中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ANTENNA TEST REPORT

Manufacture: **Butlr Technologies Inc.**

Address: Suite 510, 800 Airport Blvd, Burlingame, CA 94010 USA

Product Name: **Antenna**

Product Model: **GWDSRKWF**

Report Number: **2403V86086E-RF**

Date Of Issue: **2024/7/23**

Reviewed & Approved By: **Sun Zhong** Sun Zhong

Title: Manager

Test Laboratory: **China Certification ICT Co., Ltd (Dongguan)**
No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China

Tel: +86-769-82016888

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN) CCICT

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk "★".

CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403V86086E-RF	Original Report	2024/7/23

1. GENERAL INFORMATION

Product Name:	Antenna
Product Model:	GWDSRKWF
Antenna Type:	Dipole Antenna
Test Items:	Gain; Efficiency; Radiation Pattern
Test Frequency (MHz):	2405, 2440, 2480, 5180, 5240, 5350, 5500, 5700, 5725, 5825
Serial Number:	2OHO-1
EUT Received Date:	2024.7.16
EUT Received Status:	Good

2. TEST CONFIGURATIONS

2.1 Test Environment

Temperature (℃)	23.9
Humidity (%RH)	69.9
Atmospheric Pressure (kPa)	100.3
Tester	Luke Yuan
Test Date	2024/7/19

2.2 Test Equipment

Test Instrument	R&S ZNB8

3. TEST RESULTS

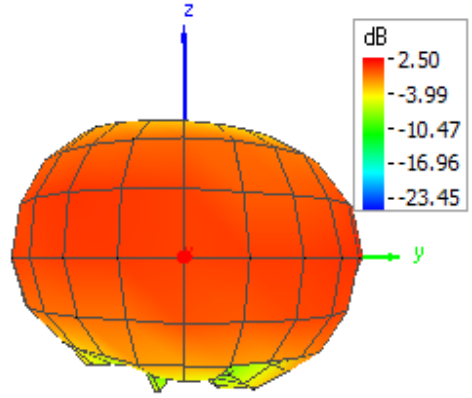
3.1 Gain and Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2405.00	2.50	77.34
2440.00	2.26	79.57
2480.00	1.65	71.86
5180.00	-5.31	14.37
5240.00	-4.96	15.36
5350.00	-4.46	15.38
5500.00	-3.44	17.19
5700.00	-2.47	20.08
5725.00	-1.99	22.35
5825.00	-1.60	24.87

