



CHINMORE INDUSTRY CO.,LTD

Specification

1. 2-in-1 Combined Antenna for GPS and GSM(R30 Series)
2. *Chinmore's* No: GP-GPSGSMR30-025
3. Frequency for GPS:1575.42MHz
Frequency for GSM: 900 MHz /1800 MHz
4. VSWR for GPS: 2.0:1
5. VSWR for GSM: 1.8:1
6. Gain for GPS: 30 dBi
7. Gain for GSM: 0 dBi
8. Impedance: 50 Ω
9. Cable: RG-174 5M
10. Connector :FME F and SMA (M) ST

✂RoHS Compliant

✂ISO 9001 & ISO 14001

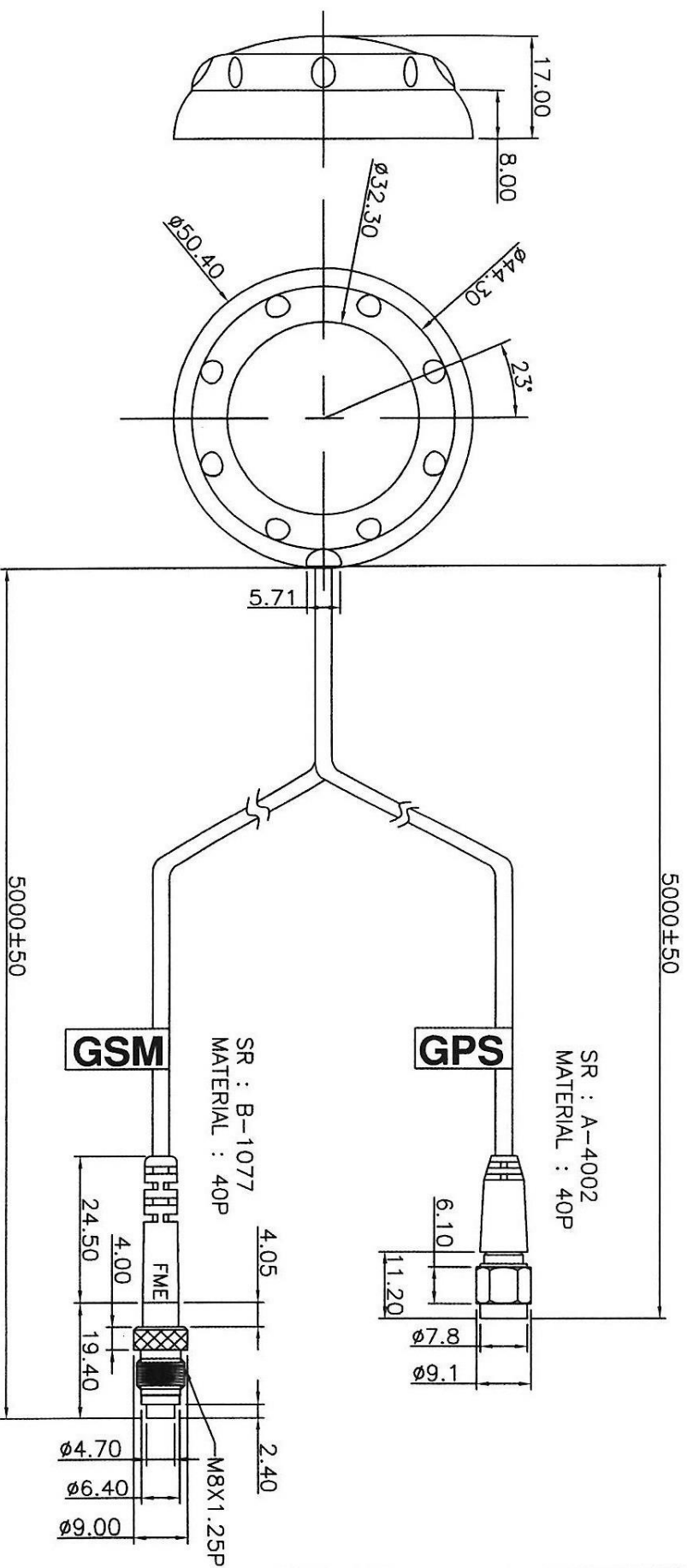
Cable	RG174/U
Cover	Black
GSM OD	$\phi 2.7 \pm 0.15$
GPS OD	$\phi 2.7 \pm 0.15$

GSM	FME F (Ni 鍍層)
GPS	SMA M (Gold 鍍金)
V.S.W.R	<1.8
Gain	0dB

Ferquency	900/1800 MHz
Impedance	1575.42 MHz
	50 OHM

ROHS

ISO 9001
ISO 14001



Material:				Treatment:				竣茂工業有限公司 Chimmore Industry CO ,LTD			
Drawer				Design				Unit: mm			
Approv				Tolerance				TITLE			
01.7.20				X=±0.5				GPS+GSM+R30			
01.7.20				X=±0.2				Model NO			
01.7.20				X=±0.1				Drawing NO			
01.7.20				XXX=±0.05				100-23005-0231			
GP-GPSCGSMR30-025				FINISH							
GP-GPSCGSMR30-025				Q1							

