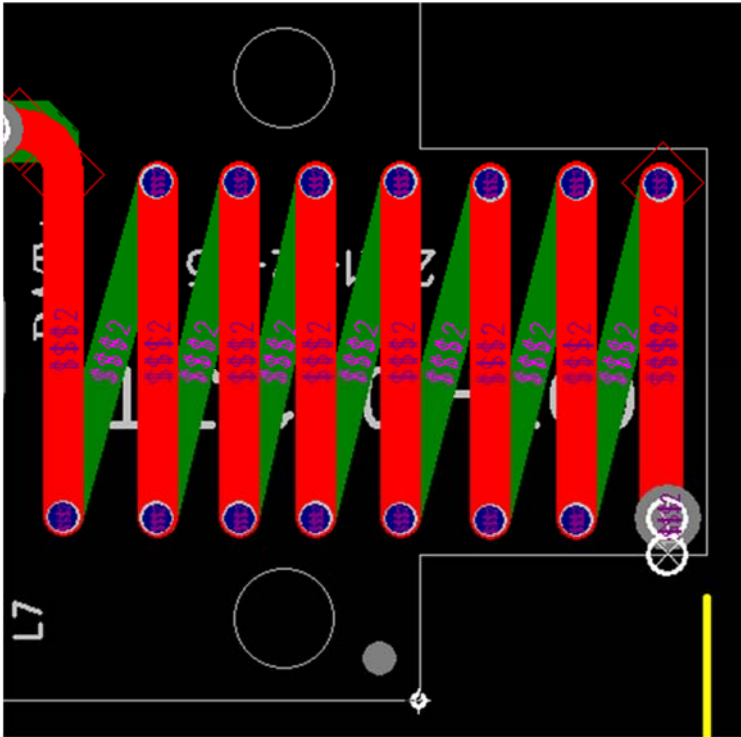


JBU GLOBAL LLC

Project	Illuminato Q4 Microphone
Antenna Revision	A1
Product Description	PCB Antenna
DATE	2022. 10. 1

Product Overview & Dimension

Front



580-608MHZ

Purpose

This report is to measure the performance of BT antenna for **Illuminato Q4** **Microphone** e antenna operating frequency at 580-608MHz, All test data are shown as below.

