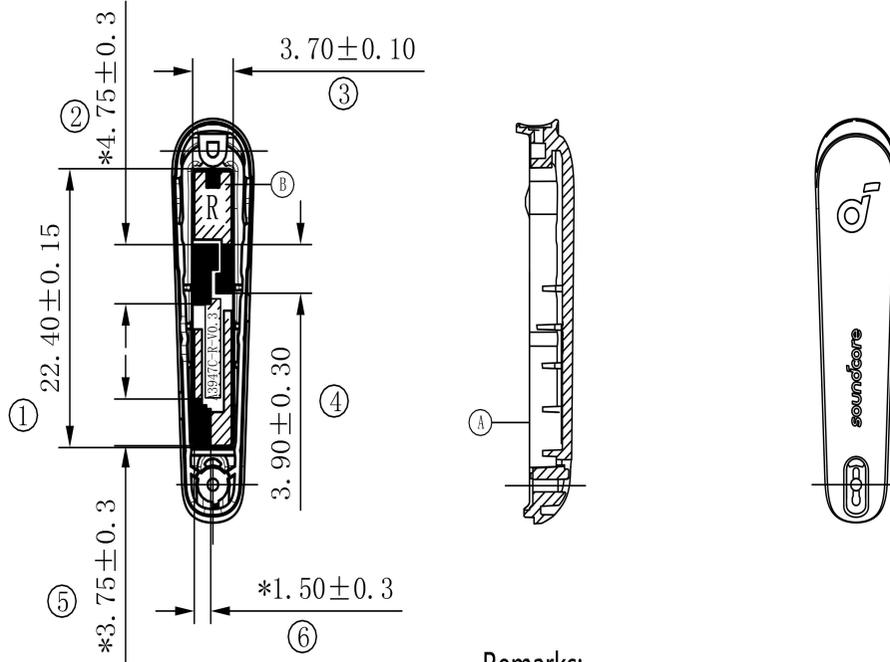


Rev 版本	Description 描述	Designed 制图	Date 日期
V1	first issue	Liping.Liu	2024.06.24



Remarks:

- 1: The dimensions marked in the drawing need to check by IQC.
- 2: The cosmetic of the product should not be dirty, burrs, painting defects and others issue.
- 3: The FPC need to assemble on cover housing, FPC don't warped, peel off ,scratch and so on.
- 4: Package: Tray.
- 5: Without the confirmation of ZTX , the material and process requirements can not be changed at will, all materials meet the requirements of Rohs2.0

Component description

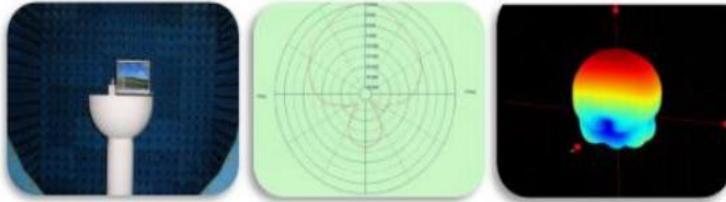
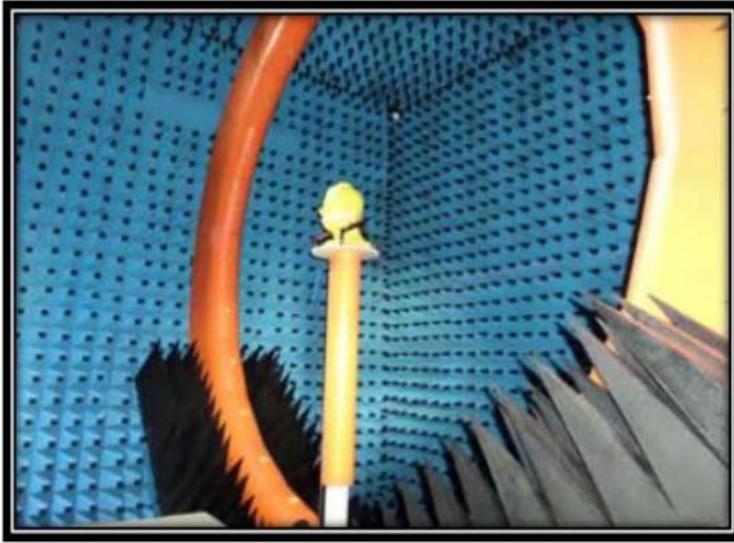
ITEM	PART NAME	MATERIAL	FINISH
①	TOP COVER	PC+ABS	painting
②	BT-R FPC	PI base+CU foil/Green Gold plated≥1.2U"	Gold plated

