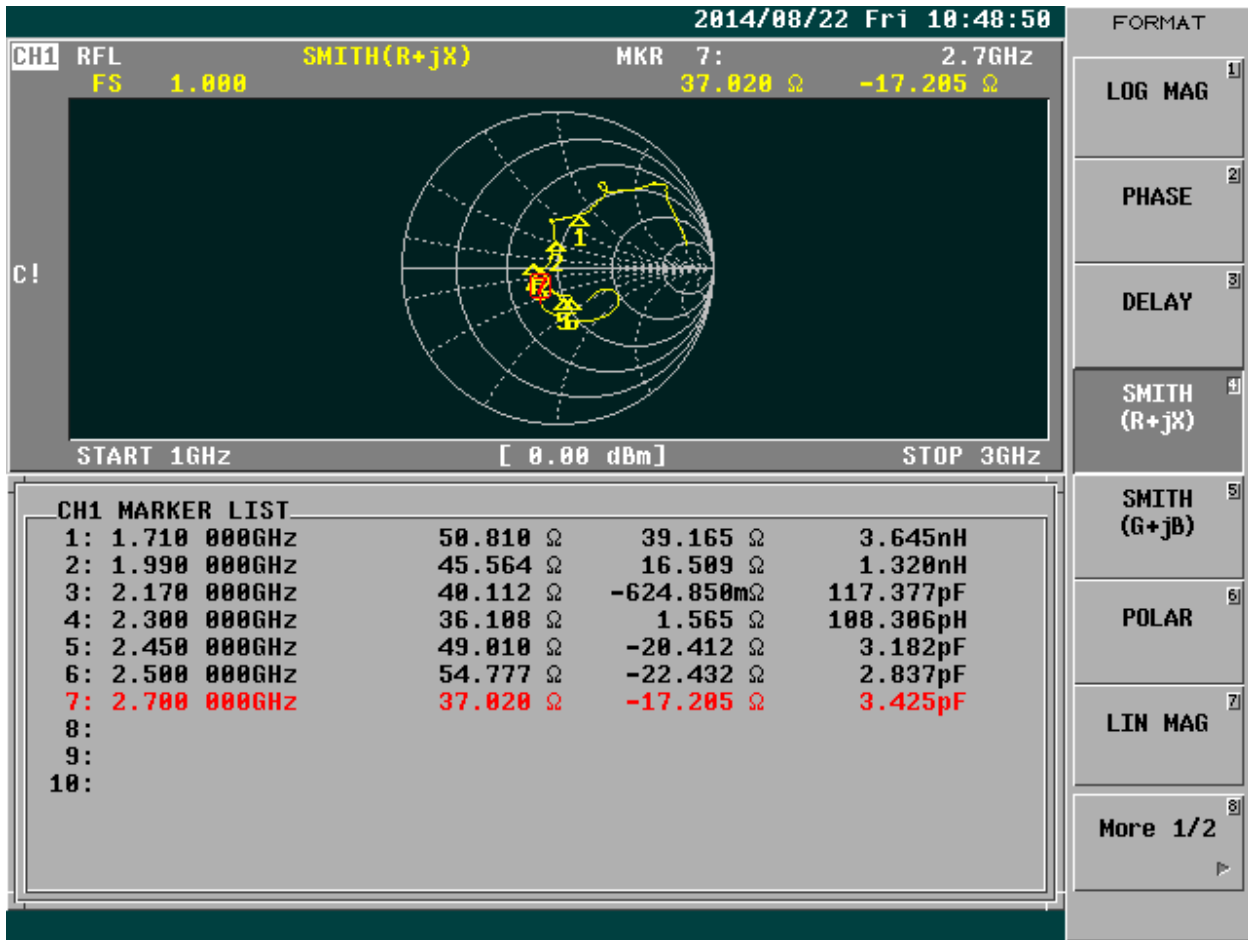
Parameter	Description
Antenna Type	External Antenna
Antenna Material	ABS
Touch Type	Screw Type
Connector Type	N 180°(Male)

Antenna Dimensions	$\Phi 25.6 \times 55\text{mm} \pm 2$
Antenna Color	Black
Operating Temperature Range	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storage Temperature Range	$-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$

## 2. Frequency







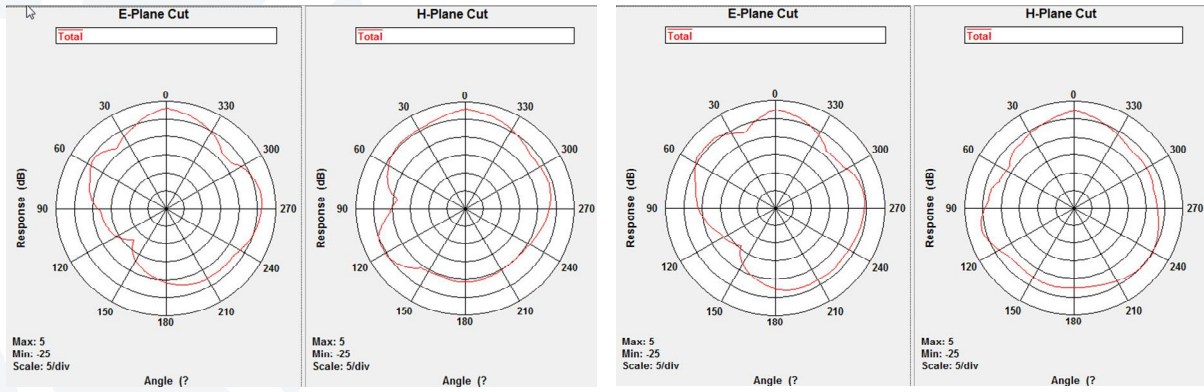
## Test Data(TH81P)



### 1. Test result:

Frequency (MHz)	1710	1990	2170	2300	2400	2500	2700
Average Gain (dBi)	-2.93	-1.81	-1.88	-1.76	-1.93	-1.81	-1.42
Peak Gain (dBi)	2.12	2.88	2.84	3.10	2.49	2.05	2.33
Efficiency (%)	50.93	65.87	64.83	66.68	64.06	65.85	72.19

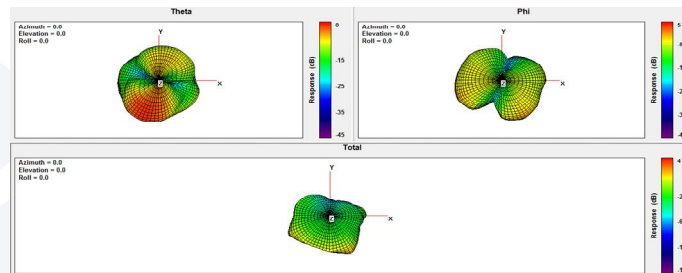
## 2D Radiation Patterns (TH81P)



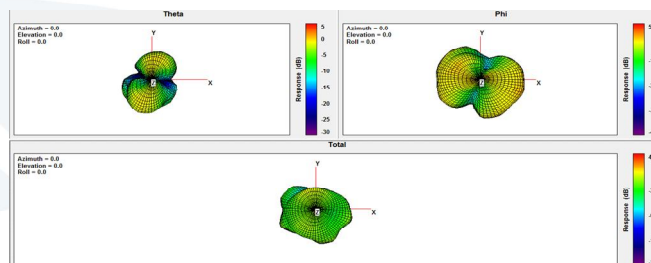
1990MHz

2500MHz

## 3D Radiation Patterns (TH81P-2)



1990MHz



2500MHz