

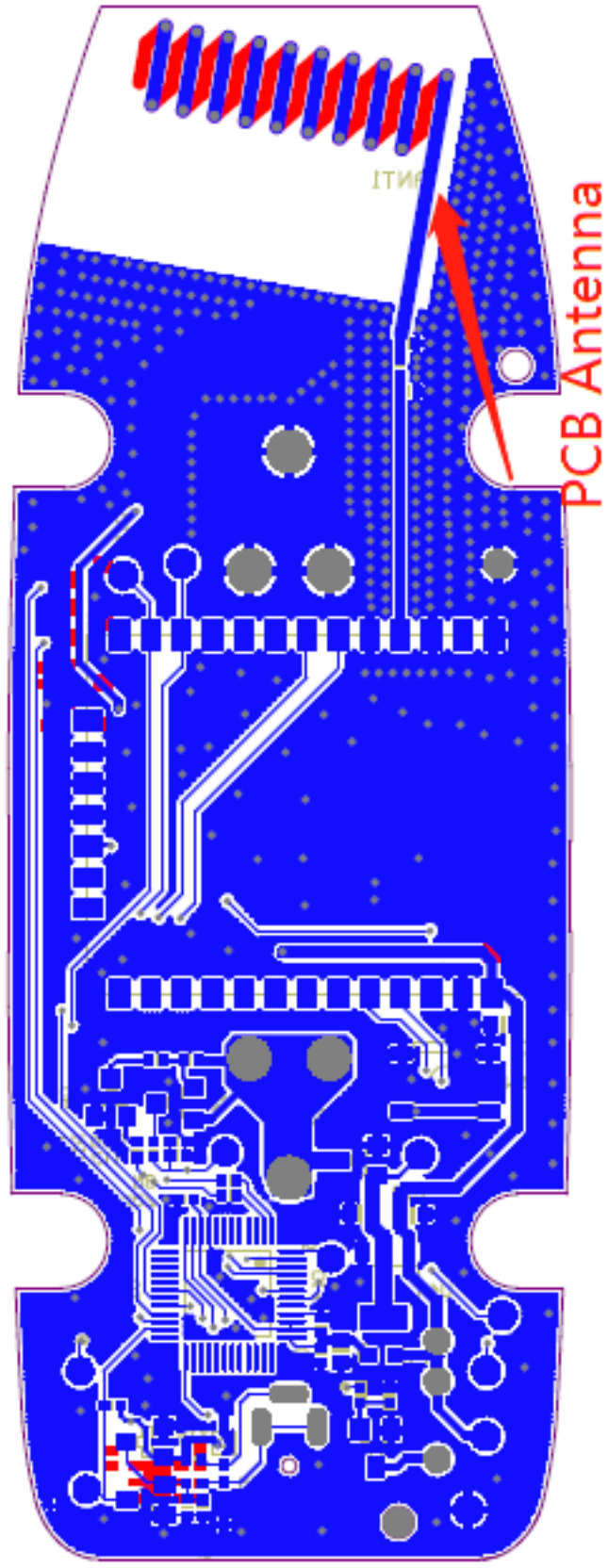


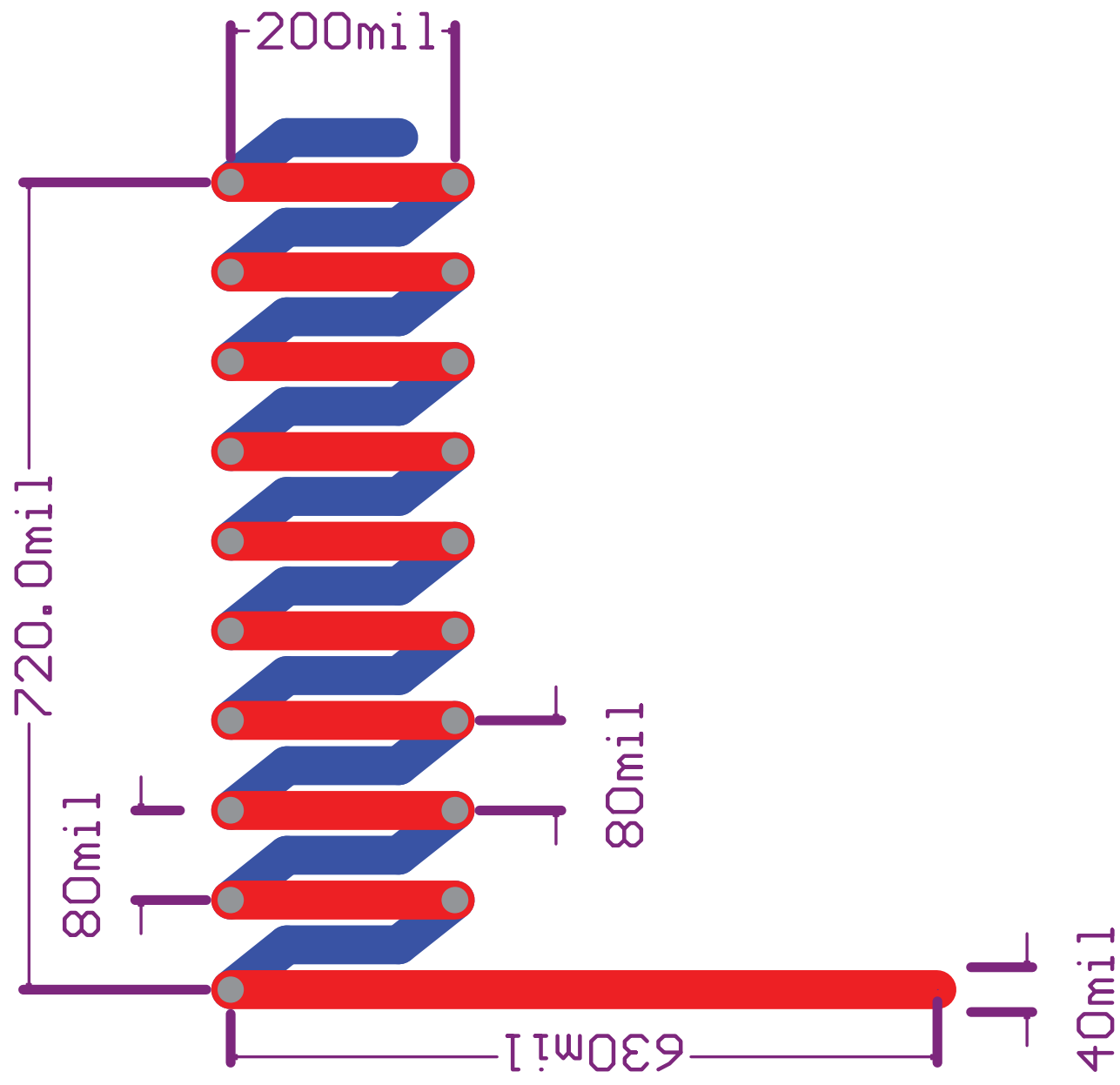
868/915MHz Antenna Proposal Report

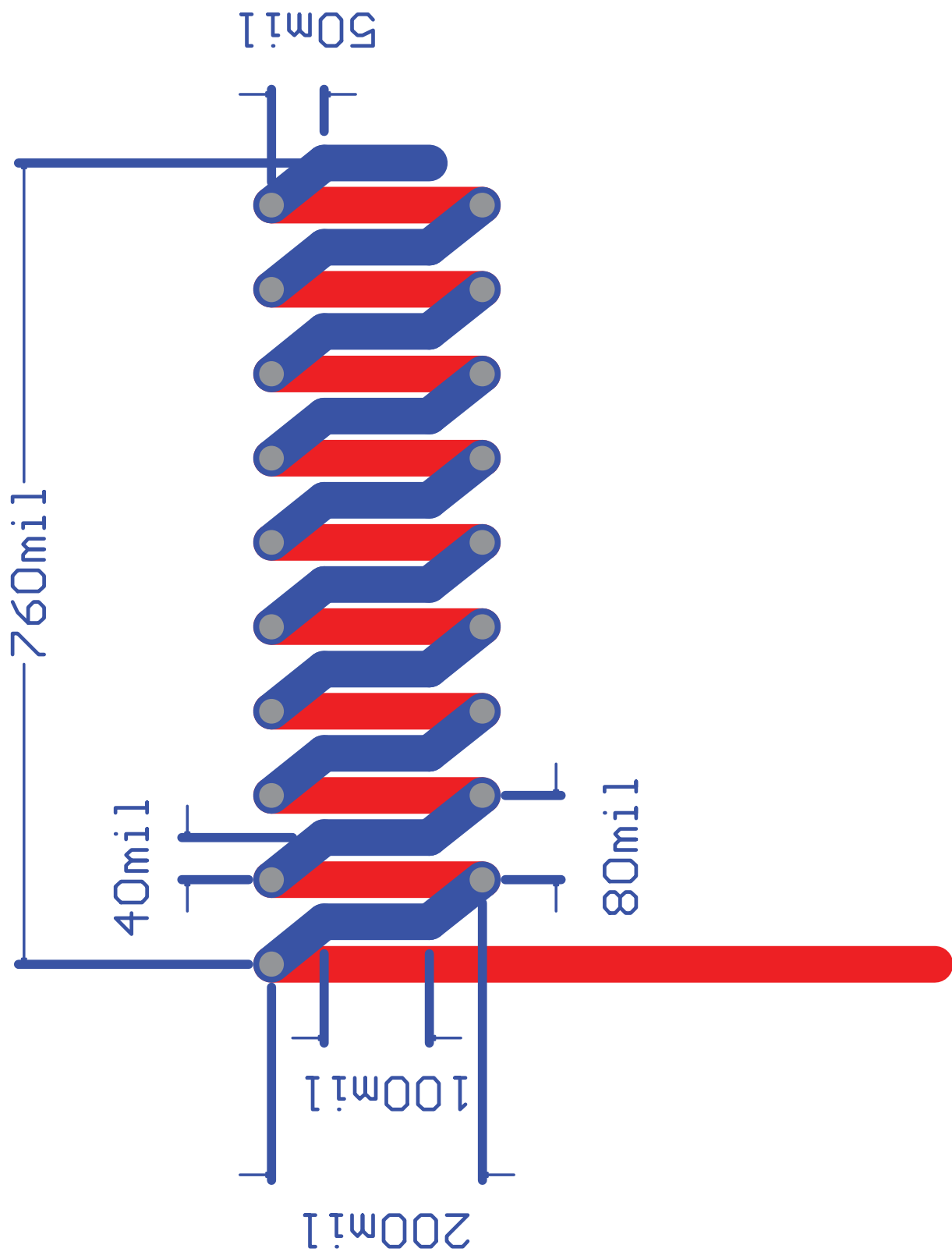
Manufacturer: Shenzhen Fusheng Cloud Technology Co., LTD
Address: Room A1302, Gaosheng Building, No. 18, Shajing
Street Center Road, Bao'an District, ShenZhen,China

✚ Project:868/915MHz Antenna
✚ Proposal Report
● 868 - 915MHz

✚ Report Date: 2024.11.28
✚ Report Version: 1.0
✚ Prepared by: KEN
✚ Approved by: IAN





