

# **ANTENNA TEST REPORT**

Applicant	Robefactory LLC
Address	1725 Chaparral Road, Suit 110 Henderson, Las Vegas, Nevada 89044, United States

Manufacturer or Supplier	Robefactory LLC	
Address	1725 Chaparral Road, Suit 110 Henderson, Las Vegas, Nevada 89044, United Sta	
Product	Antenna	
Brand Name	N/A	
Model	18943	
Max. Peak Gain	0.35 dBi	
Date of tests	Jun. 11, 2024	

Tested by Andy Zhu Supervisor / EMC Department

Andy

Approved by Glyn He

Assistant Manager / EMC Department

#### Date: Jun. 27, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/eurms-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/eurms-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of the report contents.

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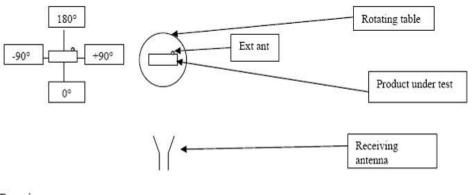
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### 1. MEASUREMENTS SETUP

#### Orientation



Top view

### **1.1 TEST PROCEDURE**

- a. The EUT was placed on the rotating table 1.5 meters above the ground at a Fully Anechoic Room, the table was rotated 360 degrees.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on the top of a antenna tower.
- c. The antenna is 1.5 meters above the ground. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position.

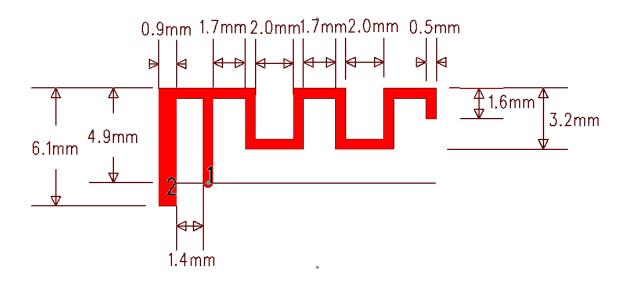
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### 2. MEASUREMENT UNCERTAINTY

Expanded Uncertainty for Measurement (k=2 or 95% confidence level) at Passive antenna test over frequency range 1000MHz-6000MHz is +/- 1.86dB.

## 3. SIZE OF THE ANTENNA





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### 4. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 24
Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Jan. 01, 25
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1247	Apr. 13, 25
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 B	00740	Jul. 20, 24
Turn Table	MF	MF-7802	MF780208191	N/A
Controller	MF	MF-7802	MF780208243	N/A
Test Software	BV ADT	BV ADT Antenna Pattern	V6.2	N/A

**NOTE:** 1. The test was performed in Fully Anechoic Room.

- 2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation.
- 3. Test Lab Address: No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.



### 5. TEST RESULTS

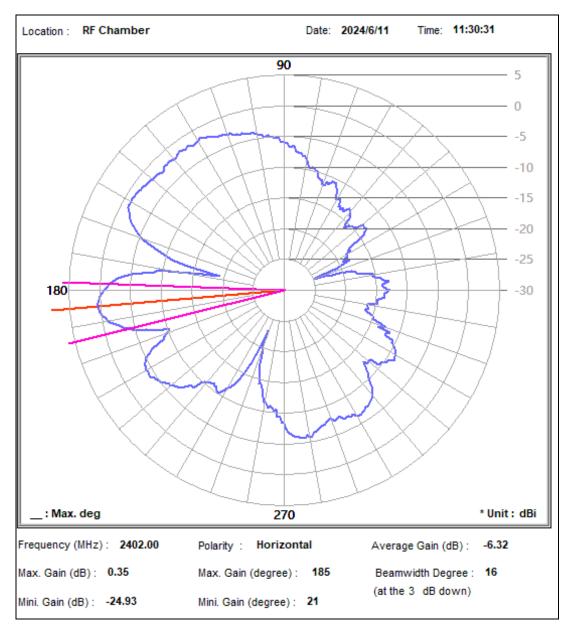
ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
	2402	Horizontal	0.35
PCB		Vertical	0.16
	2440	Horizontal	-1.46
		Vertical	-2.19
	2480	Horizontal	-0.69
		Vertical	-1.14

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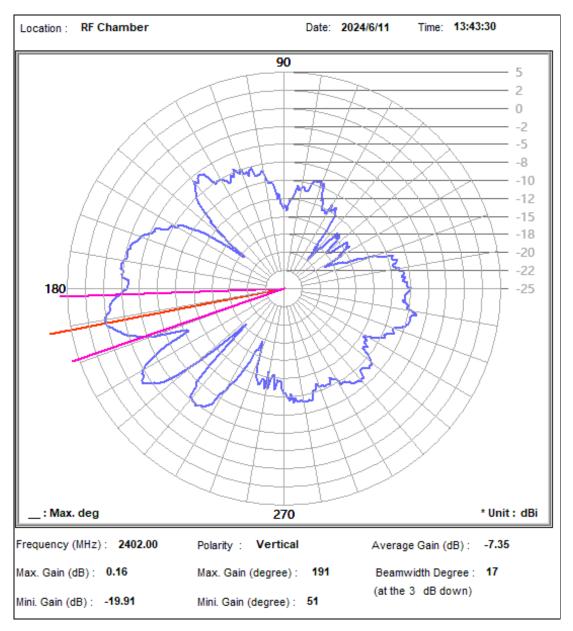
### Frequency: 2402 MHz (Horizontal)



