



CHINMORE INDUSTRY CO.,LTD

Specification

1. Product Type: GPS/3G Antenna
2. *Chinmore's* No: R36A+RG-174+SMA M / RP SMB M
3. Frequency for GPS: 1575.42 MHz
4. Frequency for GSM(3G): 850/900/1800/1900/2100 MHz
5. VSWR for GPS: 2.0:1
6. VSWR for GSM: 2.0:1
7. Gain for GPS: 30 dBi
8. Gain for GSM: 0 dBi
9. Impedance: 50 Ω
10. Cable: RG-174 2M
11. Connector: SMA M and RP SMB M

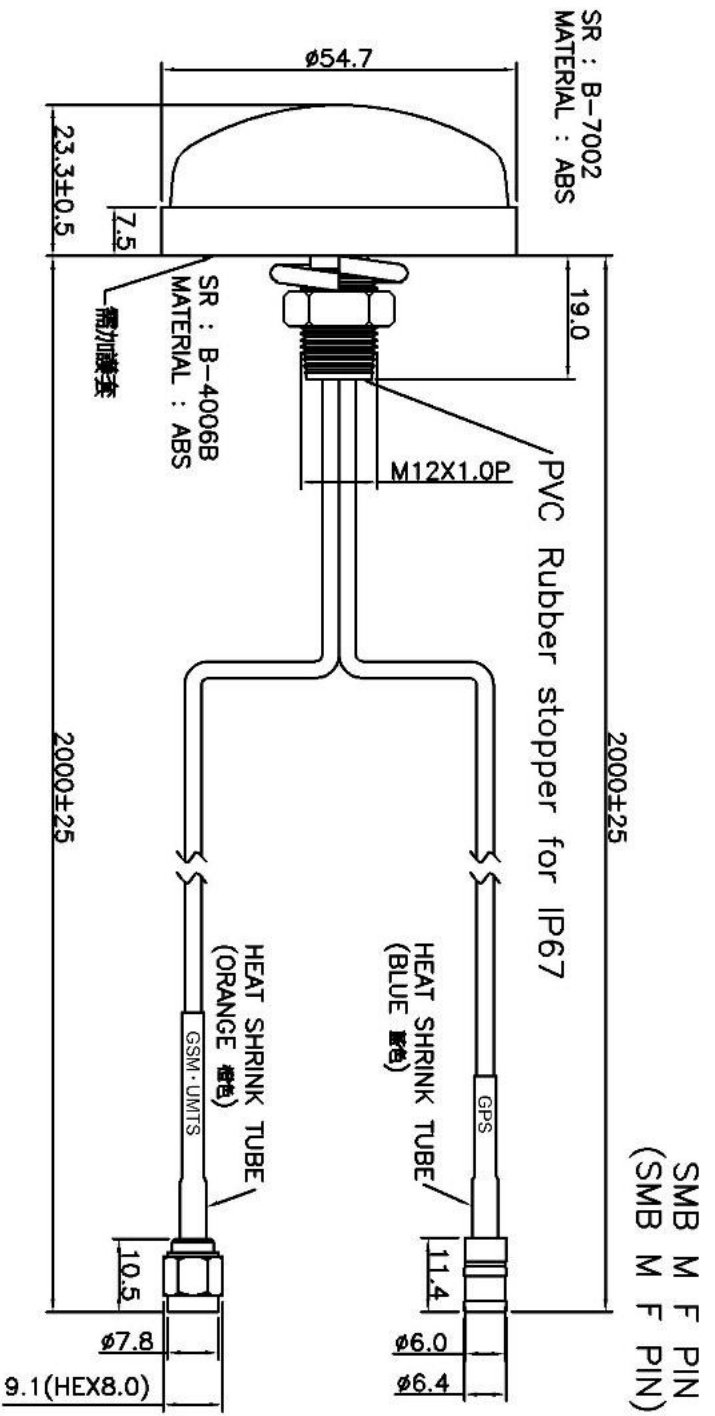
✘RoHS Compliant

✘ISO 9001 & ISO 14001

Cable	OD	Cover	Connector	Frequency	Impedance	V.S.W.R	Gain
GPS	RG174/U	Ø2.7±0.15	Black (黒)	RP SMB M (Gold 鍍金)	1575.42MHz	500	LNA 30dB
GSM			SMA M (Gold 鍍金)	850~900MHz		2.0:1	0dB
				1800~1900~2100MHz			

ROHS

ISO 9001
ISO 14001



NO	DESCRIPTION	MATERIAL / FINISH	QTY
Part NO			

Material:	Treatment:	竣茂工業有限公司 Chinmore Industry CO .LTD	
Drawer	Design	Approv	Tolerance
			X=±0.5 .X=±0.2 .XX=±0.1 .XXX=±0.05
			Unit: mm
			Ver: A
			Scale 1:1
			Model NO
			TITLE
			R36A(GPS+GSM)+174U +RP SMB M/SMA M
			File NO: QR0402
			Drawing NO
			M-20191122-001