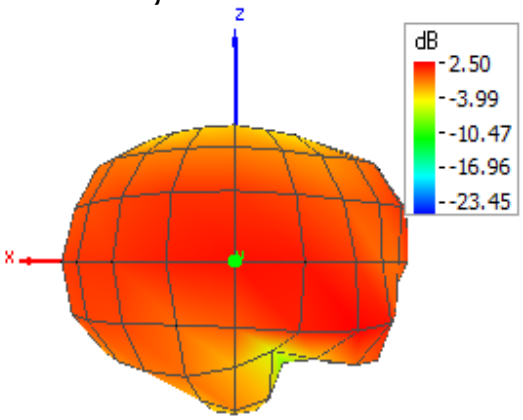
3.2 Radiation Pattern

2405MHz 3D

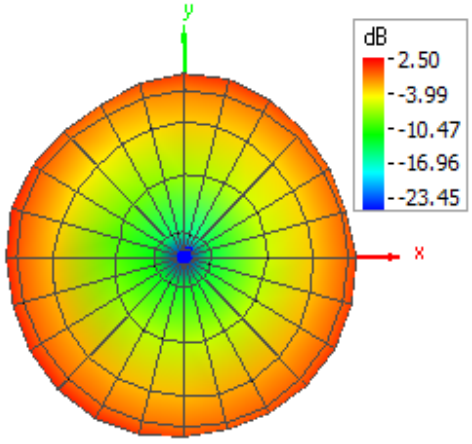
Theta = 90, Phi = 0



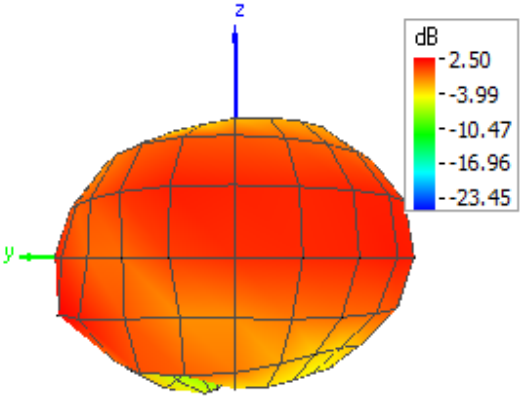
Theta = 90, Phi = 90



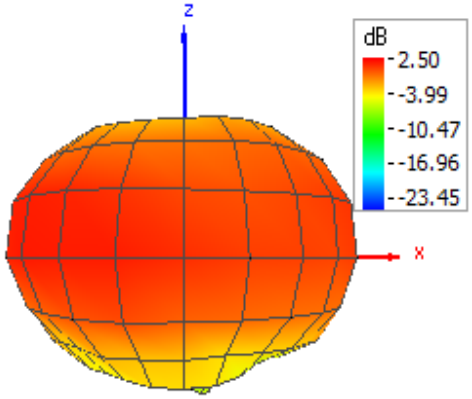
Theta = 0, Phi = 0



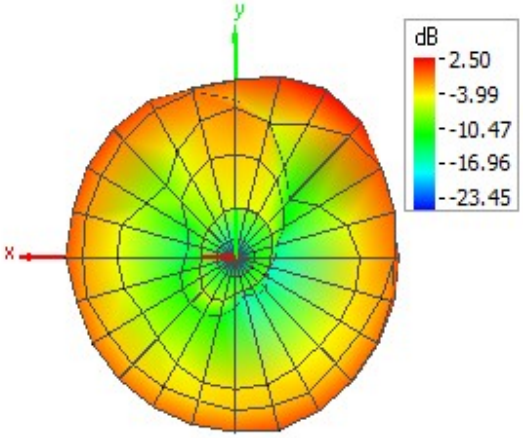
Theta = 90, Phi = 180



Theta = 90, Phi = 270

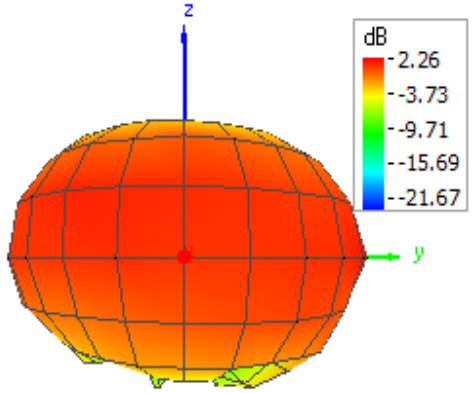


Theta = 180, Phi = 0

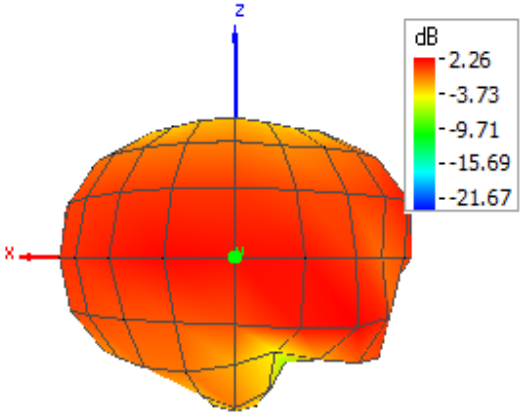


2440MHz 3D

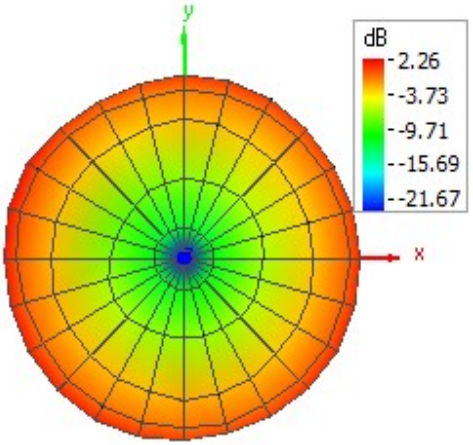
Theta = 90, Phi = 0



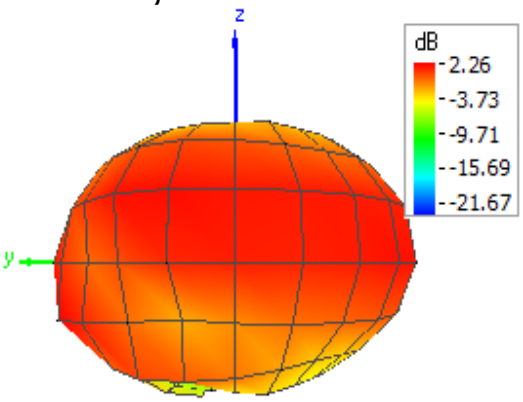
Theta = 90, Phi = 90



