

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

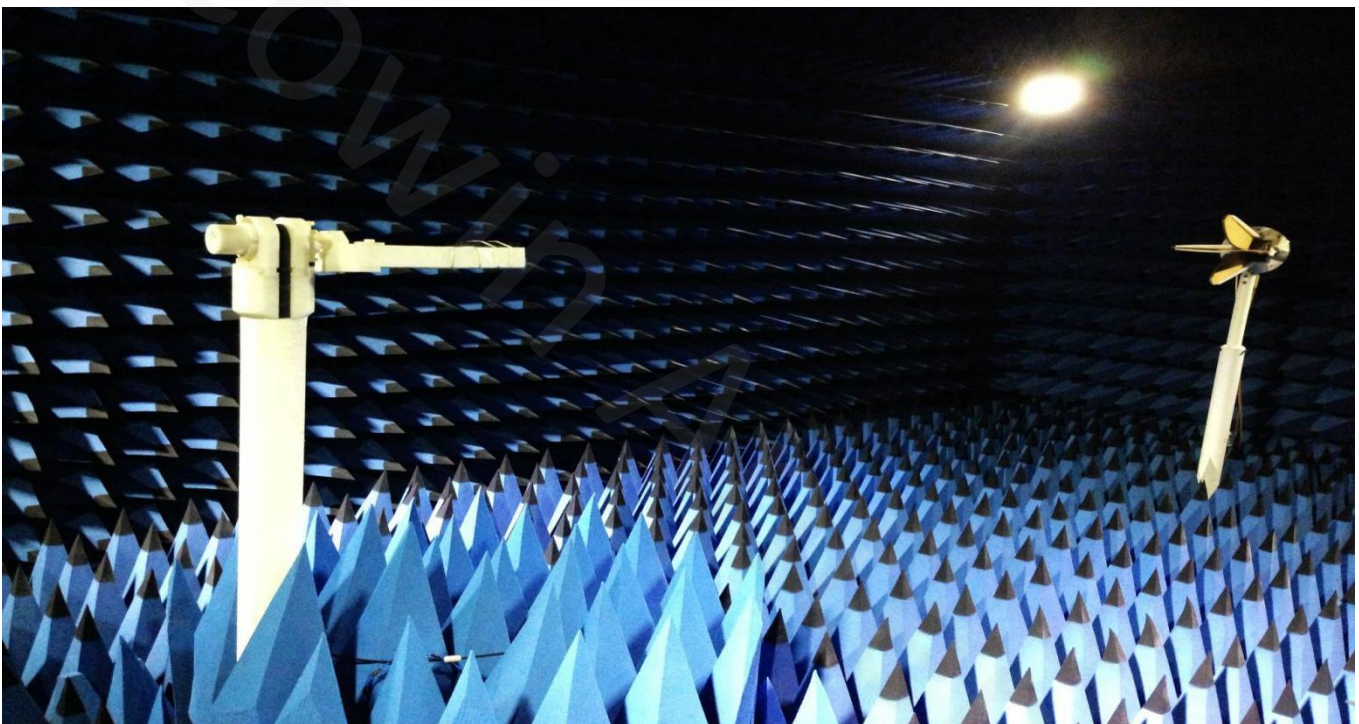
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