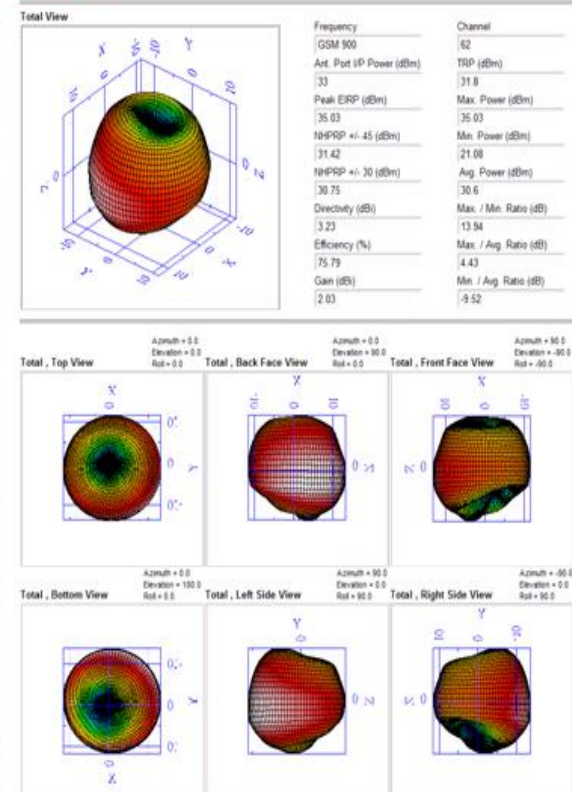
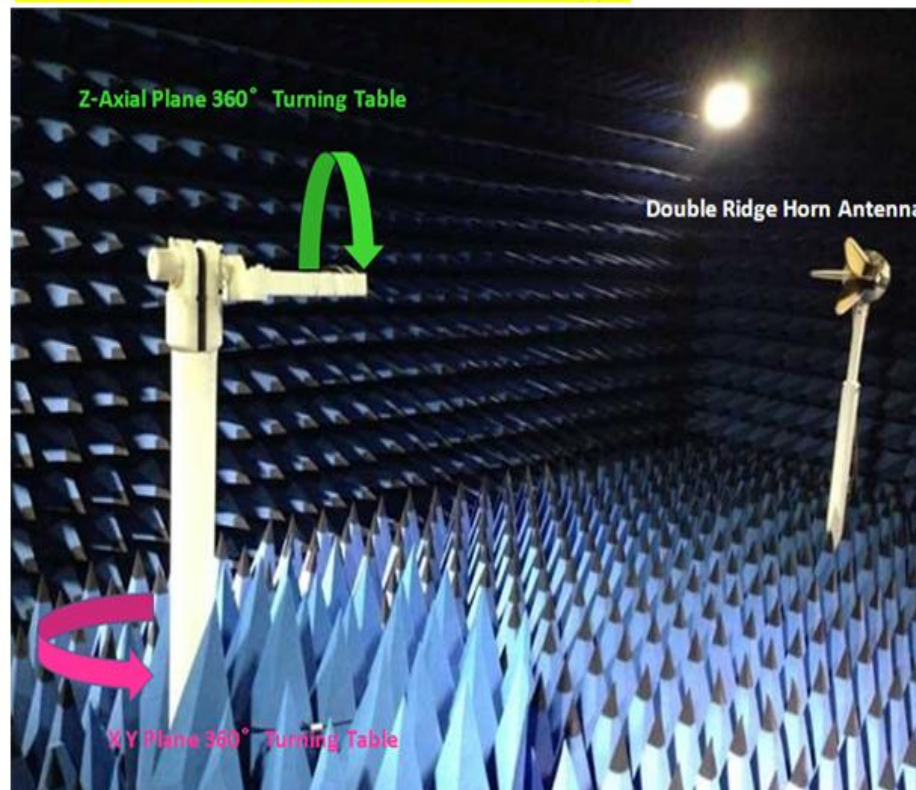
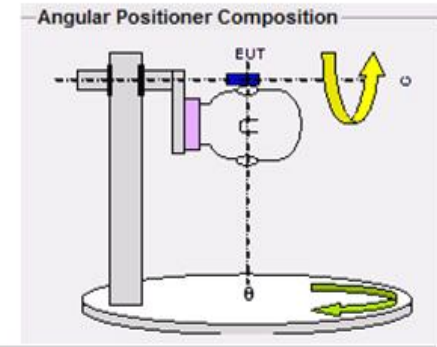
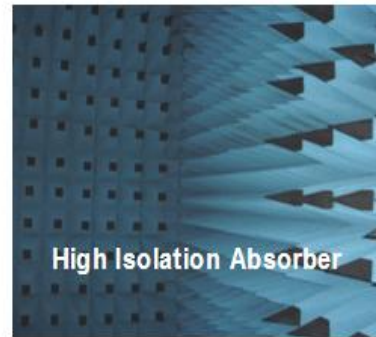