Patch

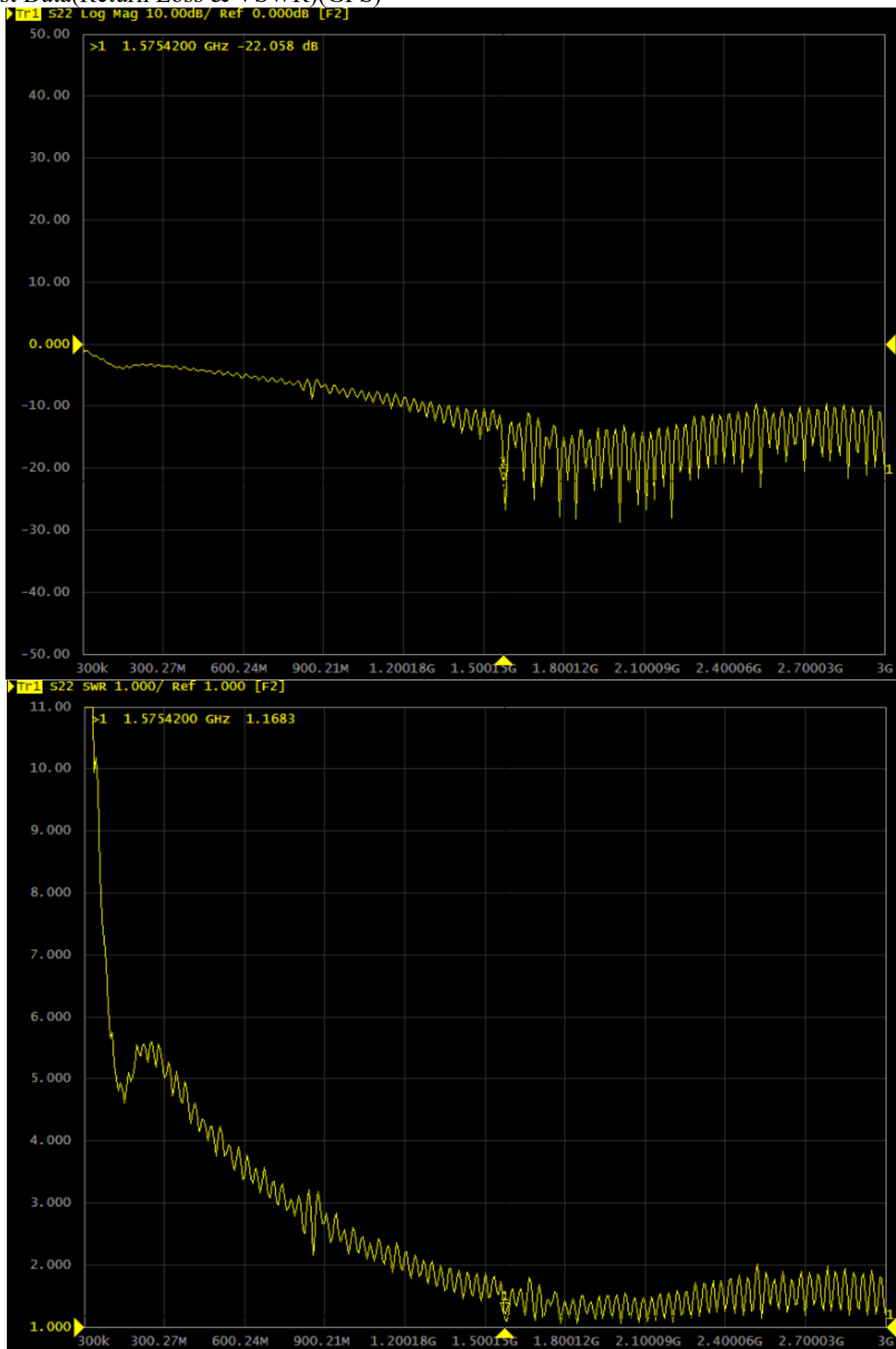
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	1 dBic typ
Gain at 10° elevation	- 5 dBic typ
Polarization	R.H.C.P
Axial Ratio	1.0 dB typ

Filter / LNA

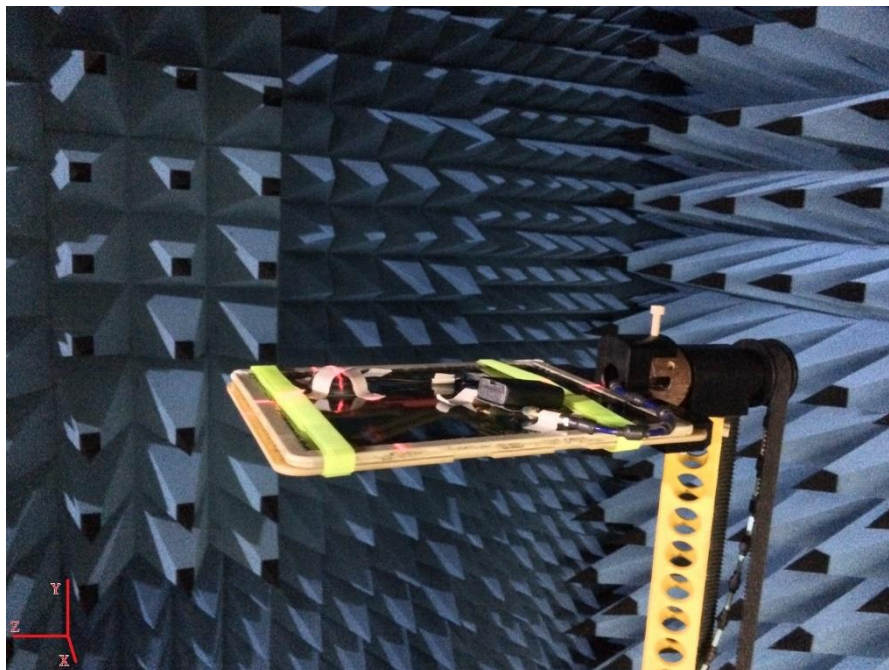
Characteristics	Specification
Center Frequency	1575.42 ±1.023 MHz
Gain	30~37dB (ps:3v / 32dB)
Noise Figure	1.5 dB typ (ps: 3v / 1.5dB)
Filer Out band attenuation	Dielectric filter 7dB min fo±20MHz 20dB min fo±50MHz 30dB min fo±100MHz (fo=1575.42MHz)
Output V.S.W.R	2.0 max
Voltage	DC = 2.5~5.5V
Current	DC = 8~23mA (ps: 3v / 10mA)

