



CHINMORE INDUSTRY CO.,LTD

Specification

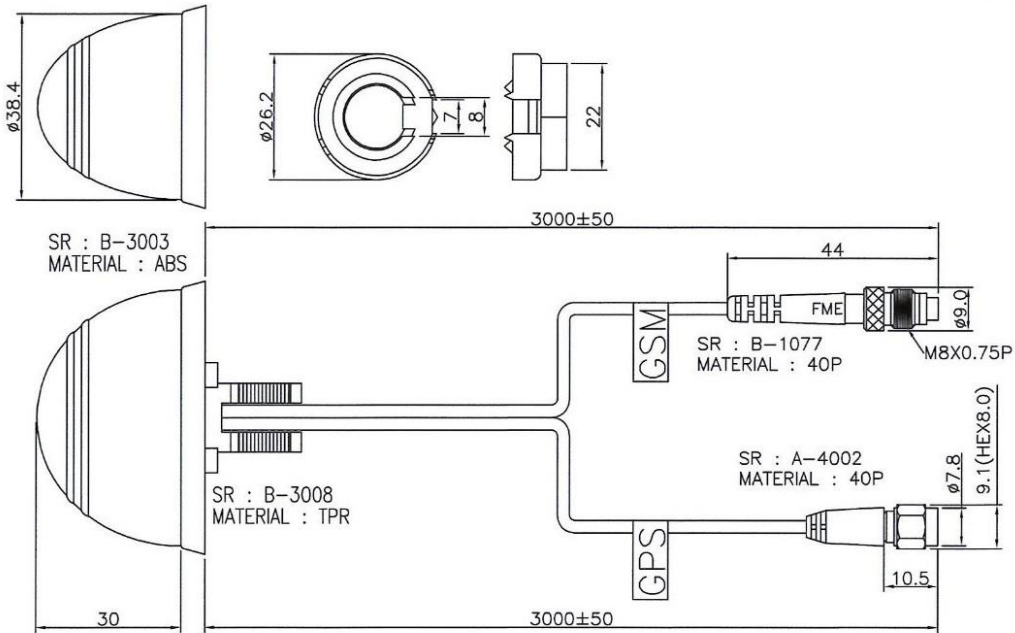
1. Combined Antenna for GPS and GSM (2-in-1 Antenna)
2. *Chinmore's* No: GP-GPSGSMR32-009
3. Frequency for GPS: 1575.42 MHz
4. Frequency for GSM: 850~900 MHz/ 1800~1900~2100 MHz
5. VSWR for GPS: 2.0:1
6. VSWR for GSM: 2.0:1
7. Gain for GPS: 30 dBi
8. Gain for GSM: 0 dBi
9. Cable: RG-174 3M
10. Connector: SMA (M) ST and FME F

✘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 (黑)	SMA M (Gold 鍍金)	1575.42MHz	50Ω	30 dB
GSM				FME F (Ni 鍍鎳)	850~900MHz 1800~1900~2100MHz		0 dB

ROHS
ISO 9001
ISO 14001



108.12.05 修改頻率		Material:		Treatment:		竣茂工業有限公司 Chinmore Industry CO .LTD	
NO	DESCRIPTION	MATERIAL / FINISH	Q'TY	Drawer	Design	Approv	Tolerance
Part NO	GP-GPSGSMR32-009			機排	12.6	12.6	X=±0.5 Y=±0.2 Z=±0.1 XXX=±0.05
				Unit:	mm	Scale:	1:1
				Ver:	B	Model NO	
				File NO:	QR0402	Drawing NO	291-001

Frequency (MHz)	Return Loss (dB)	VSWR	Efficiency (%)	Gain (dBi)
1575.42(GPS)	-32.49	1.04	-----	32.59
850	-13.75	1.57	21.73	-0.76
900	-13.87	1.51	25.47	1.3
1800	-12.96	1.57	48.53	0.55
1900	-16.10	1.37	29.11	-0.85
2100	-18.51	1.27	12.56	-3.79