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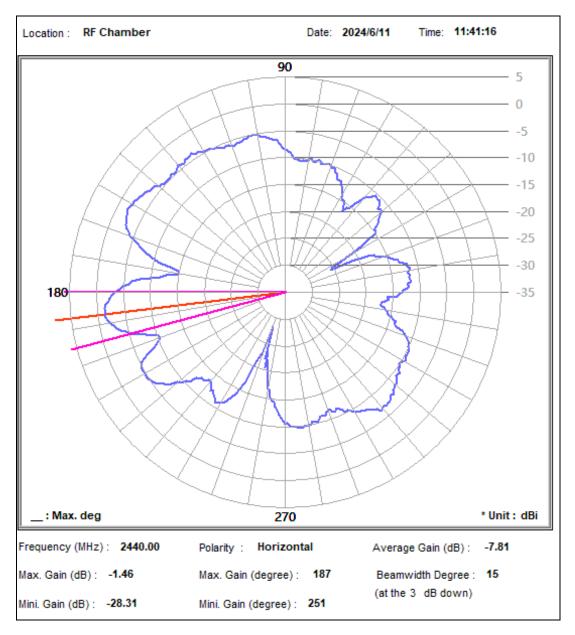
### Frequency: 2402 MHz (Vertical)



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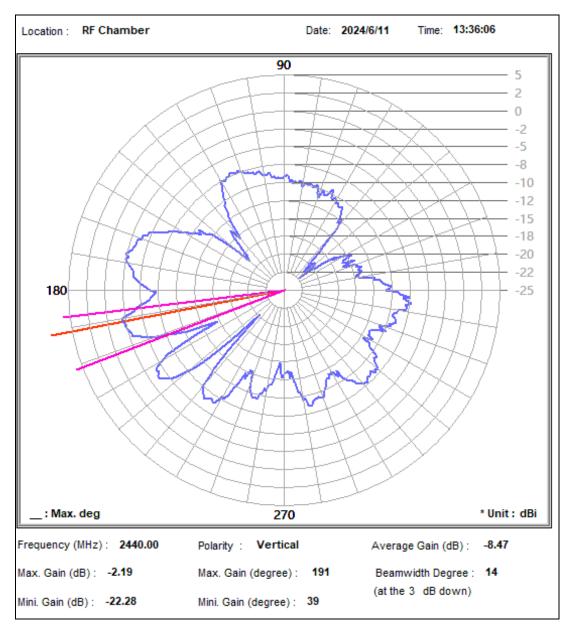
#### Frequency: 2440 MHz (Horizontal)



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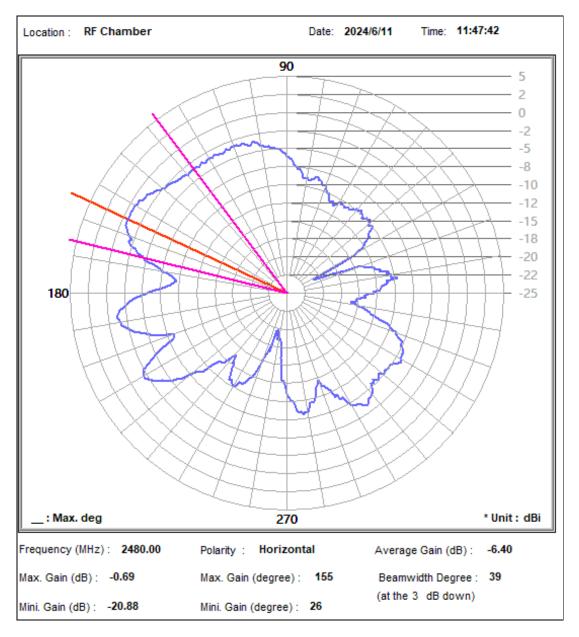
### Frequency: 2440 MHz (Vertical)



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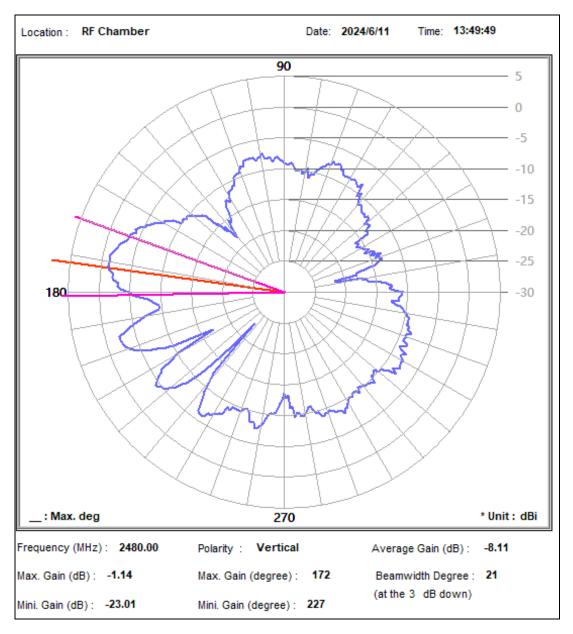
#### Frequency: 2480 MHz (Horizontal)



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#### Frequency: 2480 MHz (Vertical)



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### 6. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Antenna Test Photo).

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