



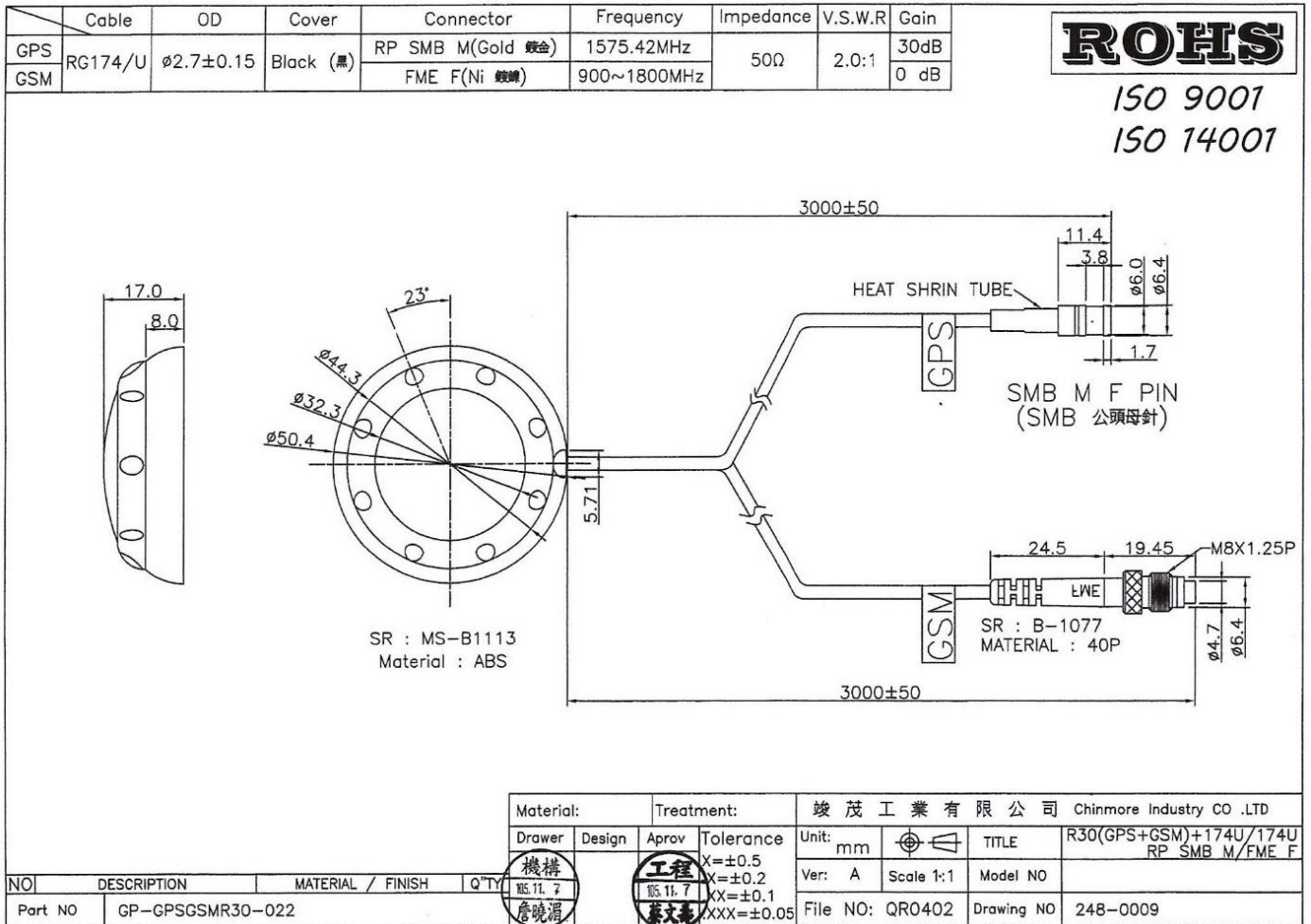
CHINMORE INDUSTRY CO.,LTD

Specification

1. 2-in-1 Combined Antenna for GPS and GSM (R30 series)
2. *Chinmore's* No: GP-GPSGSMR30-022
3. Frequency for GPS: 1575.42 MHz
4. Frequency for GSM: 900~1800 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. Connector for GPS: SMB F
11. Connector for GSM: FME F
12. Cable: RG-174 3M
13. Mounting: 3M Adhesive