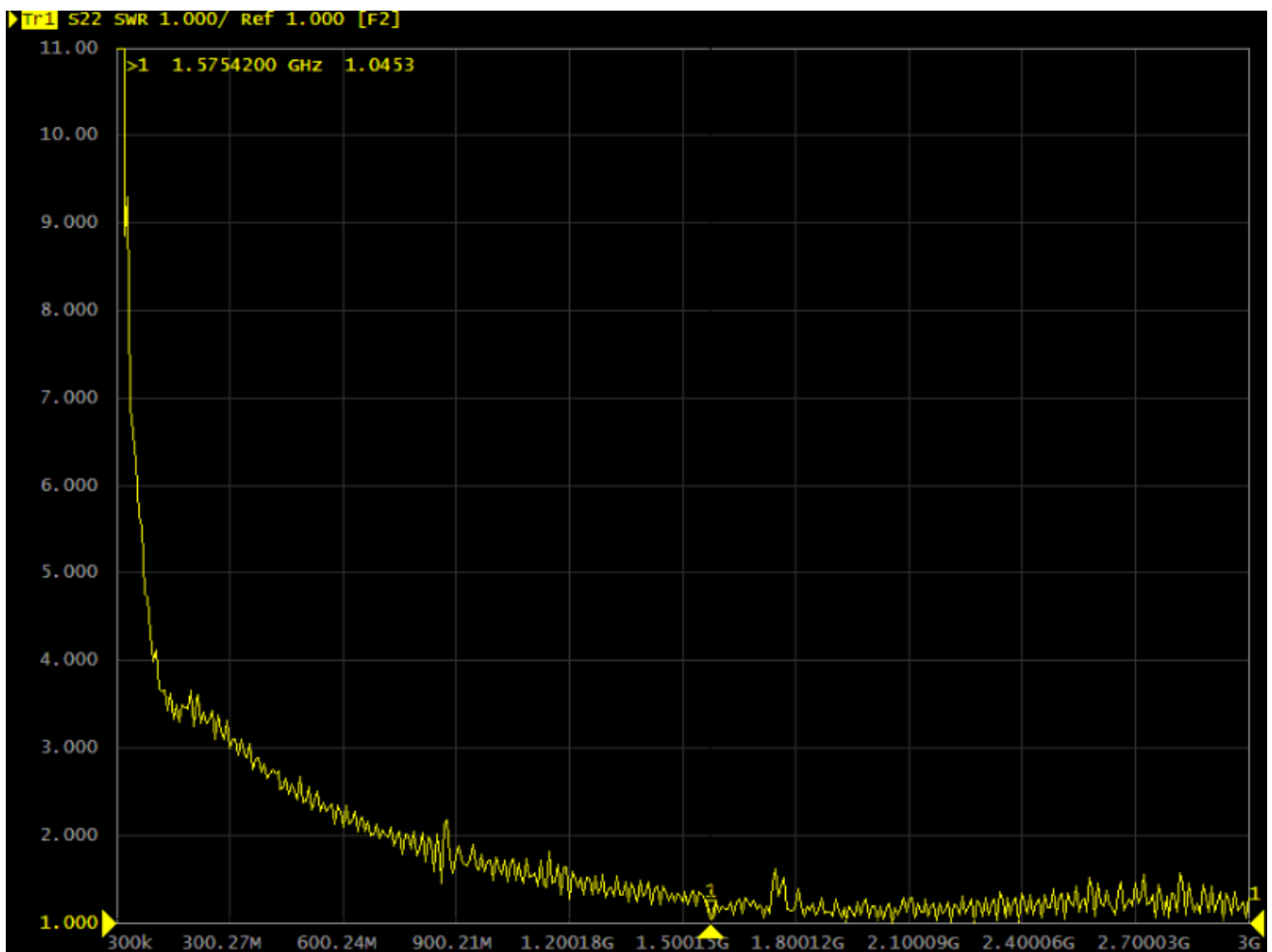
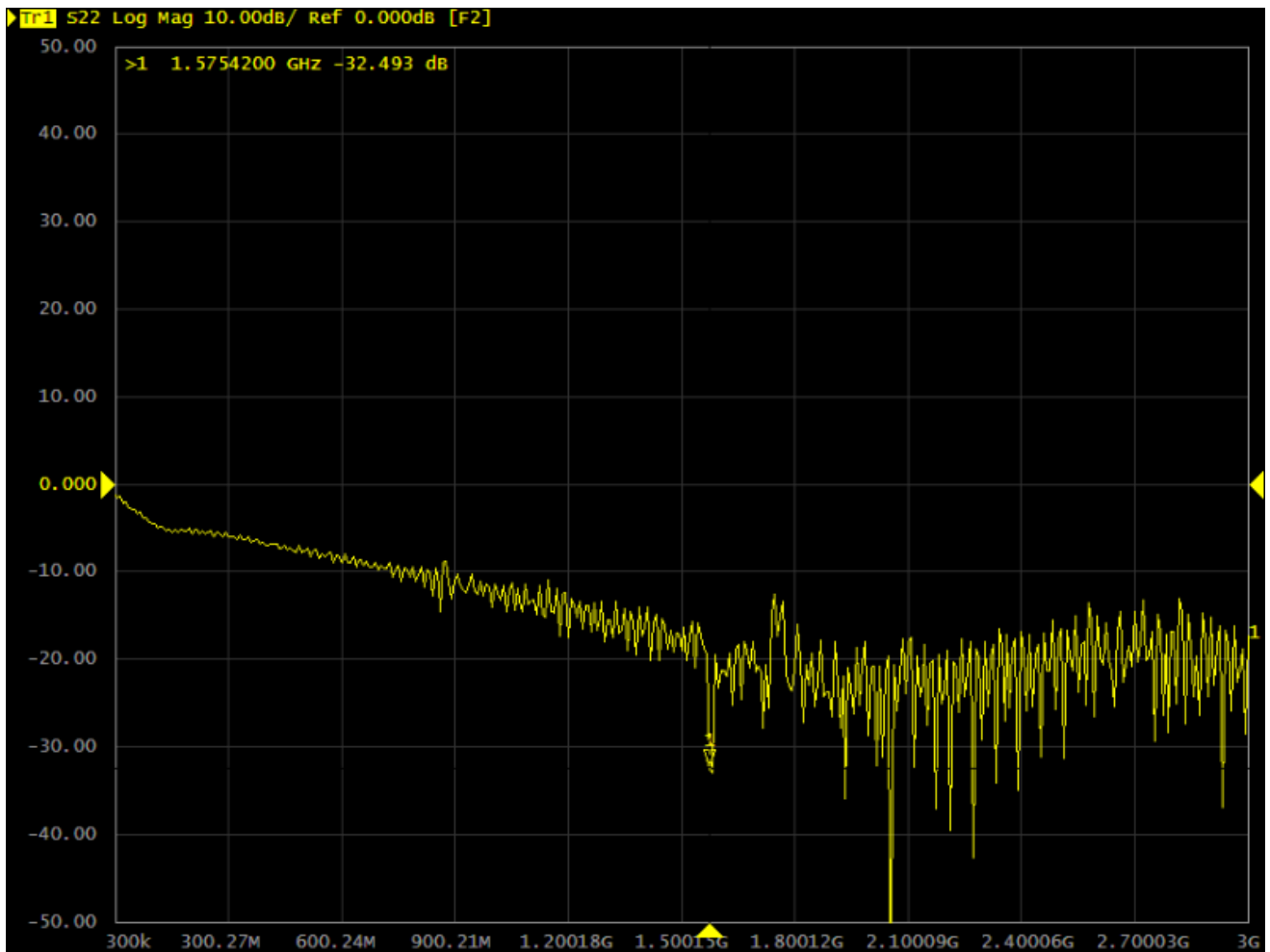
Patch