Patch

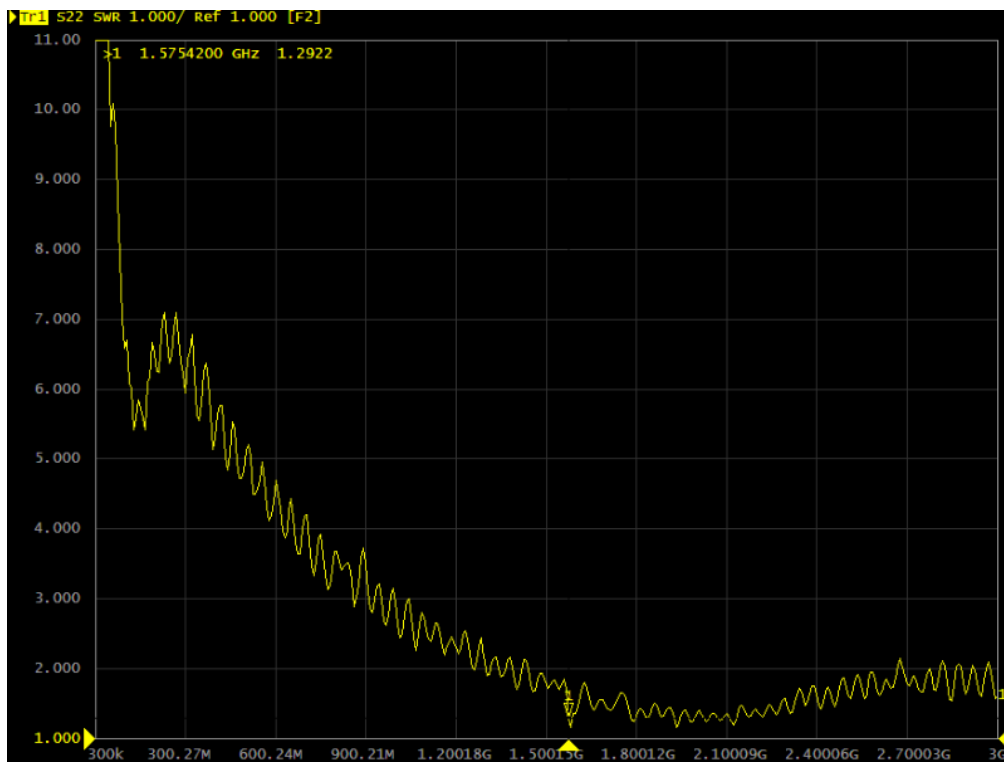
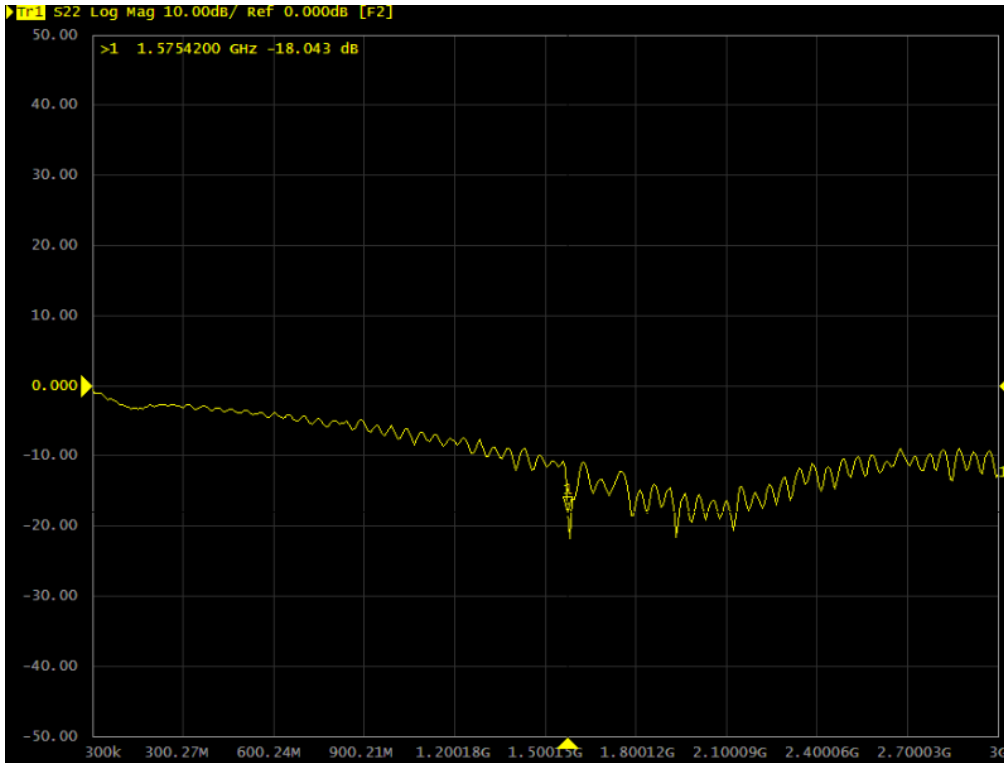
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	0.5 dBic typ
Gain at 10° elevation	- 6 dBic typ
Polarization	R.H.C.P
Axial Ratio	1.0 dB typ

