

## **CW-GPS-0007**

**1575.42/1602MHz Ceramic antenna**

### **Key Features**

Frequency: 1575.42/1602MHz

SMA Male Connector

Dimensions: 15\*15\*4mm



## 1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	1575.42MHz	1602MHz
VSWR	3:1	3.5:1
Efficiency (%)	21.1%	20.03%
Peak Gain (dBi)	-2.48	-2.32
LNA Specification		
Gain(dbi)	16.53	15.93
NF(db)	2.43	2.59
Impedance (Ohm)	50	
Polarisation	RHCP	
Max. Input Power (W)	2.5-5	
Connector Type	SMA male	

## 2. Material and environmental characteristics

Material of PCB	FR4
Material of Plastic	N/A
Cable Type	RG174
Connector Type	SMA male
Dimensions (mm)	15*15*4mm
Antenna color	N/A
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

## 4. Antenna test parameters

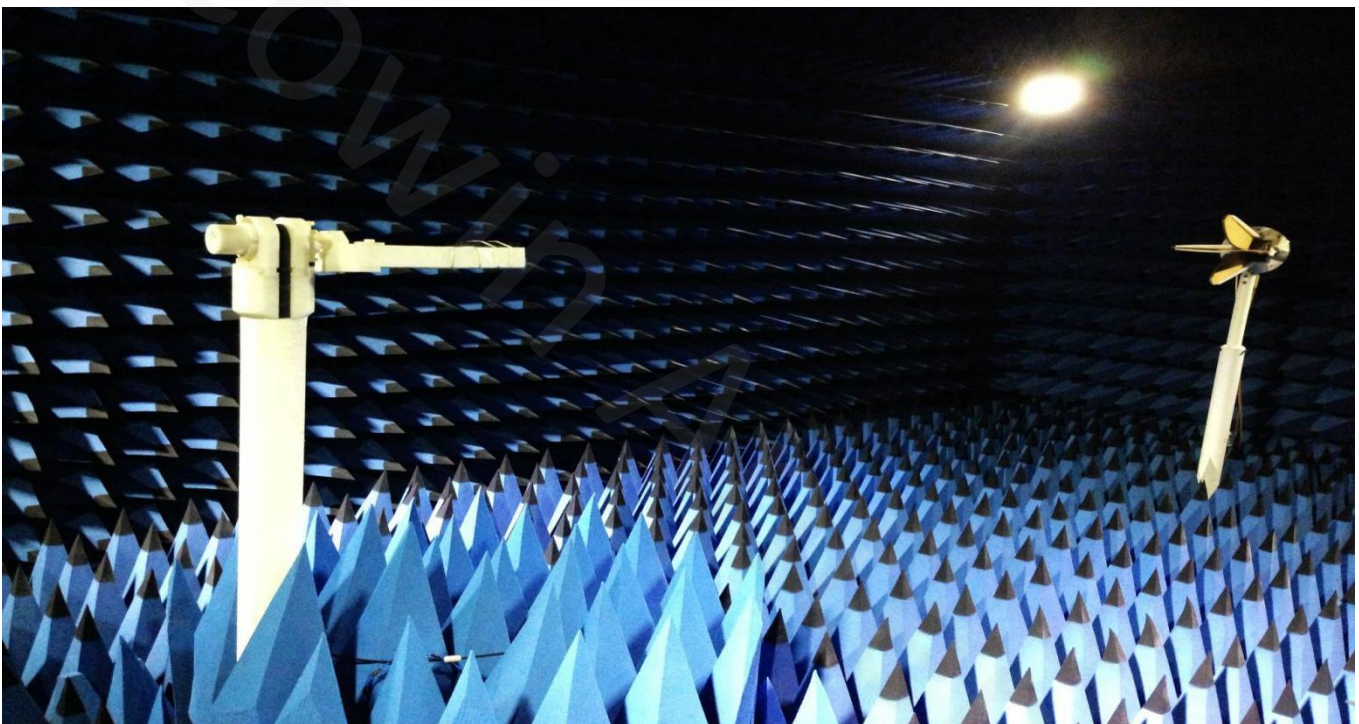
**Antenna Measurement Conditions:**

Mounted on Ground Plane of 280 x 80 mm

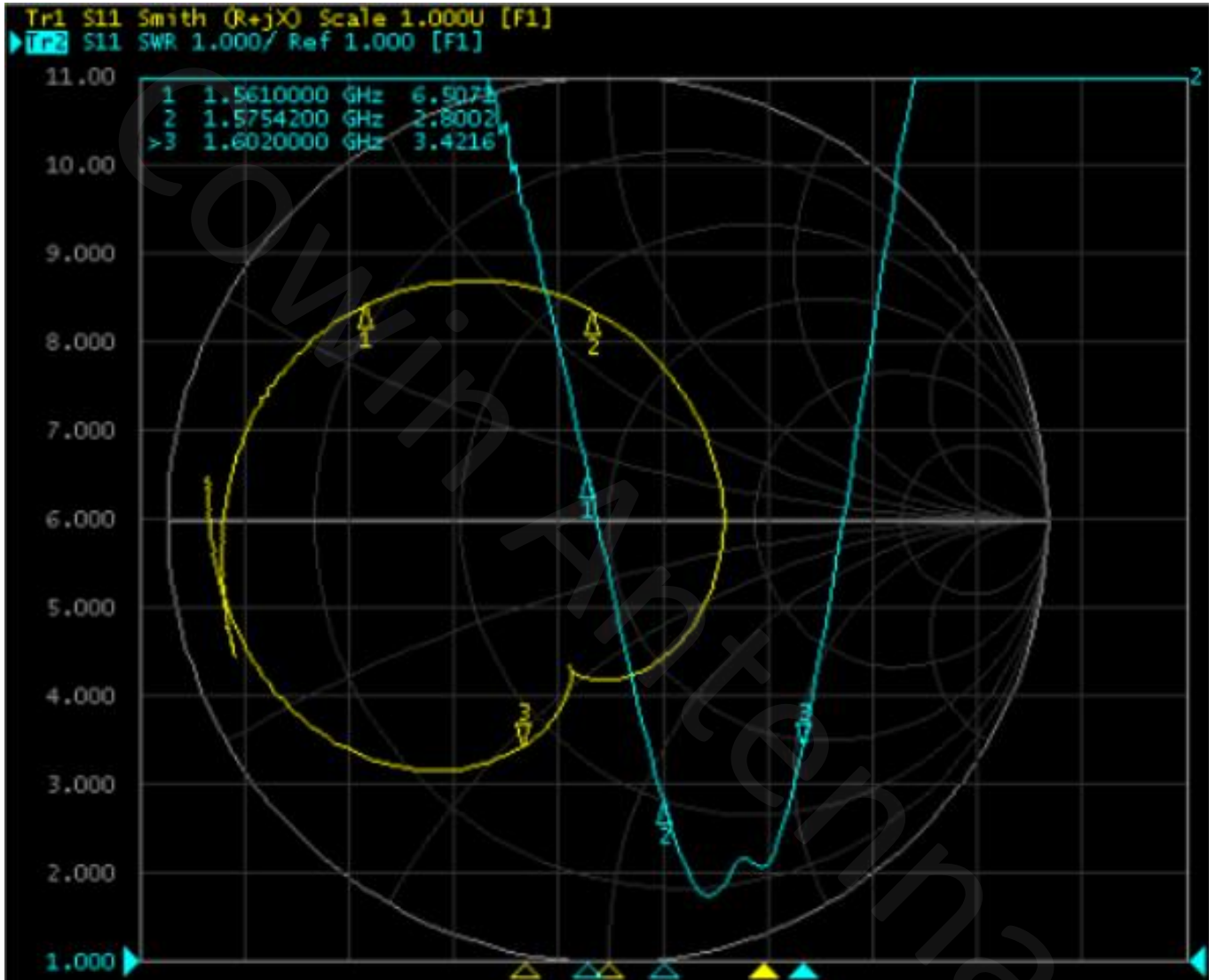
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

