

Antenna Test Report

Test Date	2021-04-09
ANT Part NO.	583X-2W0018-1330
Test Engineer	Beta
Hardware Info	
SW Info	

Prepared by	Reviewed by	Approved by
Beta	Xin	

Revision History

Date	Revision	Comment
2021-04-9	1st	The fist version

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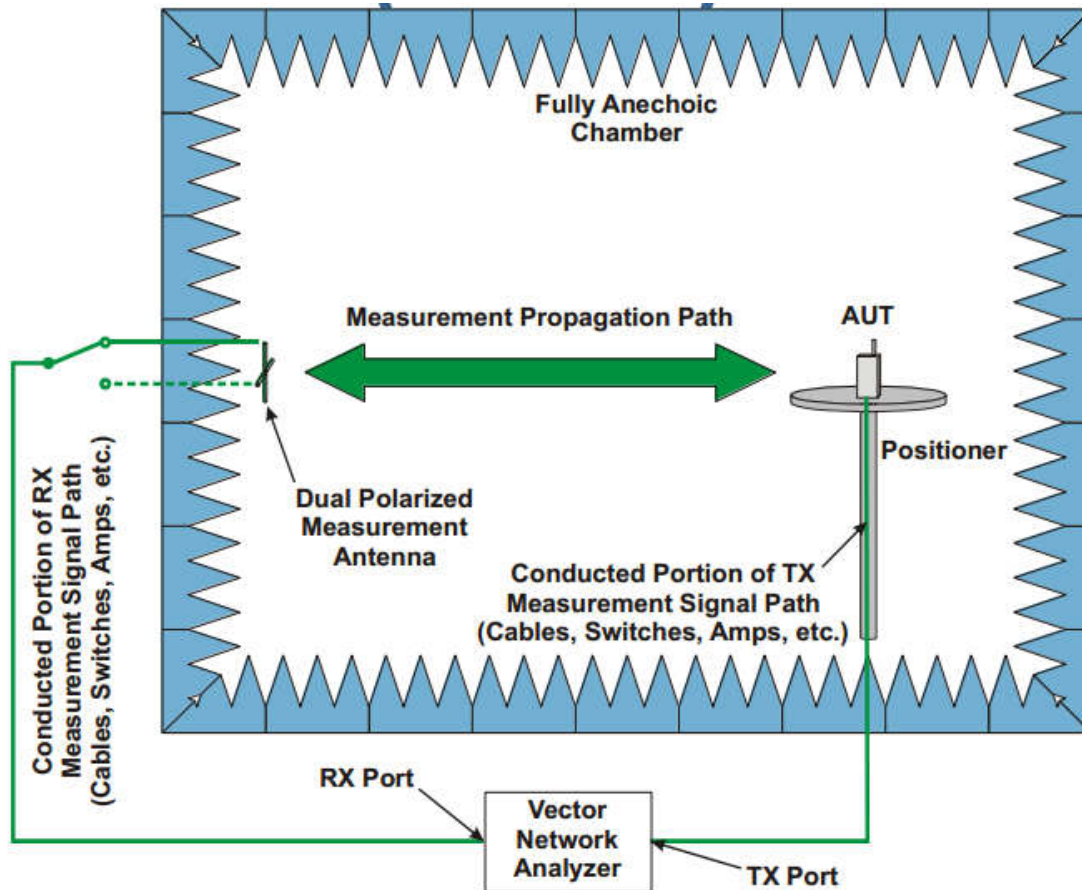
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1. Introduction

This document records the detail antenna radiation performance of Hybrider Box. It is a confidential document of Skyworth.

2. Test Solution

The test topology is following figure.



