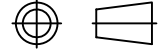


Electrical Properties	
Frequency Range	600~3800MHz
Impedance	50 Ω
V.S.W.R.	≤3.0
Radiation	Omni
Gain	5dbi
Polarization	Vertical
Mechanical Properties	
Whip	ABS
Standard Connector	SMA(Male)
Weight	- g(est)
Operating Temp	-40°~ +80°

BOM

NO	Name	Material	Finish	QTY
1	Top	ABS	BLACK	1
2	Bottom	ABS	BLACK	1
3	RG 178 Coaxial cable	FEP	Brown	1
4	SMA Male	Brass	NI	1
5	SMA COVER	POM	BLACK	1
6	PCB Antenna	FR4	BLACK	1

THIRD ANGLE PROJECTION



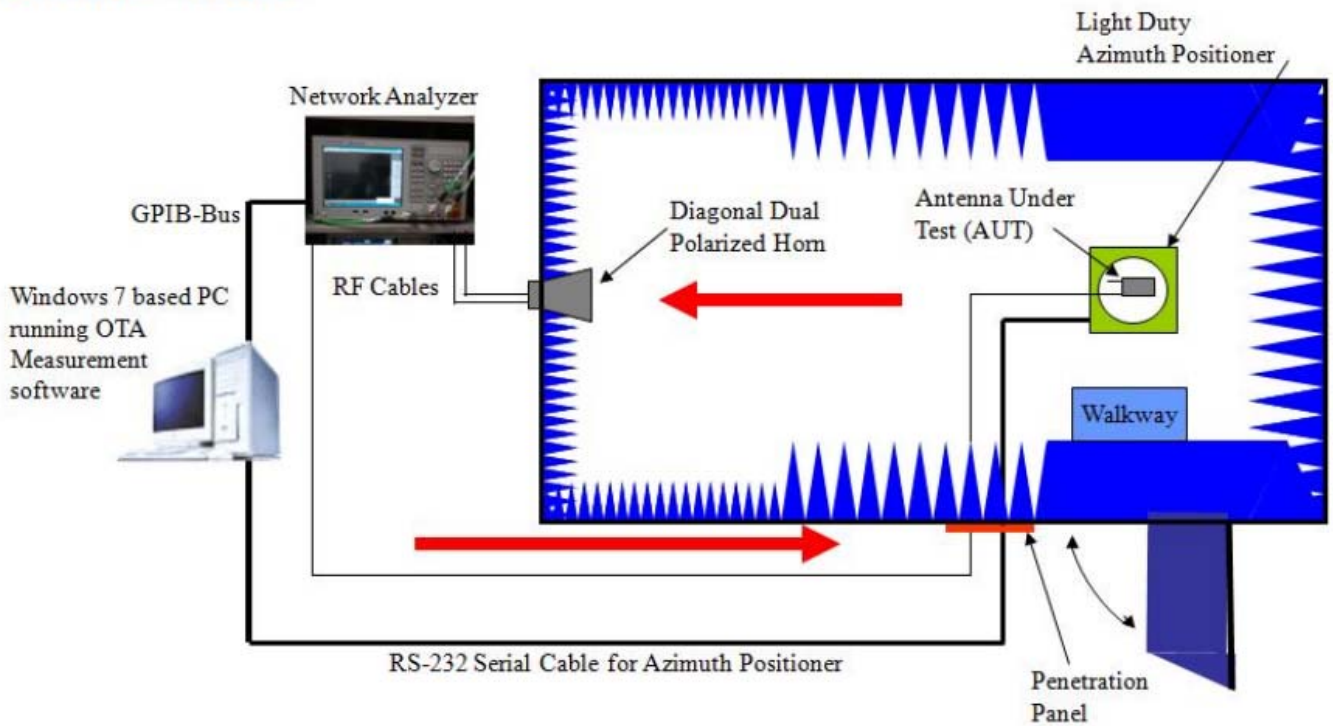
Tolerance	
.X	±0.1
.XX	±0.05
.x	±1°

DRAWN BY	li	MATERIAL:		PART NO:	D139.C2.0.999
CHECKED BY		FINISH:	BLACK	TITLE:	D1399 5G Antenna
APPROVED BY	King	UNIT:	mm		
DATE:	20.3.31	SCALE:	1/1		