ZTX 深圳市中天迅通信技术有限公司

Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd

General Tolerance			Date 日期: 2024.06.03	Unit 单位: mm	Rev 版本: V1	Scale 比例: 1:1	Project Name. 项目名称: A3947C
Dim	Grade	A	B	Designed 设计: Liping.Liu		Material 材料:	Product Name 产品名称: BT-R ANTENNA
5-10		±0.10	±0.20	Checked 审核: Guangquan.Feng		Process 工艺:	Material Code 物料编码: 2.00006627
10-20		±0.15	±0.30	Approval 批准: Guohua.Zou		Third Angle 第三视角	Drawing Name. 图纸编号: ZTX-QR-RD-013
20-40		±0.20	±0.40				
40>		±0.25	±0.50				

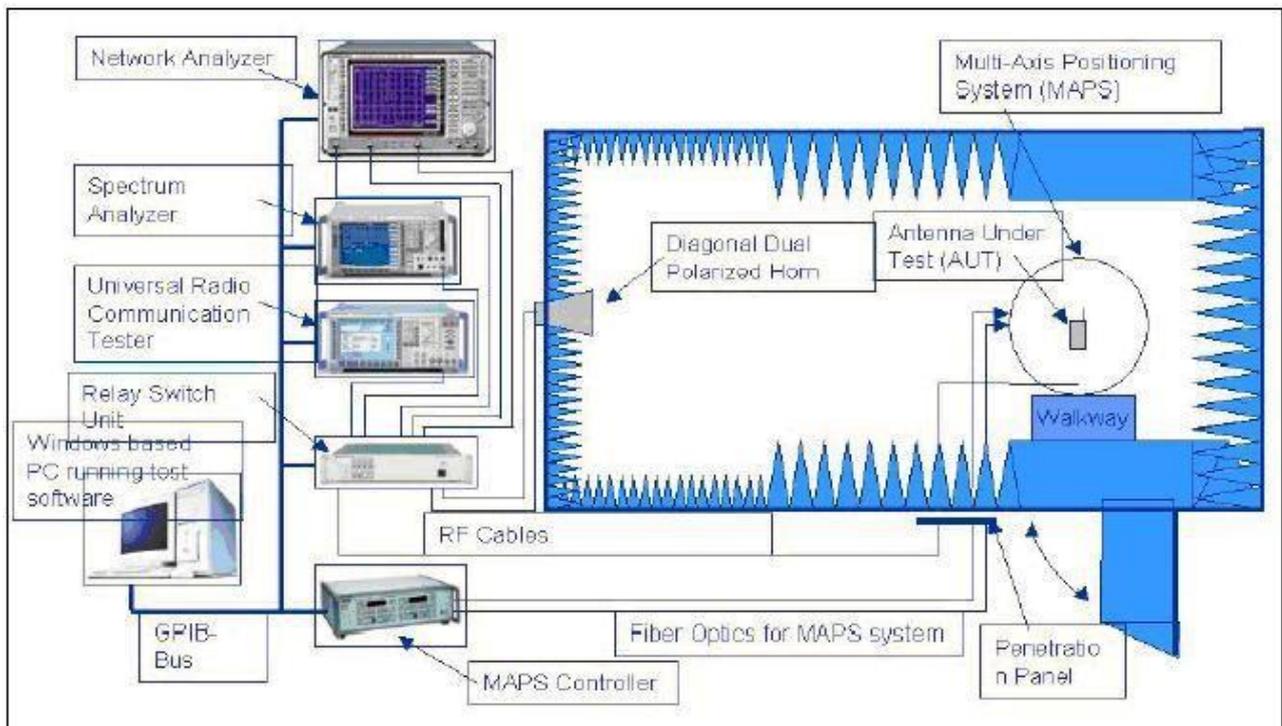
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