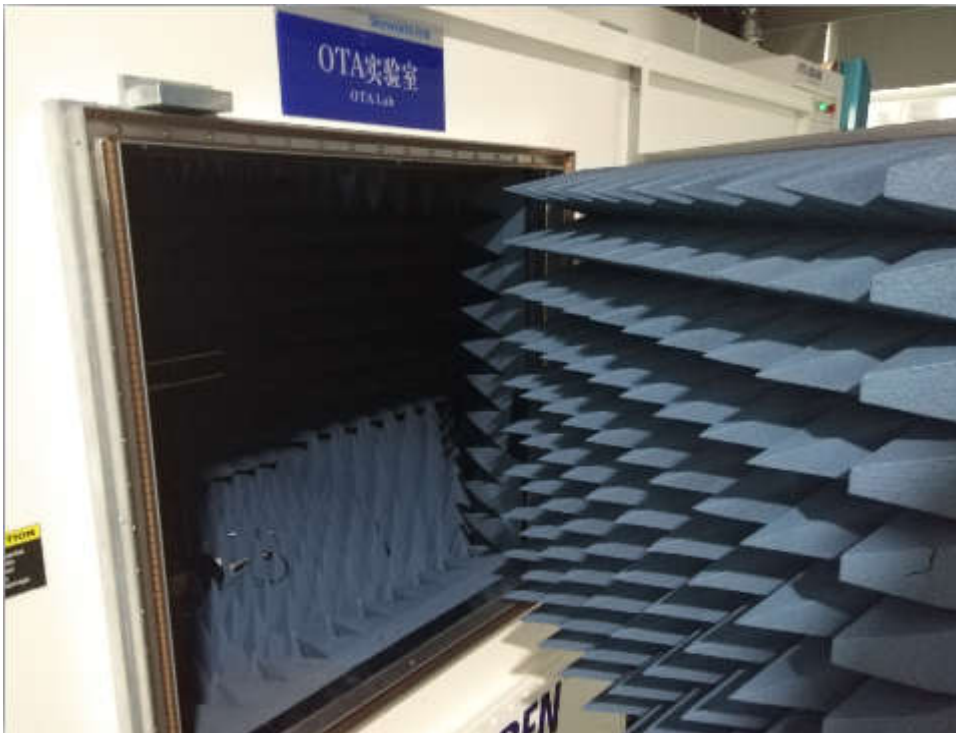
3. Equipment List

No.	Equipment	Model	Calibration	Remark
1	Network analyzer	ZNB-8	2021/04	/
3	Anechoic Chamber	AMS-8050	2021/03	/
4	Wireless Connectivity Tester	CMW270	2021/03	
5	Power Splitter	ZN2PD-63-S+	/	