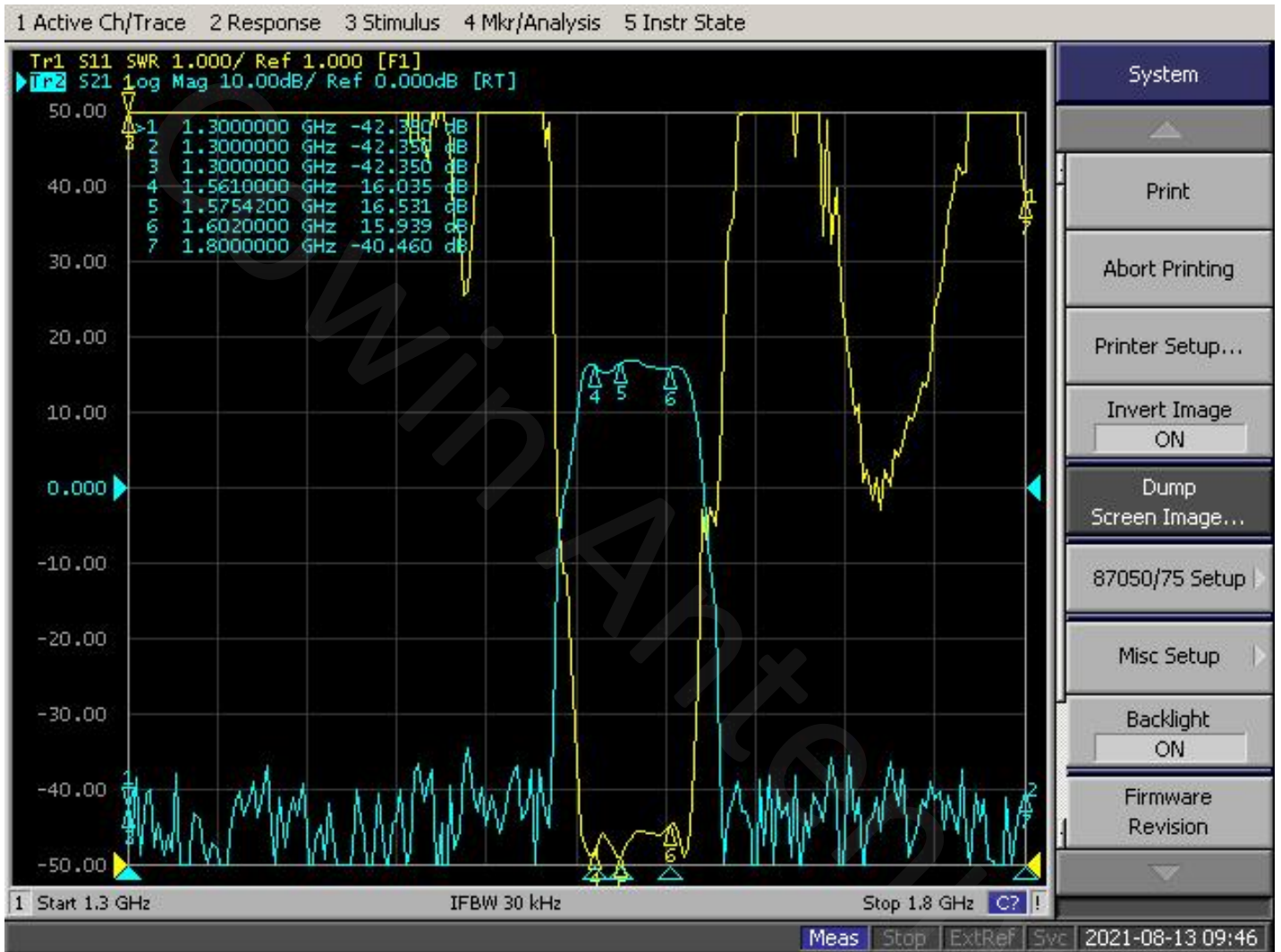
The comprehensive tester is Agilent cmv500