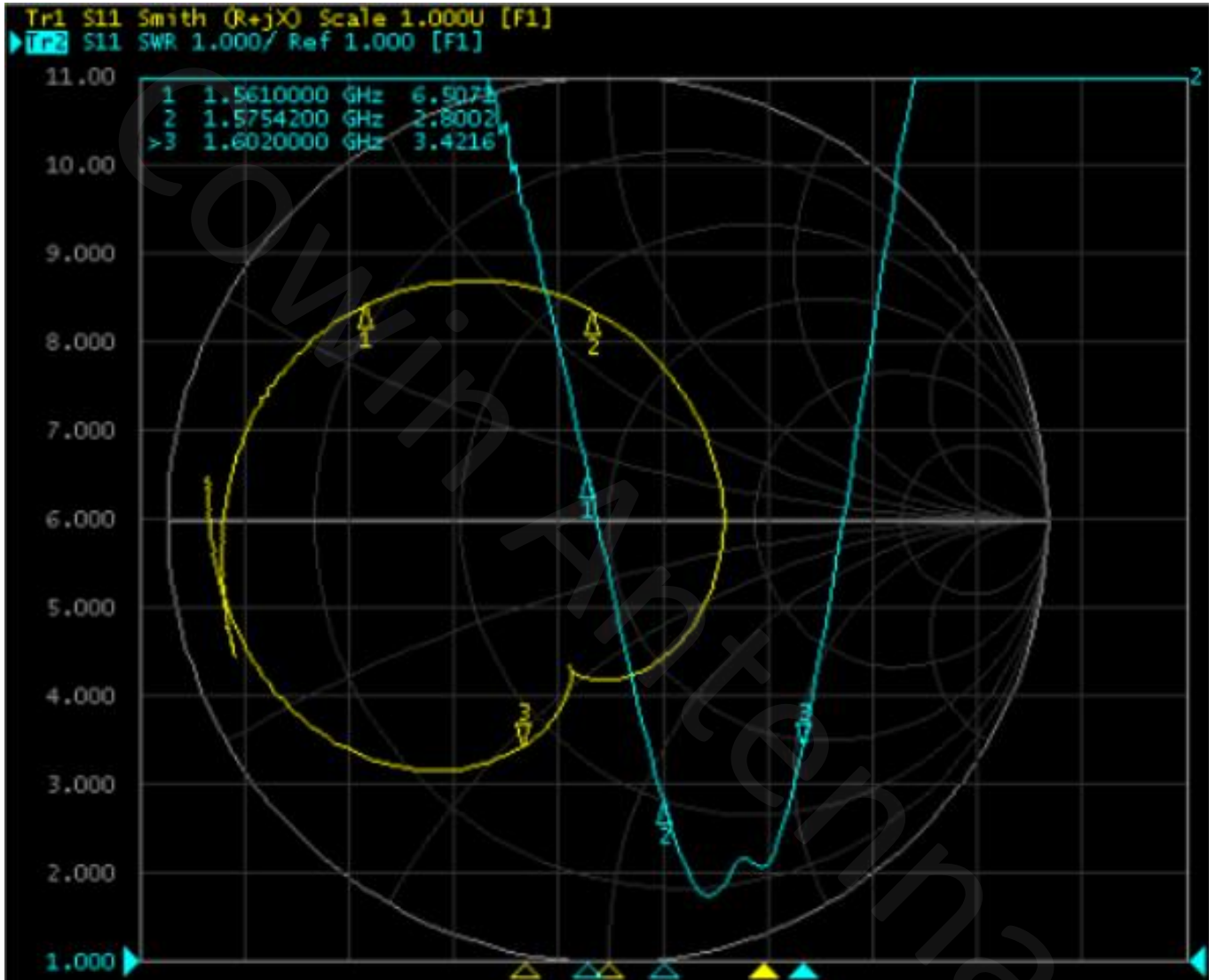
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