Filter / LNA

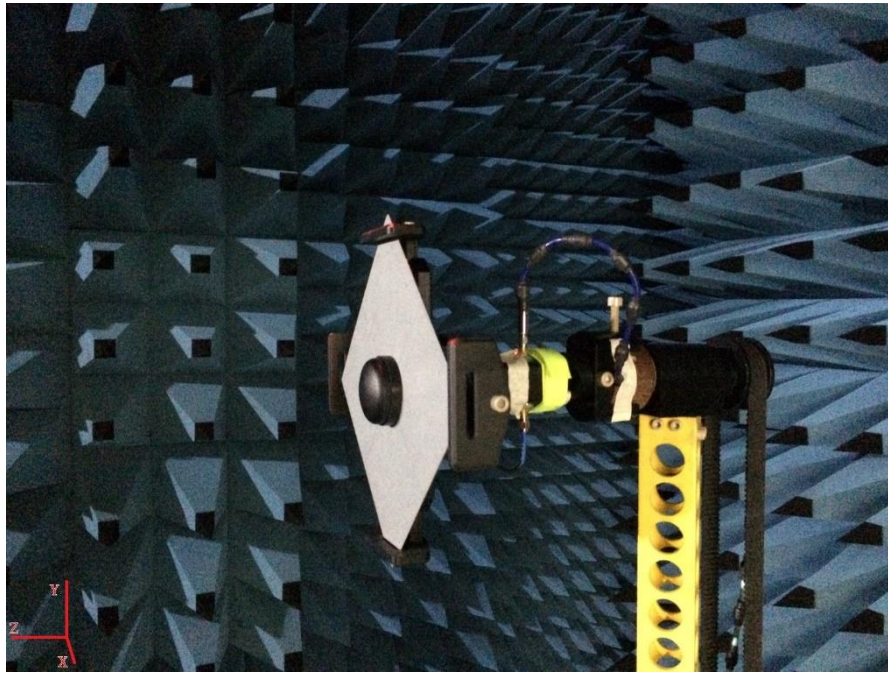
Characteristics	Specification
Center Frequency	1575.42 ±1.023 MHz
Gain	30~37dB (ps:3v / 32dB)
Noise Figure	1.5 dB typ (ps: 3v / 1.5dB)
Filter (Out of band attenuation)	Dielectric filter 7dB min fo±20MHz 20dB min fo±50MHz 30dB min fo±100MHz (fo=1575.42MHz)
Output V.S.W.R	2.0 max
Voltage	DC = 2.5~5.5V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

Frequency (MHz)	Return Loss (dB)	VSWR	Gain (dBi)
1575.42(GPS)	-18.04	1.29	33.62

Test Data(Return Loss& VSWR)(GPS)