◆ Contents:

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- ◆ 2. Test Results
 - 3.1 S-Parameters
 - 3.2 Efficiency and Peak Gain

1. Testing Item & Equipment

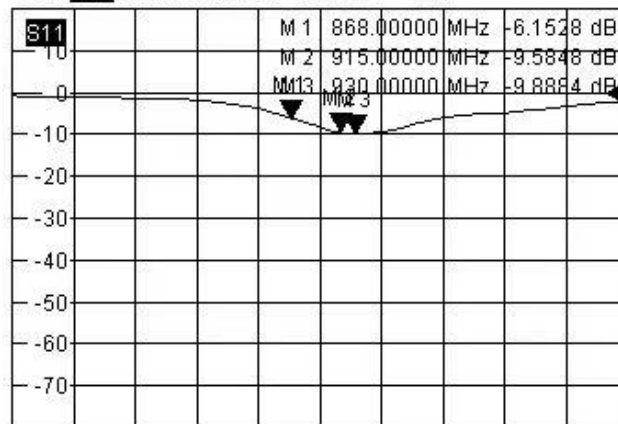
.Chamber Size: 8 x 4 x 4 m³
 .Freq. Range: 0.7 ~ 6.0 GHz
 .Double Ridge Horn Antenna x 2
 .VNA: Agilent 5071B
 .LTE Tester: R&S CMW 500
 .3D Turning Table and Positioner
 .ADT Solution 3D Testing Software
 .CTIA 3D EIRP / 3D TRP / 3D TIS Testing