4. Test Environment



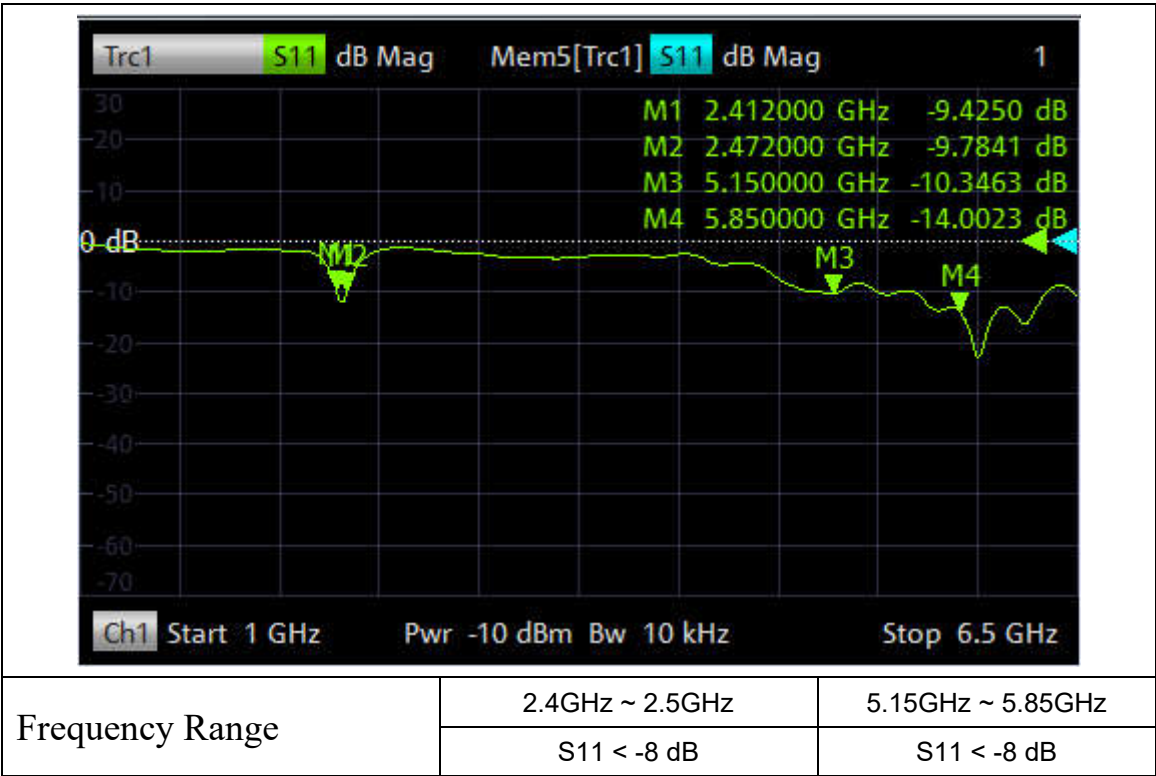
Anechoic Chamber Facade



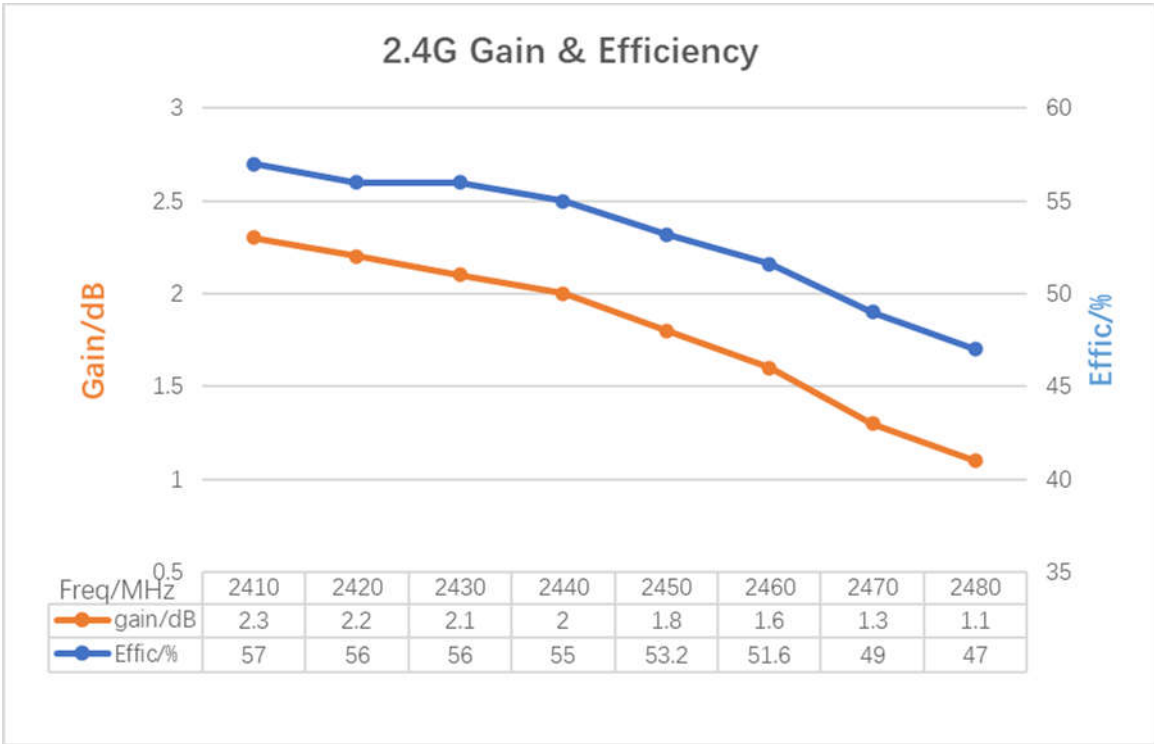
Anechoic Chamber Inside

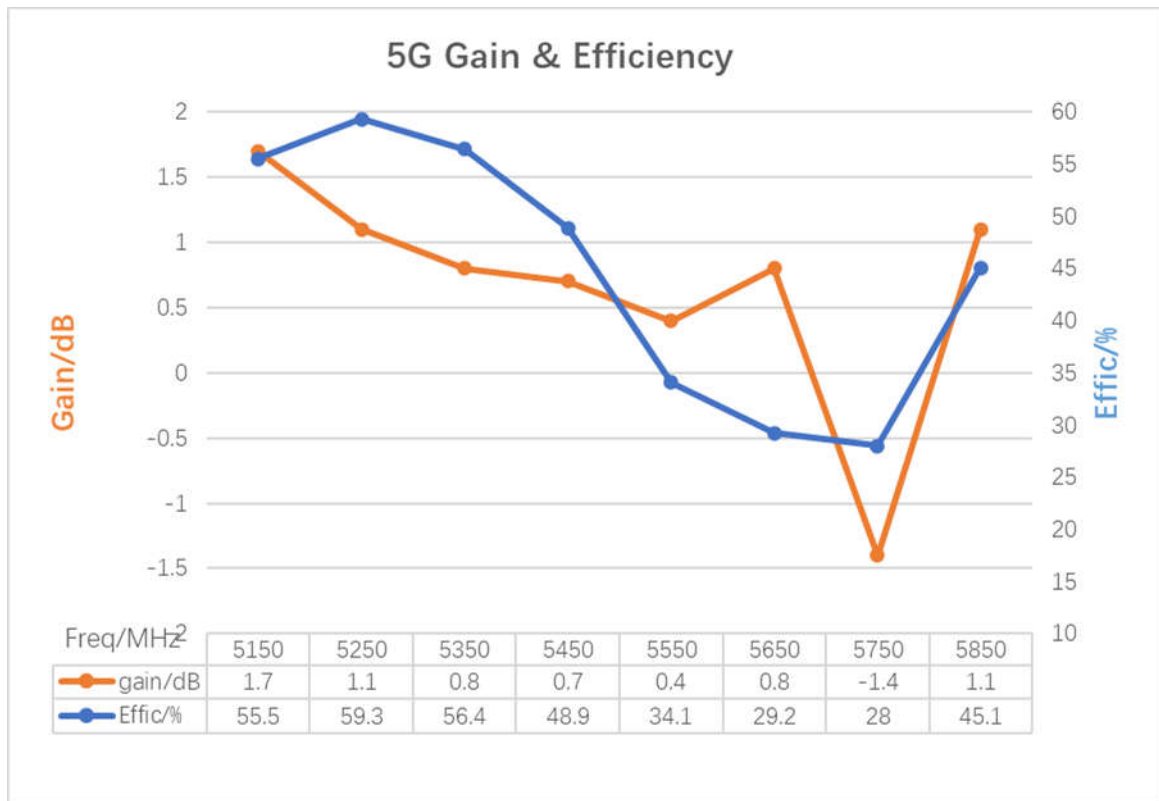
5. Test Result

5.1 Antenna S Parameter



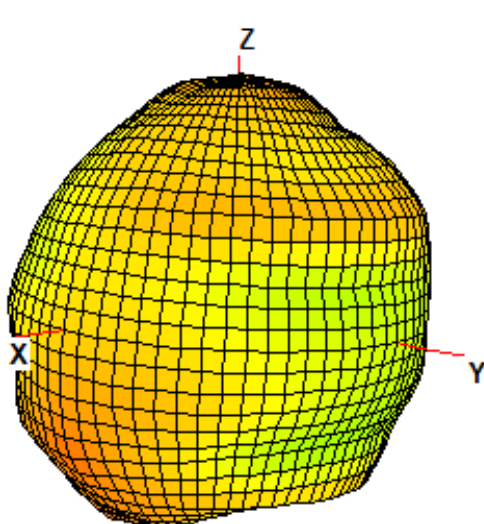
5.2 Antenna Gain and Efficiency