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

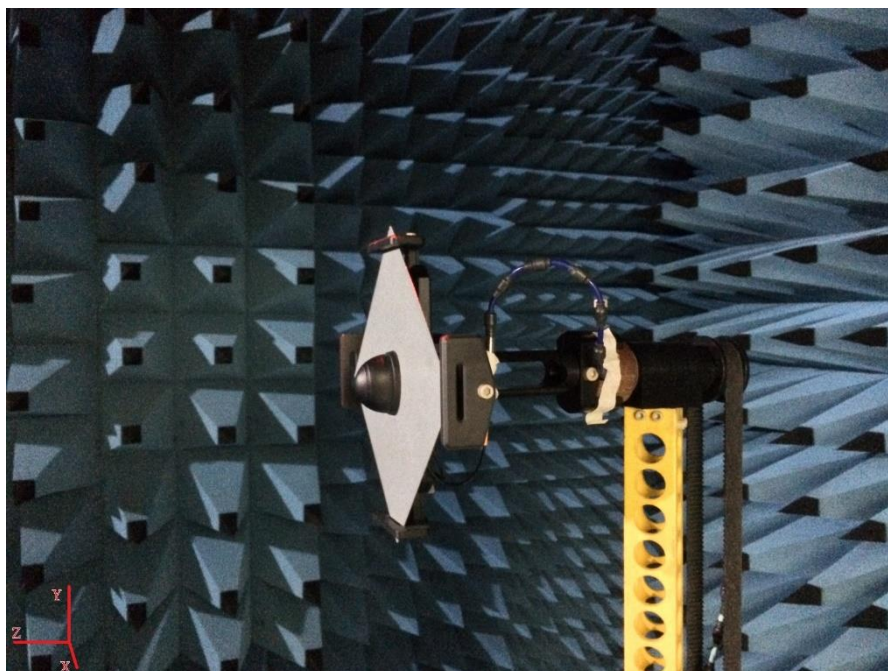
Filter / LNA

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)

Test Report(Return Loss & VSWR)