## 4.1 VSWR



## 4.2 LNA IN-Band S21

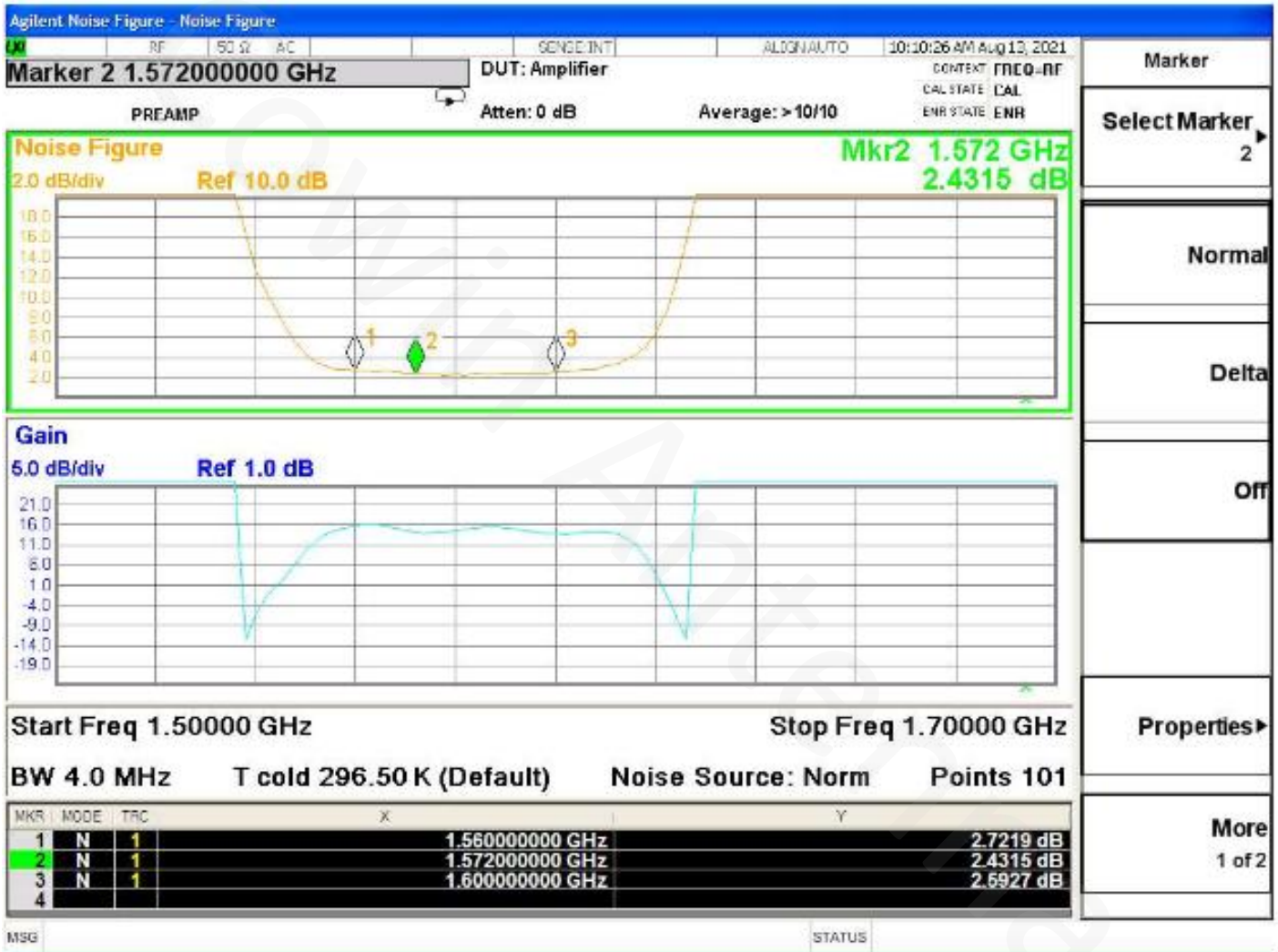


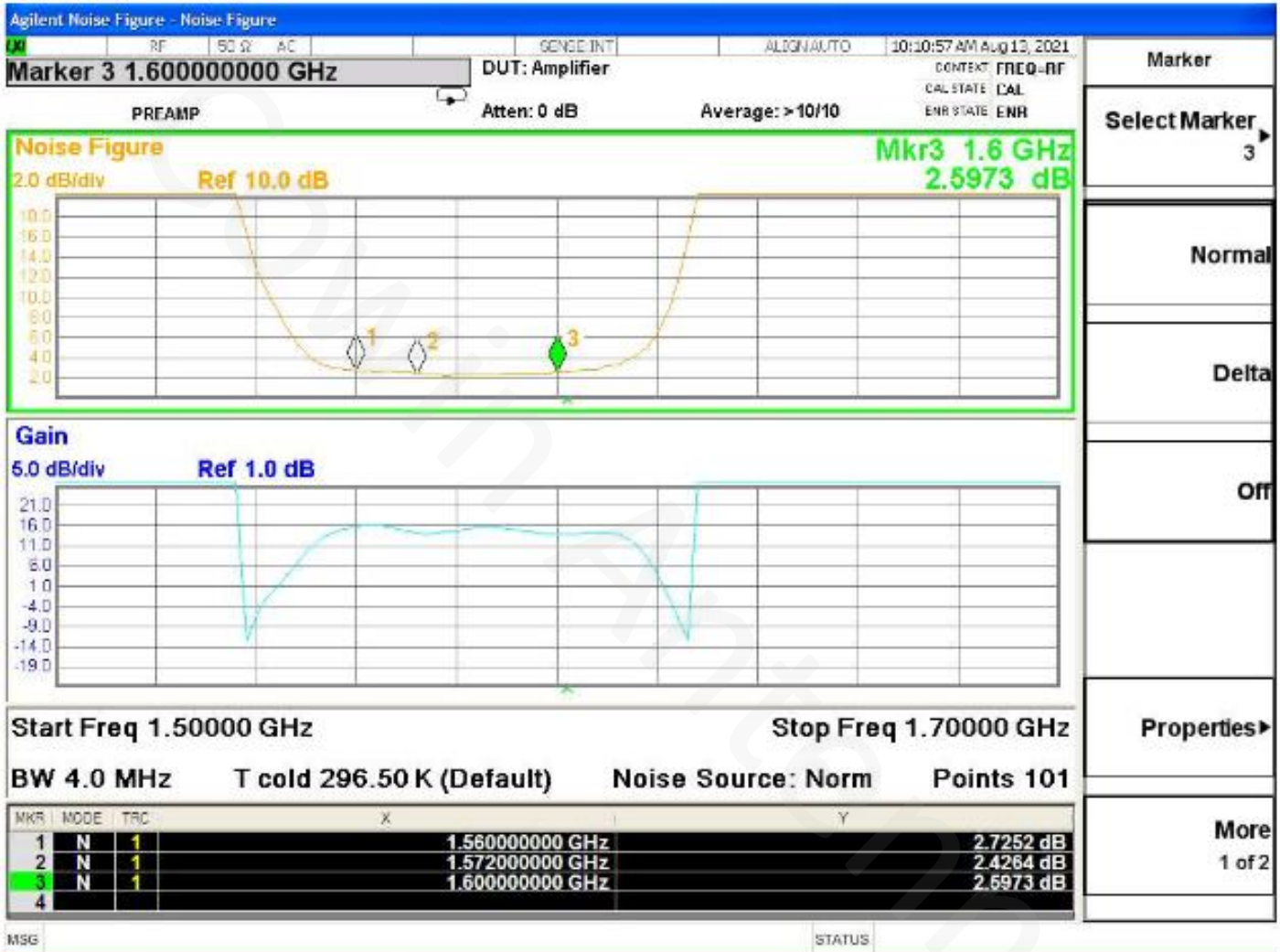