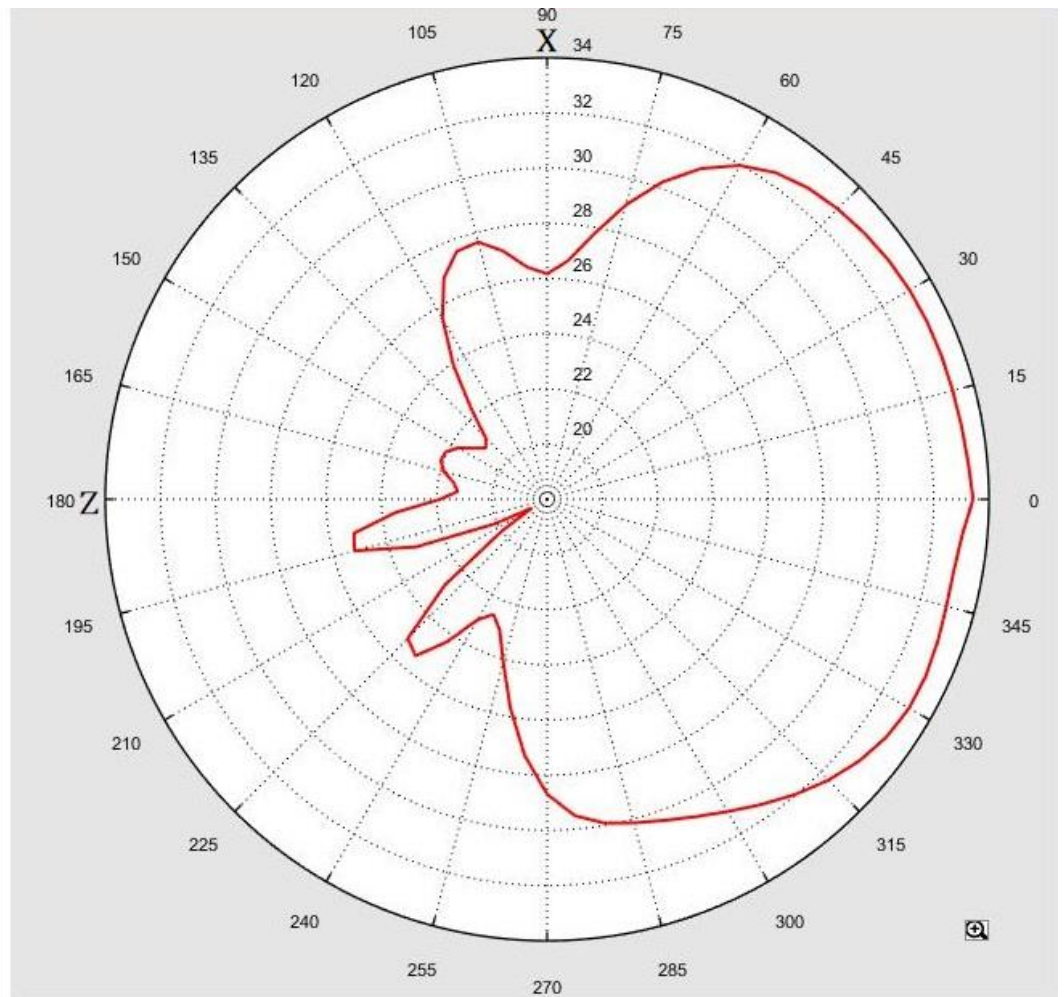


3D Test Photo

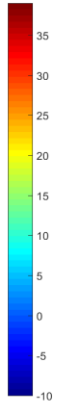
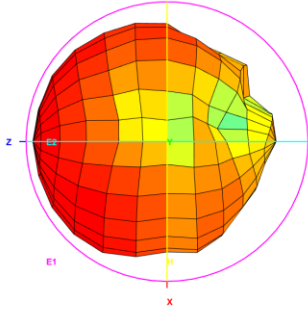


3D Test Data

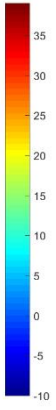
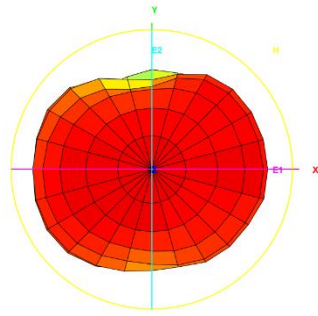
Freq. / Chan.	Color
1.57542GHz	Red



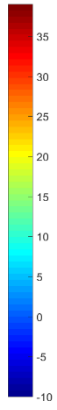
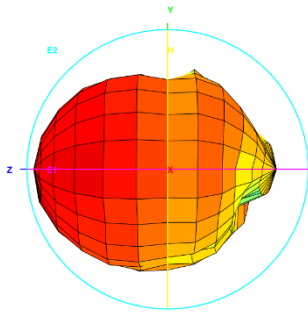
Total_3D_Top View_1.57542GHz



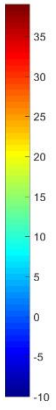
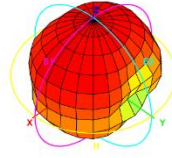
Total_3D_Front View_1.57542GHz



Total_3D_Left View_1.57542GHz

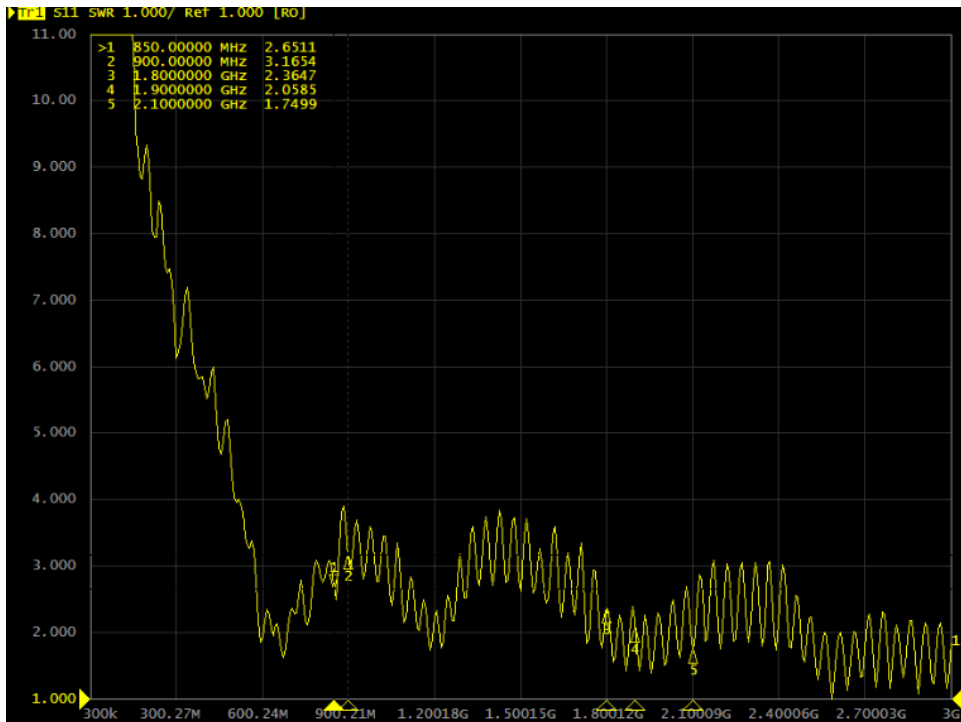
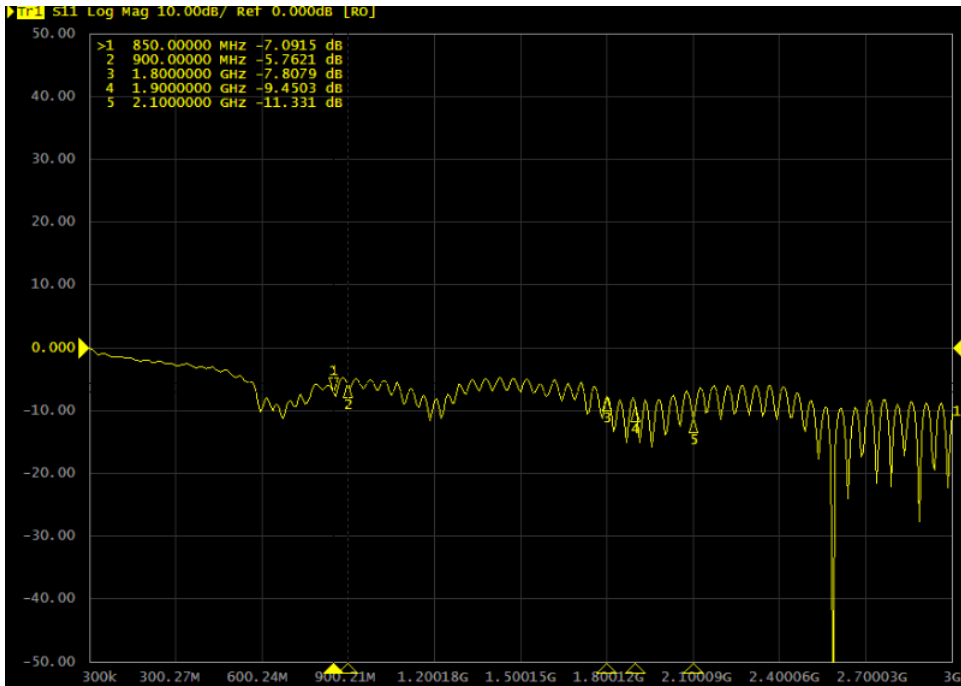