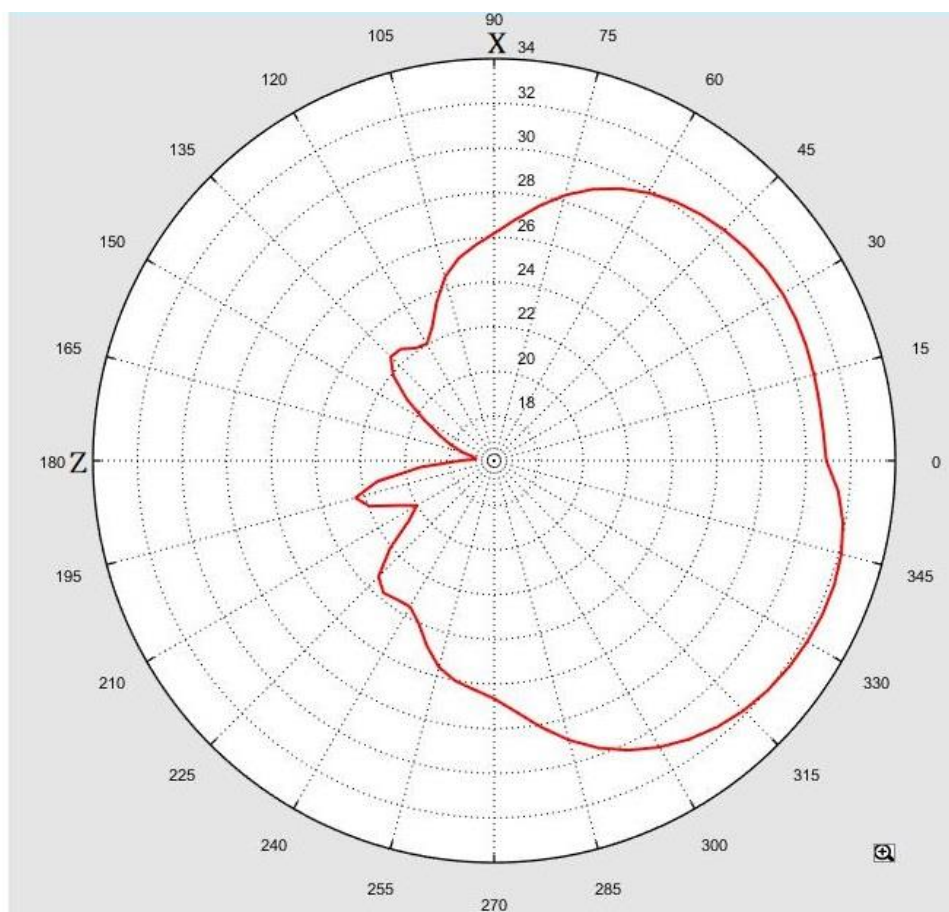


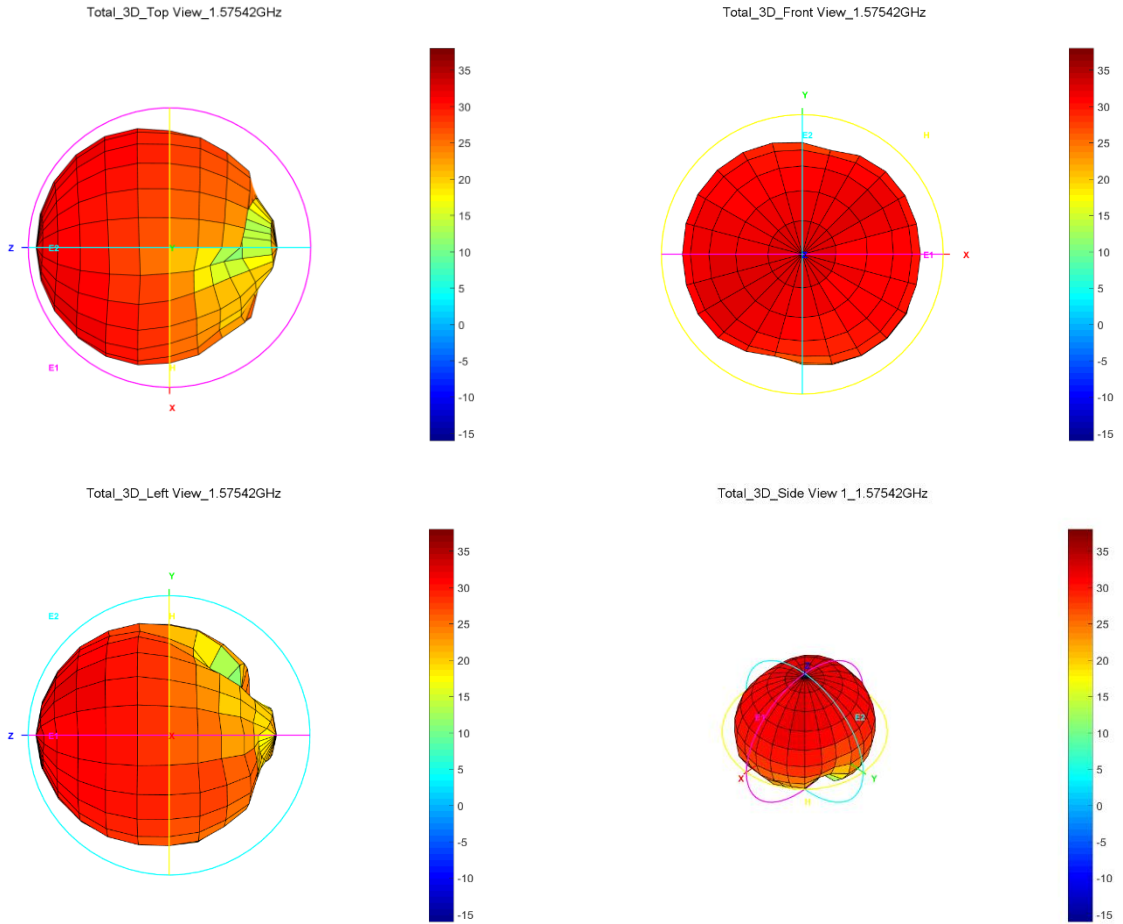
3D Test Photo