✘RoHS Compliant

✘ISO 9001 & ISO 14001



Patch

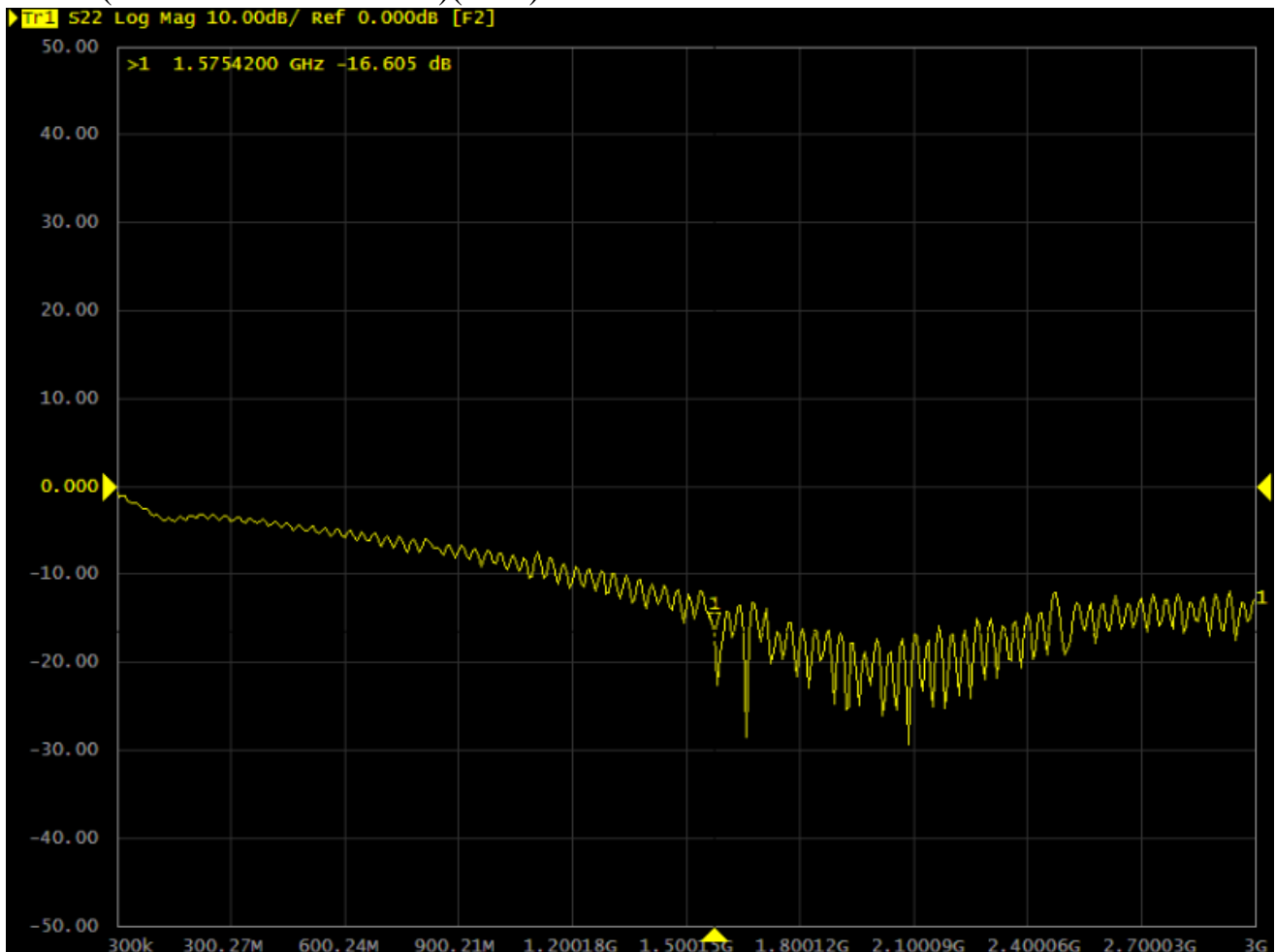
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	1 dBic typ
Gain at 10° elevation	-5 dBic typ
Polarization	R.H.C.P
Axial Ratio	1.0 dB typ