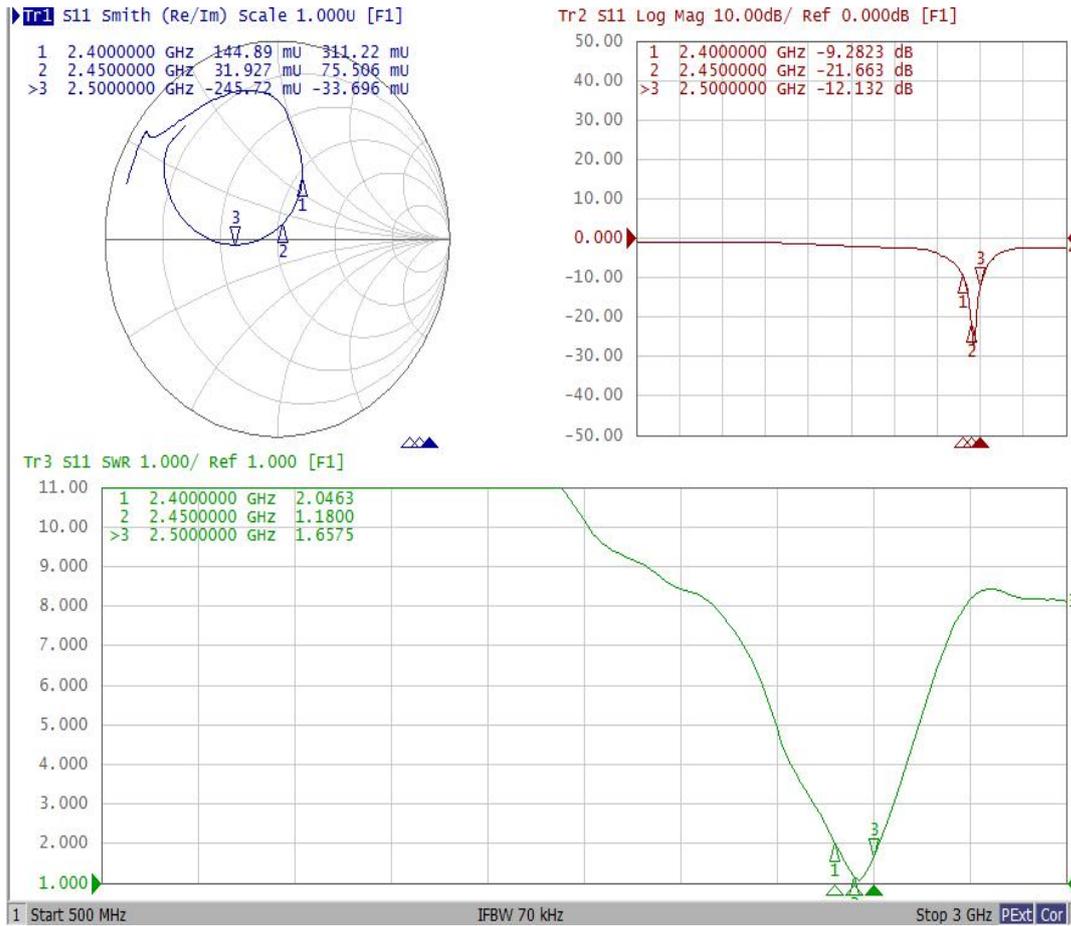
Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



3. Test Results Summary

3-1 VSWR



3-2 Active test

free space	chain	TRP	TIS
R	0	4.12	-87.35
	39	4.88	-87.68
	78	5.41	-88.02
The second generation of head	chain	TRP	TIS
R	0	-0.21	-82.83
	39	0.15	-83.27
	78	0.52	-83.31