Electrical properties	
Frequency	600~3800MHZ
Impedance	50 ohm Nominal
Return Loss	-10 dBi
VSWR Port 1&2	2.5:1 MAX
Gain	600~960MHZ 3.0dBi 1710~2170MHZ 3.5dBi 2170~2700MHZ 3.7dBi 3200~3800MHZ 4.3dBi
Connector	SMA Male
Cable length	RG178
Efficiency(without cable loss)	49%~600MHz 57.3%~698MHz 94.6%~960MHz 65.9%~1710MHz 60%~2170MHz 56.3%~2700MHz 76.7%~3200MHz 63.9%~3500MHz 63.5%~3800MHz
Mechanical Properties	
Radome	UV Resistant PC+ABS
Operating Temp	-40°C to +80°C
Radome Color	Black

Passive mode

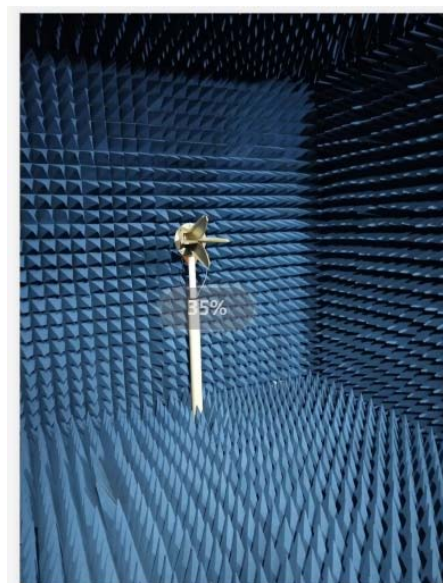


TEST INSTRUMENT :