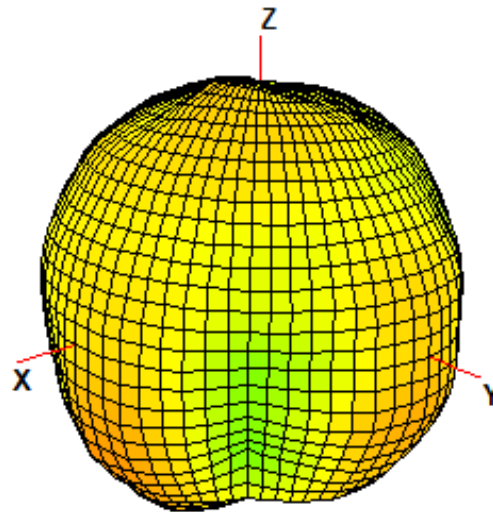


5.3 Dual-Antenna Far Field Radiation

5.3.1 3D Far Field Radiation

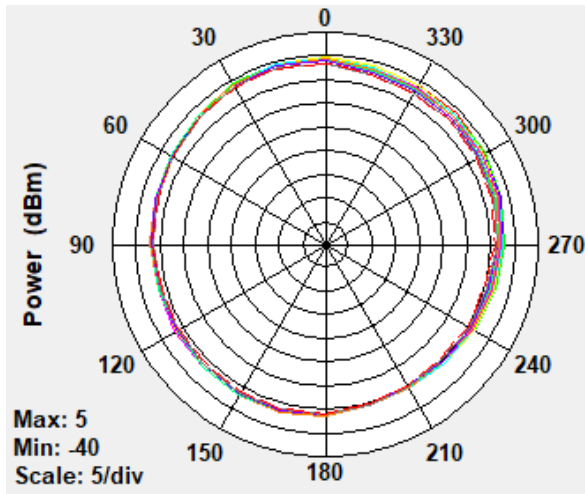


2.4G 3D field radiation

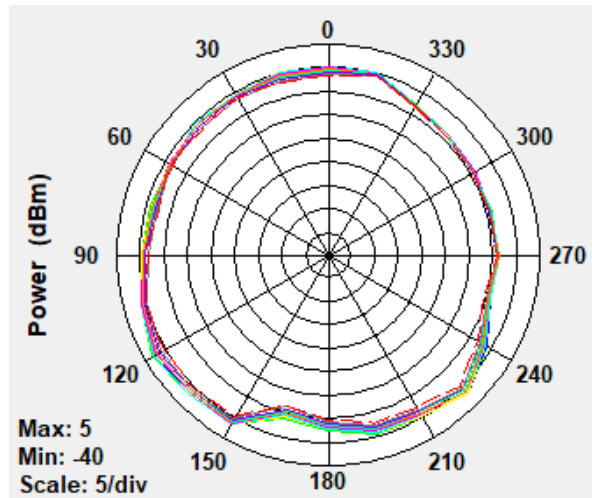


5G 3D field radiation

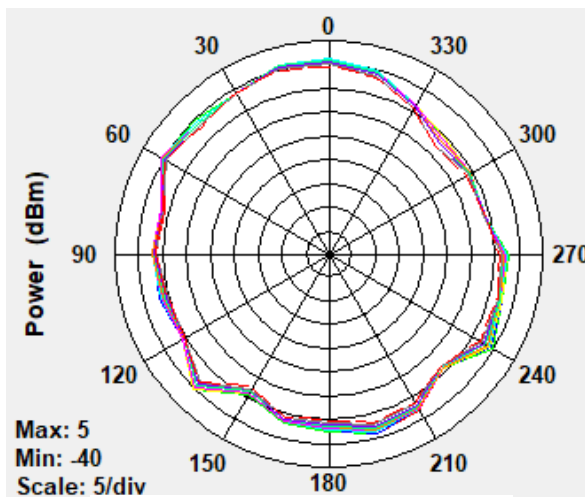
5.3.2 2D Far Field Radiation



