



2.4G Antenna Parameter Testing Report



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- ✚ Project: 2.4G Antenna
- ✚ Product Description
 - 2400-2500MHz

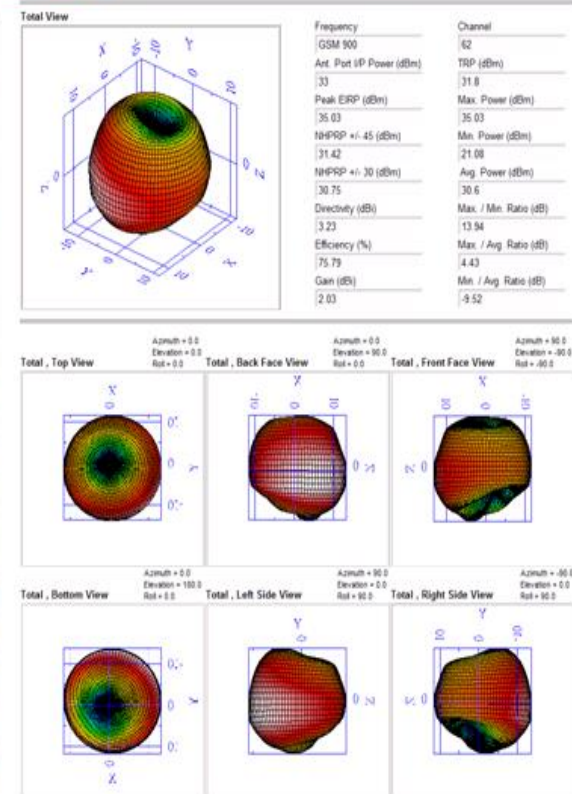
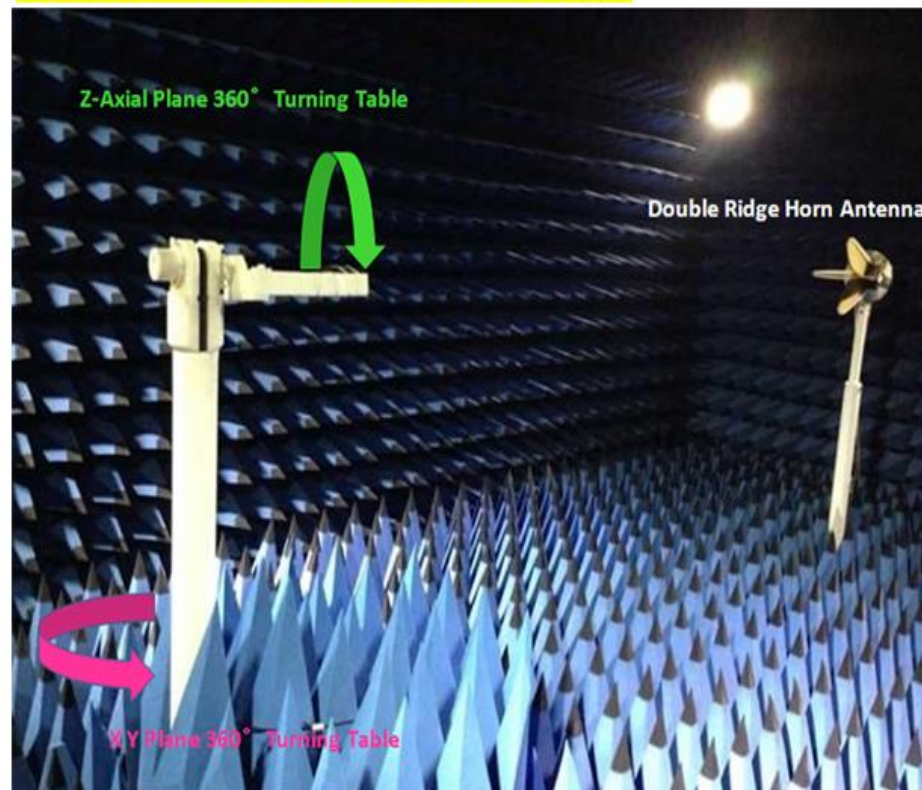
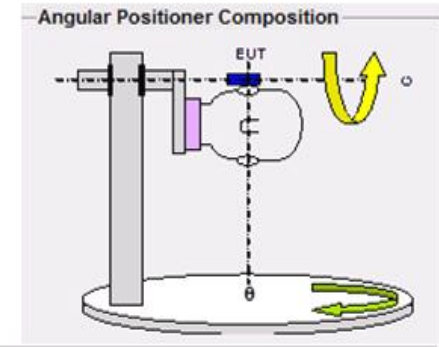
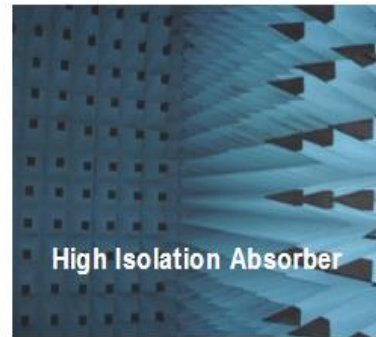
- ✚ Report Date: 2023.07.25
- ✚ Report Version: 1.0
- ✚ Prepared by: JianKai Wang
- ✚ Approved by: Si Fei