3-3 Passive test

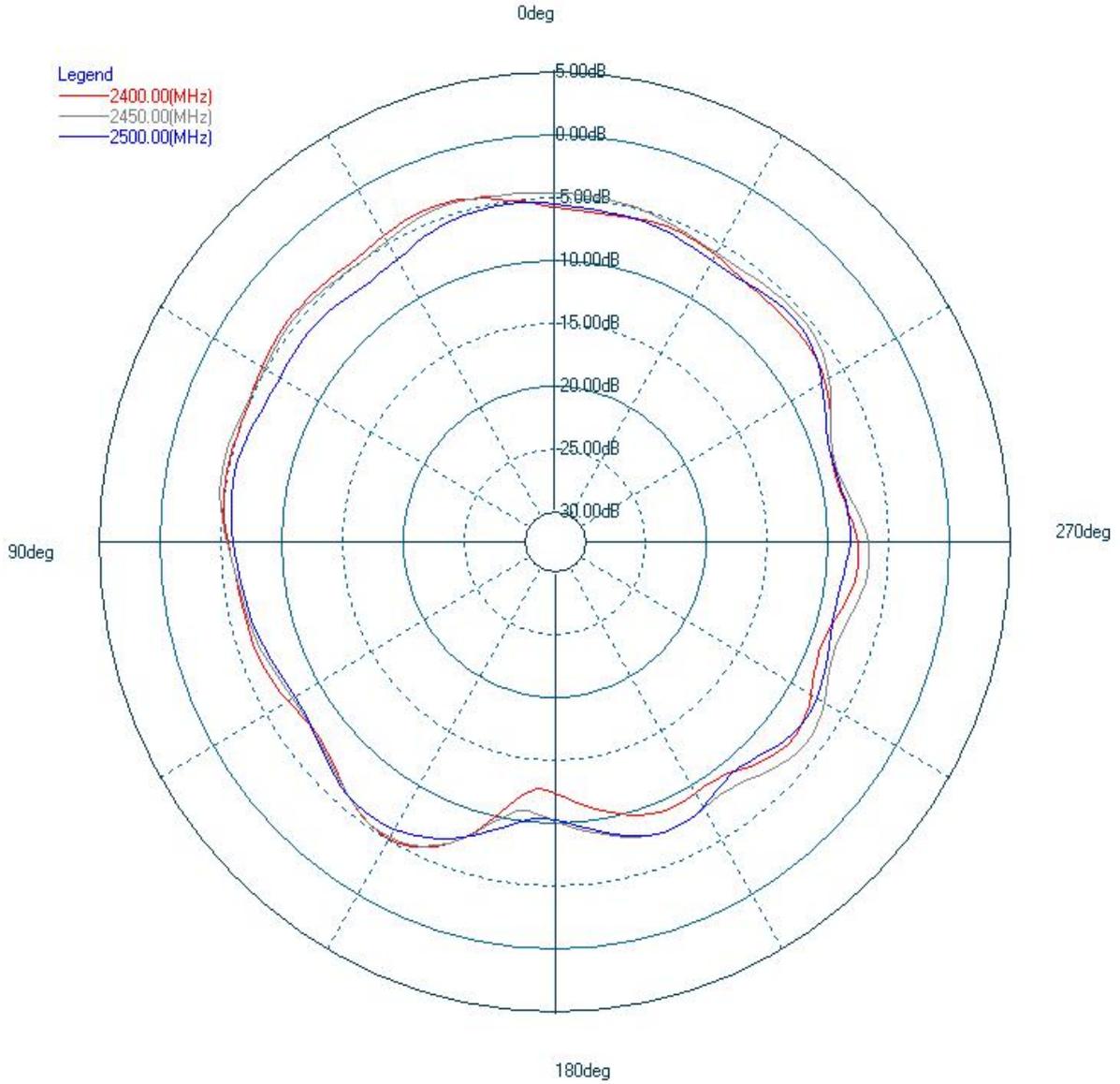
R

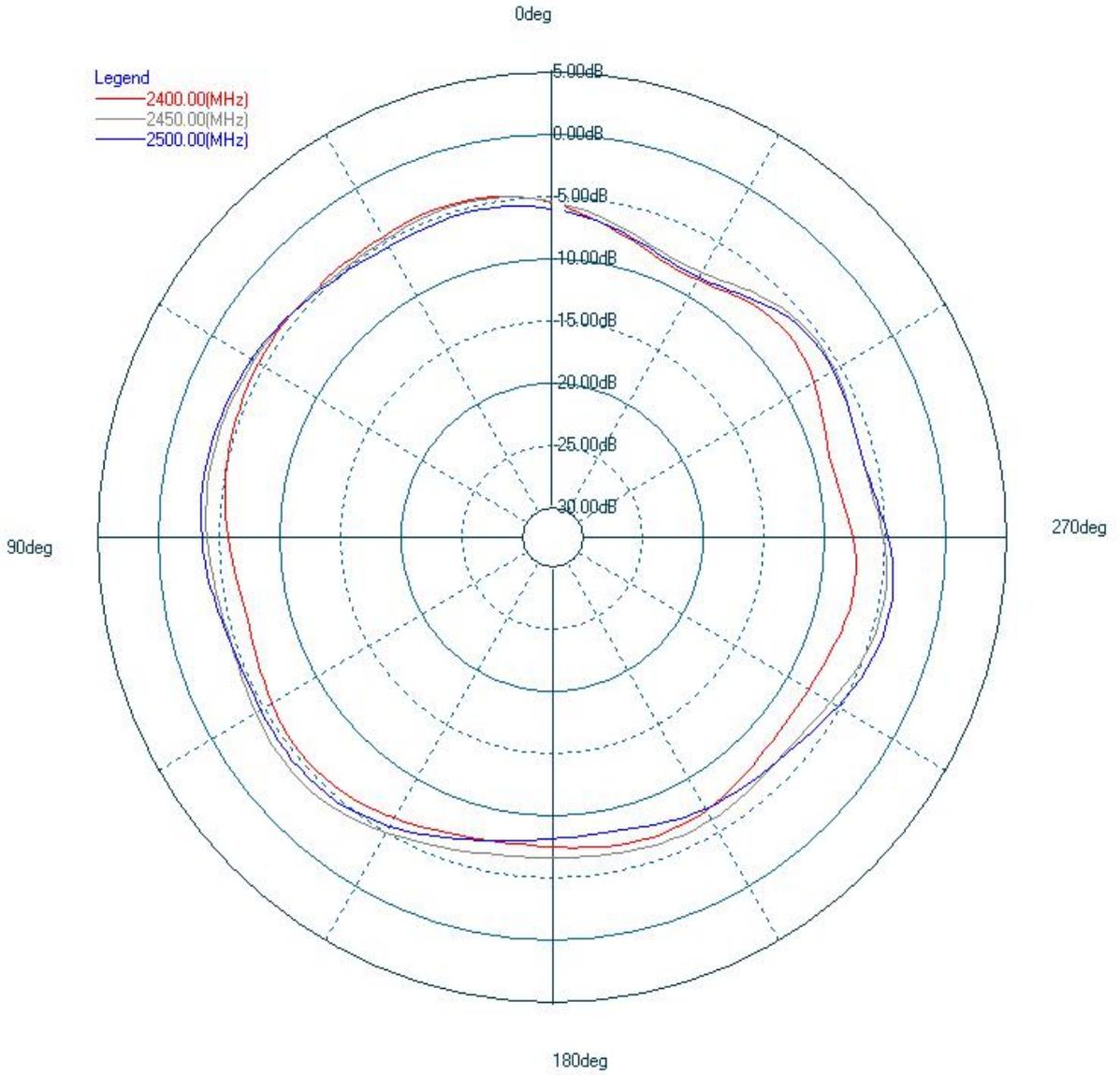
Fre	Effi	Effi . dB	Gain. dBi
2400	24%	-6.27	-2.83
2410	25%	-6.05	-2.89
2420	25%	-6.02	-2.72
2430	26%	-5.84	-2.86
2440	27%	-5.72	-2.85
2450	28%	-5.57	-2.70
2460	28%	-5.60	-2.77
2470	28%	-5.53	-2.54
2480	28%	-5.54	-2.62
2490	25%	-6.07	-2.66
2500	24%	-6.28	-2.87