## 4.3 LNA Wideband S21



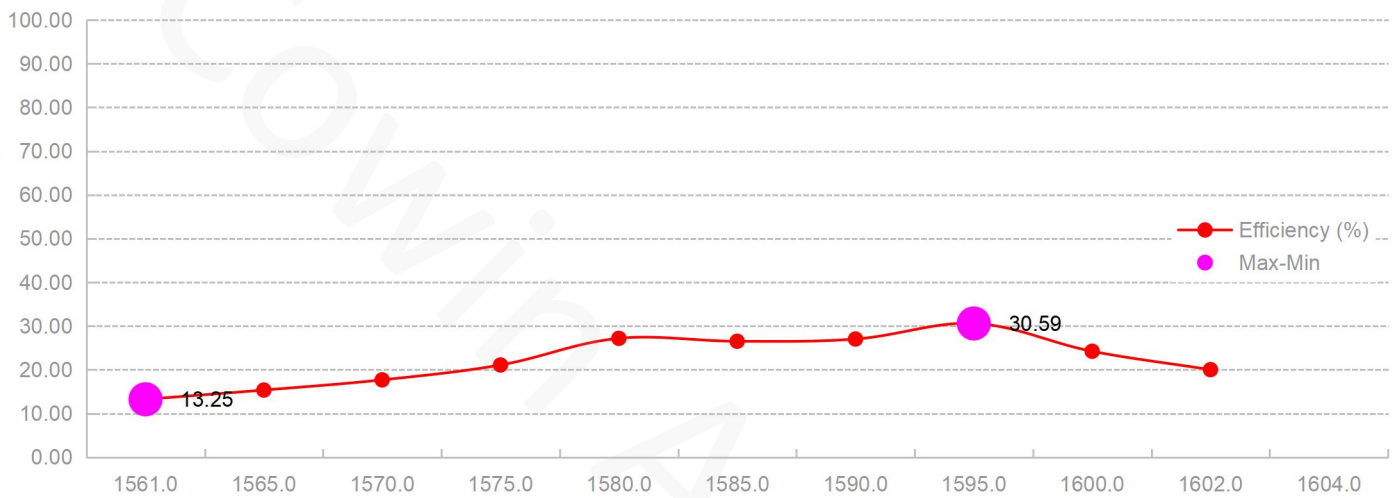
## 4.4 Noise figure @ 3.0V