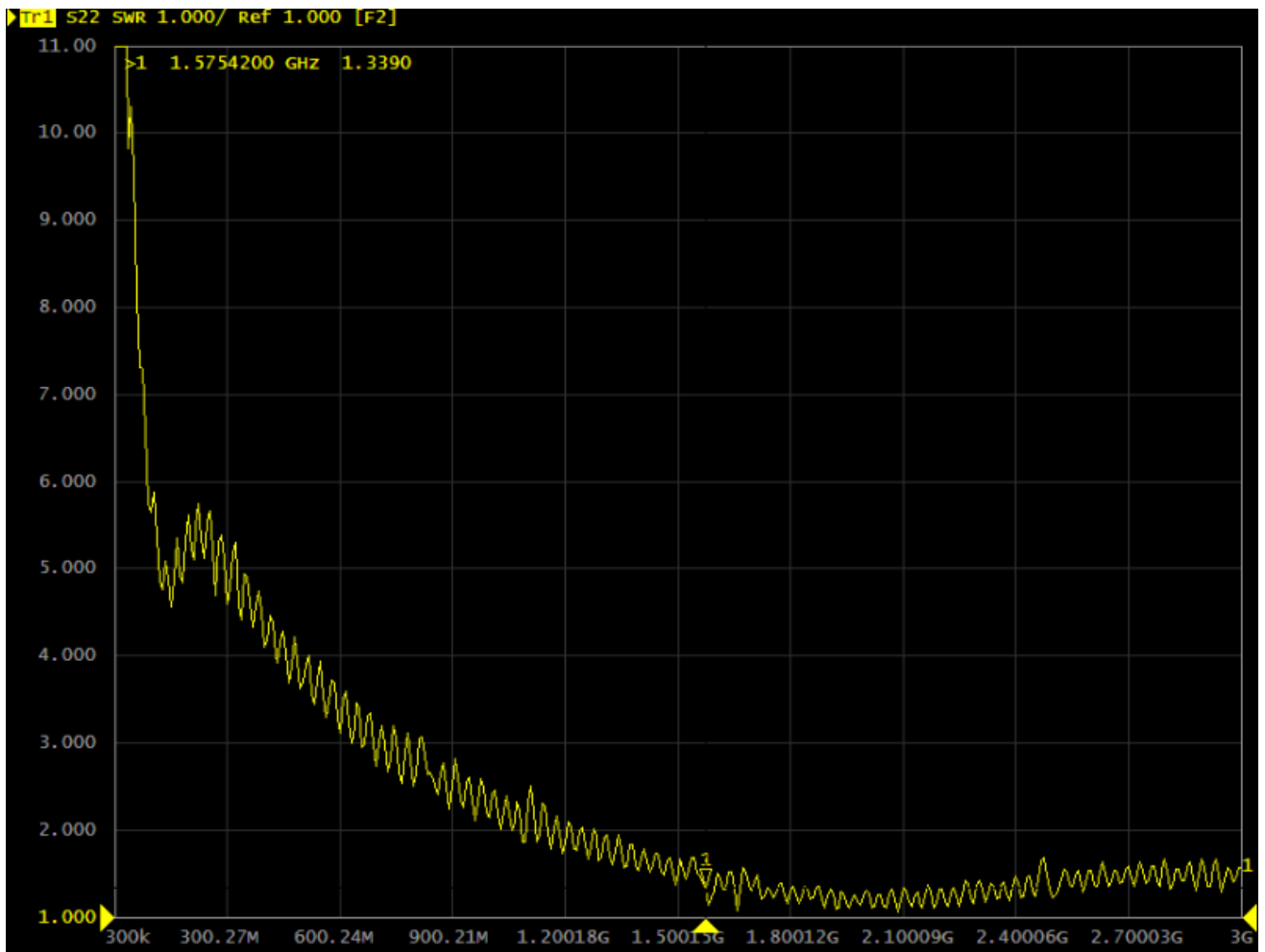
Filter / LNA

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)

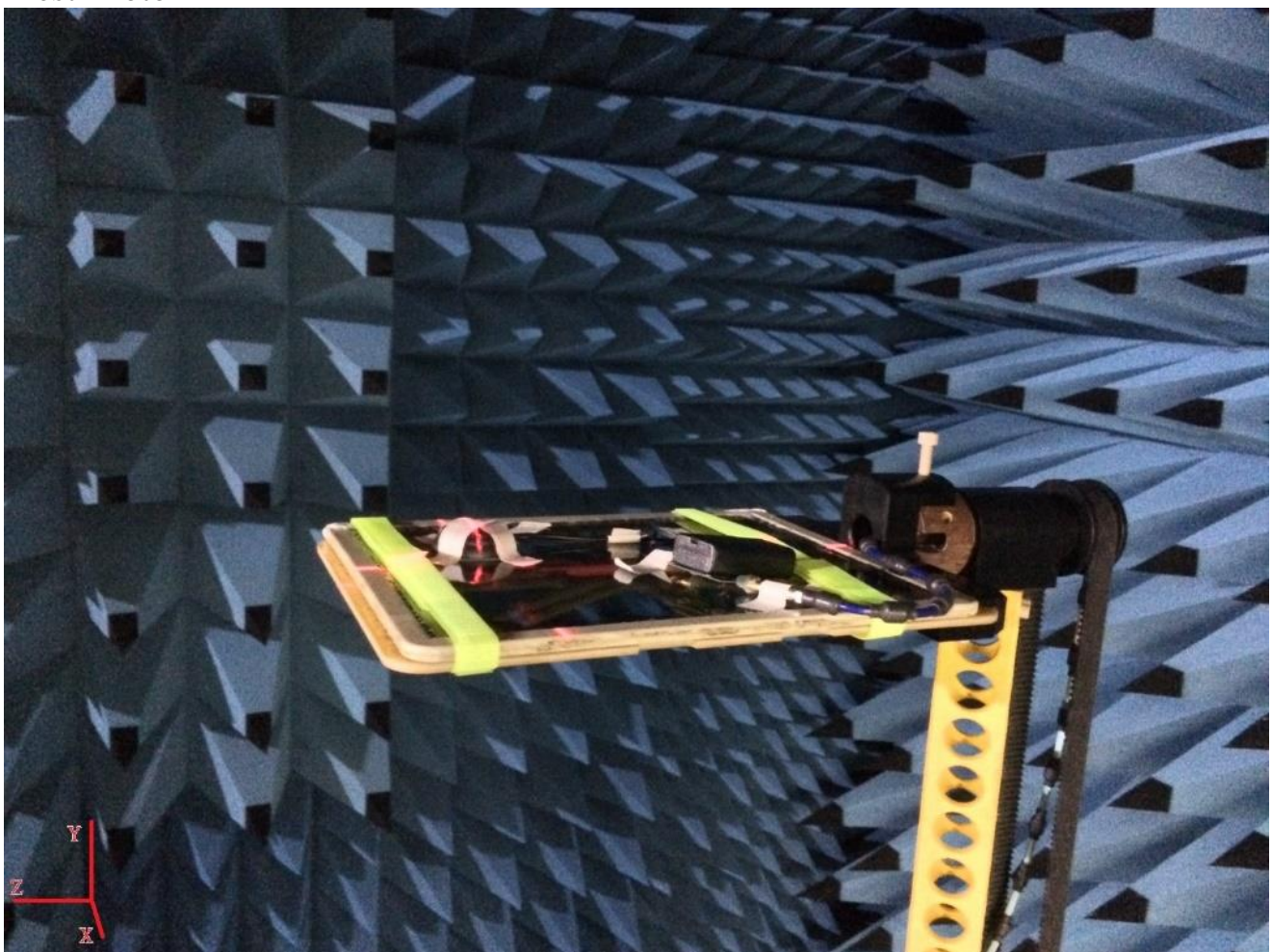
Frequency (MHz)	Return Loss (dB)	VSWR	Gain (dBi)
1575.42	-16.60	1.33	29.59

Test Data(Return Loss & VSWR)(GPS)