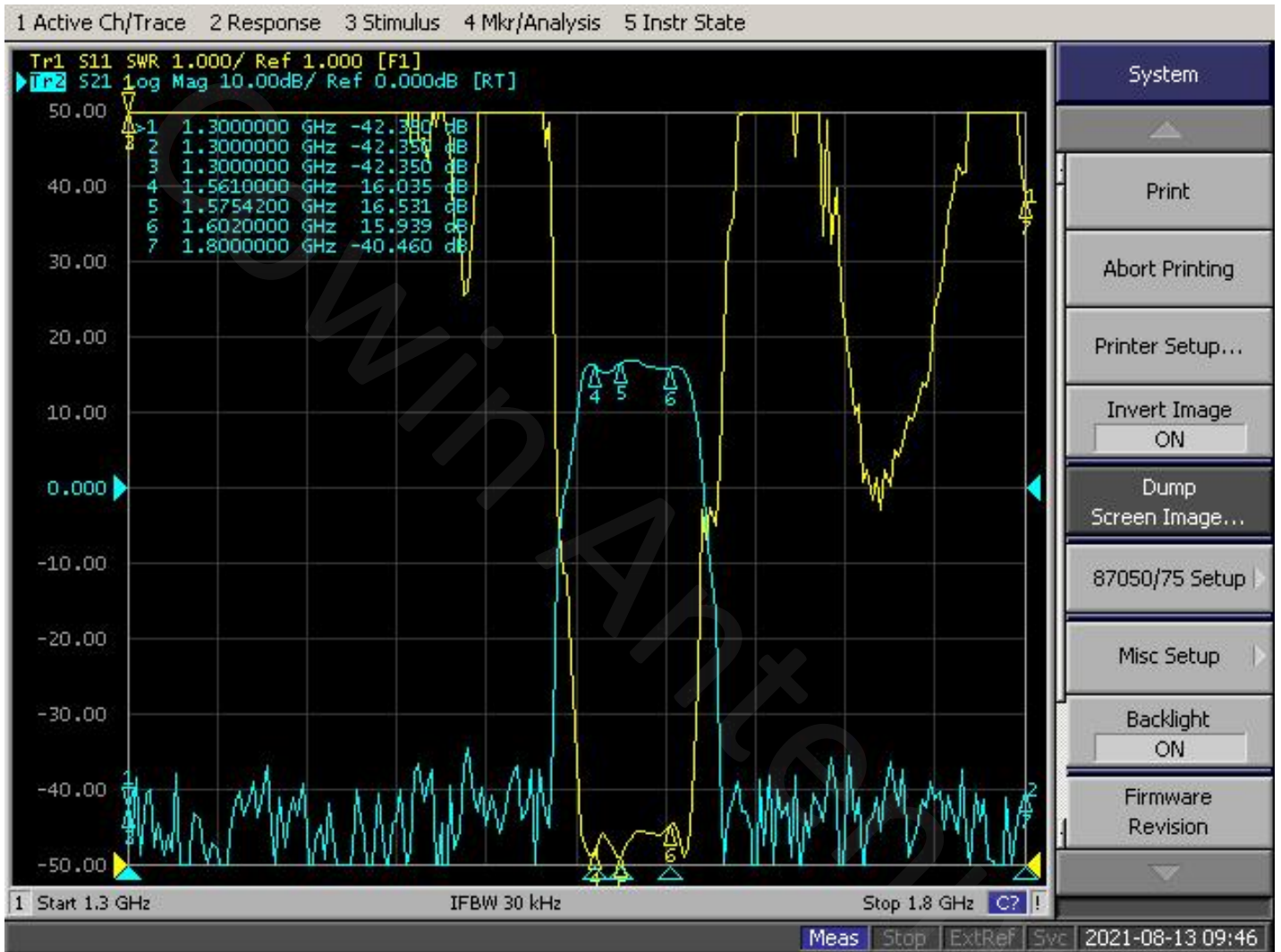
The comprehensive tester is Agilent cmv500