Content

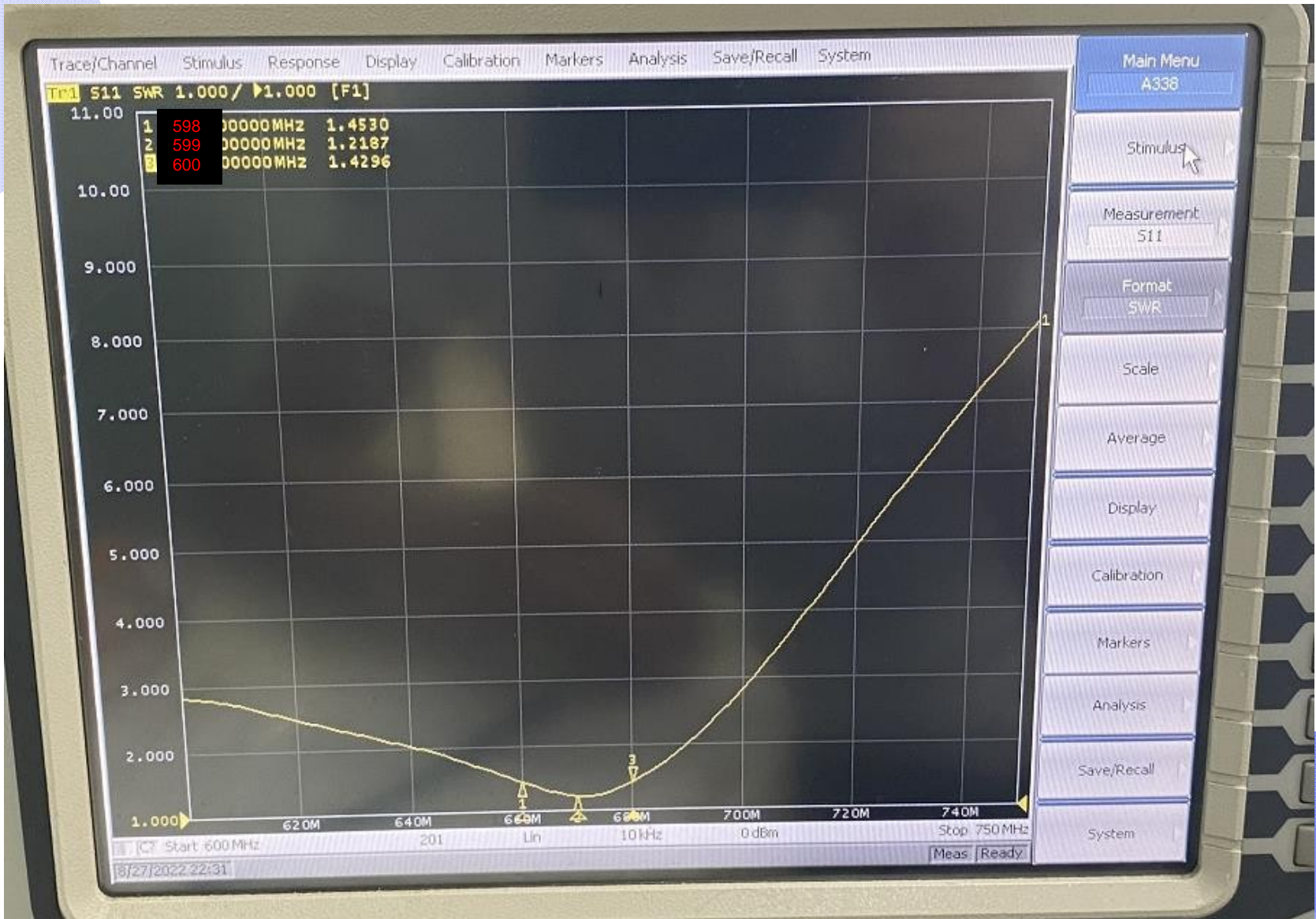
1. Product Over view & Dimension
2. Test system
- 3 .Antenna Matching Network
- 4 Test Result
 - 4.1 S 11
 - Parameter 4 . 2 Test
 - coordinate 4 . 3 2 D
 - Pattern
- 5 .Antenna Assembly & environmental processing