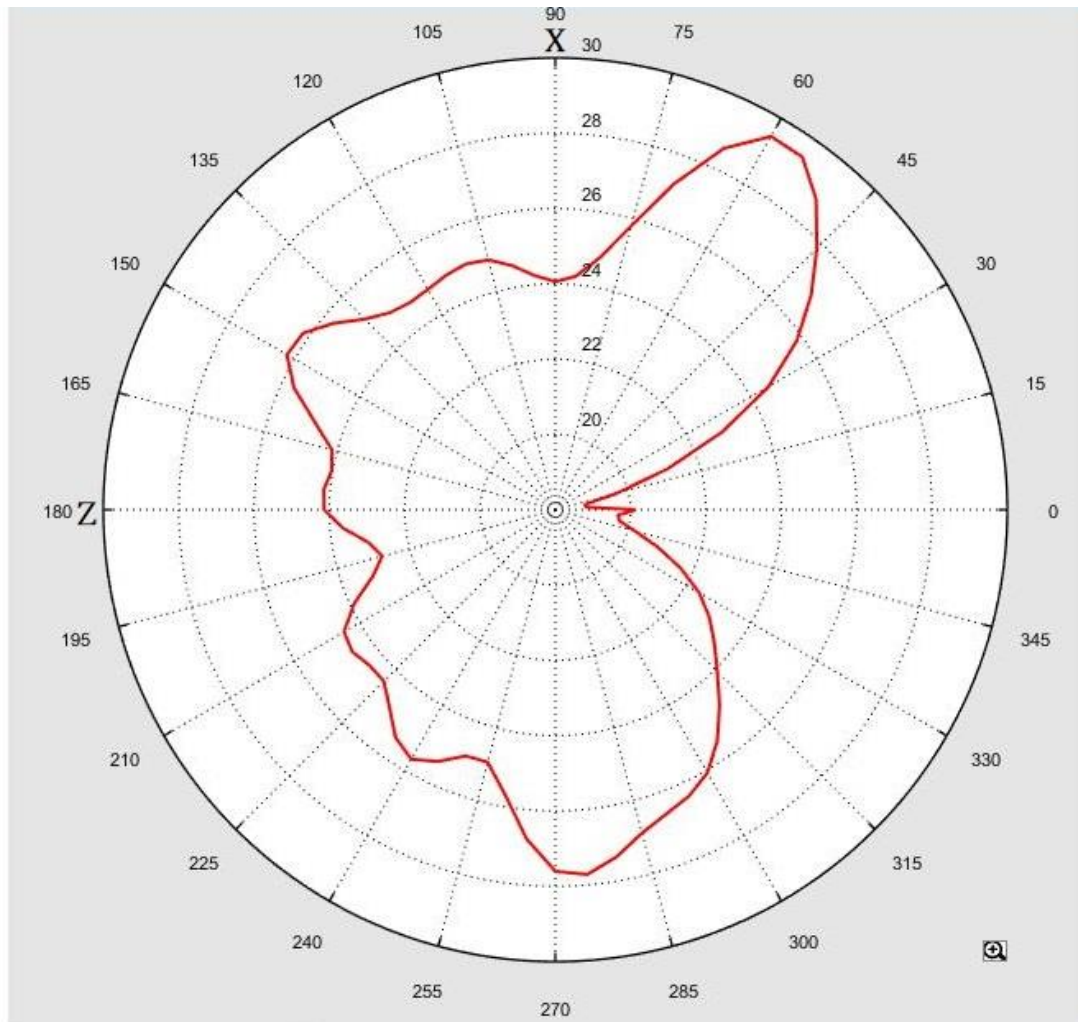


3D Test Photo



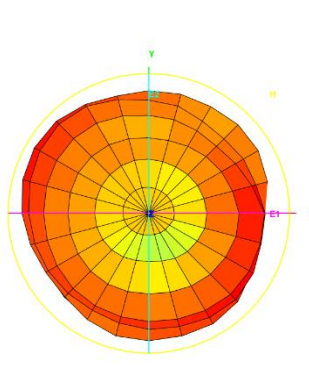
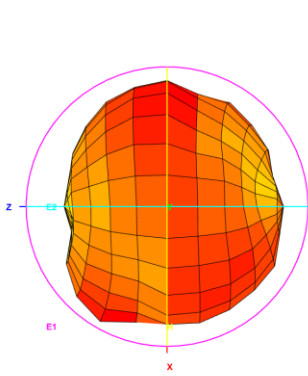
3D Test Data

Freq. / Chan.	Color
1.57542GHz	█



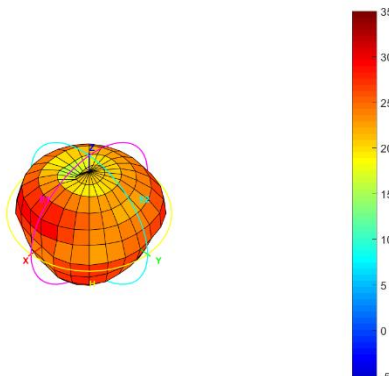
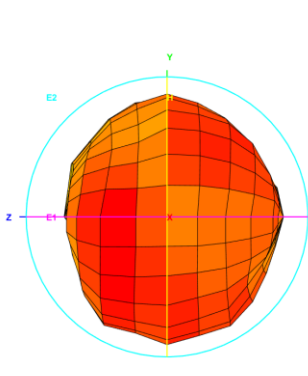
Total_3D_Top View_1.57542GHz