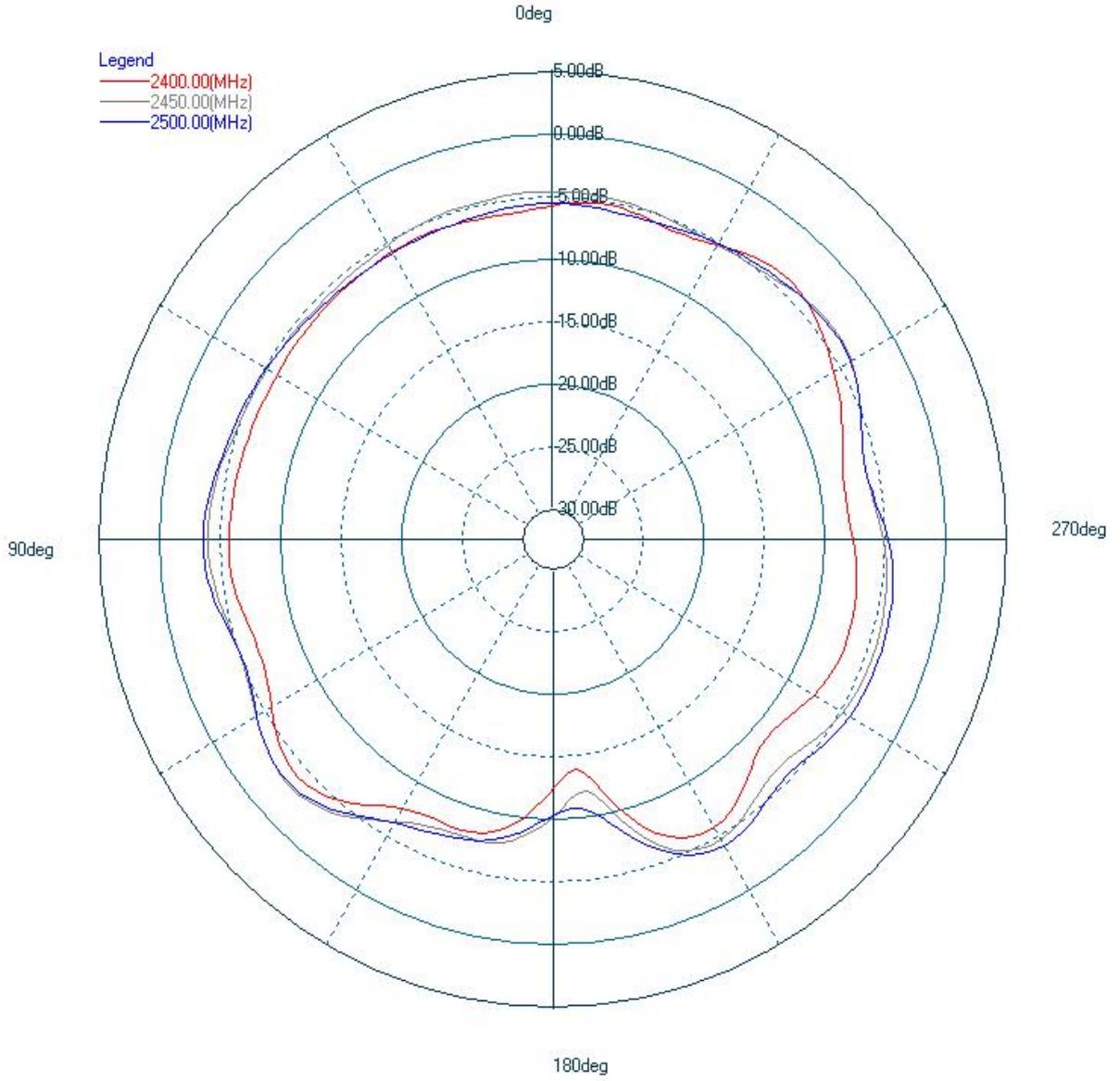
head model

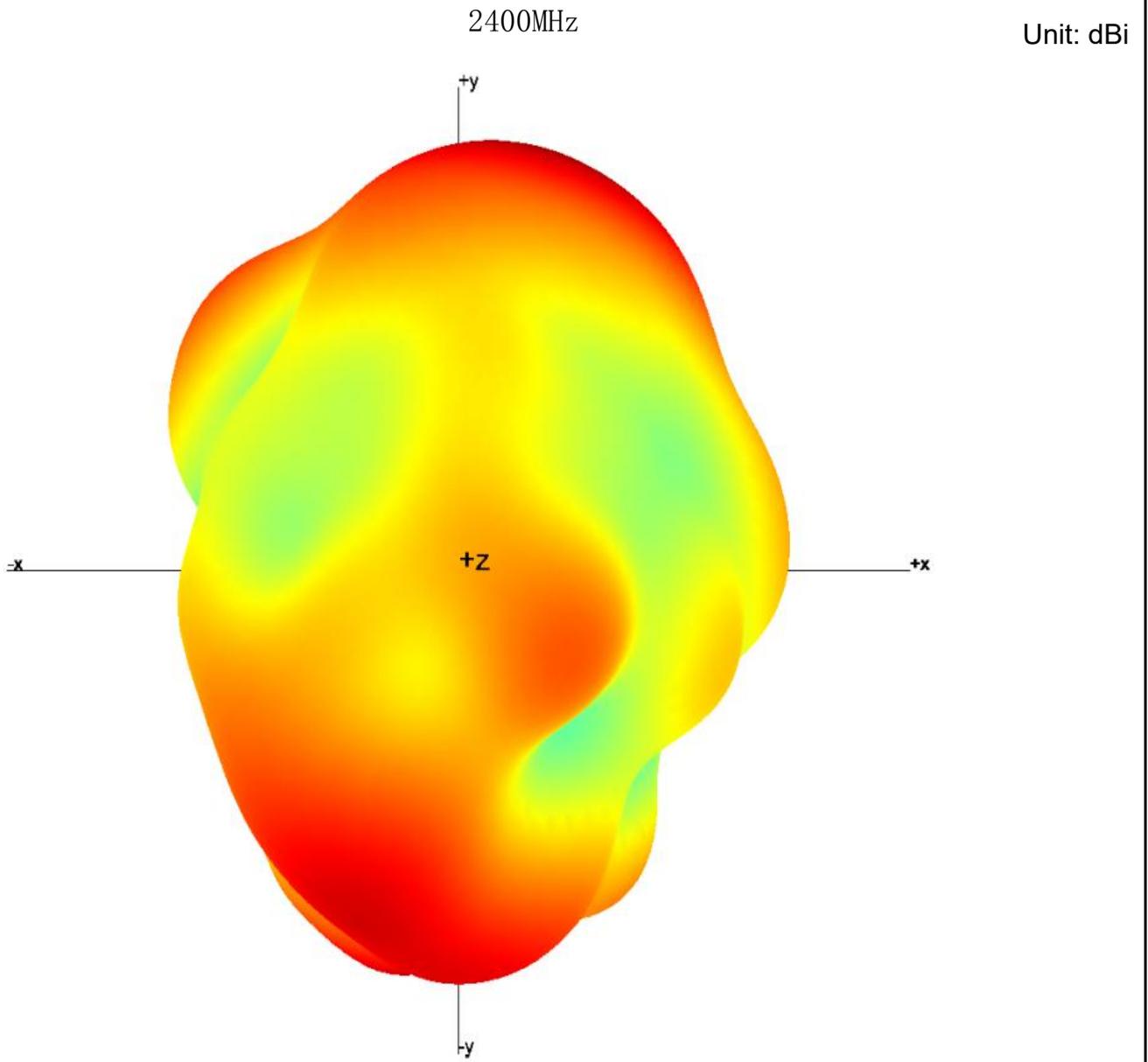
Fre	Effi	Effi . dB	Gain. dBi
2400	8%	-10.76	-5.34
2410	9%	-10.54	-4.86
2420	9%	-10.25	-4.58
2430	10%	-10.01	-4.89
2440	10%	-9.84	-4.84
2450	11%	-9.74	-4.69
2460	11%	-9.75	-4.61
2470	11%	-9.76	-4.56
2480	10%	-9.88	-4.66
2490	10%	-10.04	-4.75
2500	9%	-10.26	-4.85