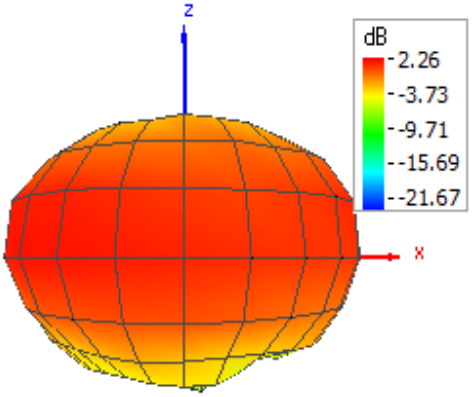
Theta = 0, Phi = 0



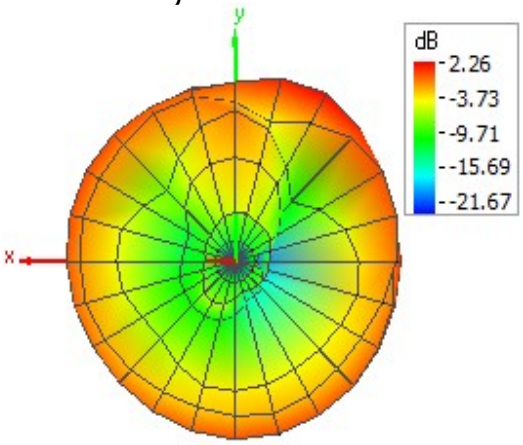
Theta = 90, Phi = 180



Theta = 90, Phi = 270

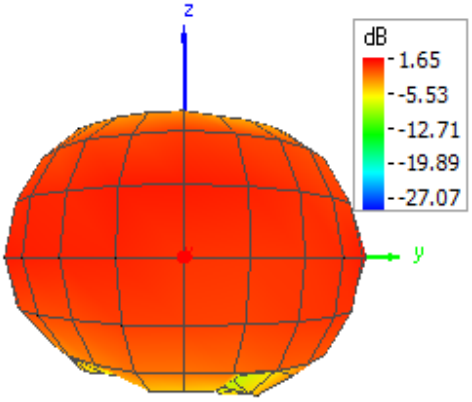


Theta = 180, Phi = 0

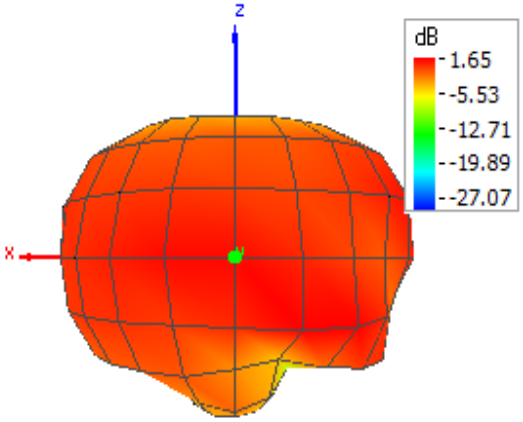


2480MHz 3D

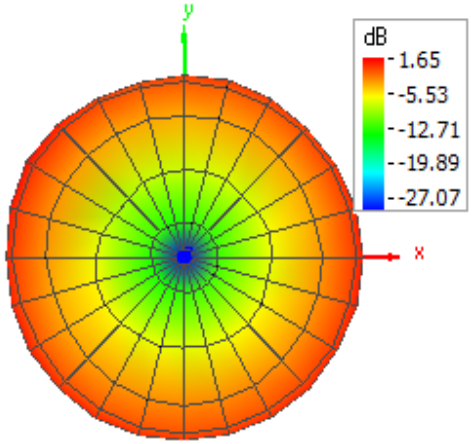
Theta = 90, Phi = 0



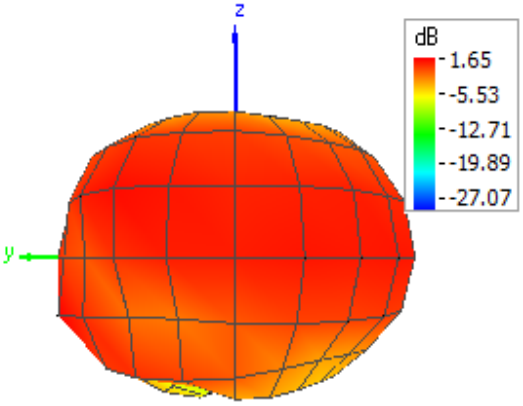
Theta = 90, Phi = 90



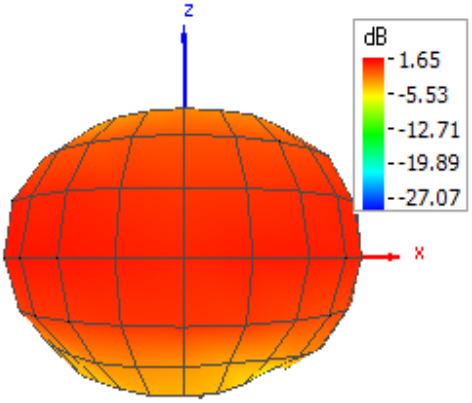
Theta = 0, Phi = 0



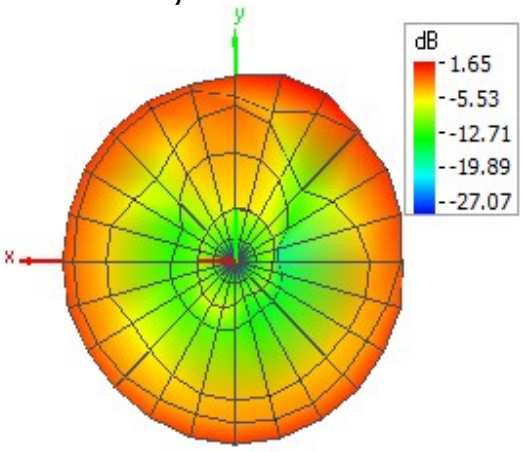
Theta = 90, Phi = 180



Theta = 90, Phi = 270

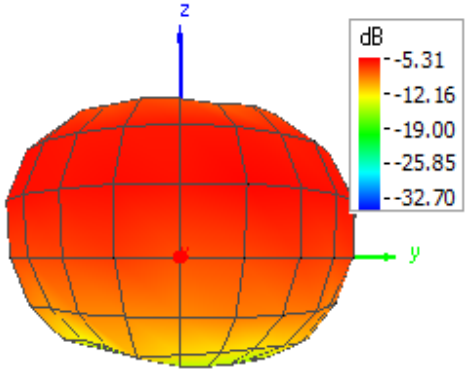