Total_3D_Front View_1.57542GHz



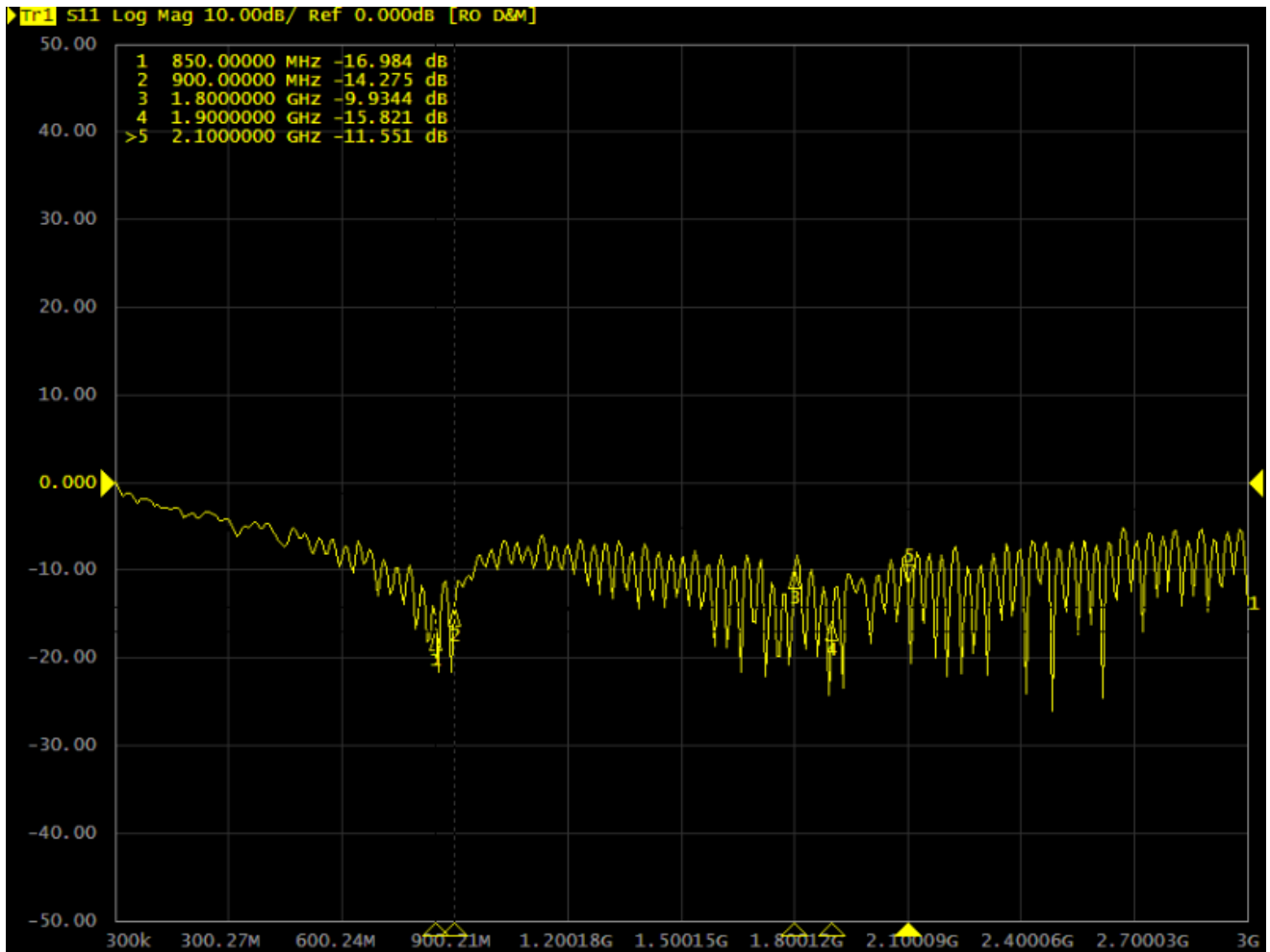
Total_3D_Left View_1.57542GHz

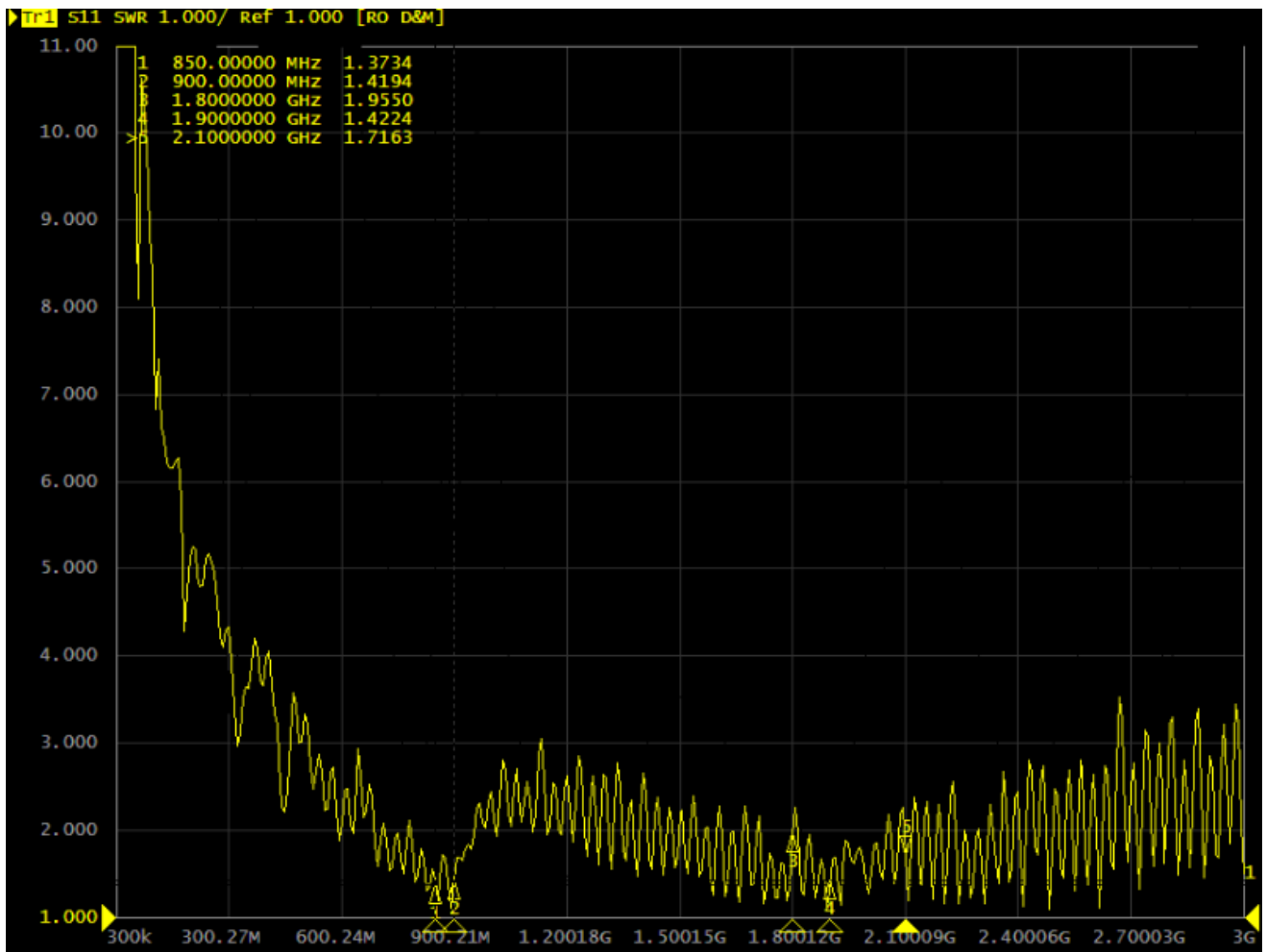
Total_3D_Side View_1.57542GHz



Frequency (MHz)	Return Loss (dB)	VSWR	Efficiency (%)	Gain (dBi)