1. AGILENT E5071C NETWORK ANALYZER
2. 3D OTA Chamber(WanShih)

Anechoic Chamber External Dimensions

(L x W x H): 8m x 4m x 4m

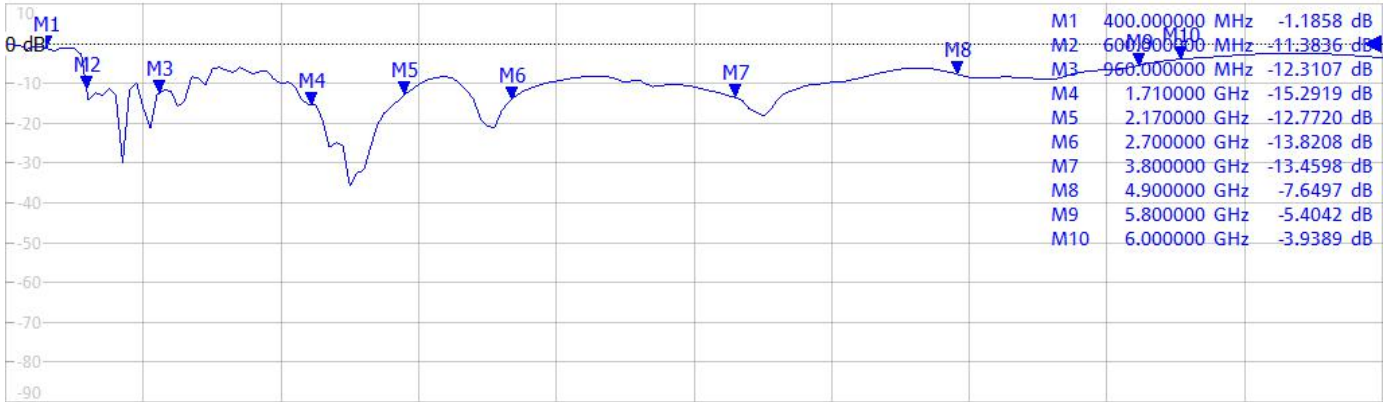


VSWR

3/13/2021 8:56:48 AM
1328.5170K92-101595-Kd

Trc1 — S11 dB Mag 10 dB/ Ref 0 dB Cal

1



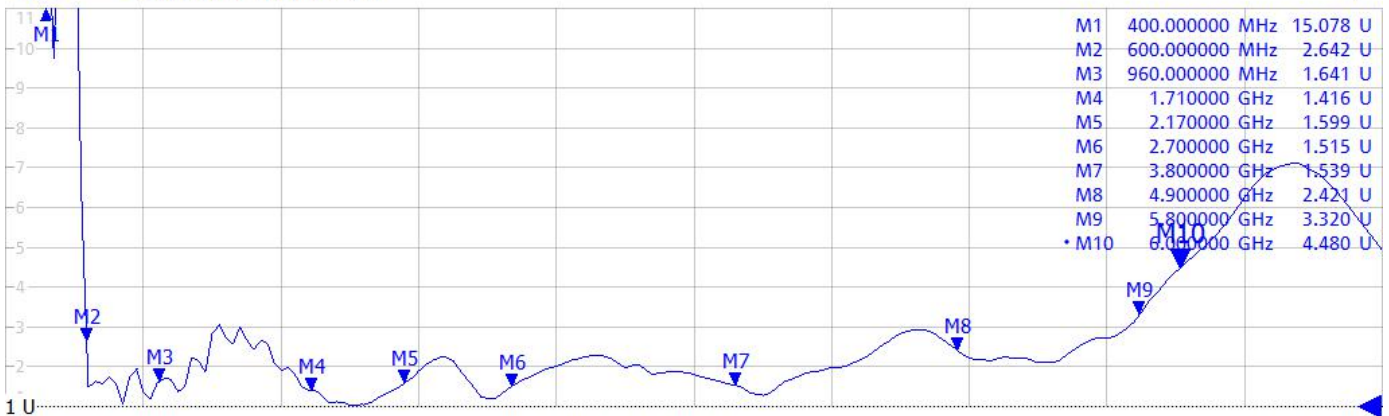