Total_3D_Side View 1_1.57542GHz

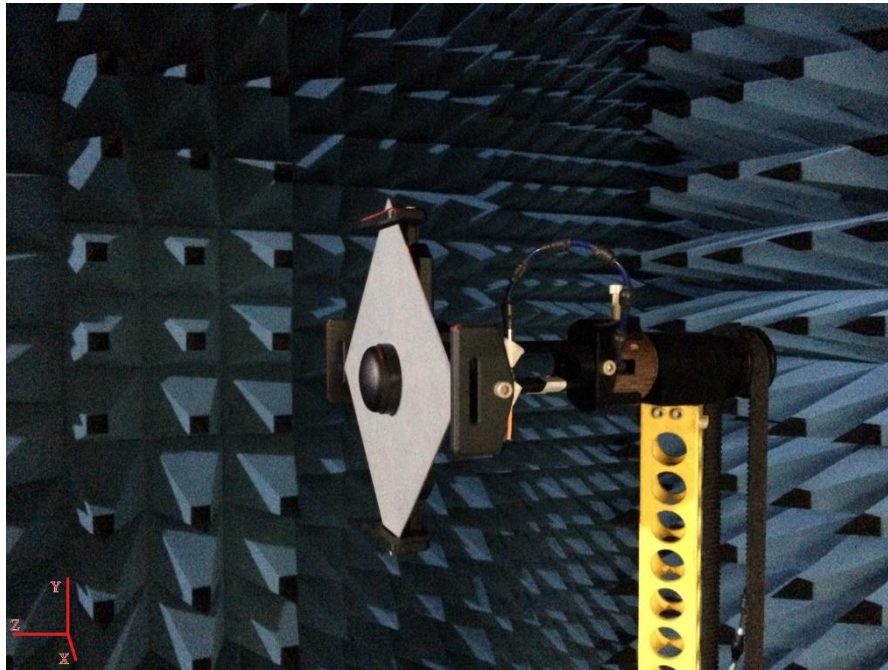


Frequency (MHz)	Return Loss (dBi)	VSWR	Efficiency (%)	Gain (dBi)
850 MHz	-7.09	2.65	29.58	1.67
900 MHz	-5.76	3.16	25.82	1.89
1800 MHz	-7.80	2.36	21.48	2.75
1900 MHz	-9.45	2.05	31.77	3.14
2100 MHz	-11.33	1.74	28.58	1.96

Test Data(Return loss & VSWR)(3G)