850	-16.98	1.37	32.58	-0.59
900	-14.27	1.41	39.17	0.14
1800	-9.93	1.95	27.1	-2.01
1900	-15.82	1.42	16.87	-1.74
2100	-11.55	1.71	55.98	5.2

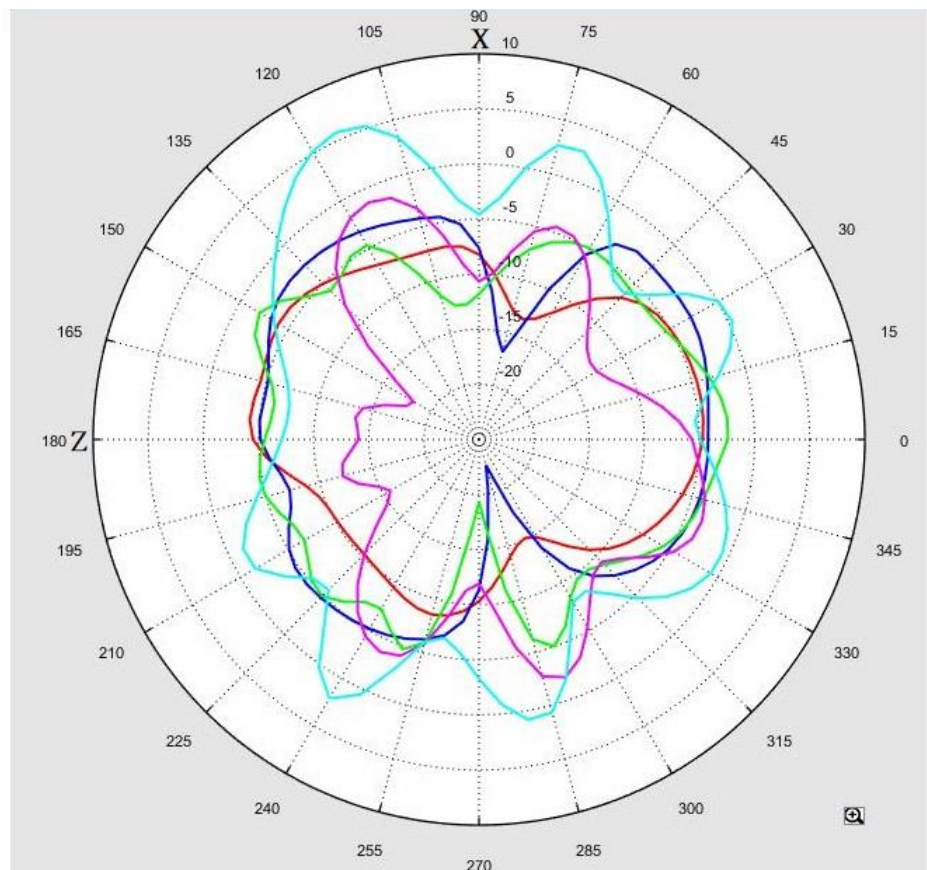
Test Data(Return Loss & VSWR)(GSM)