◆ Contents:

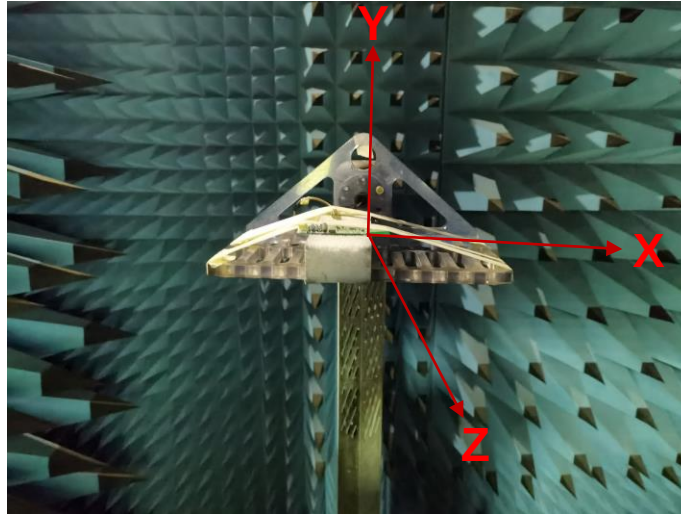
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1. Testing Item & Equipment

.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

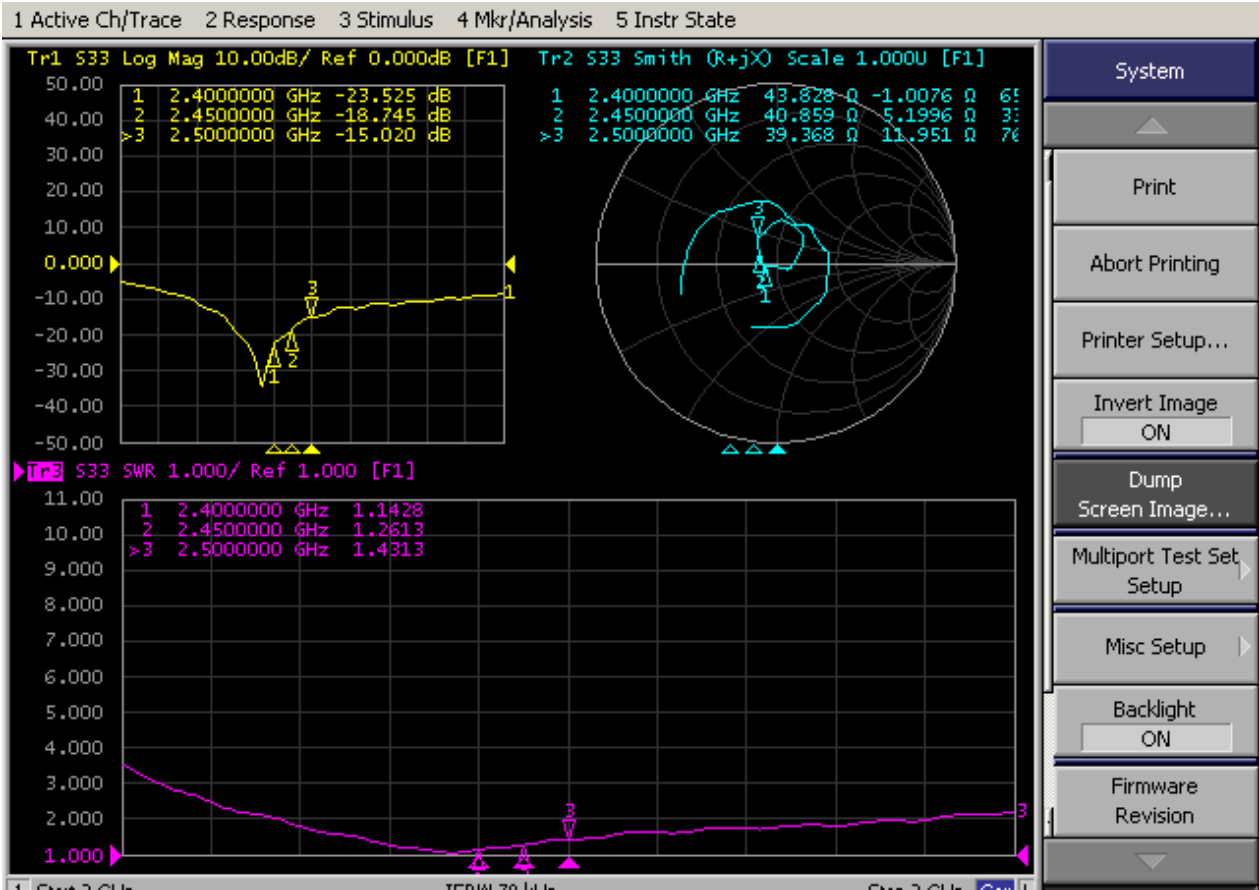


2. Testing photo



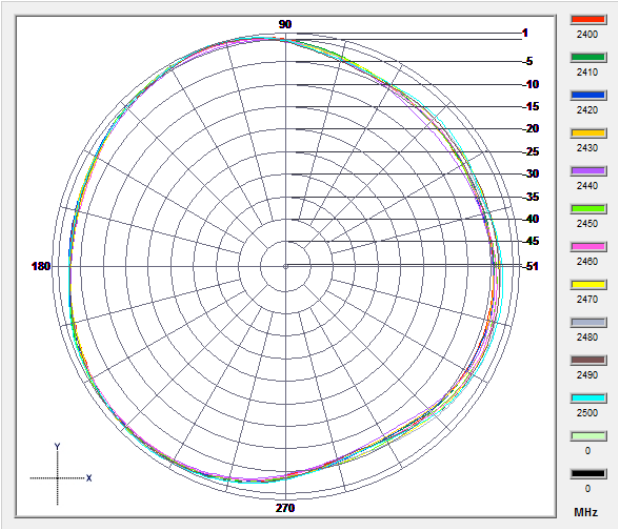