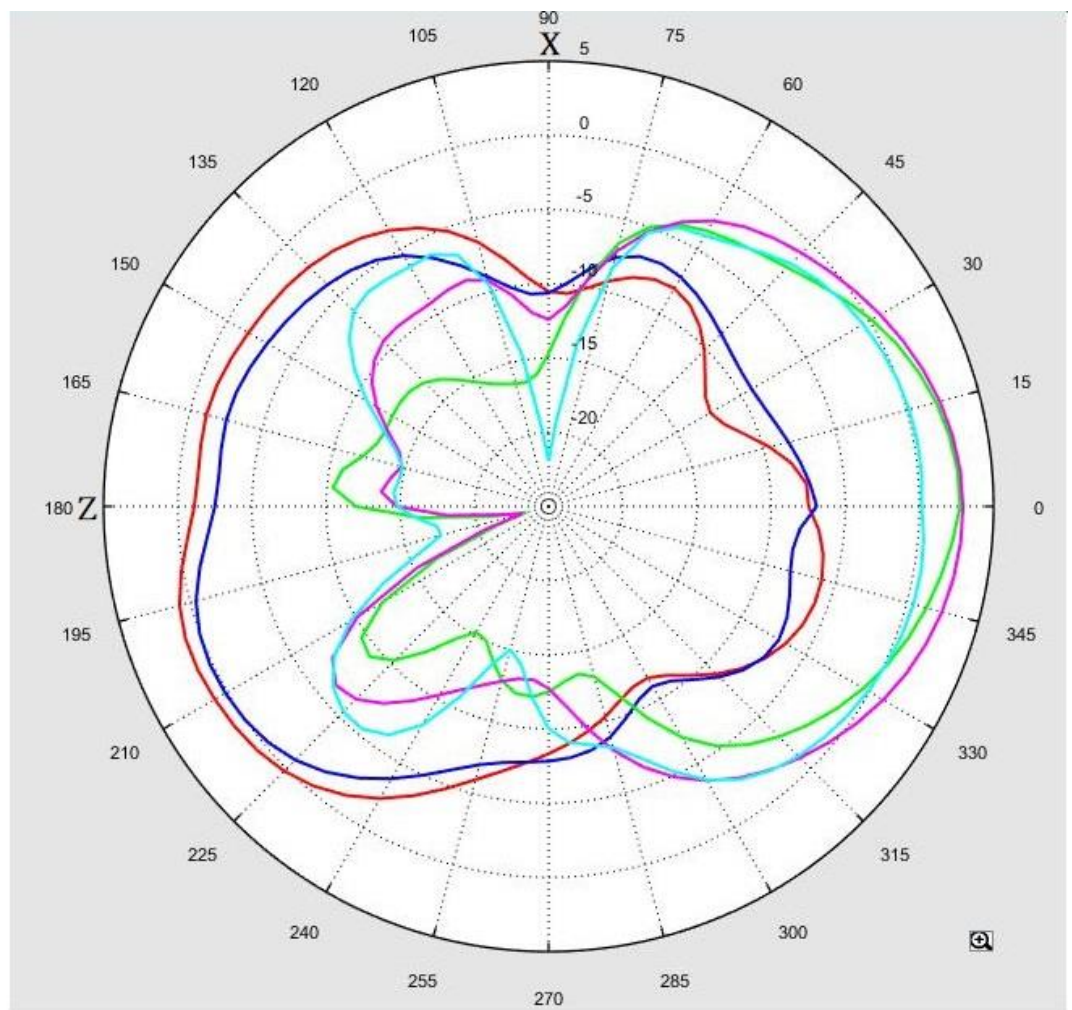


3D Test photo

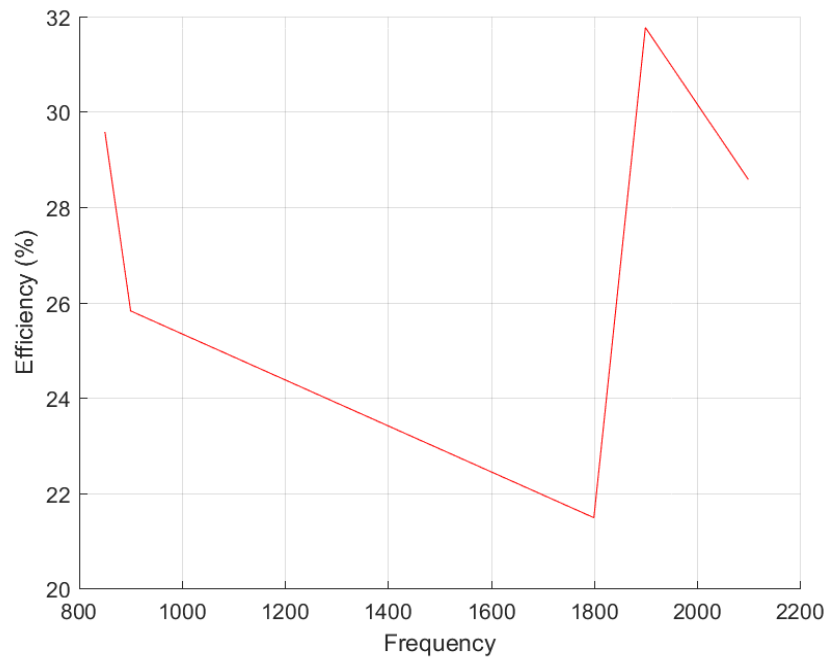


3D Test Data

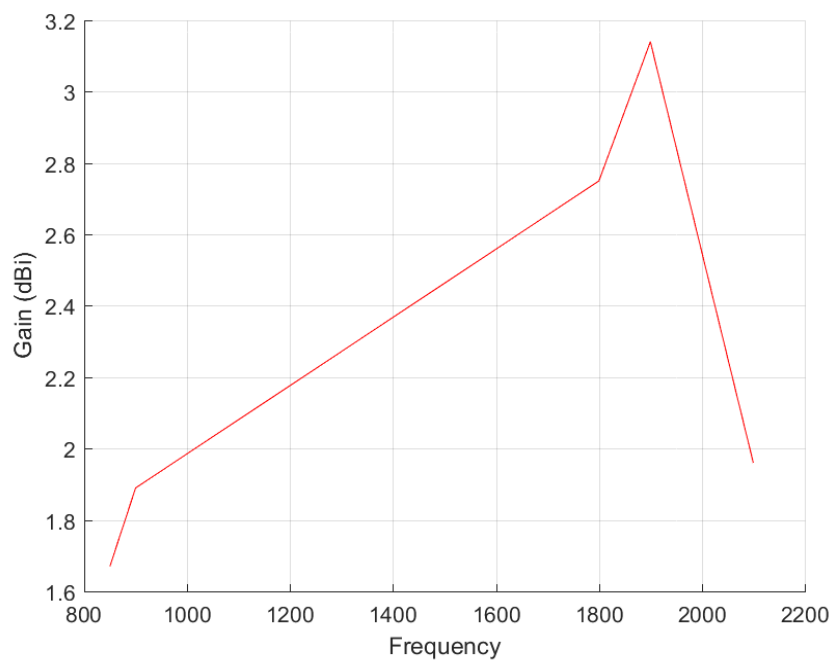
Freq. / Chan.	Color
850MHz	Red
900MHz	Blue
1.8GHz	Green
1.9GHz	Magenta
2.1GHz	Cyan



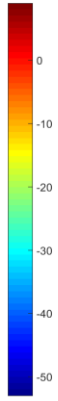
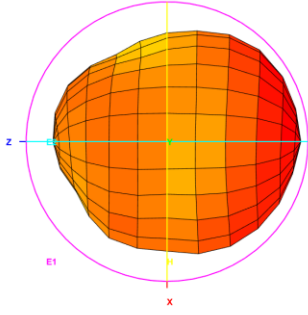
Total_Efficiency (%)



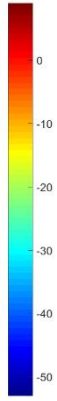
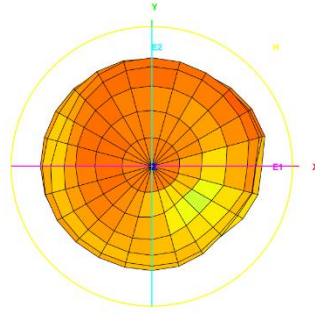
Total_Gain (dBi)



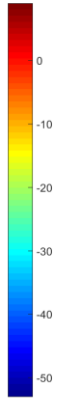