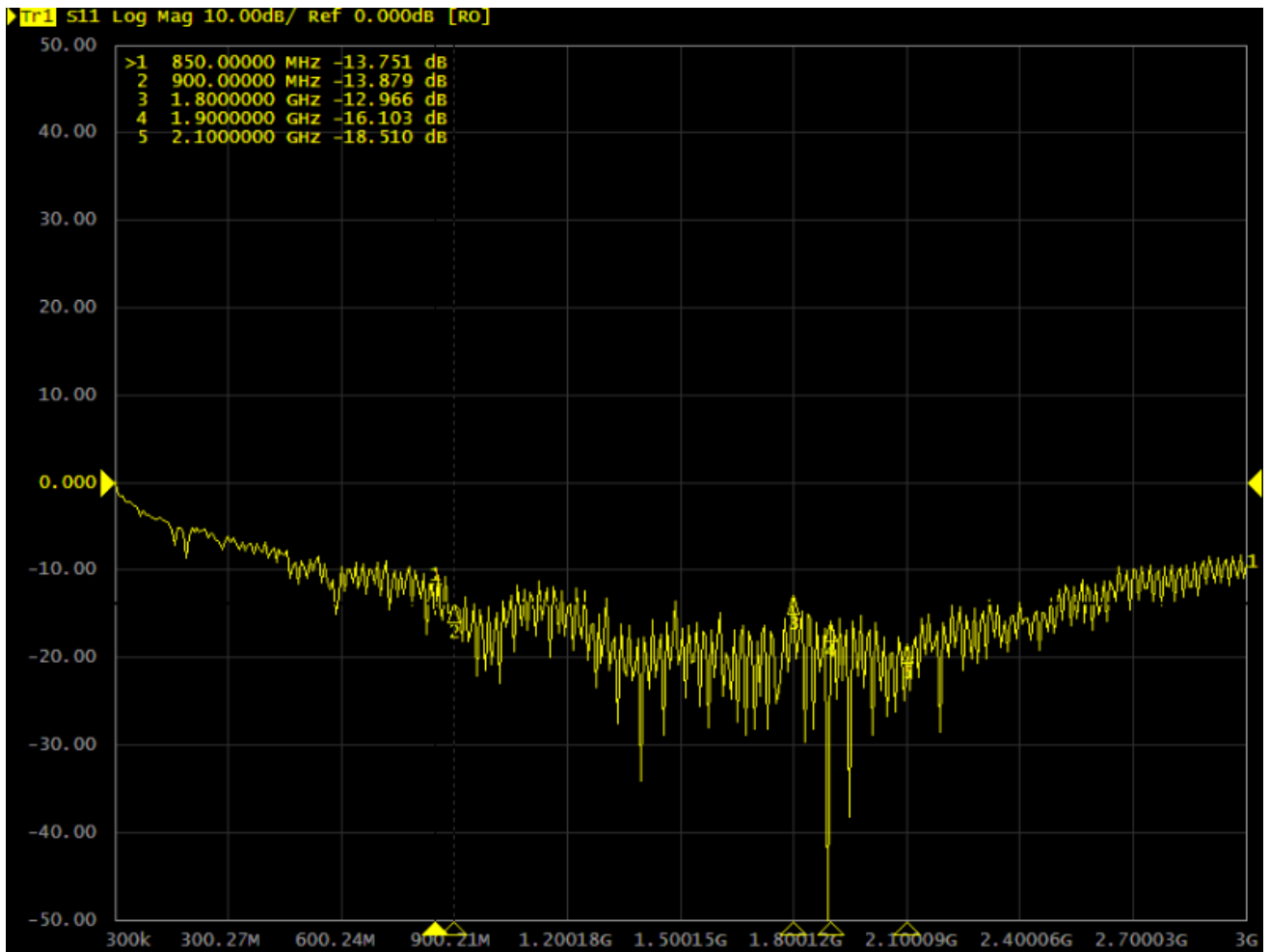
3D Test Data

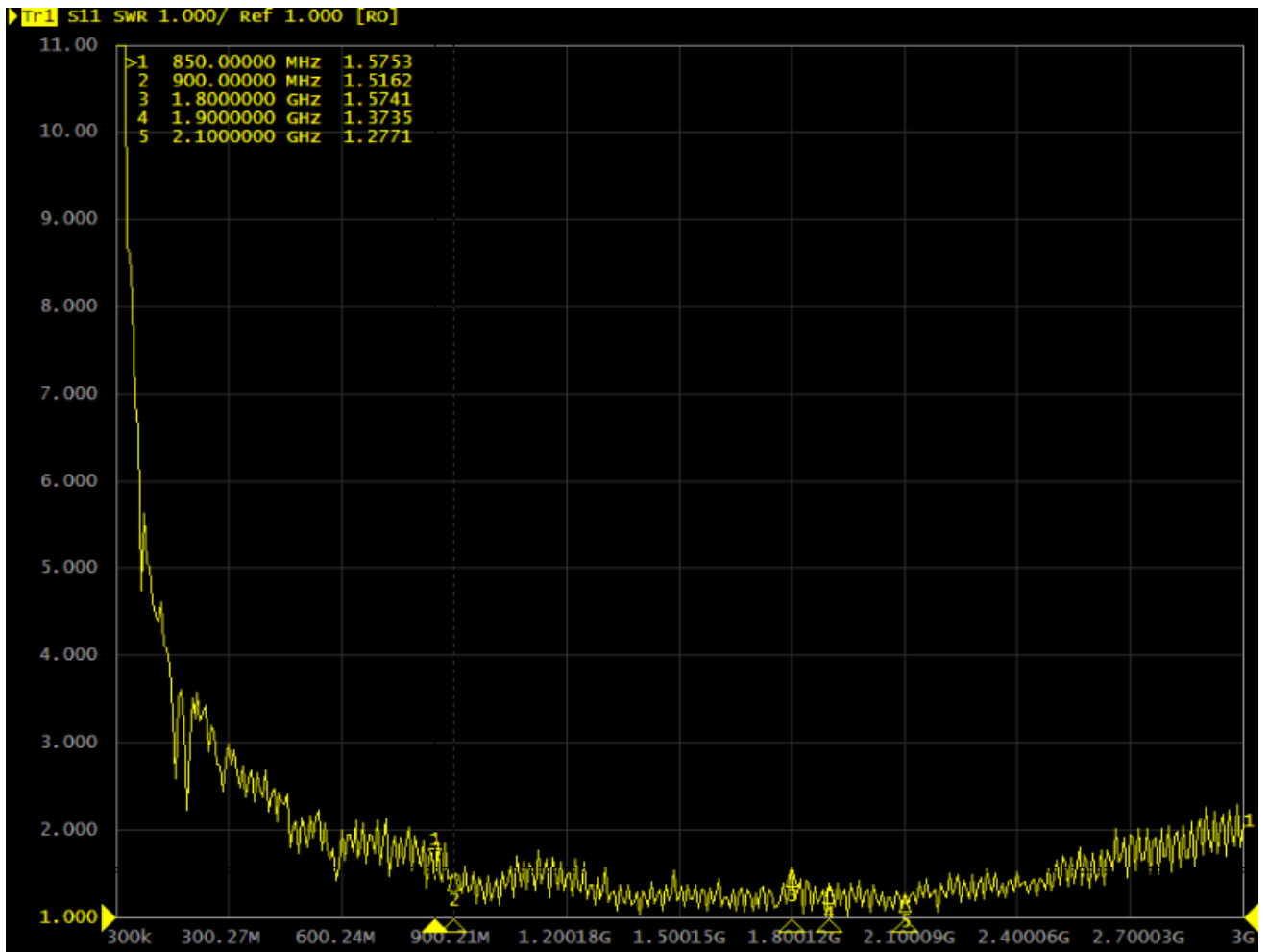
Freq. / Chan.	Color