Frequency	1575.42 MHz
Return Loss	-22.05 dBi
VSWR	1.16
Gain	29.59 dBi

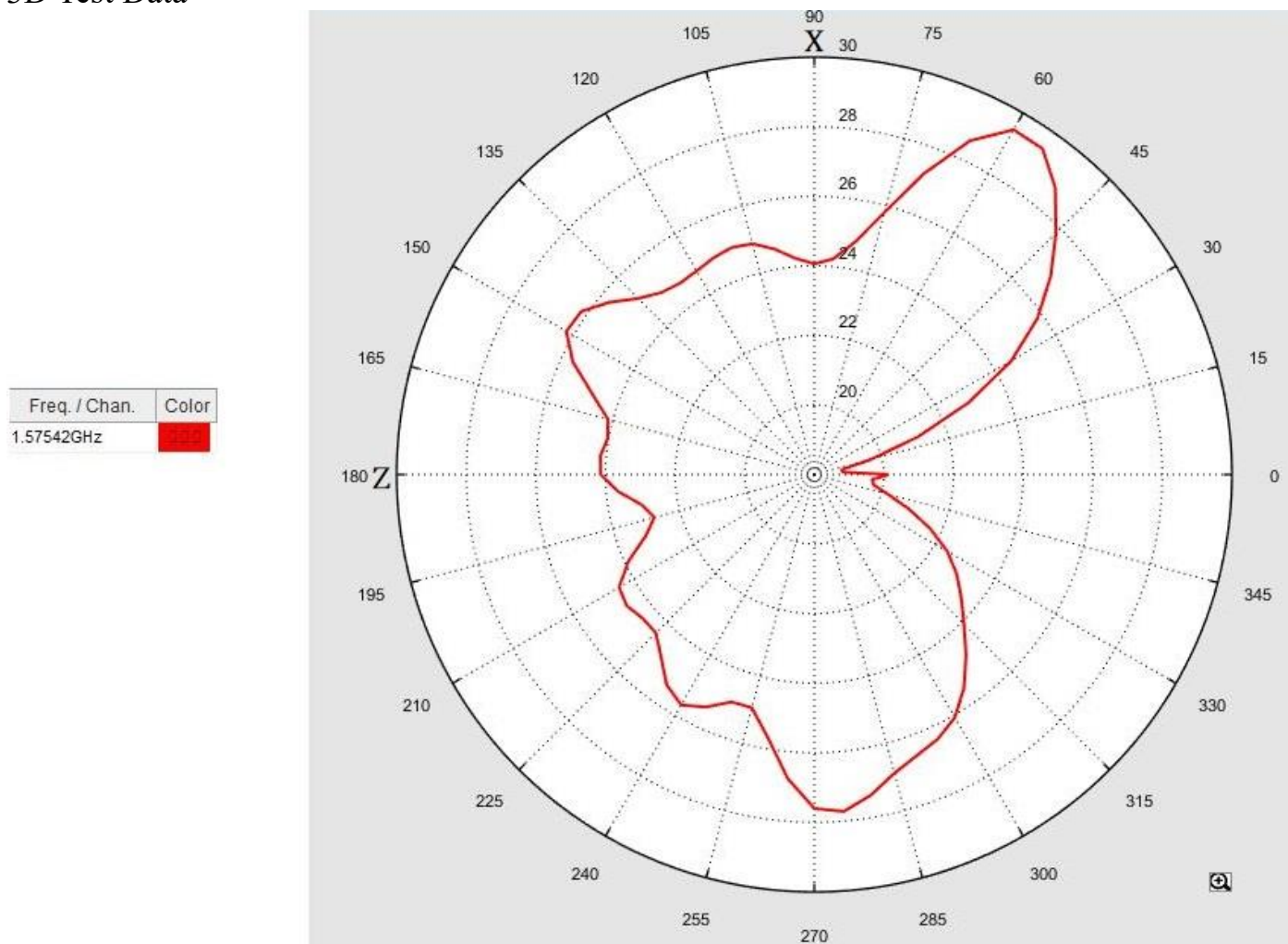
Test Data(Return Loss & VSWR)(GPS)