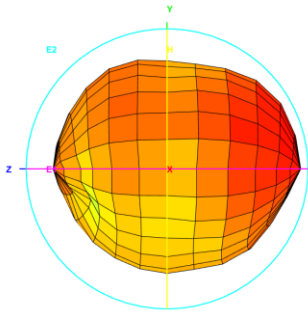
Total_3D_Top View_850MHz



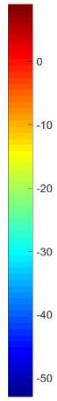
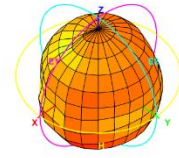
Total_3D_Front View_850MHz



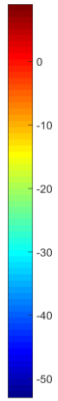
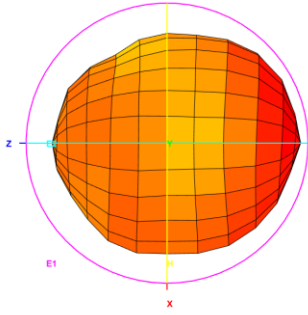
Total_3D_Left View_850MHz



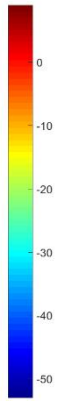
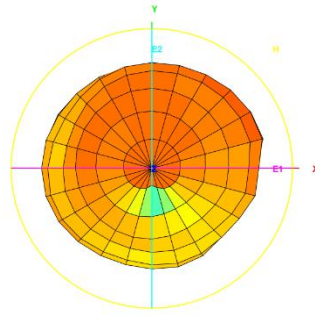
Total_3D_Side View 1_850MHz



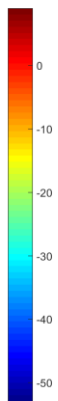
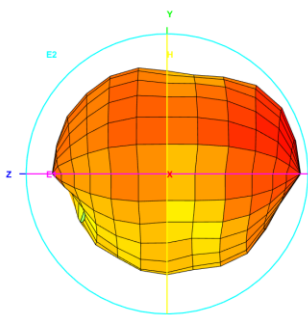
Total_3D_Top View_900MHz