1.57542GHz	Red





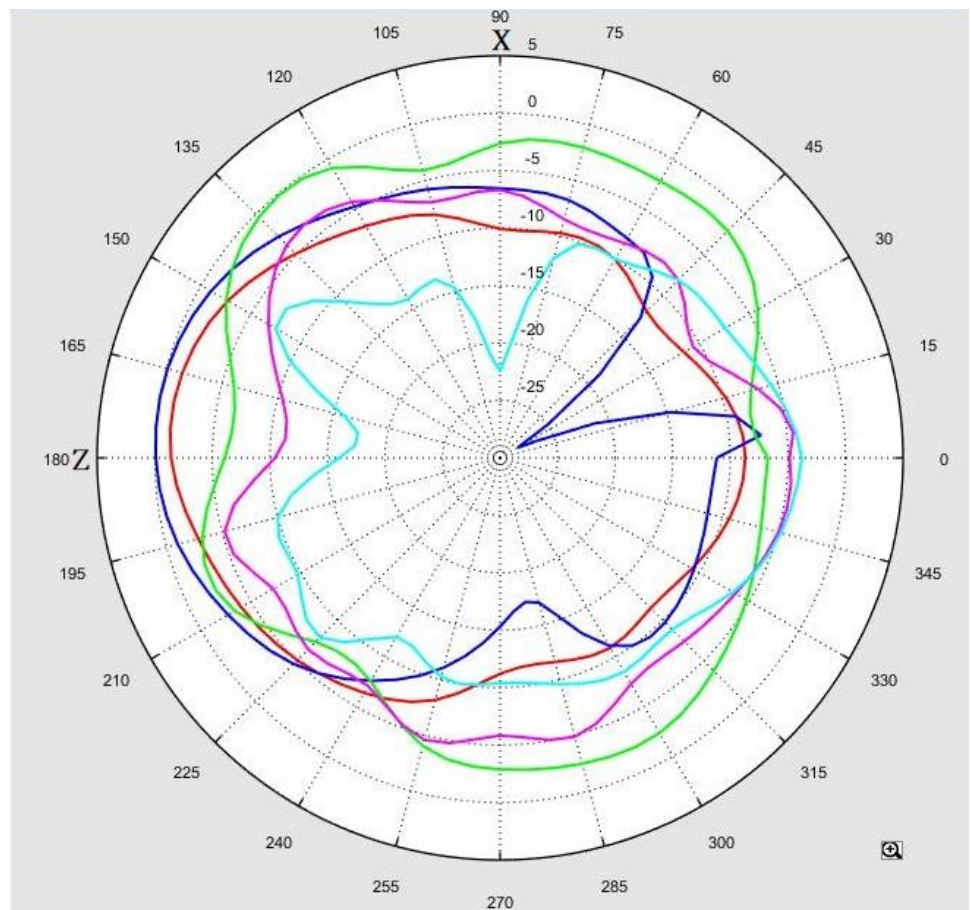
Test Report(Return Loss & VSWR)(3G)