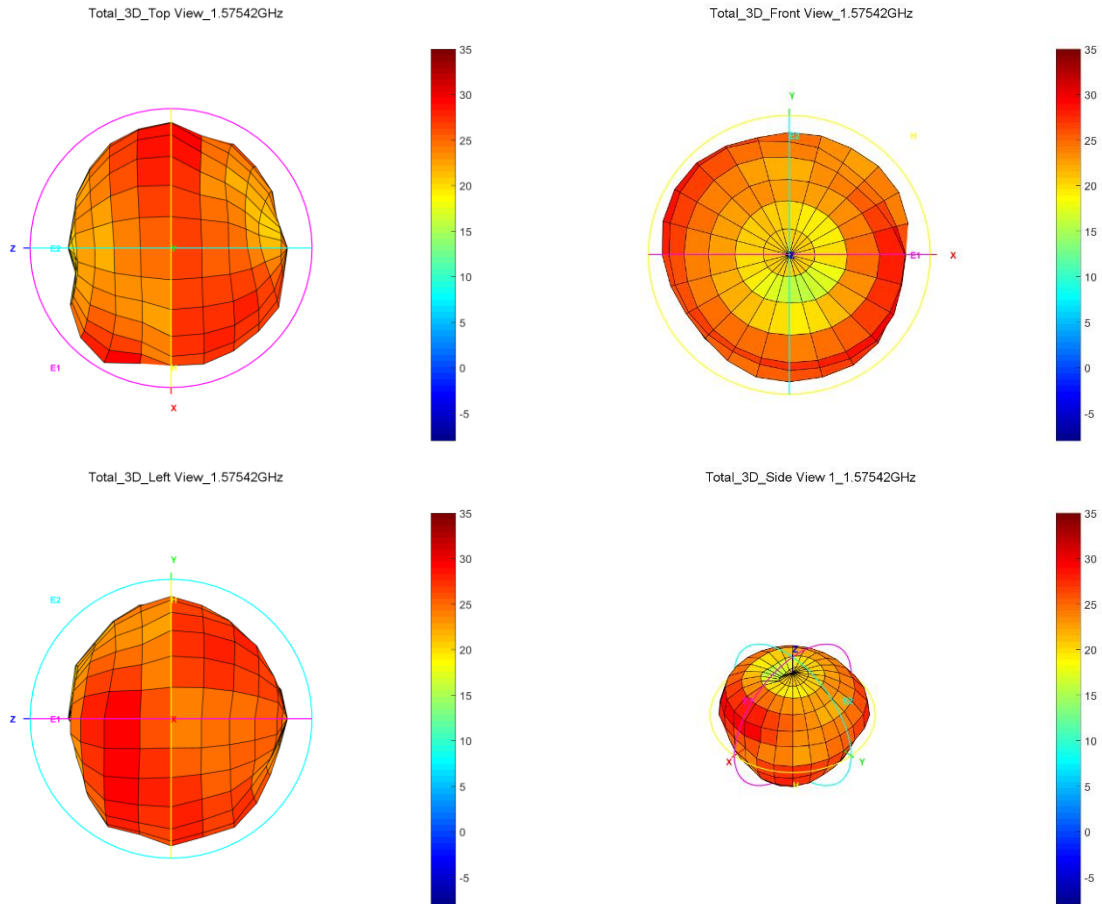


3D Test Photo



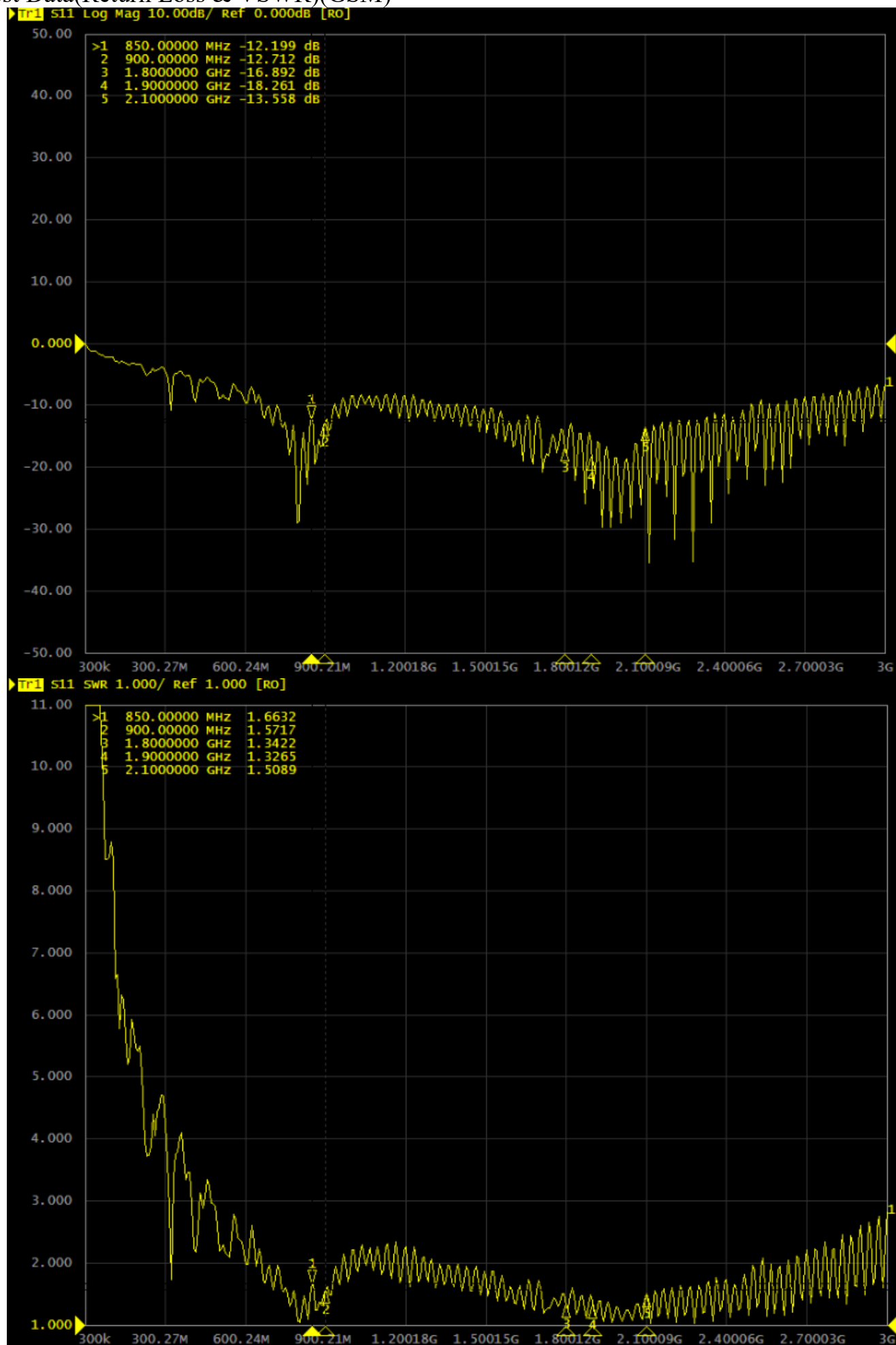
3D Test Data



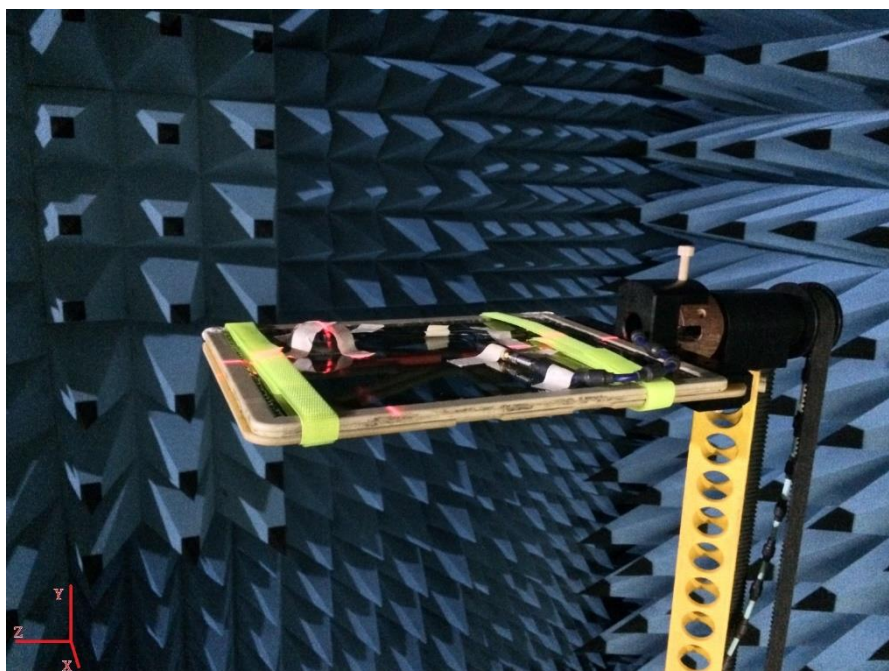


Frequency (MHz)	Return Loss (dB)	VSWR	Efficiency (%)	Gain (dBi)
850	-12.19	1.66	32.58	-0.59
900	-12.71	1.57	39.17	0.14
1800	-16.89	1.34	27.1	-2.01
1900	-18.26	1.32	16.87	-1.74
2100	-13.55	1.50	55.98	5.2

Test Data(Return Loss & VSWR)(GSM)