Ch1 Start 200 MHz

Pwr -10 dBm Bw 10 kHz

Stop 7 GHz

Trc2 — S11 SWR 1 U/ Ref 1 U Cal

2



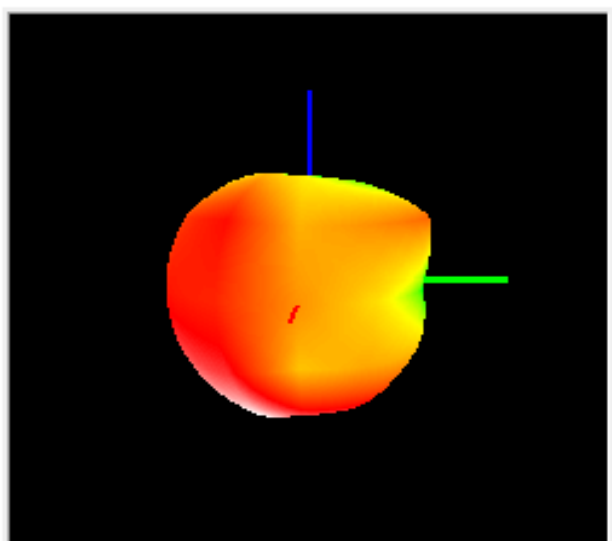
Ch1 Start 200 MHz

Pwr -10 dBm Bw 10 kHz

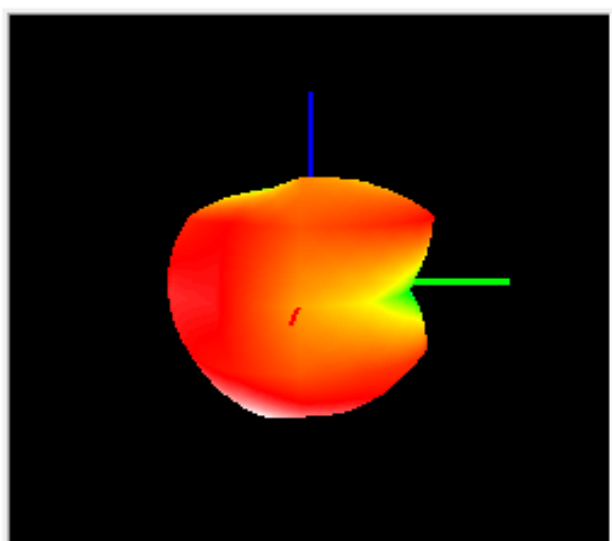
Stop 7 GHz

Radiation Patterns 3D

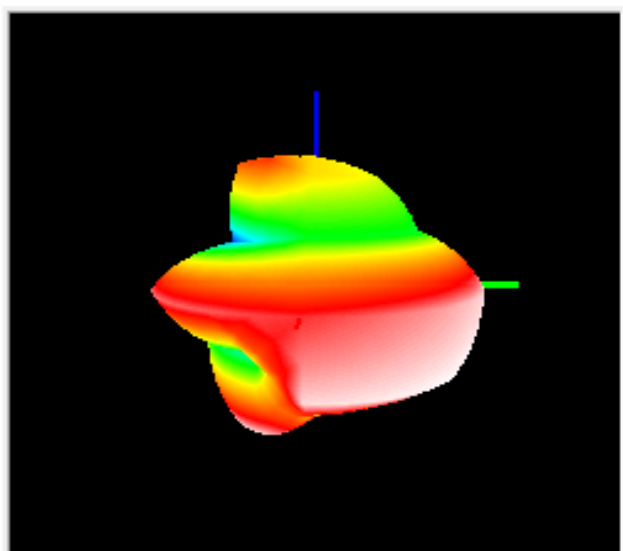
600MHz