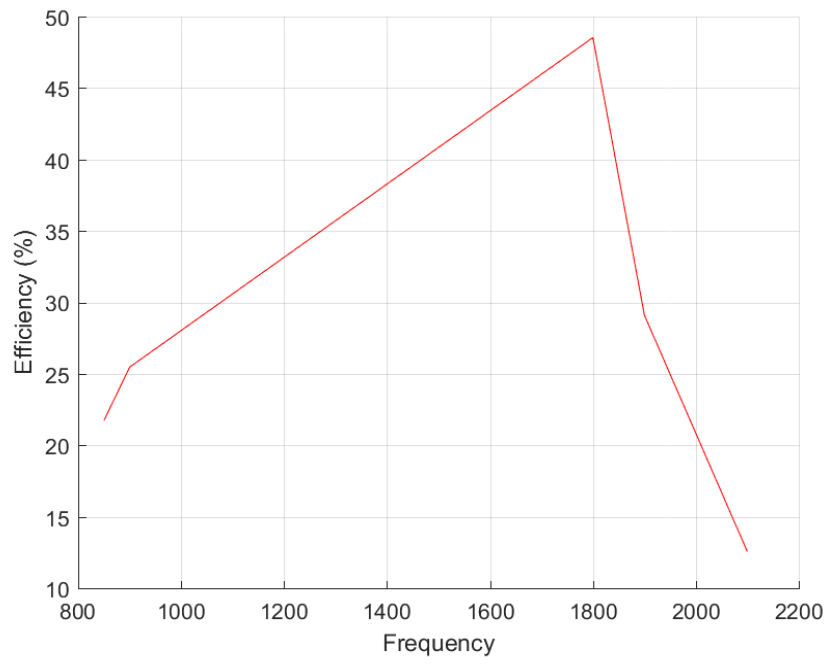


3D Test Data

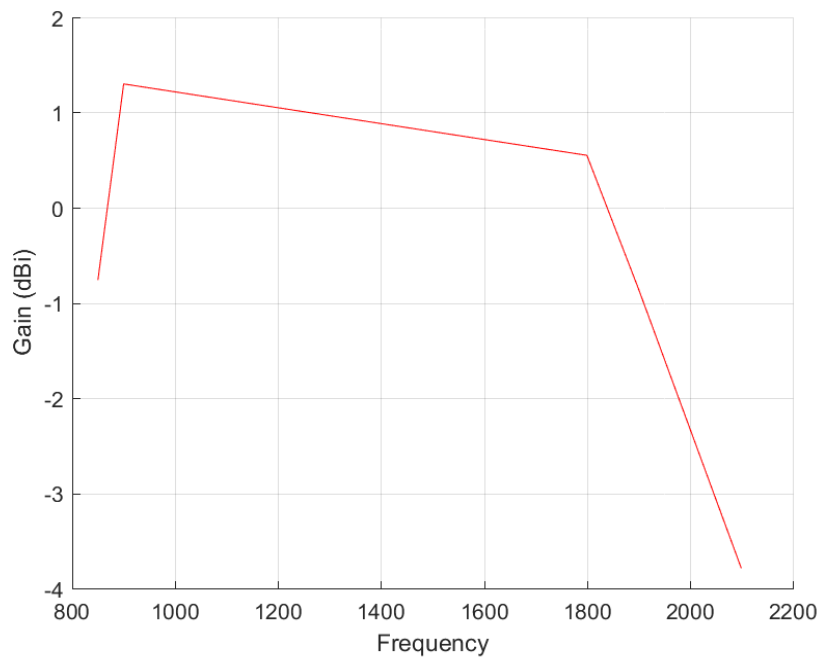
Freq. / Chan.	Color
850MHz	Red
900MHz	Blue
1.8GHz	Green
1.9GHz	Magenta
2.1GHz	Cyan



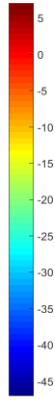
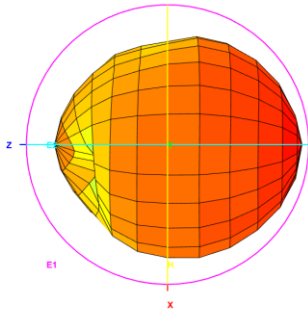
Total_Efficiency (%)



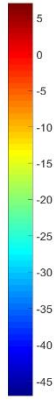
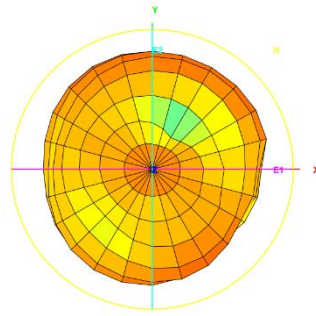
Total_Gain (dBi)



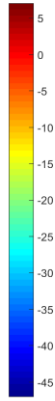
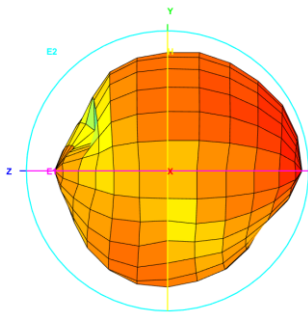
Total_3D_Top View_850MHz



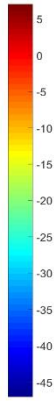
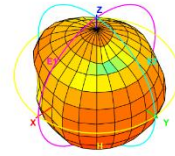
Total_3D_Front View_850MHz



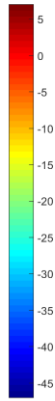
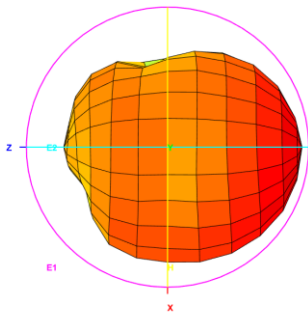
Total_3D_Left View_850MHz