Theta = 180, Phi = 0

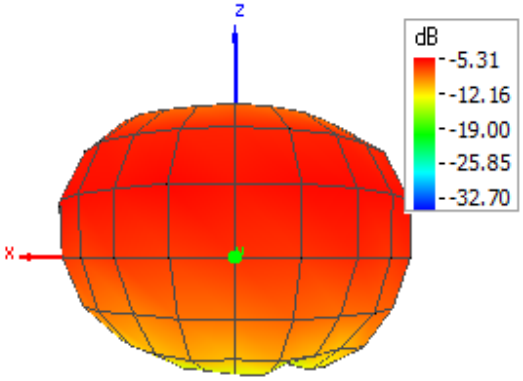


5180MHz 3D

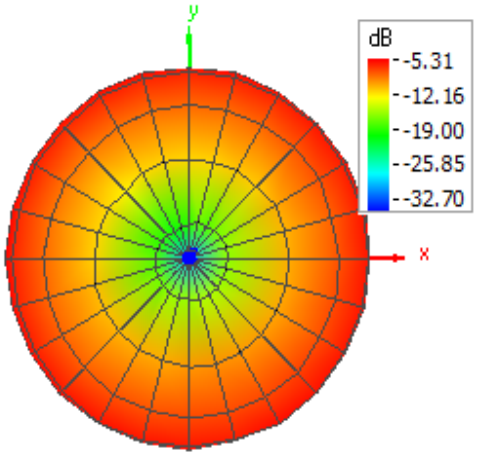
Theta = 90, Phi = 0



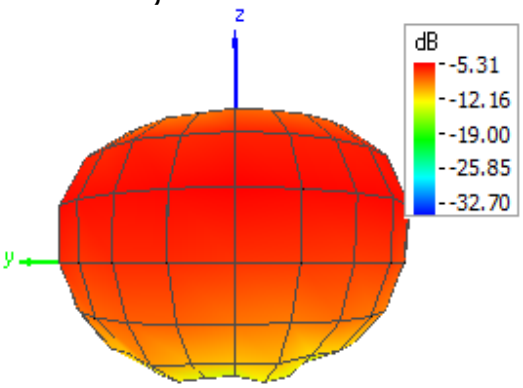
Theta = 90, Phi = 90



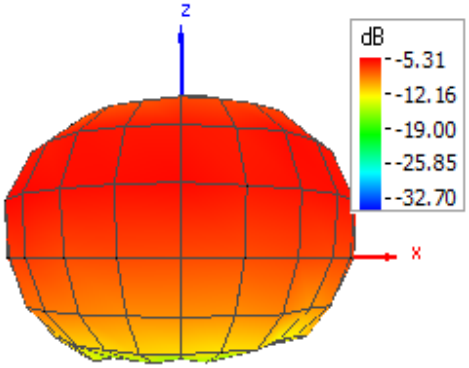
Theta = 0, Phi = 0



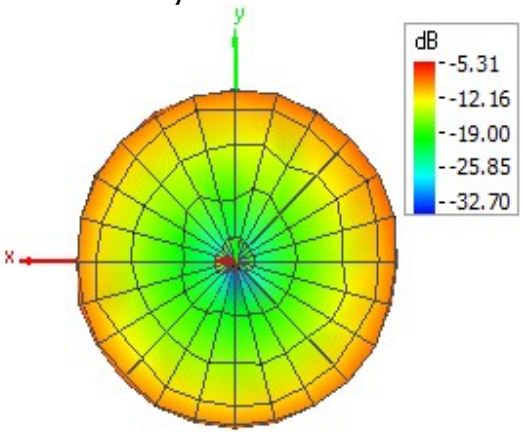
Theta = 90, Phi = 180



Theta = 90, Phi = 270

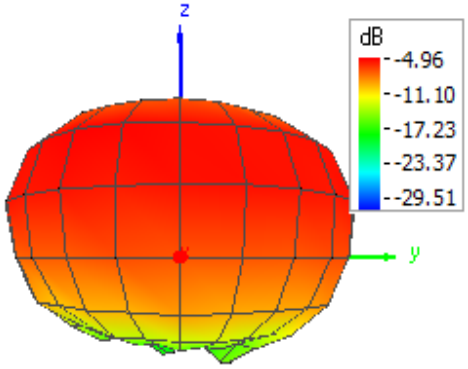


Theta = 180, Phi = 0

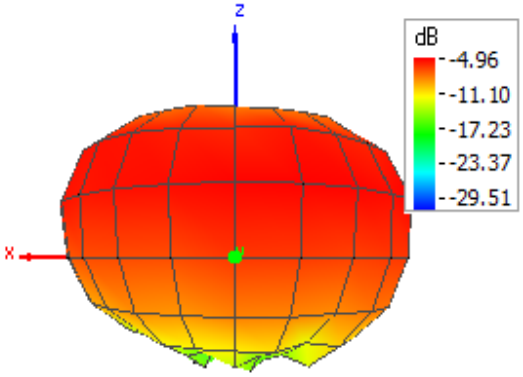


5240MHz 3D

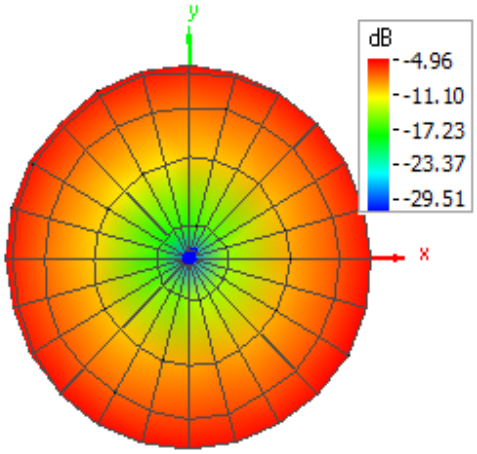
Theta = 90, Phi = 0



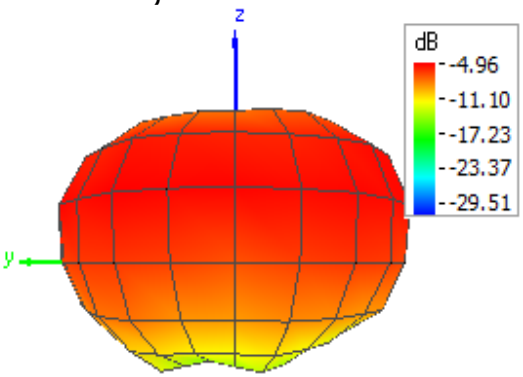