4.1 VSWR



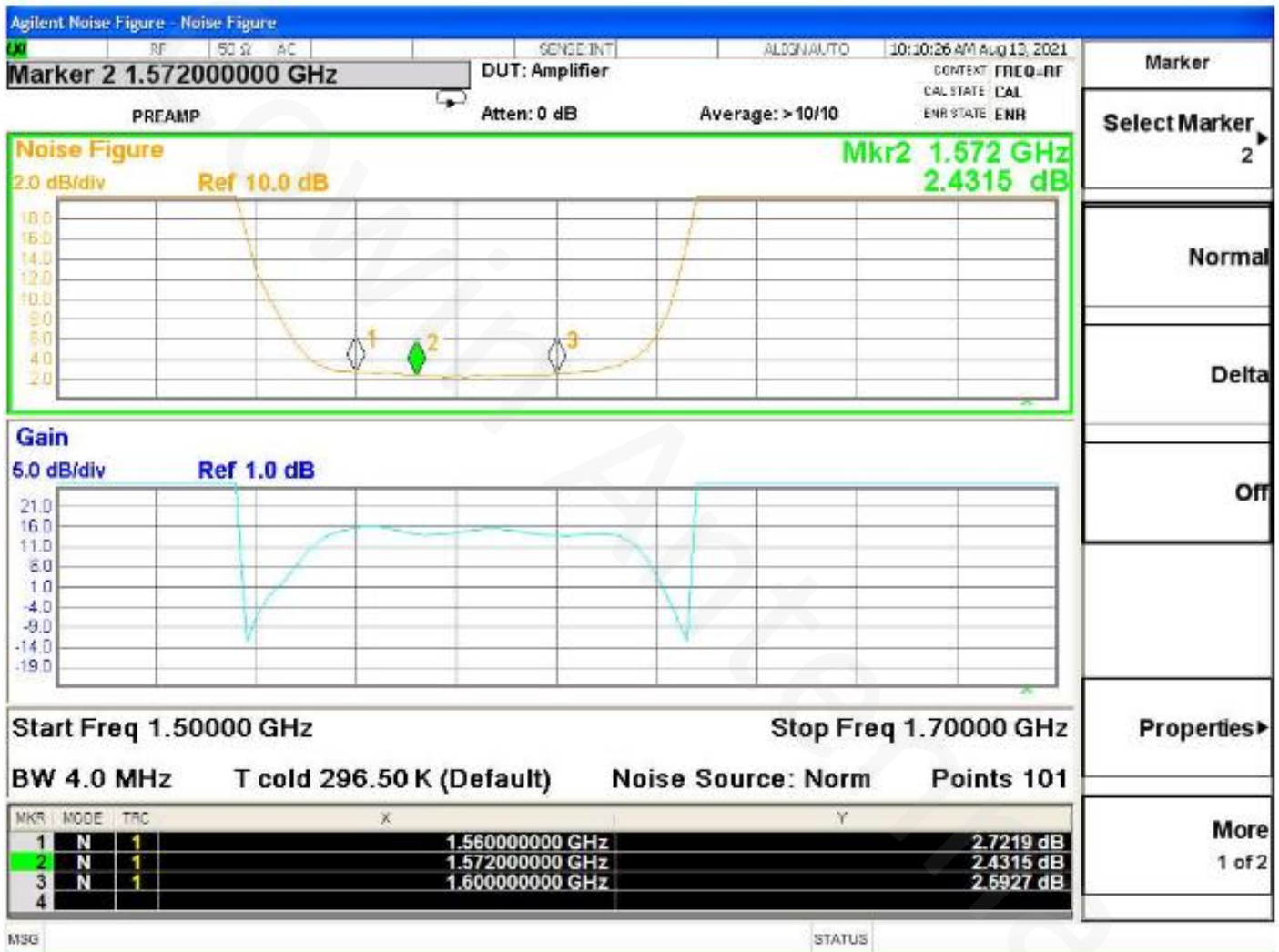
4.2 LNA IN-Band S21

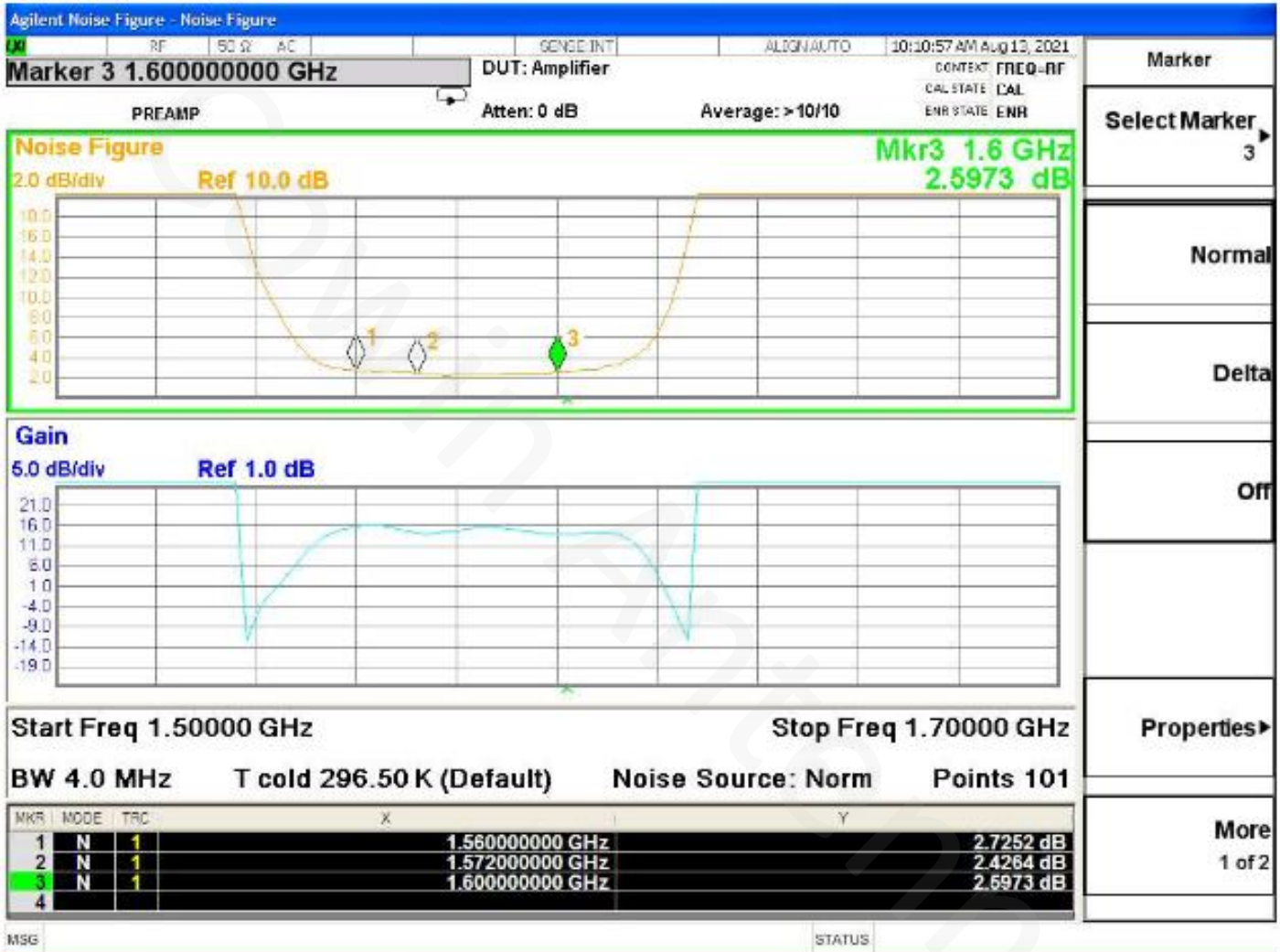