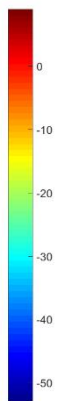
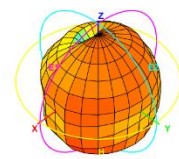
Total_3D_Front View_900MHz



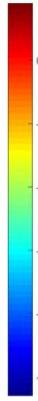
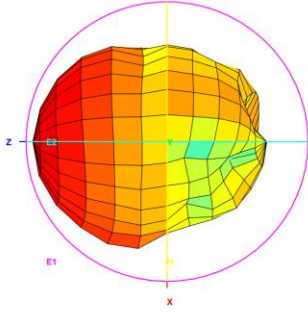
Total_3D_Left View_900MHz



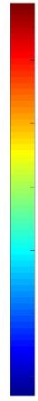
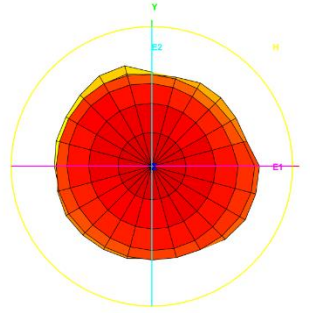
Total_3D_Side View 1_900MHz



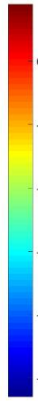
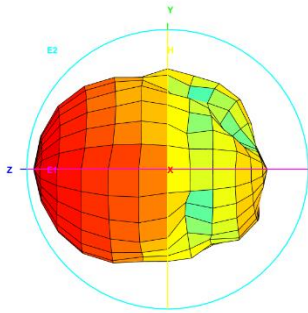
Total_3D_Top View_1.8GHz



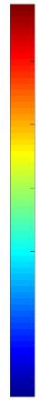
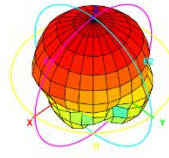
Total_3D_Front View_1.8GHz



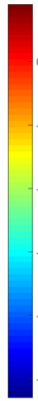
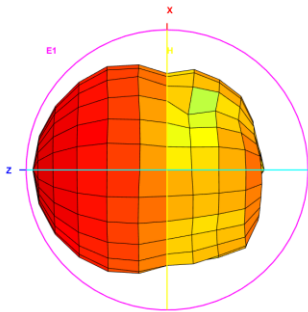
Total_3D_Left View_1.8GHz



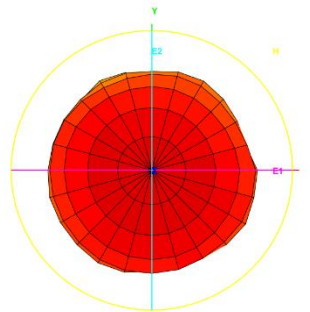
Total_3D_Side View 1.8GHz



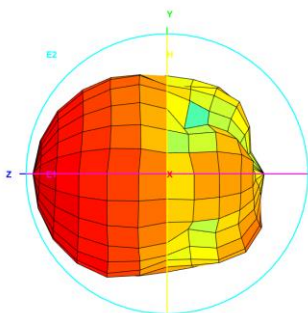
Total_3D_Bottom View_1.9GHz



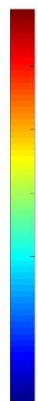
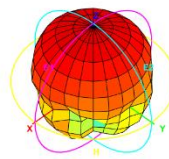
Total_3D_Front View_1.9GHz



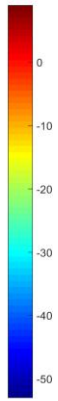
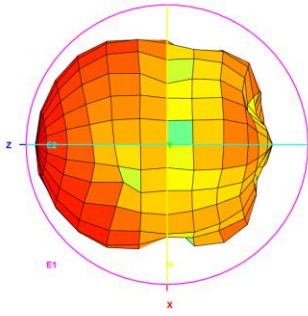
Total_3D_Left View_1.9GHz



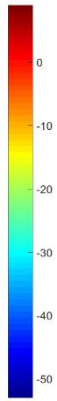
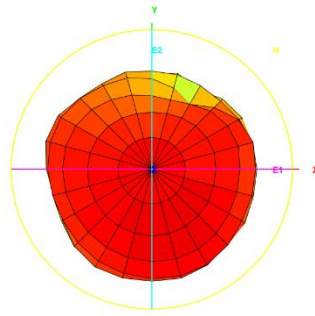
Total_3D_Side View 1.9GHz



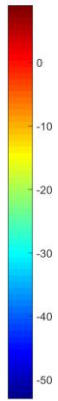
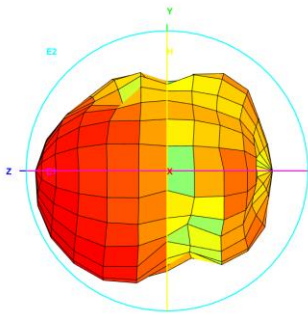
Total_3D_Top View_2.1GHz



Total_3D_Front View_2.1GHz



Total_3D_Left View_2.1GHz



Total_3D_Side View 1_2.1GHz