2. Test System

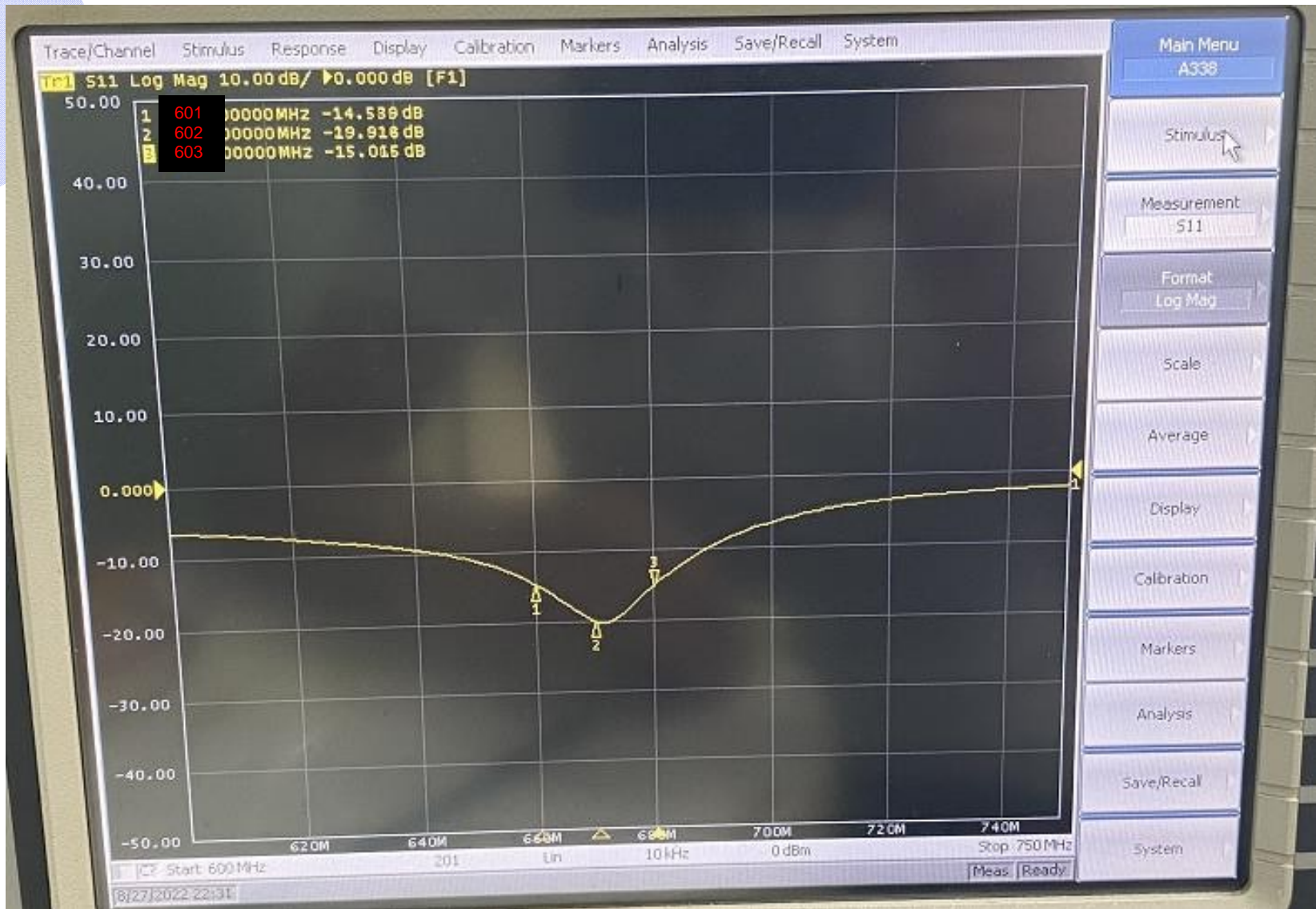
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