Theta = 90, Phi = 90



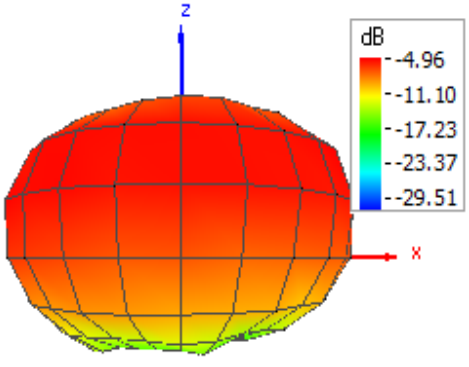
Theta = 0, Phi = 0



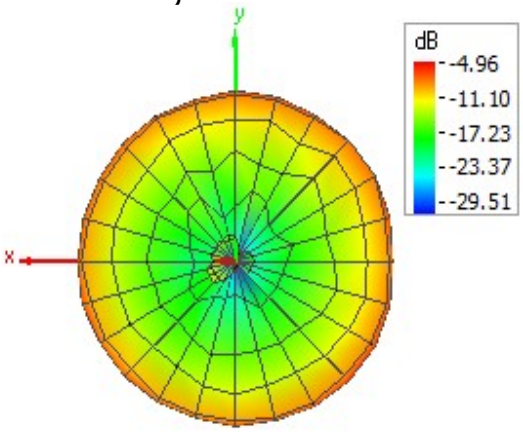
Theta = 90, Phi = 180



Theta = 90, Phi = 270

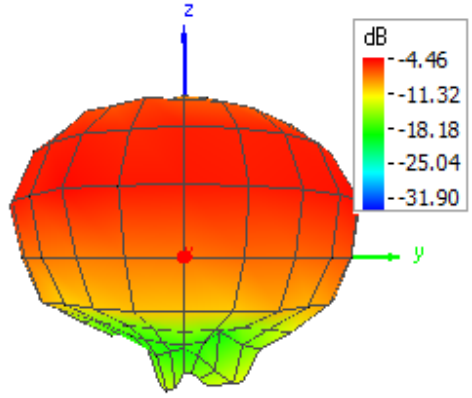


Theta = 180, Phi = 0

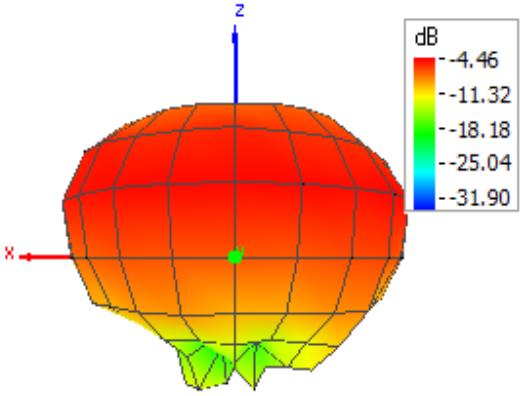


5350MHz 3D

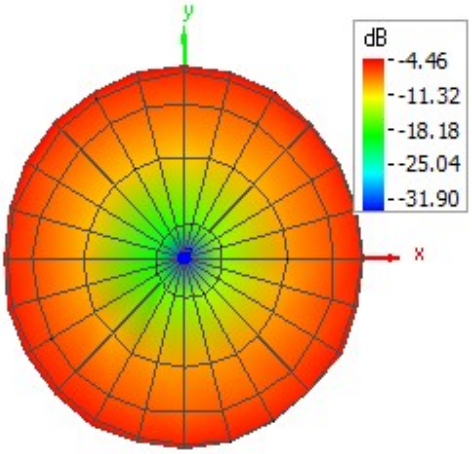
Theta = 90, Phi = 0



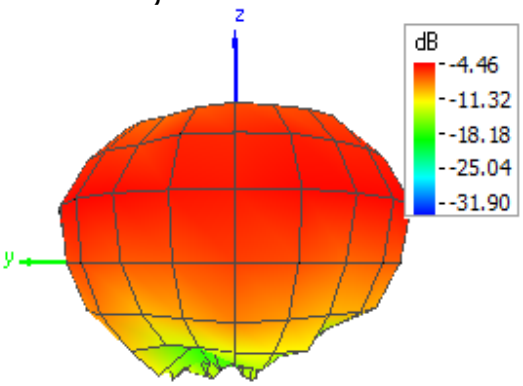
Theta = 90, Phi = 90



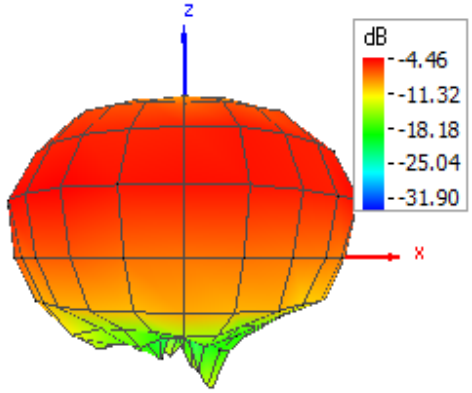
Theta = 0, Phi = 0



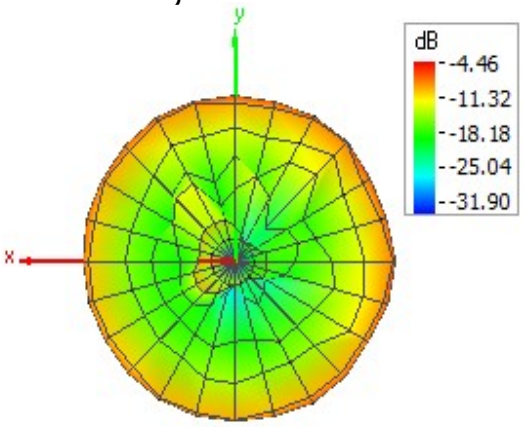
Theta = 90, Phi = 180



Theta = 90, Phi = 270