868/915MHz天线

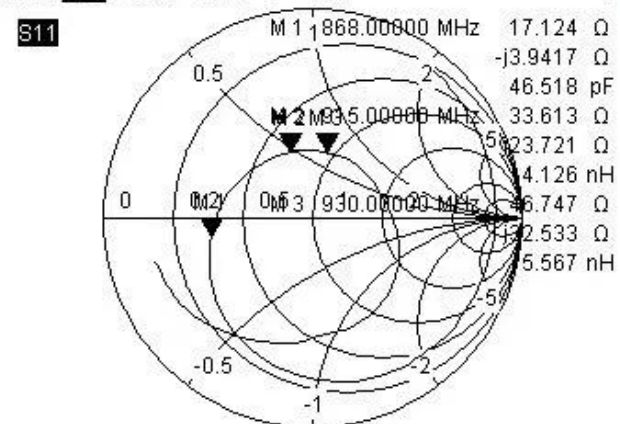


Trc1 **S11** dB Mag 10 dB / Ref 0 dB Cal



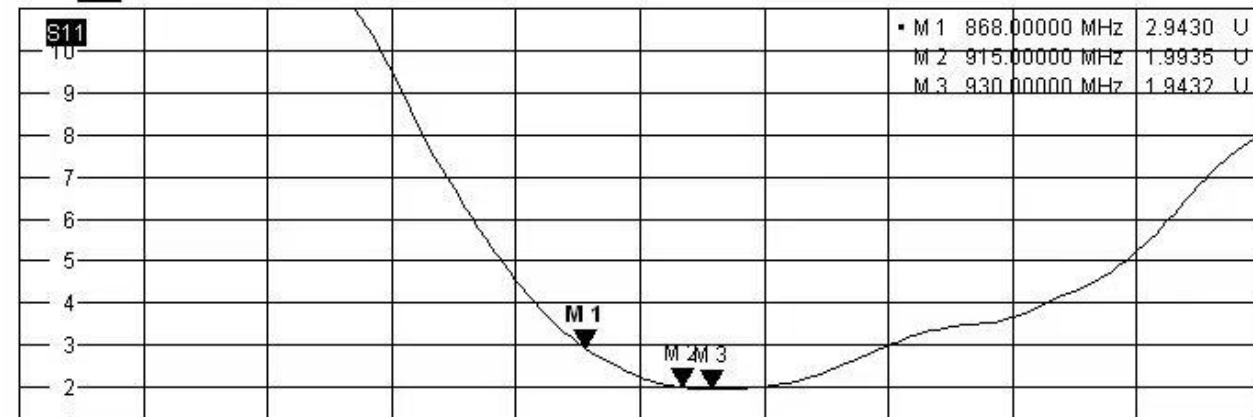
Ch1 Center 895 MHz Pwr 0 dBm Span 600 MHz

Trc2 **S11** Smith Ref1 U Cal



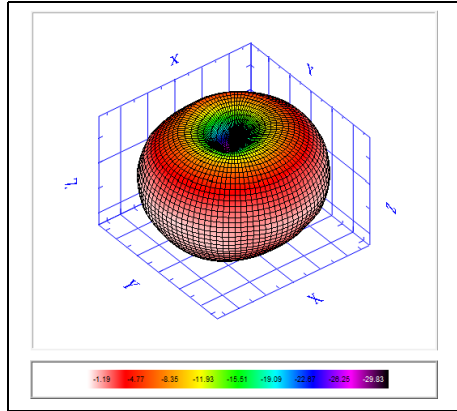
Ch1 Center 895 MHz Pwr 0 dBm Span 600 MHz

Trc3 **S11** SWR 1 U / Ref1 U Cal

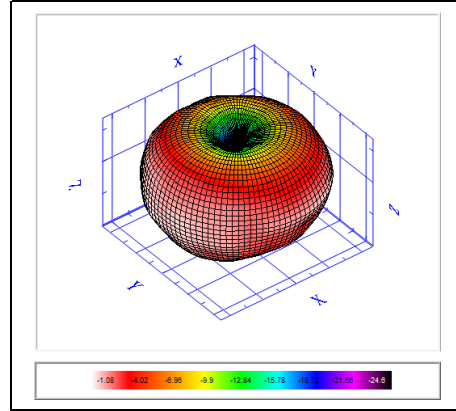


3.2 Efficiency and Peak Gain

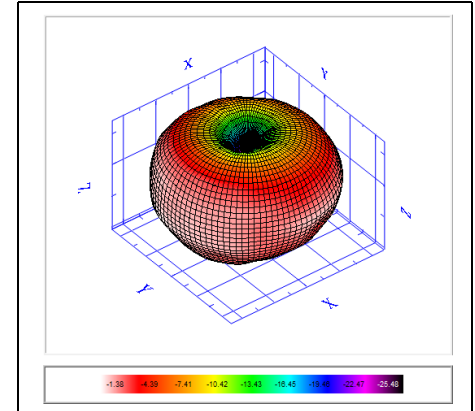
868MHz



890MHz



915MHz



Frequency	868	873	880	885	890	895	900	905	910	915
E-Total Peak Gain (dBi)	-1.19	-0.87	-1.08	-1.82	-1.08	-1.23	-1.18	-1.24	-1.08	-1.38
Directivity (dBi)	2.32	2.33	2.32	2.39	2.38	2.32	2.47	2.42	2.38	2.47
Efficiency (%)	44.47	47.93	45.73	42.76	45.08	44.17	40.33	43.06	45.16	41.18