



TEST REPORT

Reference No...... : WTX25X10267164W
Applicant : Shen Zhen Broadwell Technology co. ltd
Address..... : 719 Mintai Mansion, Minkang Road, Minzhi, Shenzhen, 518000, China
Manufacturer : The same as Applicant
Address..... : The same as Applicant
Product Name : ANT-BT-WIFI-11
Model No...... : ANT-BT-WIFI-11
Standards : ANSI/ IEEE 149-2021
Date of Receipt sample : 2025-10-11
Date of Test..... : 2025-10-11 to 2025-10-21
Date of Issue : 2025-10-28
Test Report Form No. : WTX_ IEEE 149
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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Report version

Version No.	Date of issue	Description
Rev.00	2025-10-28	Original
/	/	/

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1.GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	ANT-BT-WIFI-11
Trade Name:	
Model No.:	ANT-BT-WIFI-11
Adding Model(s):	/
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	2400-2500MHz
Gain of Antenna:	-6.53dBi (Max.)
Type of Antenna:	PCB Antenna

Dimension:





2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
ANSI/ IEEE 149-2021	IEEE Recommended Practice for Antenna Measurements	Compliant

N/A: not applicable

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3. Antenna Test Configurations

3.1 Test Location

Name:	Sushi TOWE Wireless Testing(Shenzhen)Co., Ltd.
Address:	F 401/101, Building E, Hongwei Industrial Zone, No. 6, Liuxian 3rd Road, Bao'an District, Shenzhen,518133

3.2 Test Environments

Environments Parameter	Temperature	Voltage	Humidit
NTNV	25° C	--	50%

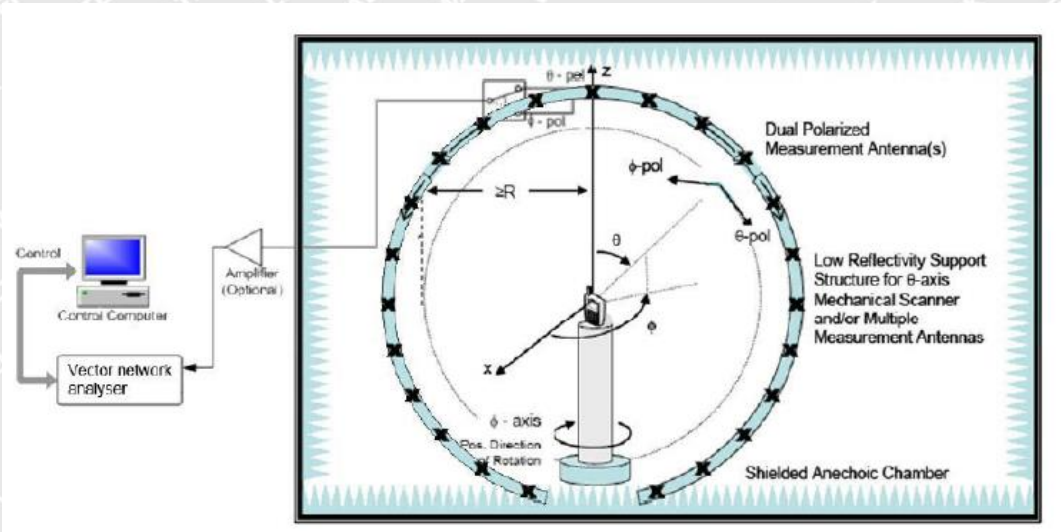
3.3 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Anechoic Chamber	ETS	AMS8923	Q2225	2023-06-09	2028-06-08
RF Switch	ETS	EMCenter	251211	/	/
Vector network analyzer	R&S	ZNB8	101413	2025-07-15	2026-07-14

3.4 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the“Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value,we will use the measurement uncertainty give the judgment result based on the 95%Confidence intervals.