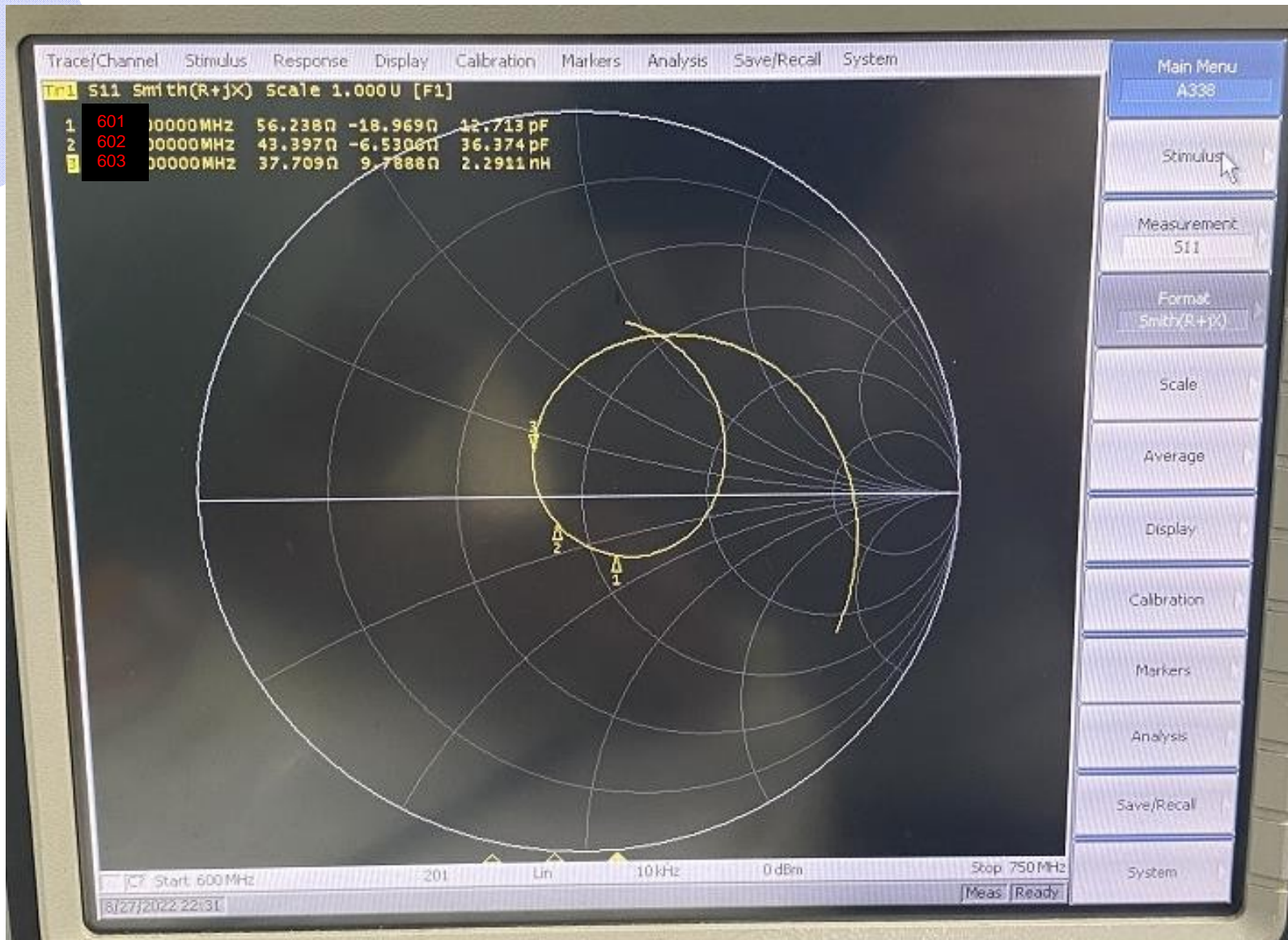
S11 SWR

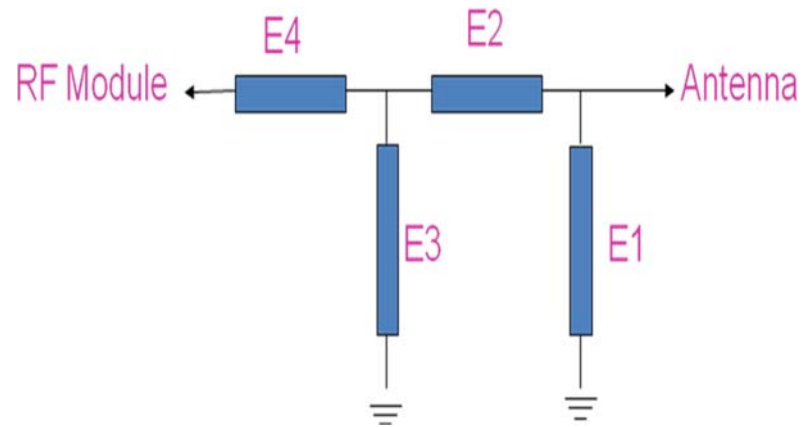


S11 Log Mag



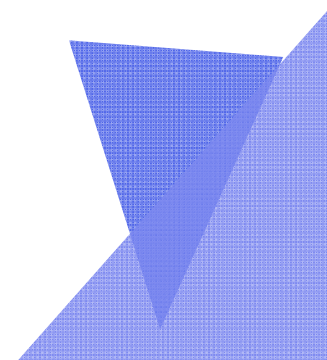
S11 Smith (R+jX)





E1	NC	Murata	
E2	C=15NH/0402/Murata	Murata	$\pm 0.1\text{NH}$
E3	C=0.5PF/0402/Murata	Murata	$\pm 0.1\text{PF}$

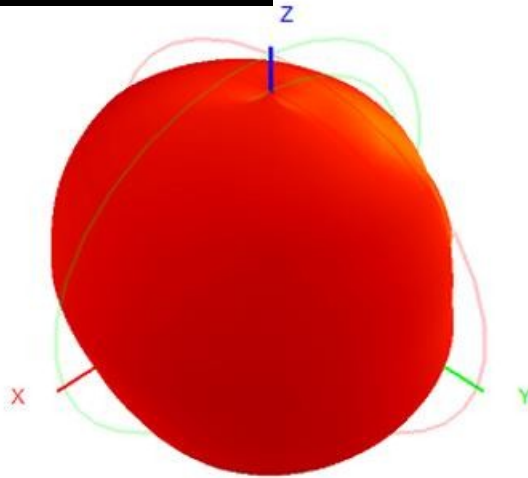
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
601	29.89	0.94
602	30.42	1.03
603	30.92	1.08