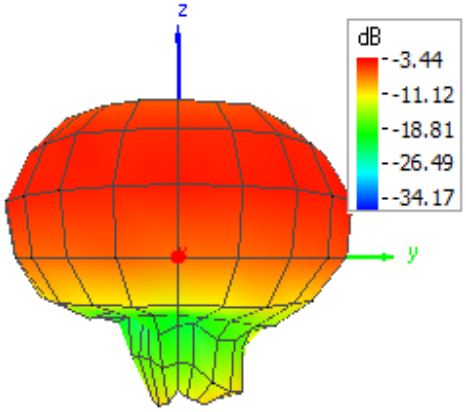


Theta = 180, Phi = 0

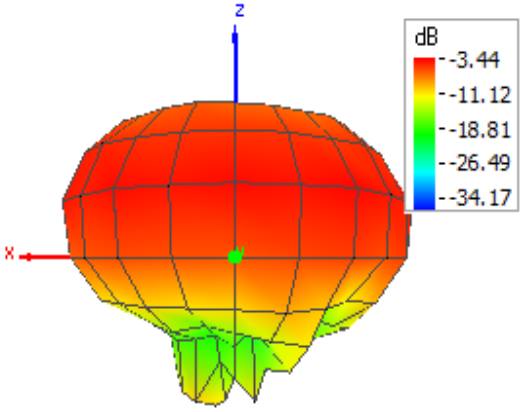


5550MHz 3D

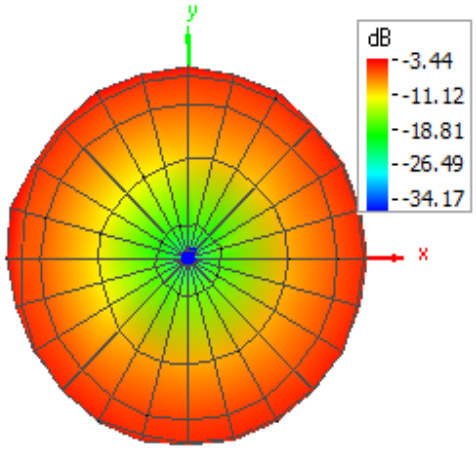
Theta = 90, Phi = 0



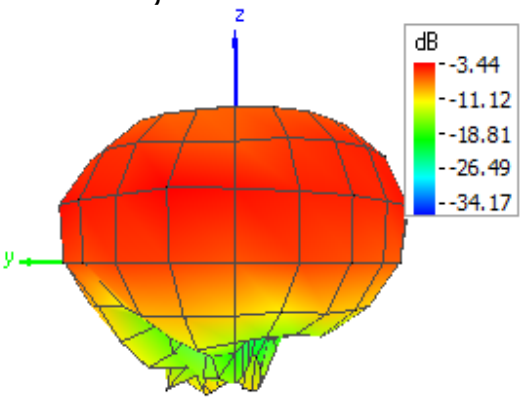
Theta = 90, Phi = 90



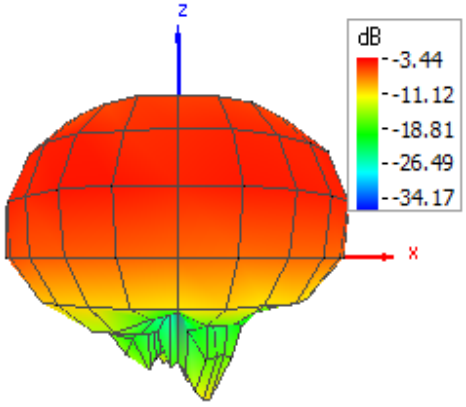
Theta = 0, Phi = 0



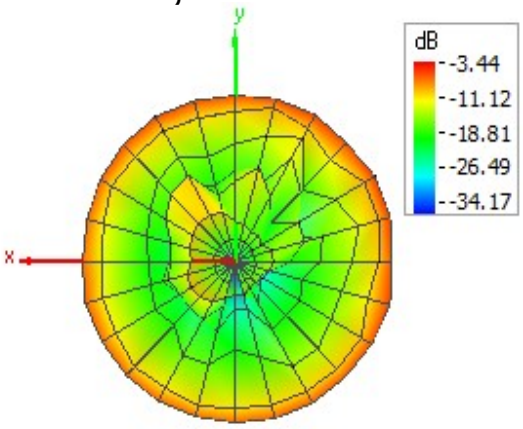
Theta = 90, Phi = 180



Theta = 90, Phi = 270

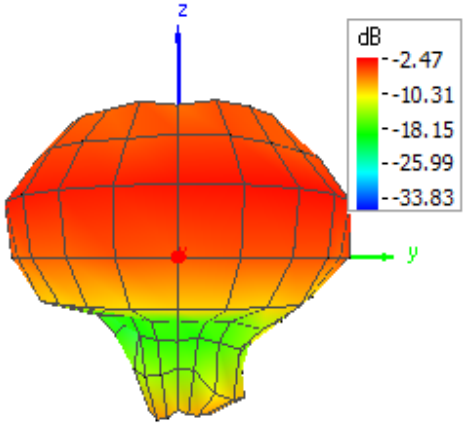


Theta = 180, Phi = 0

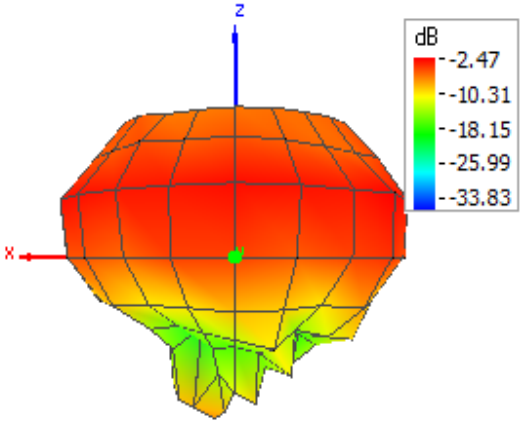


5700MHz 3D

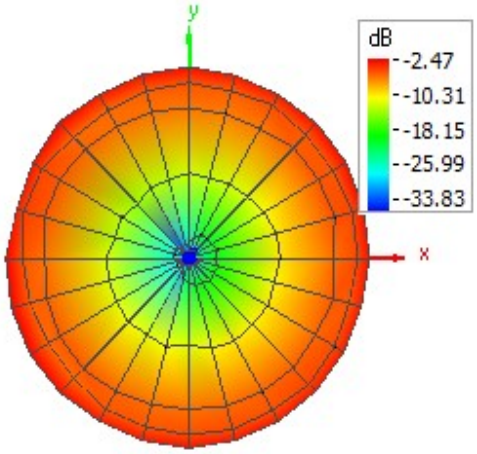
Theta = 90, Phi = 0



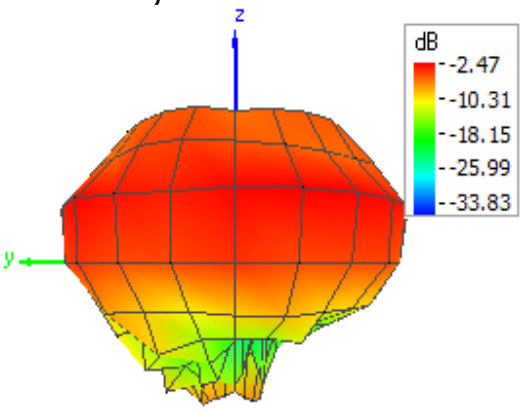