3. Test Results

3.1 S-Parameters

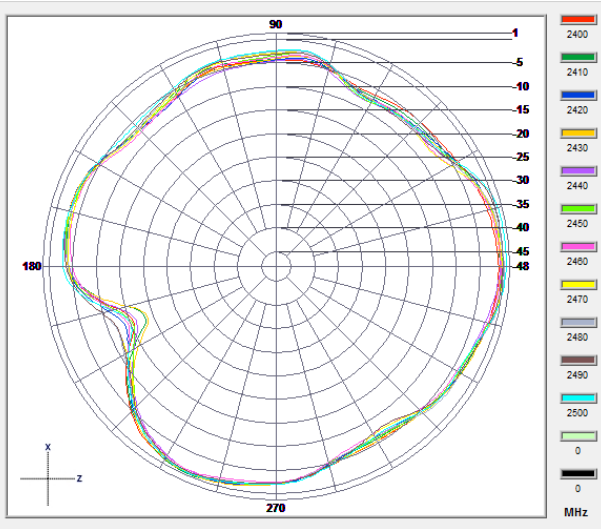


2D @2400-2500MHZ

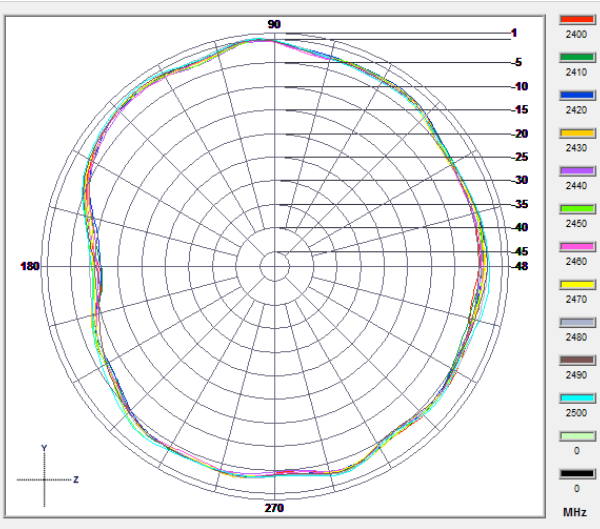
XY



XZ

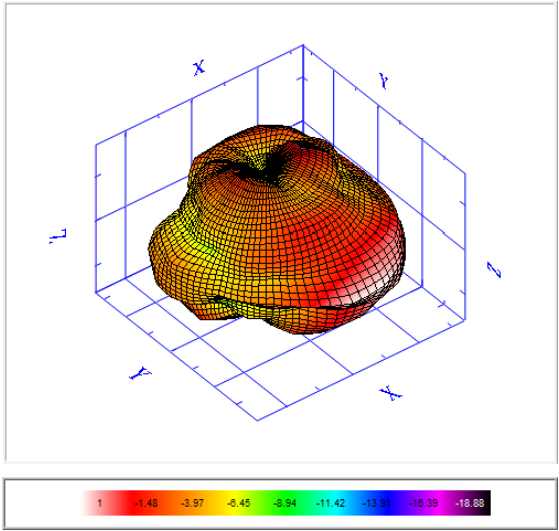


YZ

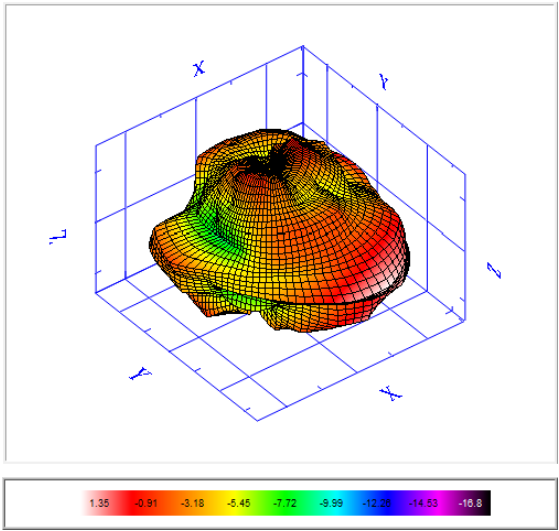


3D @ 2400-2500MHz

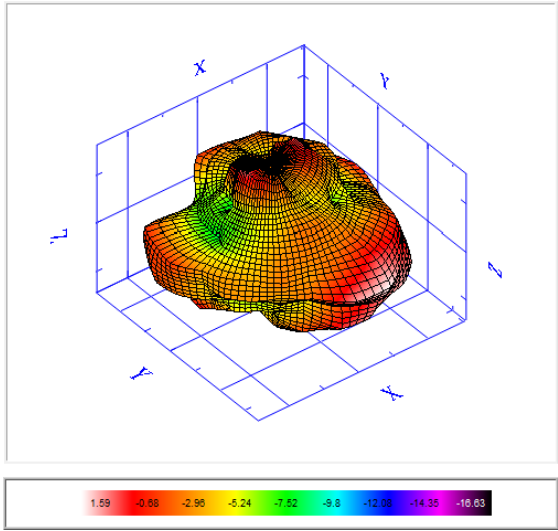
2400MHZ



2450MHZ



2500MHZ



3.2 Efficiency and Peak Gain

Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
E-Total Peak Gain (dBi)	1	1.12	1.05	1.08	0.36	1.35	0.93	1.41	1.41	1.32	1.59
Efficiency (%)	45.54	46.08	45.7	45.54	41.03	45.91	42.84	45.94	48.2	46.04	49.75