3.5 Test Setup





4. Antenna Test Result

4.1 Gain and Efficiency

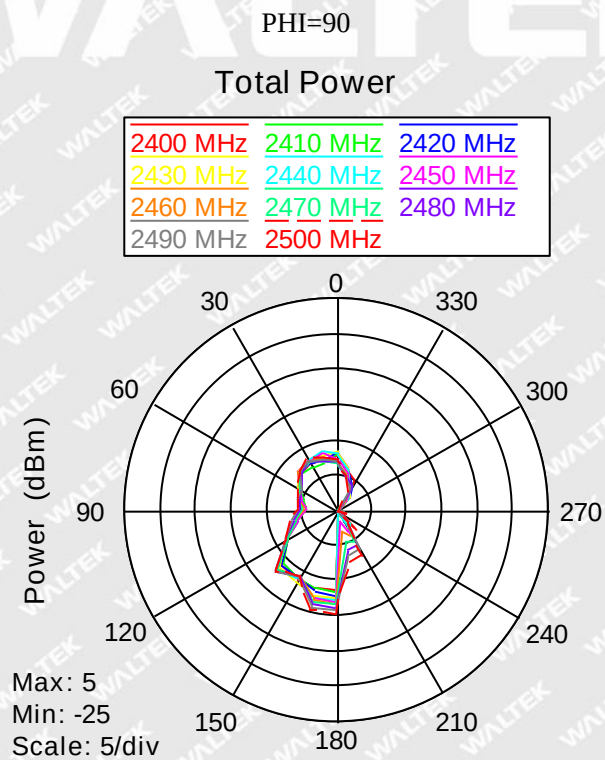
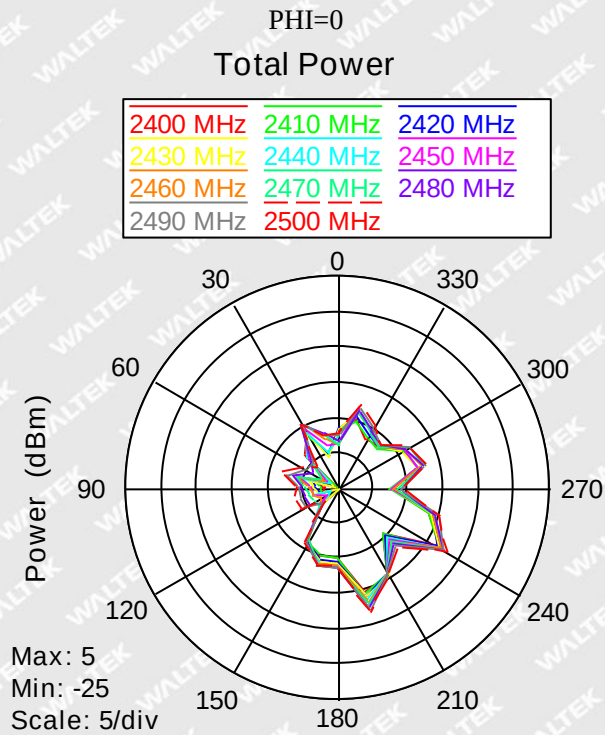
Frequency(MHz)	Gain(dBi)	Efficiency (%)
2400	-8.24	2.53
2410	-8.58	2.50
2420	-8.19	2.64
2430	-7.83	2.77
2440	-7.65	2.86
2450	-7.42	2.91
2460	-7.40	2.95
2470	-7.19	3.07
2480	-6.88	3.25
2490	-6.74	3.43
2500	-6.53	3.67

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4.2 Radiation Pattern 2D View

EUT #1:

