

ANTENNA TEST REPORT

Applicant	Pinghu Haojiaer Vehicle Industr	Pinghu Haojiaer Vehicle Industry Co., Itd.			
Address	No.88 Sanxing Road, Guangche	No.88 Sanxing Road, Guangchen Town, Pinghu, Zhejiang			
Manufacturer or Supplier	Pinghu Haojiaer Vehicle Industry Co., Itd.				
Address	No.88 Sanxing Road, Guangchen Town, Pinghu, Zhejiang				
Product	BT Antenna				
Brand Name	N/A				
Model	HC-301				
Max. Peak Gain	-5.69 dBi				
Date of tests	Oct. 24, 2024				
Prepared by Andy Zhu Supervisor / EMC Department		Approved by Glyn He Assistant Manager / EMC Department			
This report is governed by, http://www.bureauveritas.cc replication of this report to o sets forth our findings solel quality or characteristics of report includes all of the ter	m/home/about-us/our-business/cps/about-us/term or for any other person or entity, or use of our nam y with respect to the test samples identified herein the lot from which a test sample was taken or sts requested by you and the results thereof base	Date: Dec. 23, 2024 Testing as posted at the date of issuance of this report at ns-conditions/ and is intended for your exclusive use. Any copying or ne or trademark, is permitted only with our prior written permission. This report n. The results set forth in this report are not indicative or representative of the any similar or identical product unless specifically and expressly noted. Our based on simple acceptance criteria without taking measurement uncertainty is based on simple acceptance criteria without taking measurement uncertainty			

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

report, the tests conducted and the correctness of the report contents

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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 this

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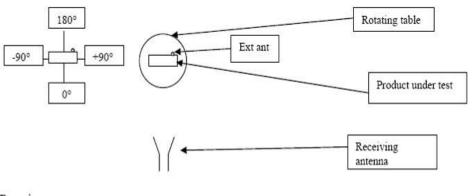
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1. MEASUREMENTS SETUP

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.

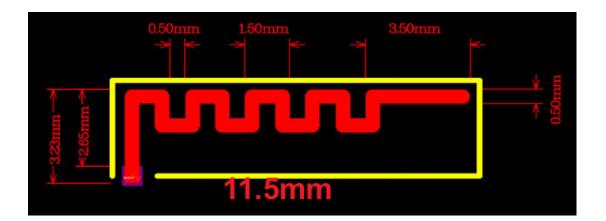
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2. MEASUREMENT UNCERTAINTY

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. 08, 25
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. 19, 25
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 and all tests are conducted within a valid calibration cycle.
- 3. Test Lab Address: No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.



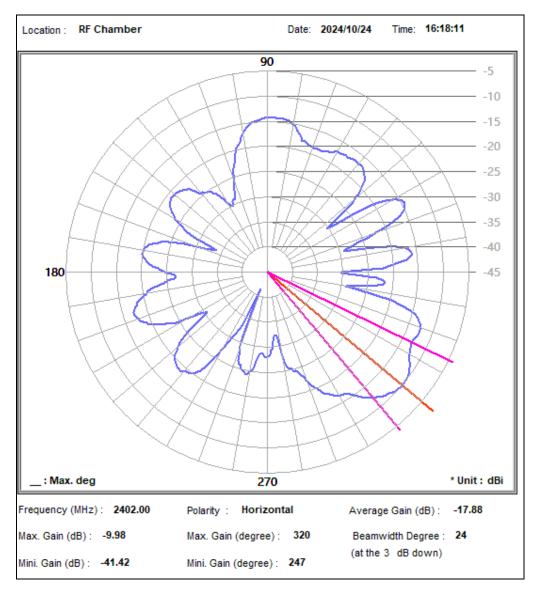
5. TEST RESULTS

ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
РСВ	2402	Horizontal	-9.98
		Vertical	-14.12
	2441	Horizontal	-6.38
		Vertical	-11.47
	2480	Horizontal	-5.69
		Vertical	-10.94

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Frequency: 2402 MHz (Horizontal)

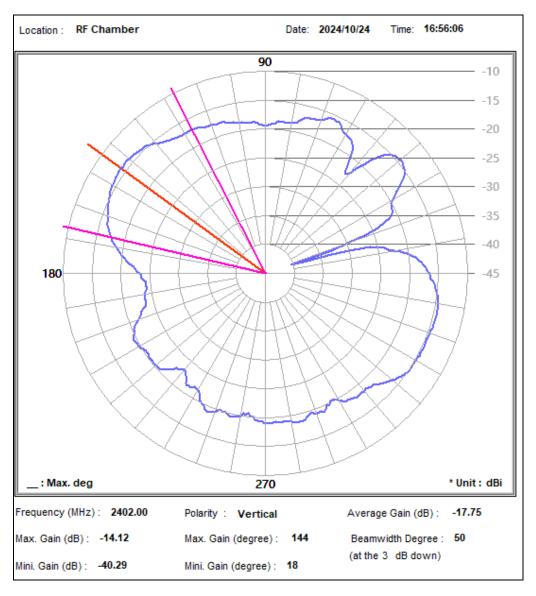


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Frequency: 2402 MHz (Vertical)