Theta = 90, Phi = 90



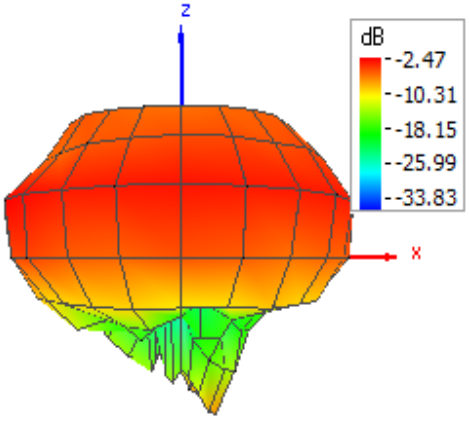
Theta = 0, Phi = 0



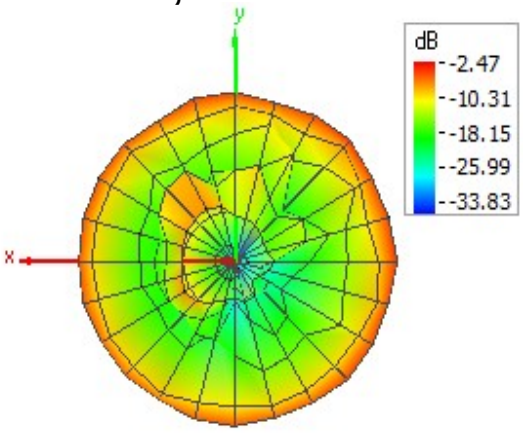
Theta = 90, Phi = 180



Theta = 90, Phi = 270

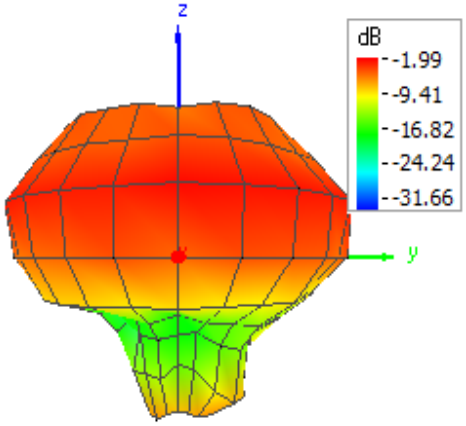


Theta = 180, Phi = 0

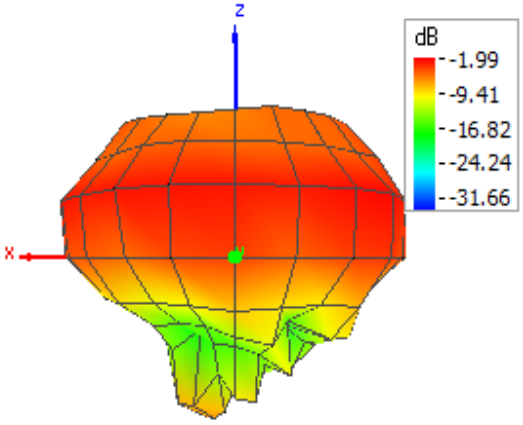


5725MHz 3D

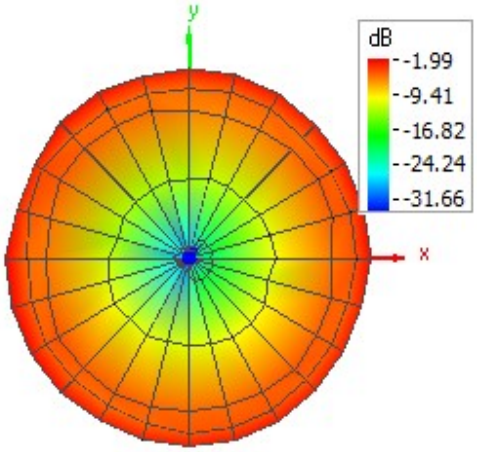
Theta = 90, Phi = 0



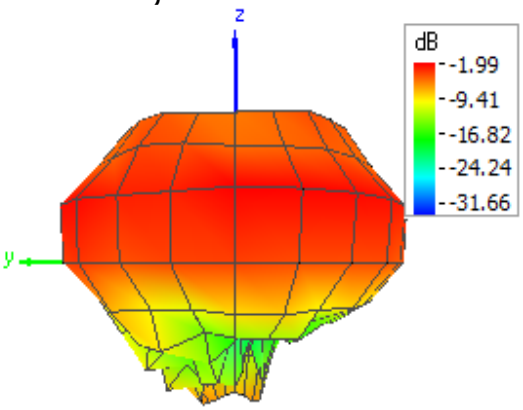
Theta = 90, Phi = 90



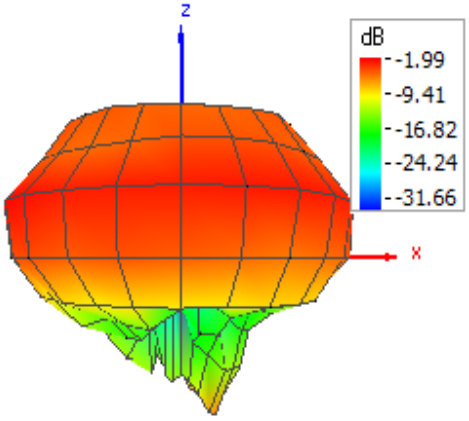
Theta = 0, Phi = 0



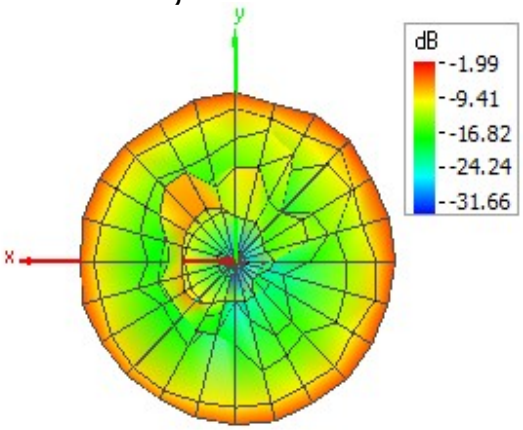
Theta = 90, Phi = 180



Theta = 90, Phi = 270