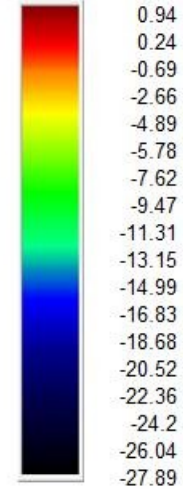
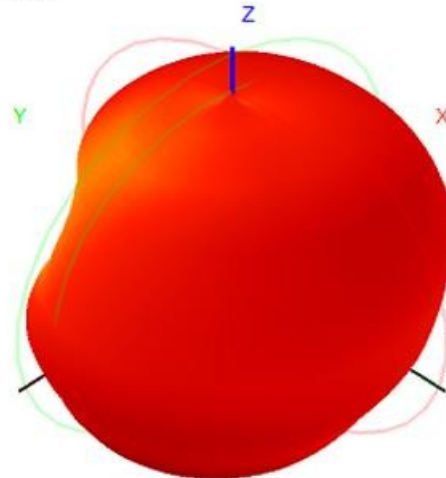
Test Result

2D&3D—580-608MHz - ANT

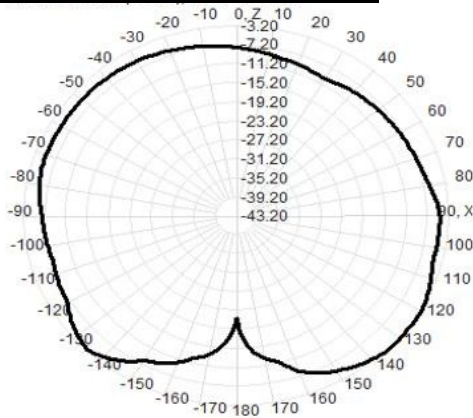
598MHz H+V.Eff,29.89%



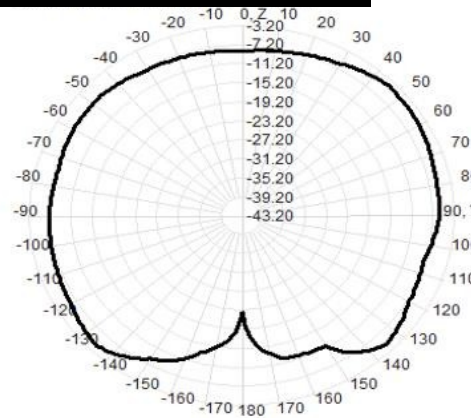
Back View



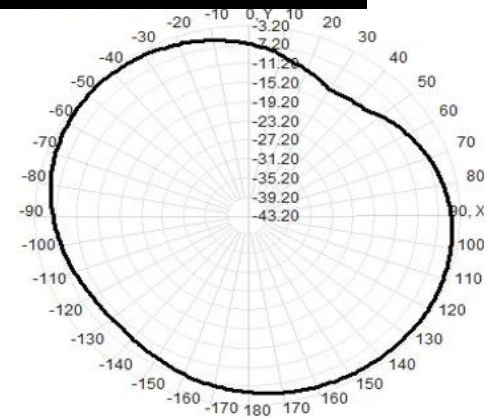
598.MHZ Total(E1-XZ),Max=-3.20dBi



598.MHZ Total(E2-XZ),Max=-4.45dBi



Total(H-XY),Max=-3.94dBi,CirD=8.73



Test Result

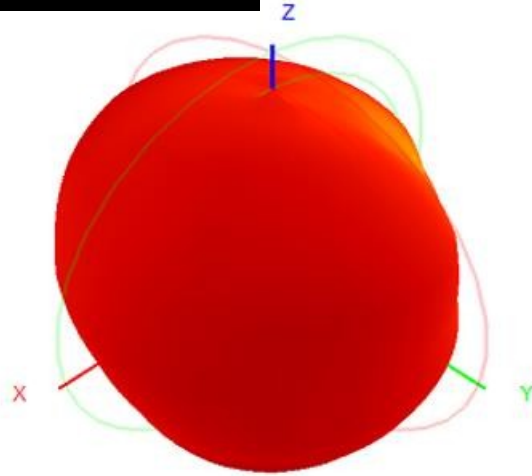
Gain & Efficiency — **580-608MHz- ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
598	34.65	1.34
599	34.85	1.33
600	35.16	1.19
601	34.50	1.18
602	35.81	1.24
603	35.74	1.09