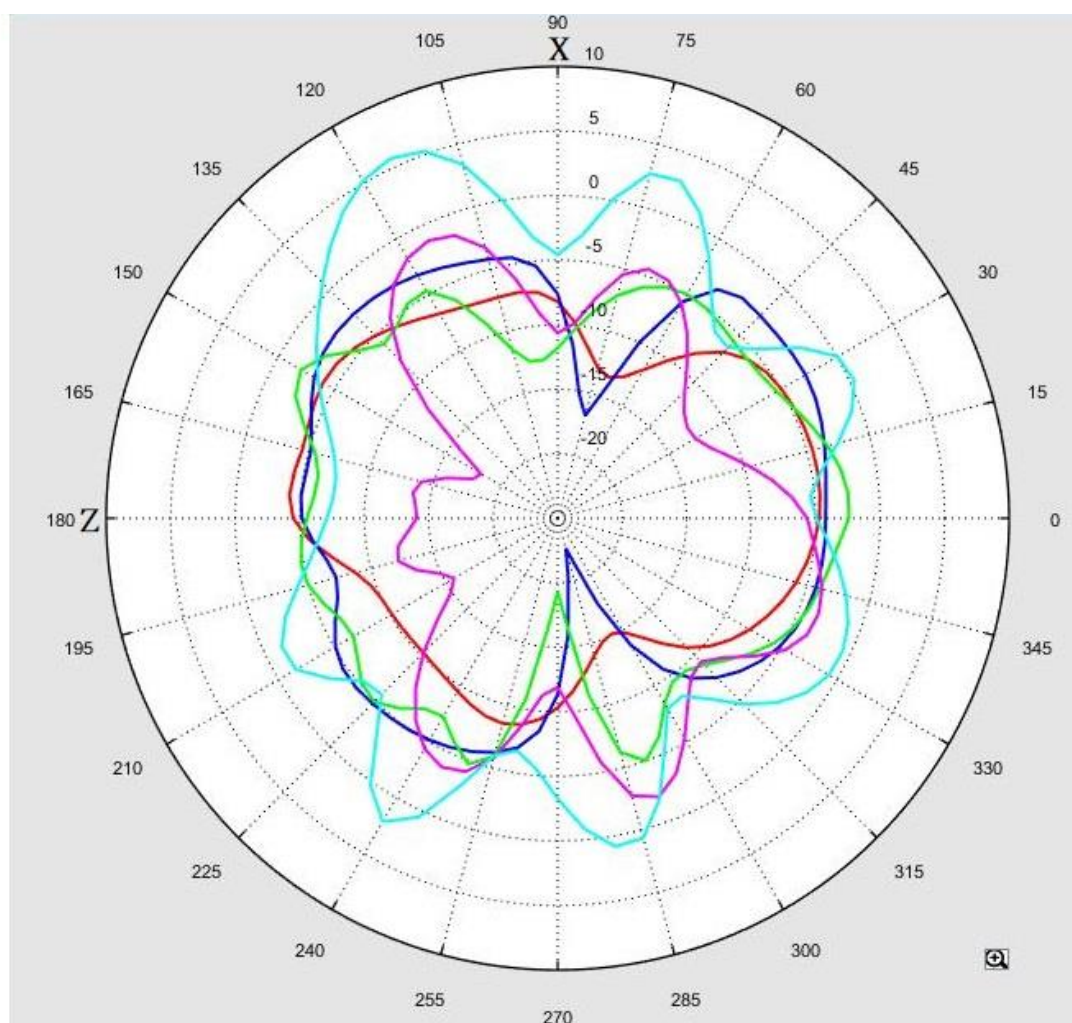


3D Test Photo

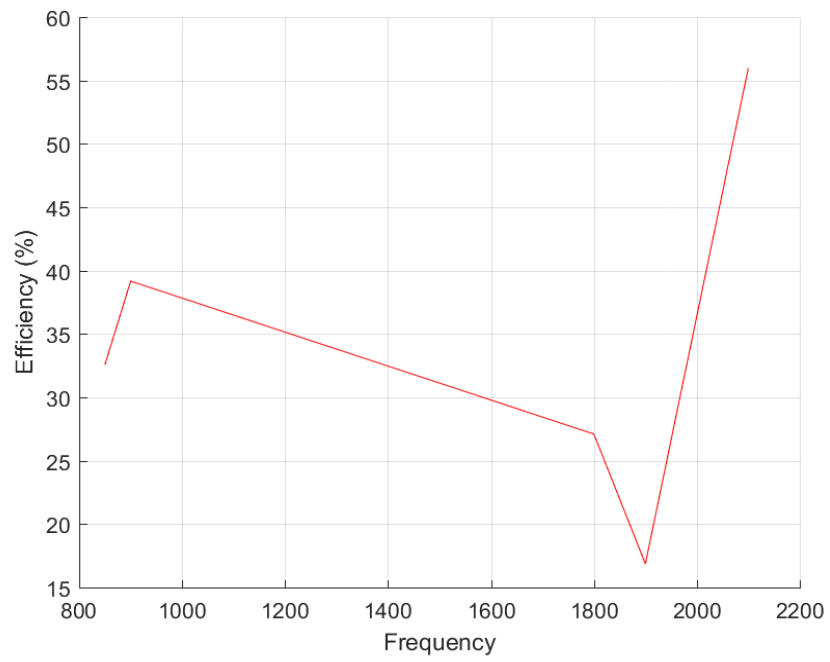


3D Test Data

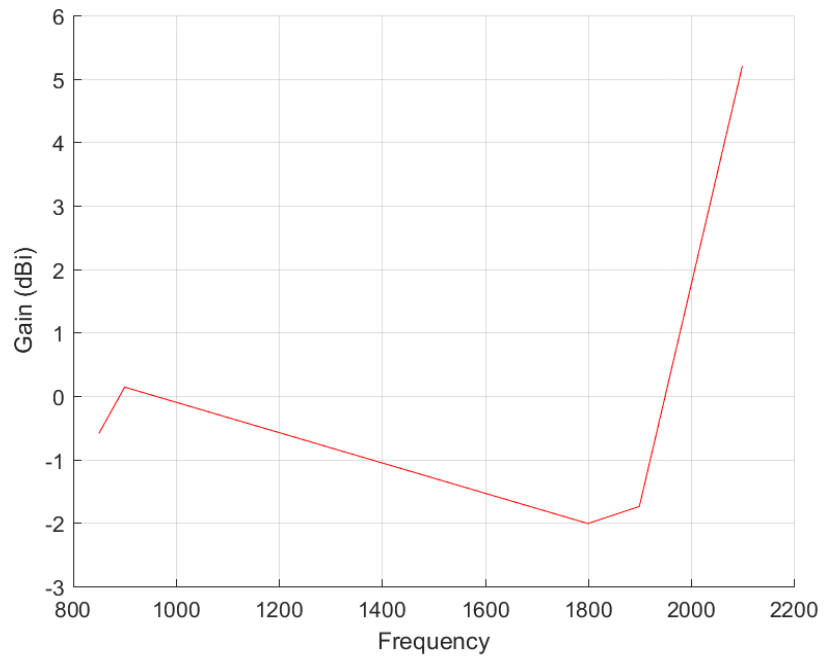
Freq. / Chan.	Color
850MHz	Red
900MHz	Blue
1.8GHz	Green
1.9GHz	Magenta
2.1GHz	Cyan