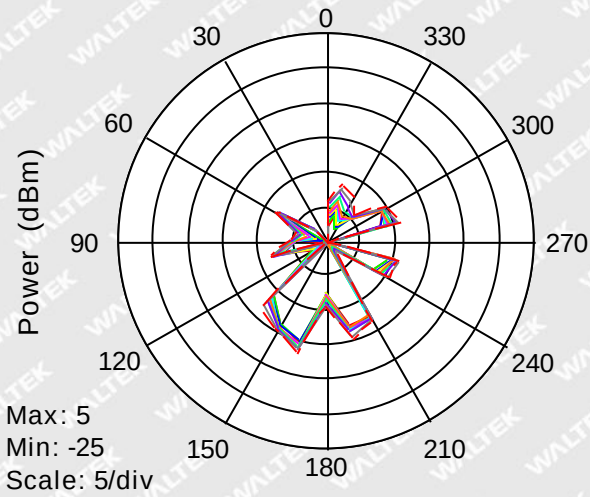




THETA=90

Total Power

2400 MHz	2410 MHz	2420 MHz
2430 MHz	2440 MHz	2450 MHz
2460 MHz	2470 MHz	2480 MHz
2490 MHz	2500 MHz	



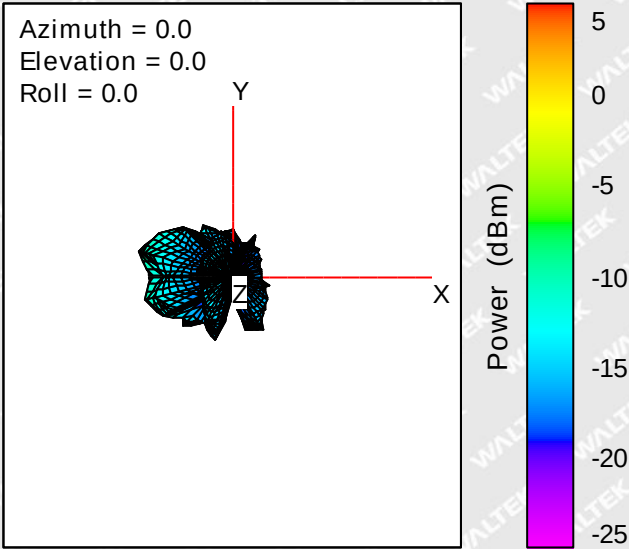
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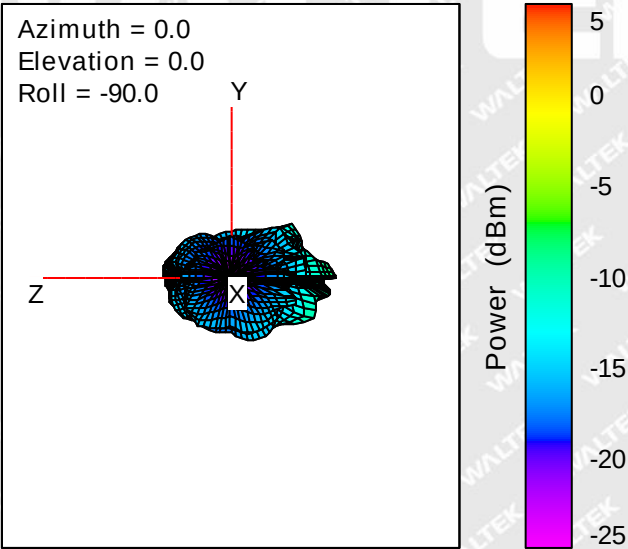
4.3 Radiation Pattern 3D View