4.3 LNA Wideband S21

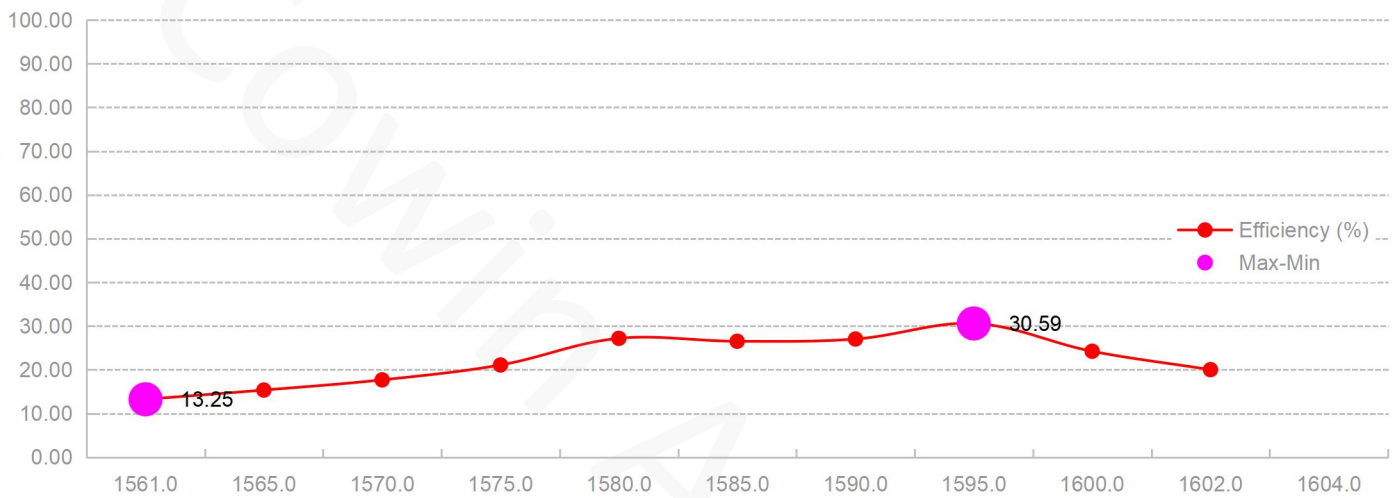


4.4 Noise figure @ 3.0V