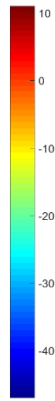
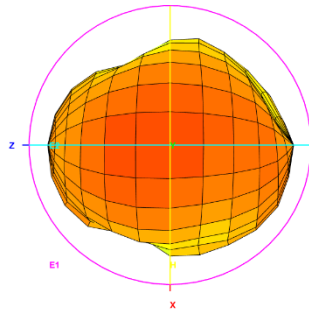
Total_Efficiency (%)



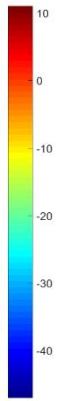
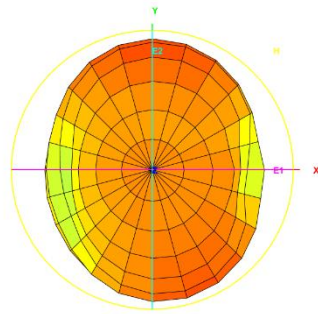
Total_Gain (dBi)



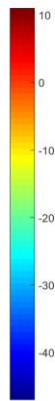
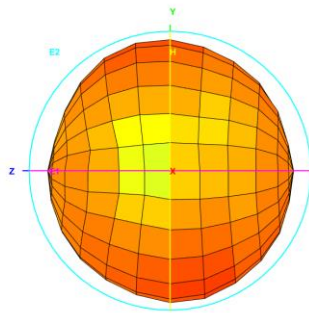
Total_3D_Top View_850MHz



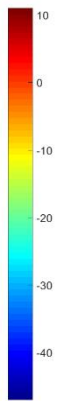
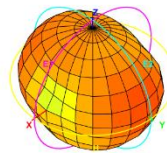
Total_3D_Front View_850MHz



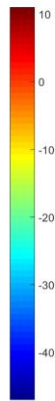
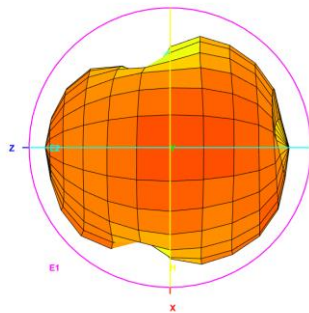
Total_3D_Left View_850MHz



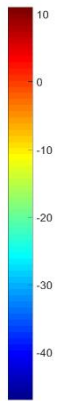
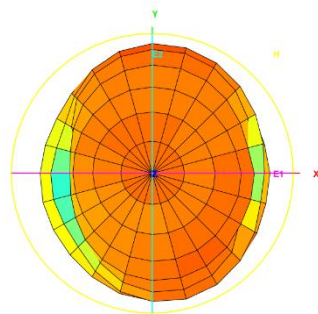
Total_3D_Side View 1_850MHz



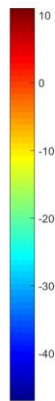
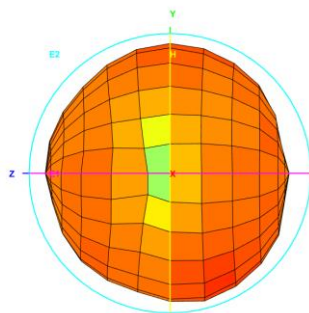
Total_3D_Top View_900MHz



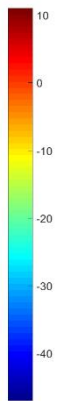
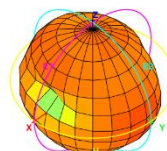
Total_3D_Front View_900MHz