2440MHz

Total Power

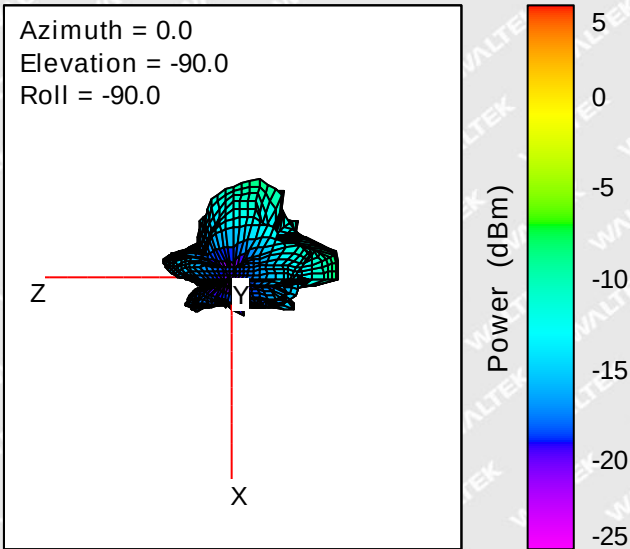


Total Power





Total Power



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EXHIBIT 1 - EUT PHOTOGRAPHS

EUT View 1

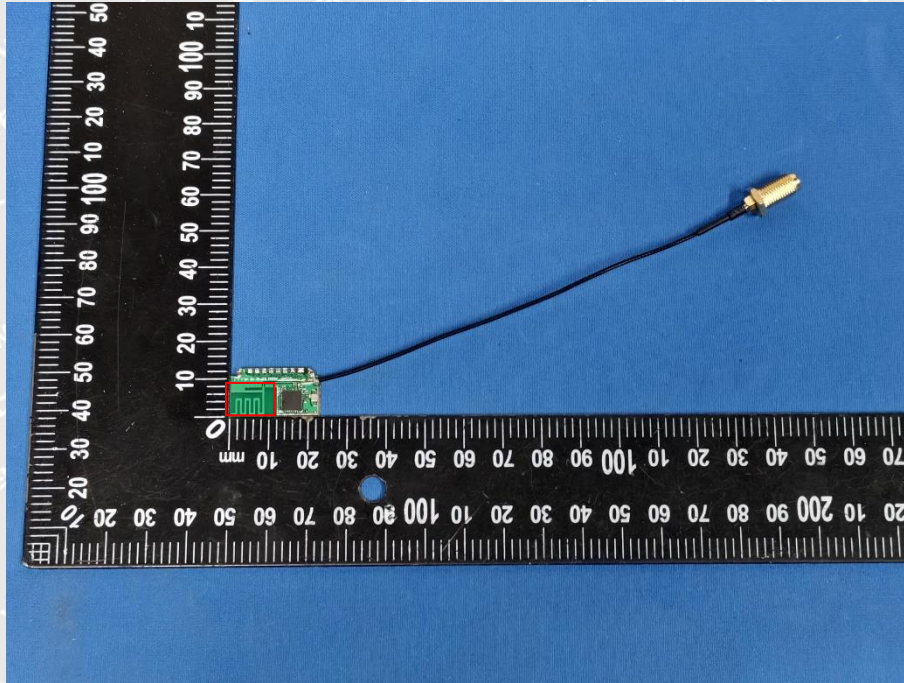
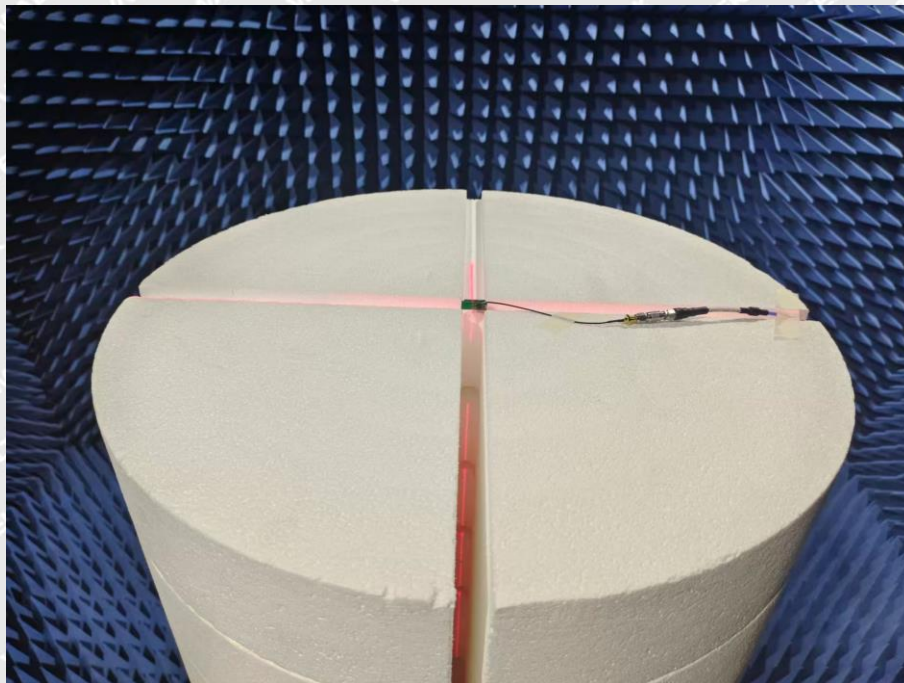




EXHIBIT 2 - TEST SETUP PHOTOGRAPHS

OTA Test View 1:



***** END OF REPORT *****