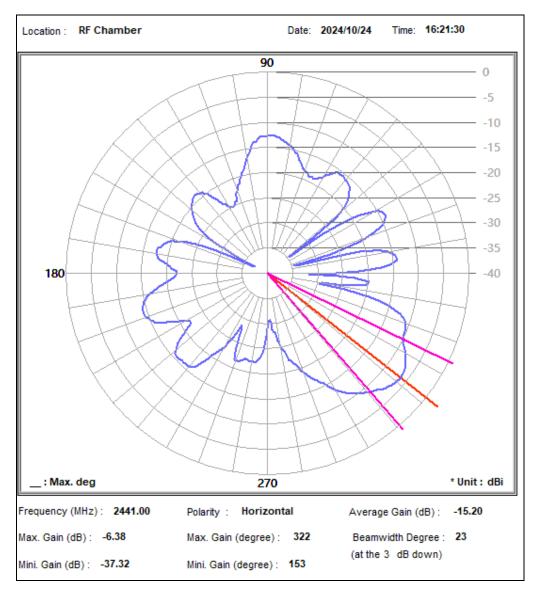


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Frequency: 2441 MHz (Horizontal)

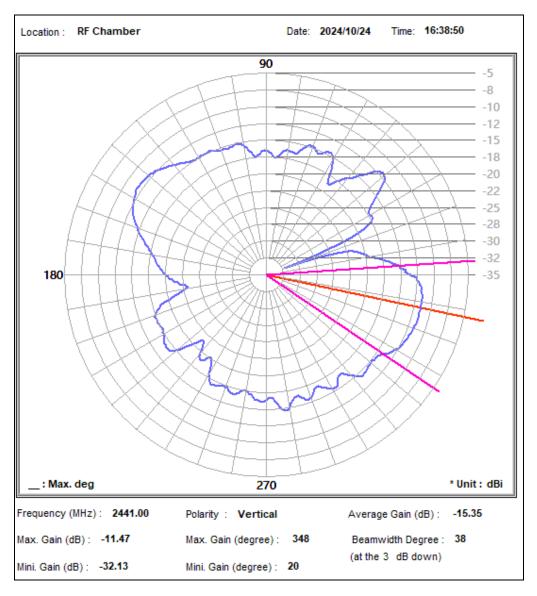


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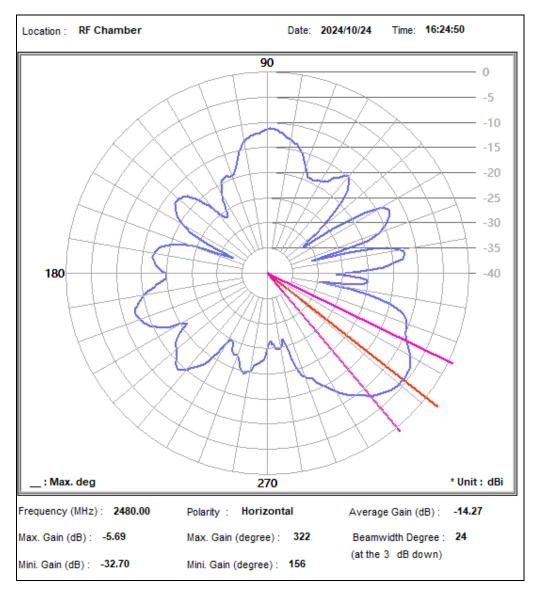
Frequency: 2441 MHz (Vertical)



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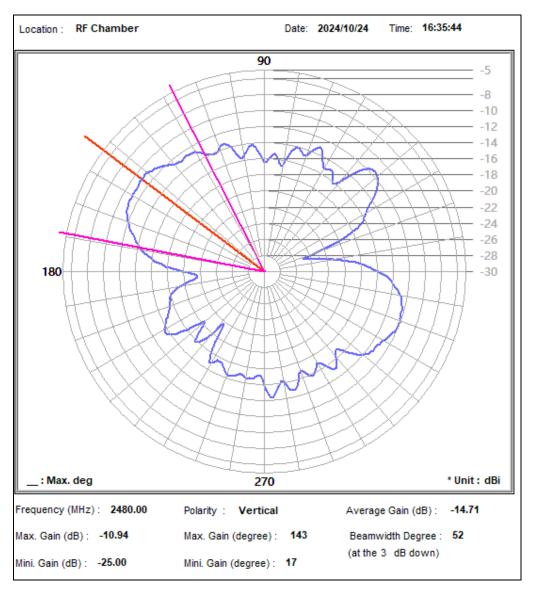
Frequency: 2480 MHz (Horizontal)



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Frequency: 2480 MHz (Vertical)



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6. PHOTOGRAPHS OF THE TEST CONFIGURATION



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