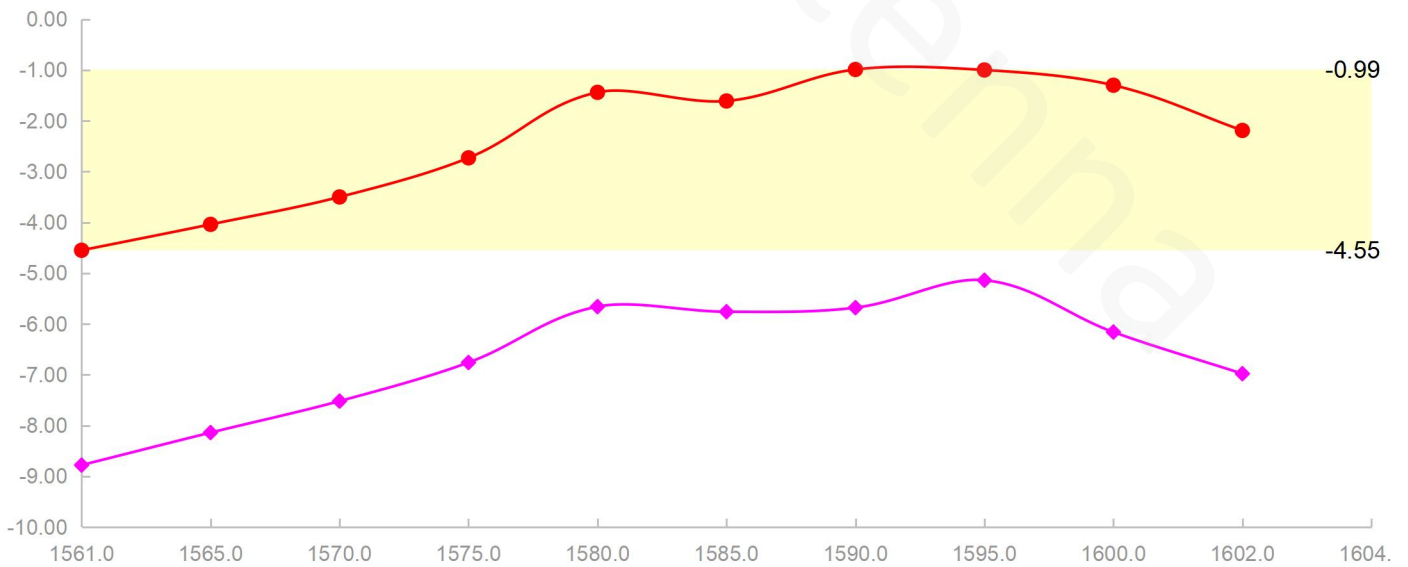




4.5 passive Efficiency(%)



4.6 passive Peak Gain(dbi)



4.7 2D Radiation Patterns