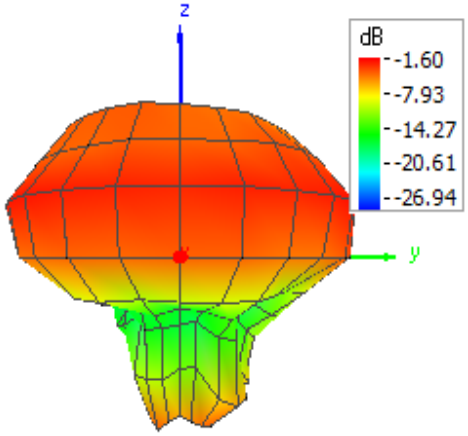


Theta = 180, Phi = 0

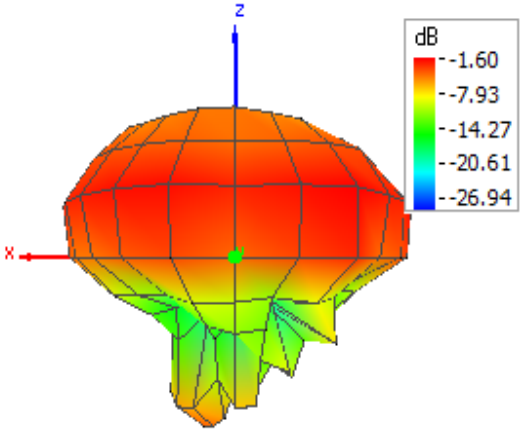


5825MHz 3D

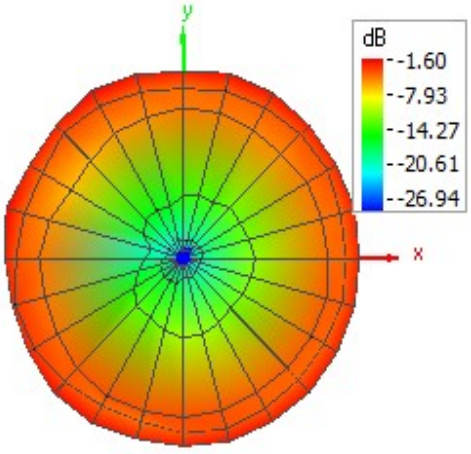
Theta = 90, Phi = 0



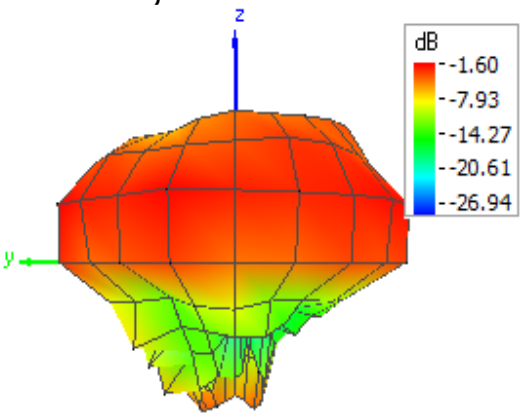
Theta = 90, Phi = 90



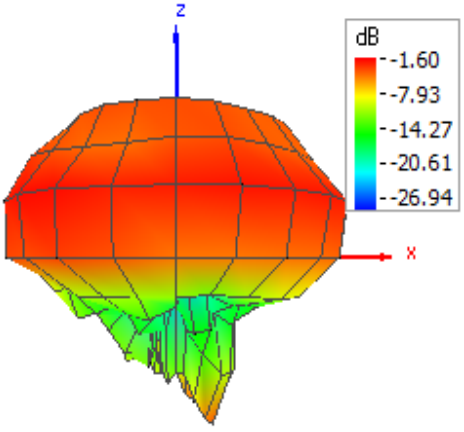
Theta = 0, Phi = 0



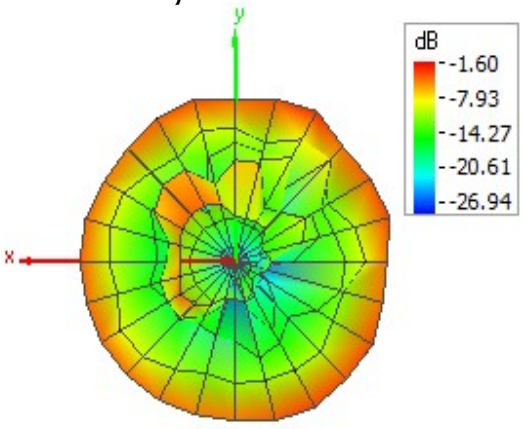
Theta = 90, Phi = 180



Theta = 90, Phi = 270

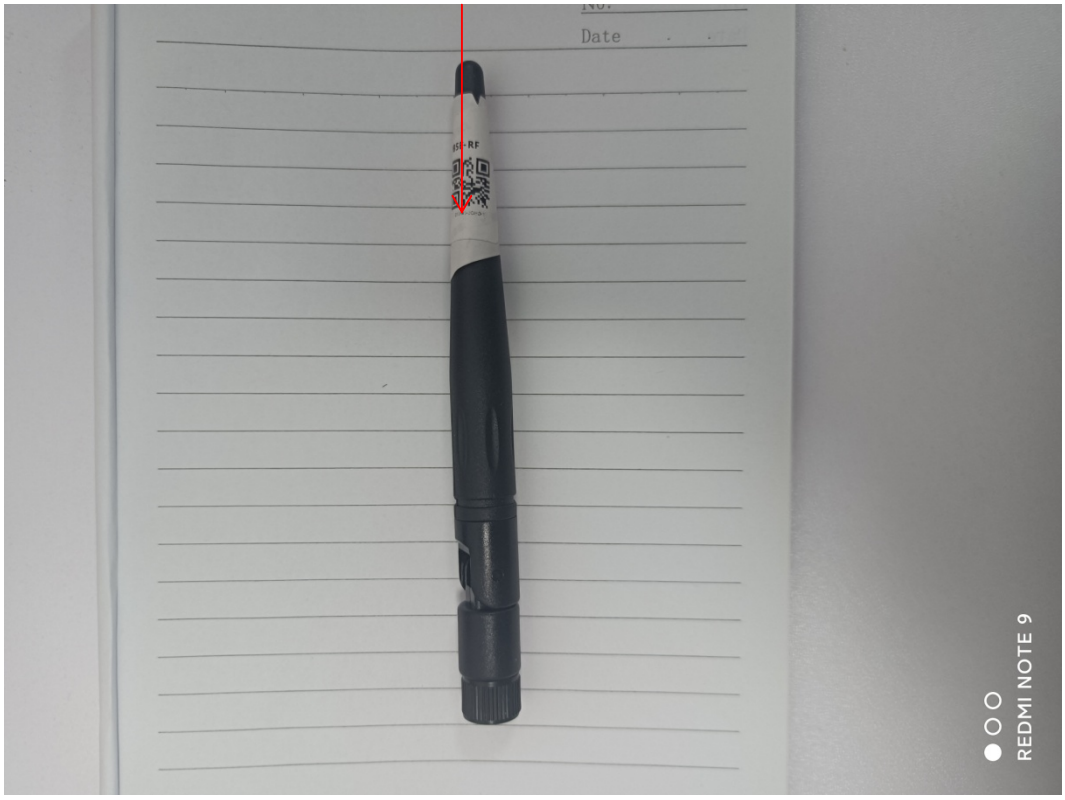


Theta = 180, Phi = 0

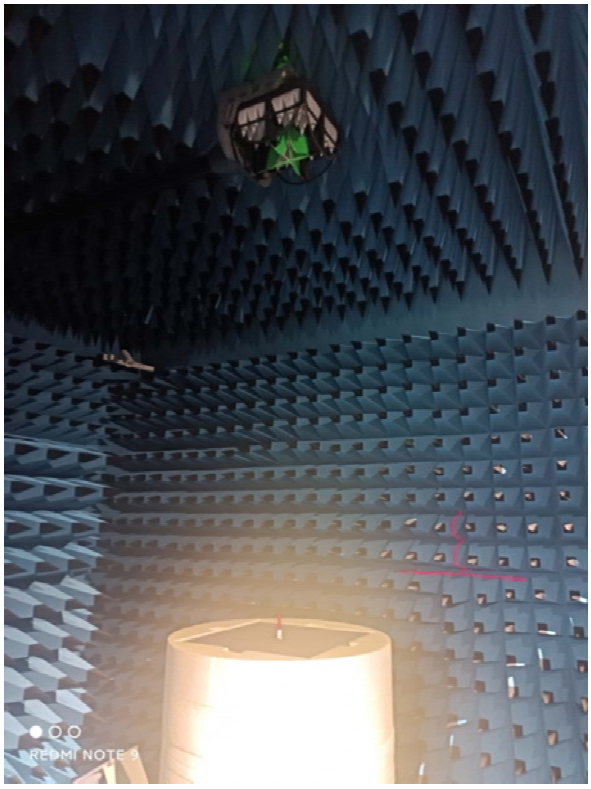


4. EUT PHOTOGRAPHS

Antenna



5. TEST SETUP PHOTOGRAPHS



===== END OF REPORT =====