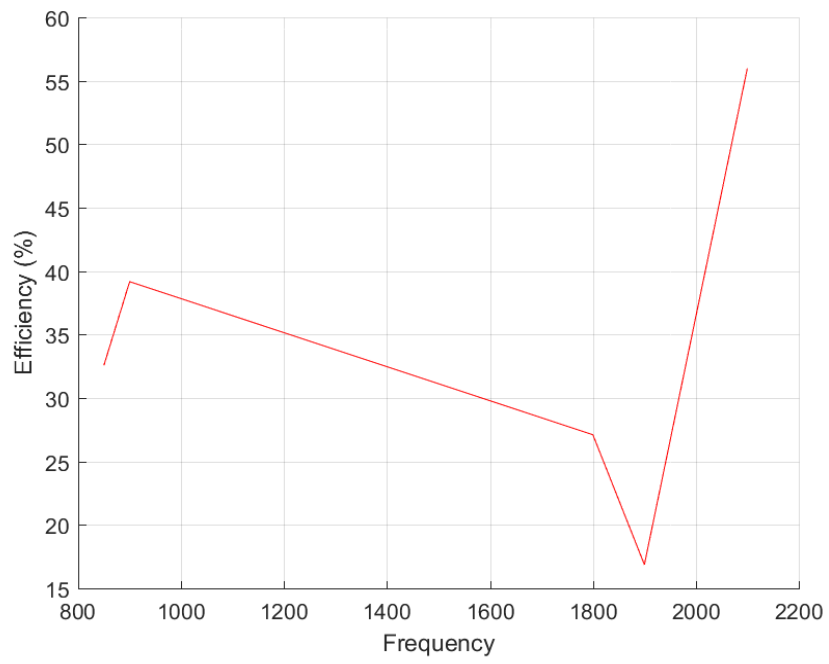


3D Test Data

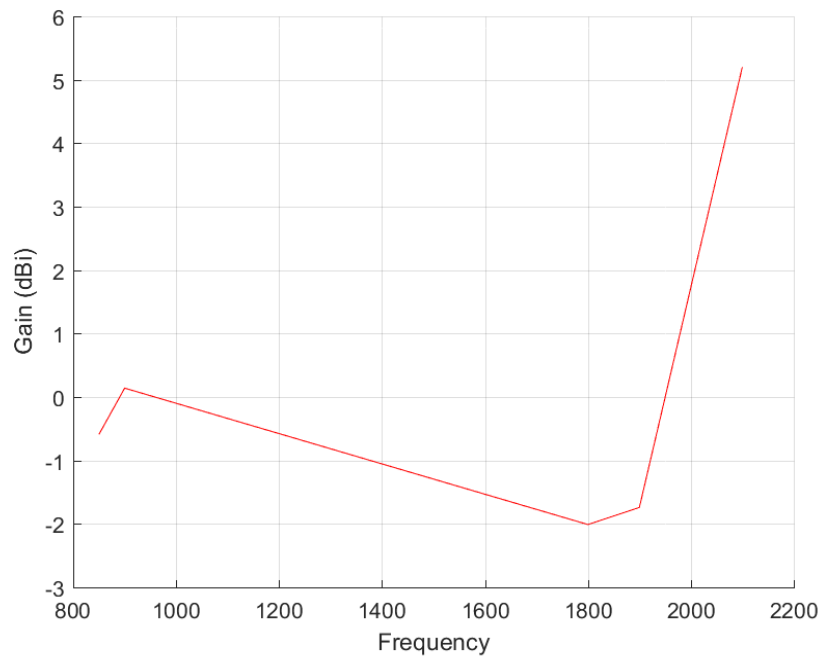
Freq. / Chan.	Color
850MHz	Red
900MHz	Blue
1.8GHz	Green
1.9GHz	Magenta
2.1GHz	Cyan



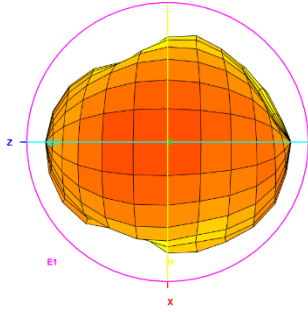
Total_Efficiency (%)



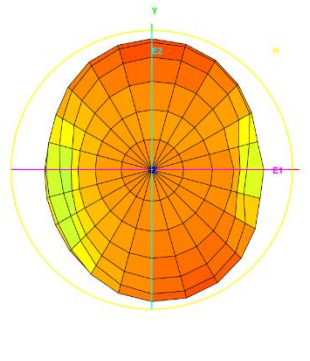
Total_Gain (dBi)



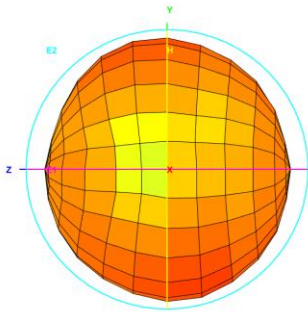
Total_3D_Top View_850MHz



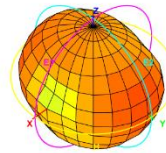
Total_3D_Front View_850MHz



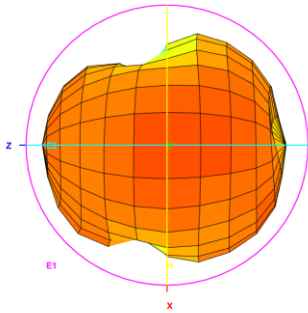
Total_3D_Left View_850MHz



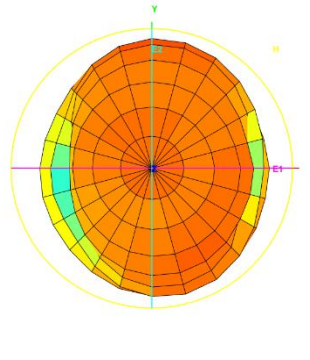
Total_3D_Side View 1_850MHz



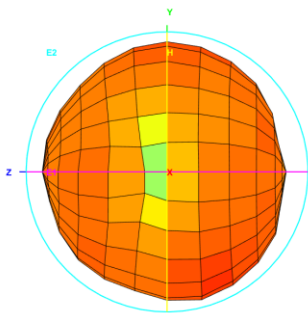
Total_3D_Top View_900MHz



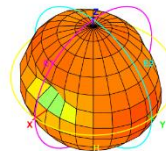
Total_3D_Front View_900MHz



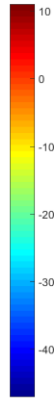
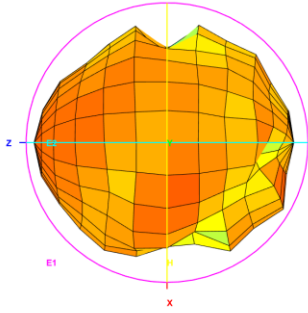
Total_3D_Left View_900MHz