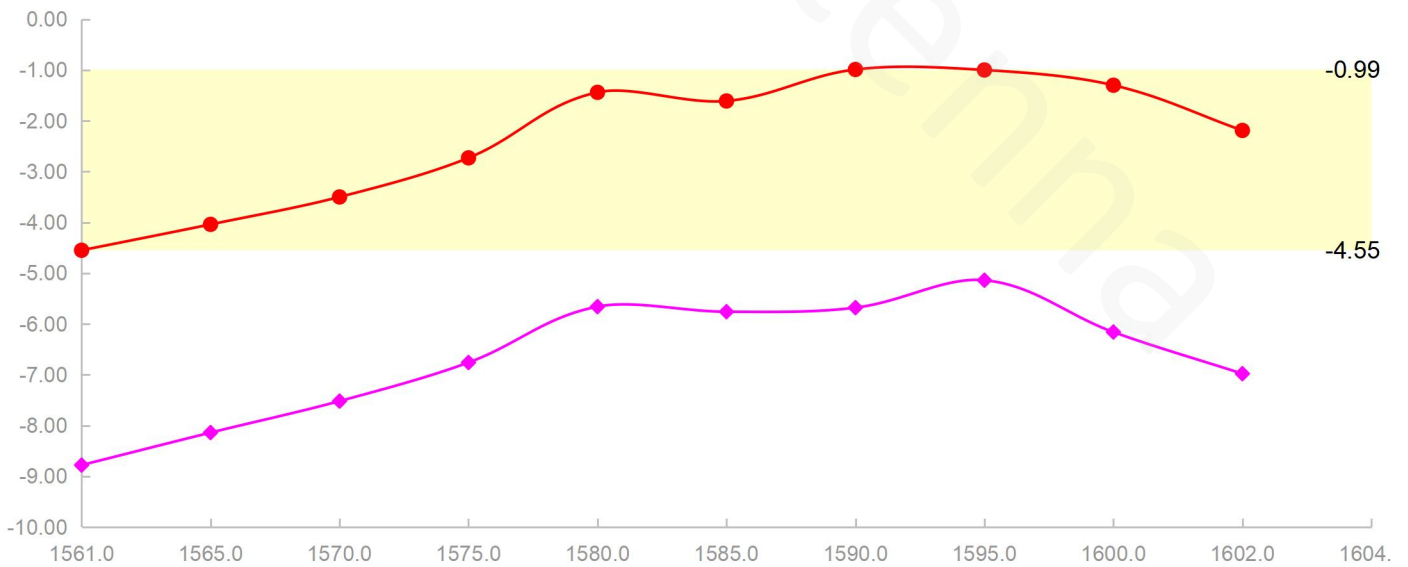




## 4.5 passive Efficiency(%)



## 4.6 passive Peak Gain(dbi)



## 4.7 2D Radiation Patterns