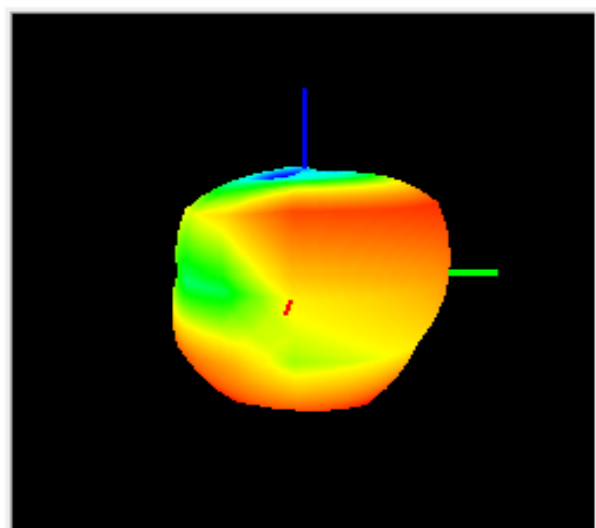
698MHz



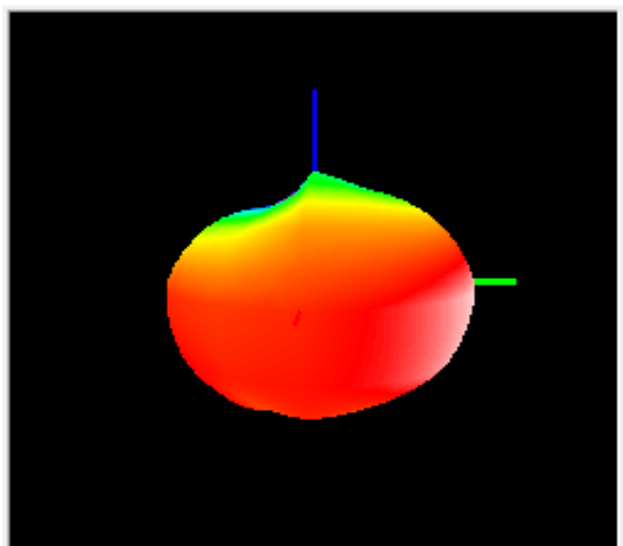
960MHz



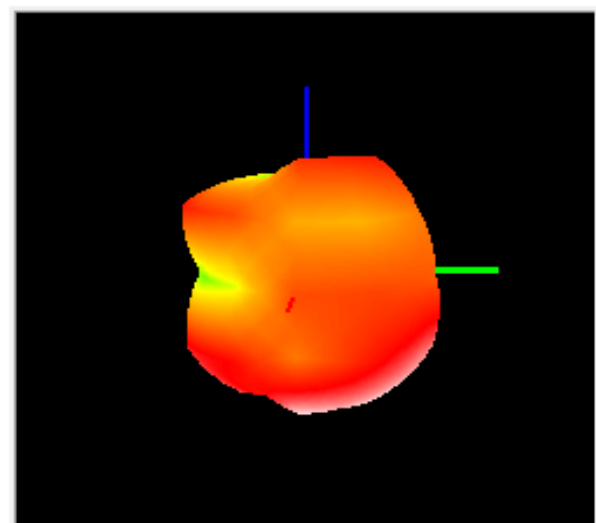
1710MHz



2170MHz

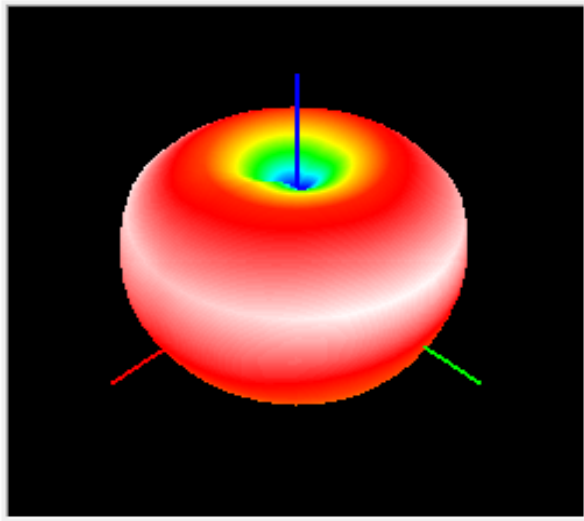


2700MHz

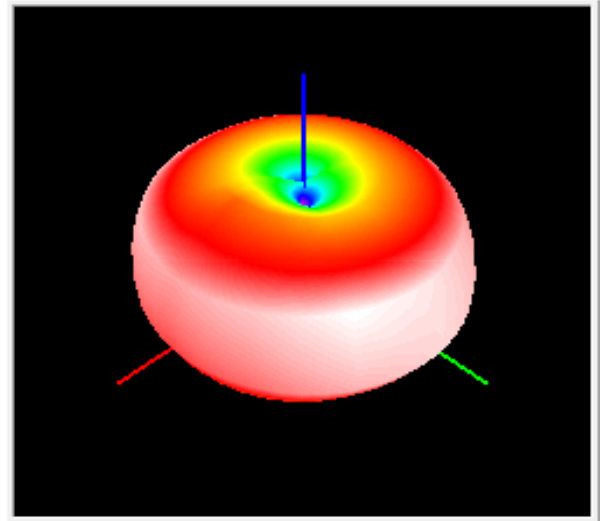


Radiation Patterns 3D

3200MHz



3500MHz



3800MHz