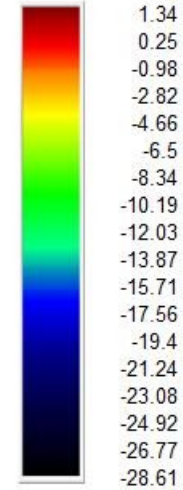
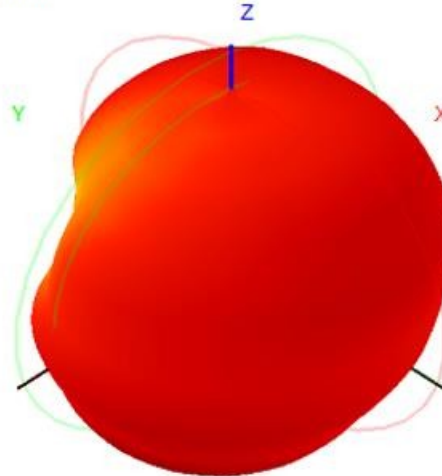
Test Result

2D&3D—580-608MHz - ANT

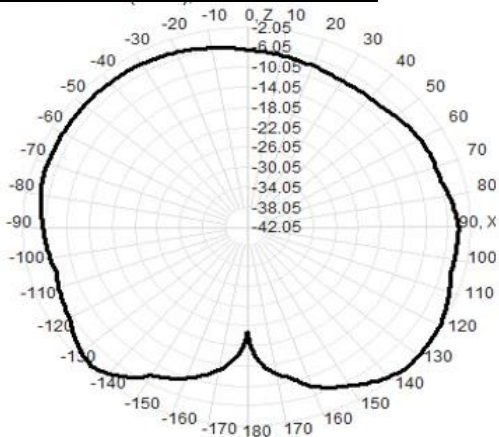
601.MHZ H+V, Eff.34.65%



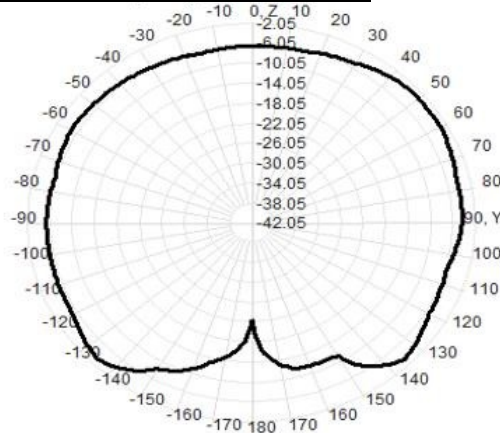
Back View



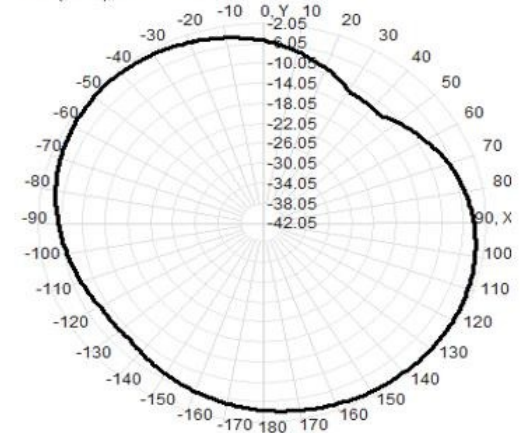
601.MHZ Total(E1-XZ),Max=-2.05dBi



601.MHZ Total(E2-YZ),Max=-3.34dBi



Total(H-XY),Max=-2.78dBi,CirD=9.22



Thanks for your comment!