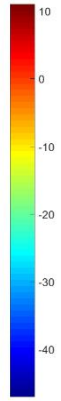
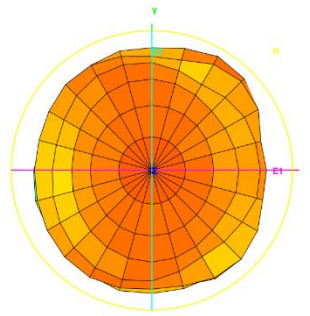
Total_3D_Side View 1_900MHz



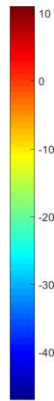
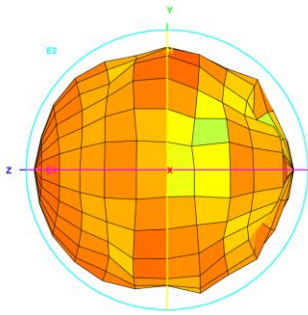
Total_3D_Top View_1.8GHz



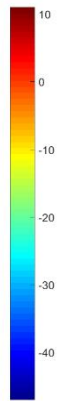
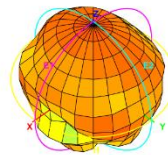
Total_3D_Front View_1.8GHz



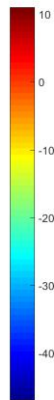
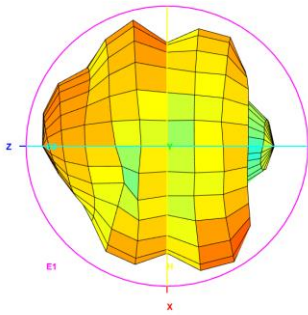
Total_3D_Left View_1.8GHz



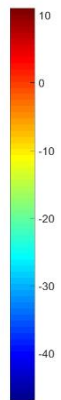
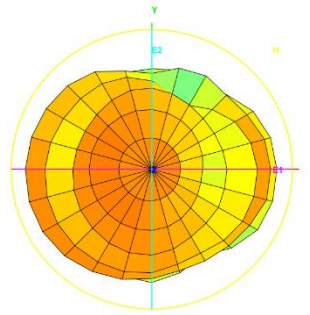
Total_3D_Side View 1.8GHz



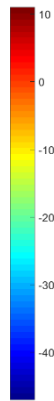
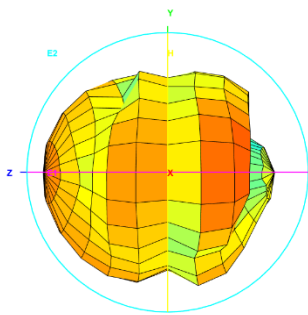
Total_3D_Top View_1.9GHz



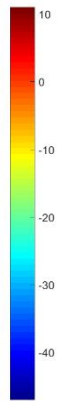
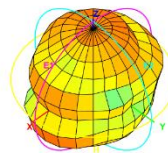
Total_3D_Front View_1.9GHz



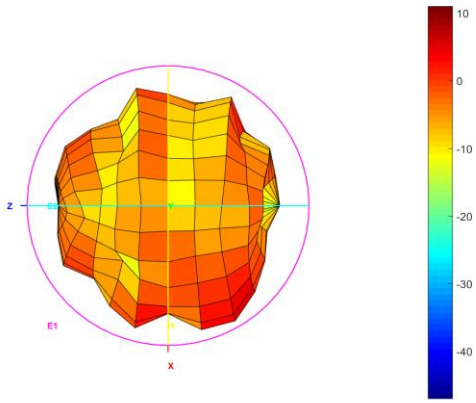
Total_3D_Left View_1.9GHz



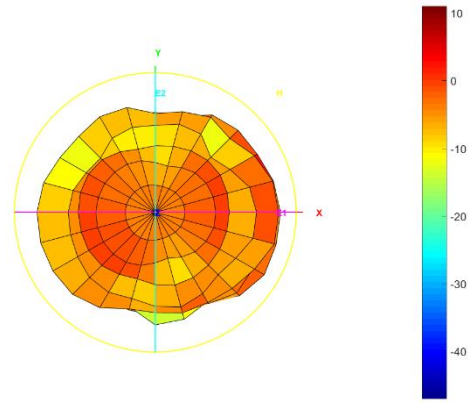
Total_3D_Side View 1.9GHz



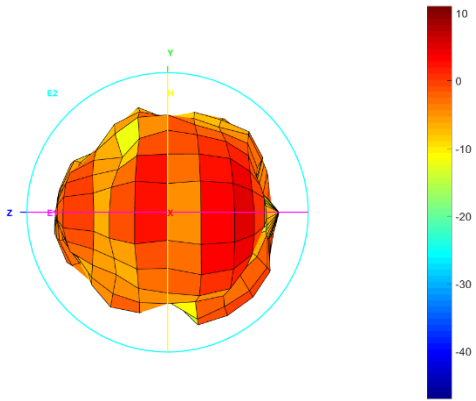
Total_3D_Top View_2.1GHz



Total_3D_Front View_2.1GHz



Total_3D_Left View_2.1GHz



Total_3D_Side View 1_2.1GHz