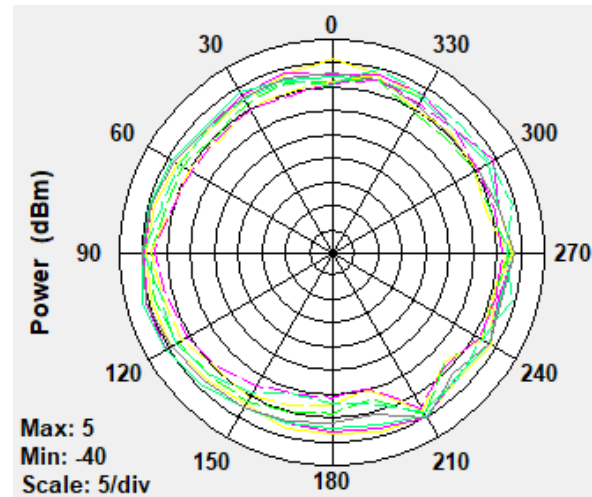
Theta = 90 degree for 2.4G



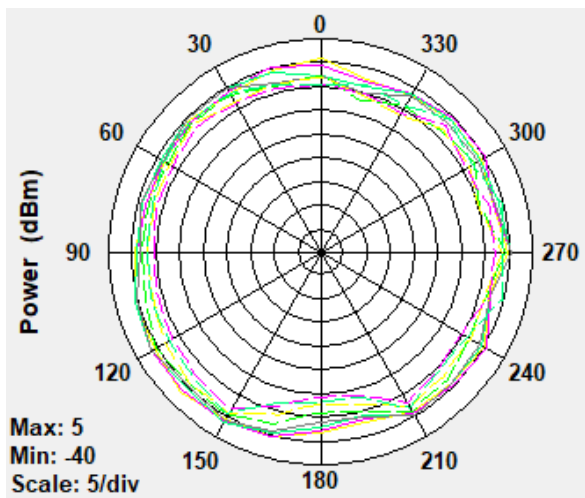
Phi = 0 degree for 2.4G



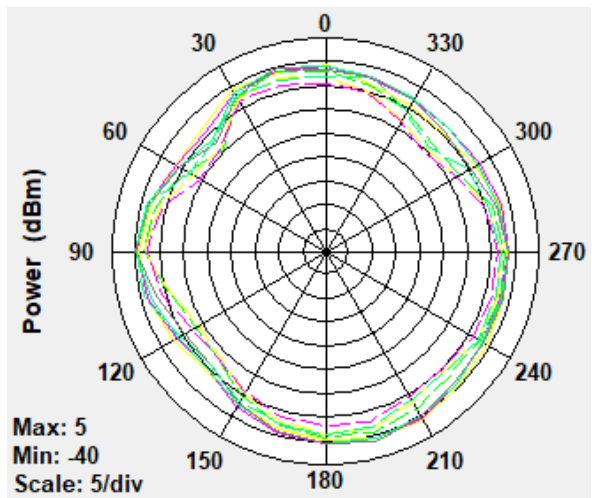
Phi = 90 degree for 2.4G



Theta = 90 degree for 5G



Phi = 0 degree for 5G



Phi = 90 degree for 5G

5.4 Other Parameter

Item	Parameter
Impedance	50 ohm
Polarization	line
Max VSWR	2:1
Radiation Properties	Omni-directional
Max Input Power	2 W
Material	FR4
Connector	RF cable + ipex
Operation Temperature	- 40 ~ 85 °C
RoHs Compliant	YES
Manufacturer	FuJian Milky-way PCB Industrial Co.,Ltd
Manufacturer Address	Tantougang Industrial Zone,Changle City,Fujian Province

6. ANNEX DUT PHOTO