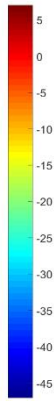
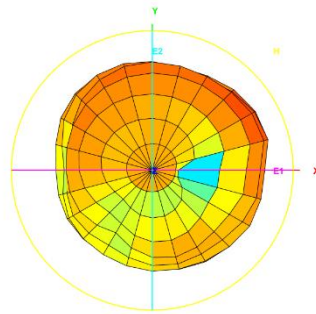
Total_3D_Side View 1_850MHz



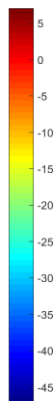
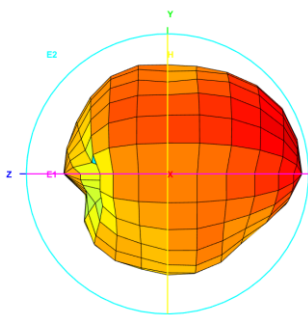
Total_3D_Top View_900MHz



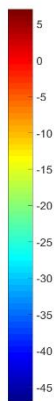
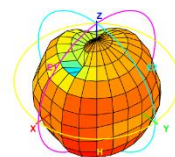
Total_3D_Front View_900MHz



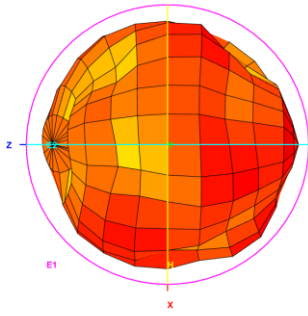
Total_3D_Left View_900MHz



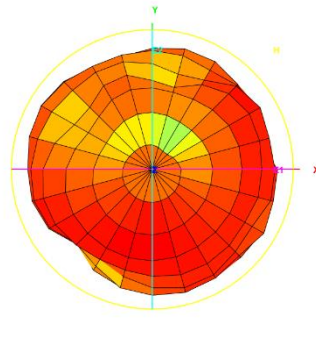
Total_3D_Side View 1_900MHz



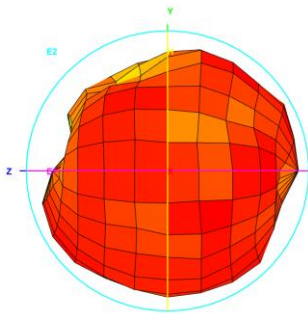
Total_3D_Top View_1.8GHz



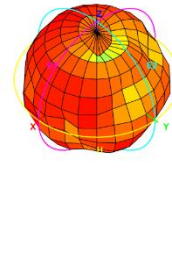
Total_3D_Front View_1.8GHz



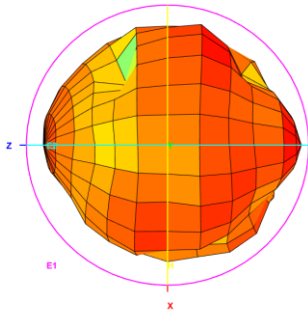
Total_3D_Left View_1.8GHz



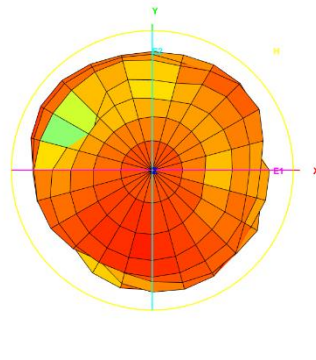
Total_3D_Side View_1.8GHz



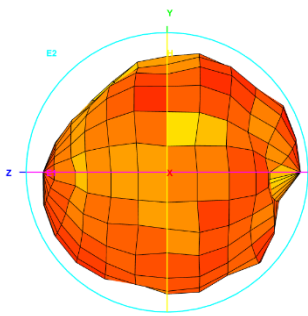
Total_3D_Top View_1.9GHz



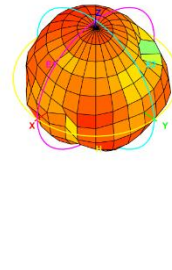
Total_3D_Front View_1.9GHz



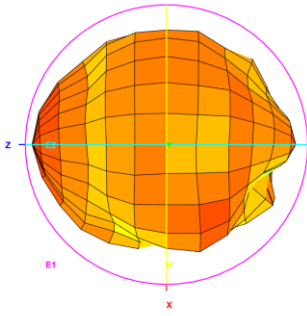
Total_3D_Left View_1.9GHz



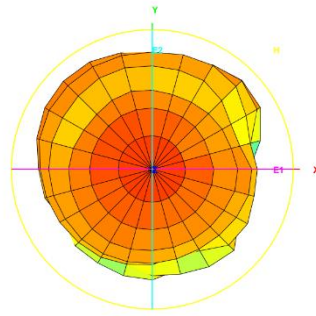
Total_3D_Side View_1.9GHz



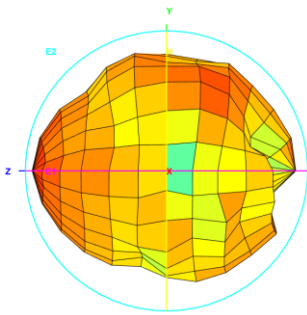
Total_3D_Top View_2.1GHz



Total_3D_Front View_2.1GHz



Total_3D_Left View_2.1GHz



Total_3D_Side View_1_2.1GHz