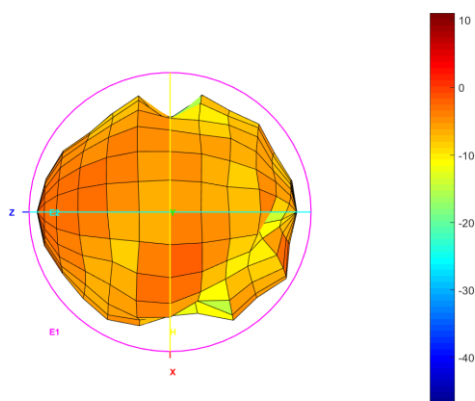
Total_3D_Left View_900MHz



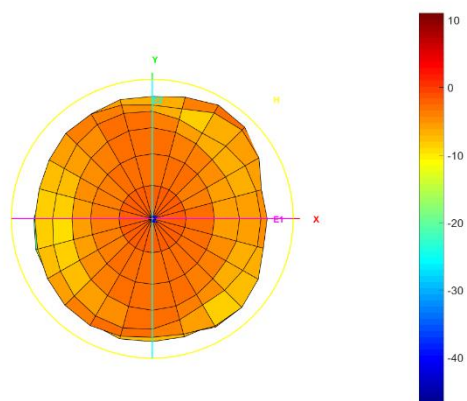
Total_3D_Side View 1_900MHz



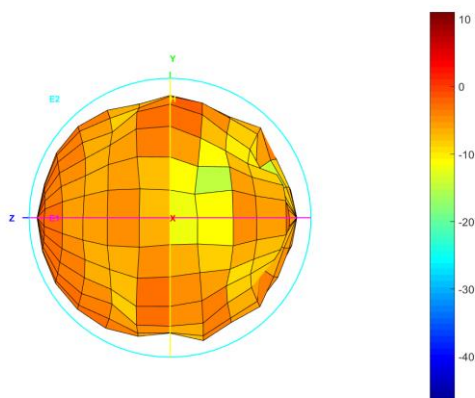
Total_3D_Top View_1.8GHz



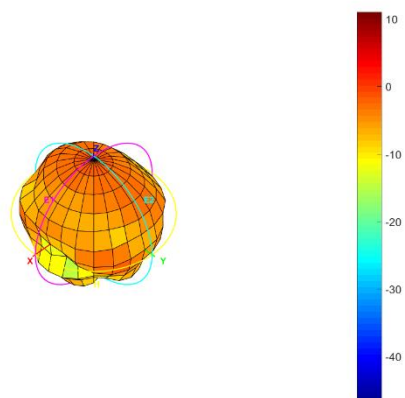
Total_3D_Front View_1.8GHz



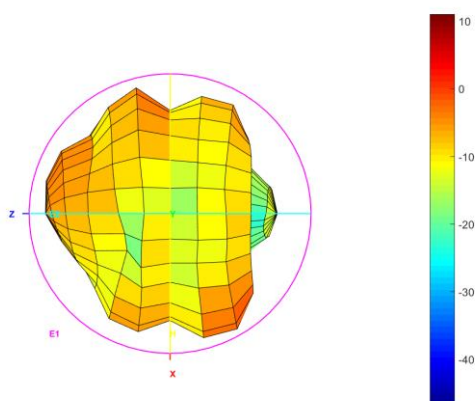
Total_3D_Left View_1.8GHz



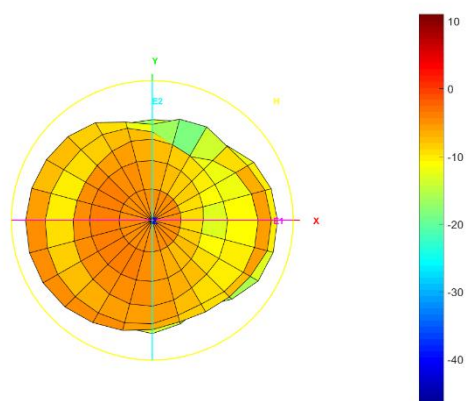
Total_3D_Side View_1_1.8GHz



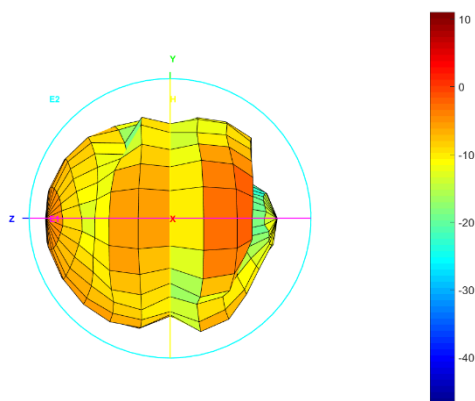
Total_3D_Top View_1.9GHz



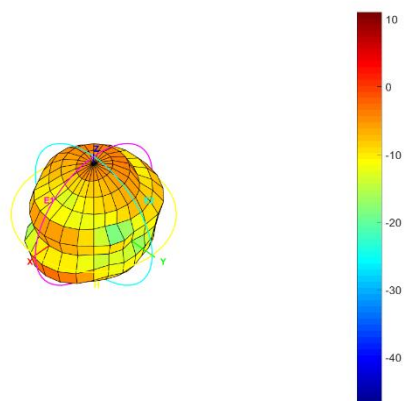
Total_3D_Front View_1.9GHz



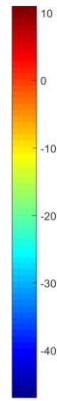
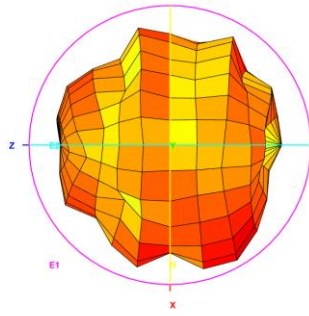
Total_3D_Left View_1.9GHz



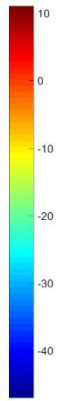
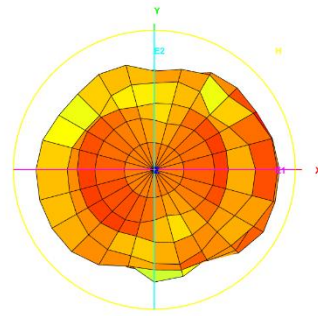
Total_3D_Side View_1_1.9GHz



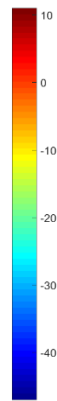
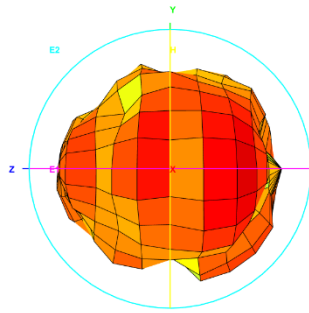
Total_3D_Top View_2.1GHz



Total_3D_Front View_2.1GHz



Total_3D_Left View_2.1GHz



Total_3D_Side View 1_2.1GHz