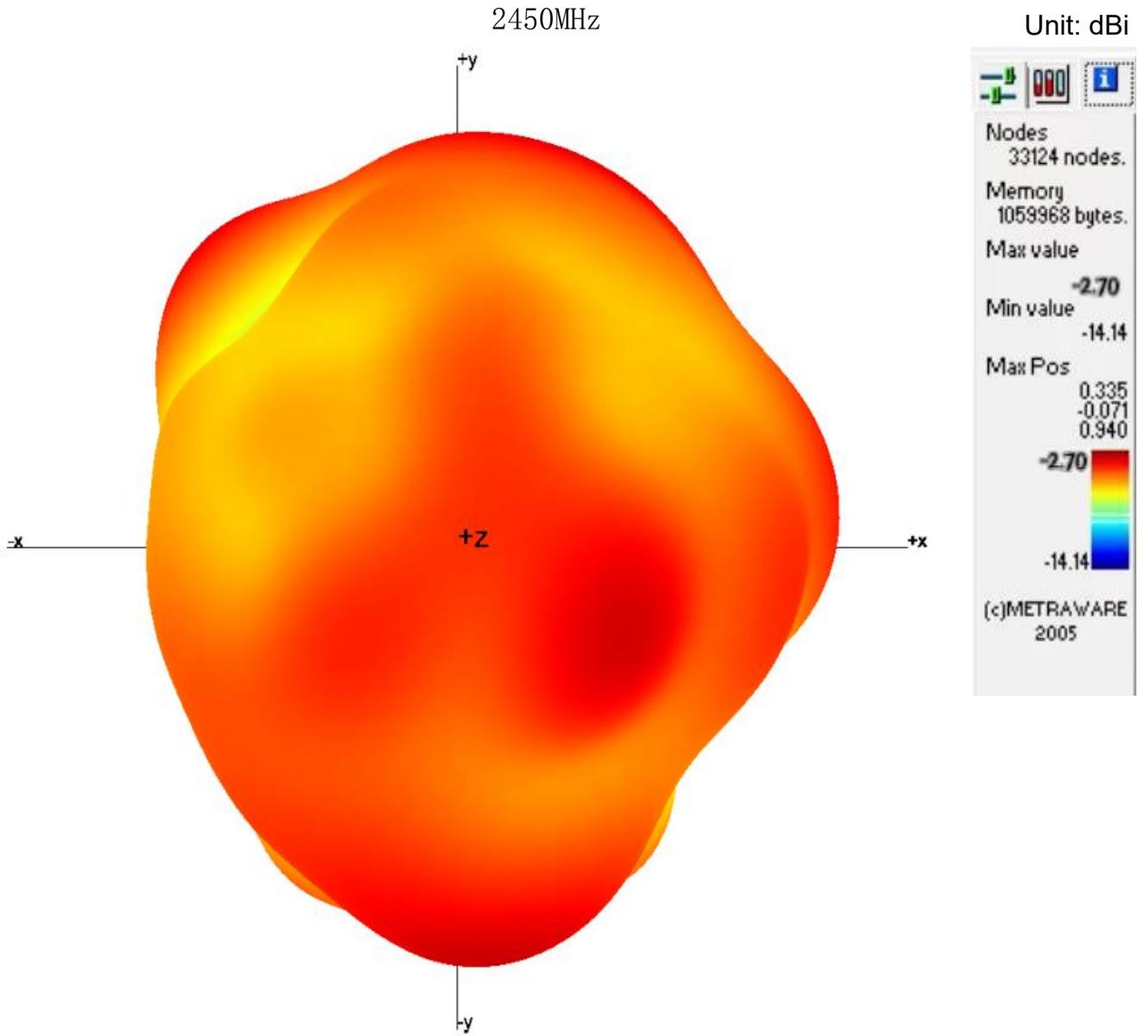
3-4 2D/3D Radiation Pattern Results











2500MHz

Unit: dBi

