



Test Report No.: AN2401WDG0191

ANTENNA TEST REPORT

Applicant	Shenzhen Chant U Electronics Co.,LTD
Address	1001 Fuchangsheng Industrial Plant, No. 2 Chengxin Road, Baolong Community, Baolong Street, Longgang District, Shenzhen

Manufacturer or Supplier	Shenzhen Chant U Electronics Co.,LTD
Address	1001 Fuchangsheng Industrial Plant, No. 2 Chengxin Road, Baolong Community, Baolong Street, Longgang District, Shenzhen
Product	Antenna
Brand Name	N/A
Model	SY13TX
Max. Peak Gain	-0.47 dBi
Date of tests	Mar. 26, 2024

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Apr. 07, 2024

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Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie
Town, Dongguan City, Guangdong Province.
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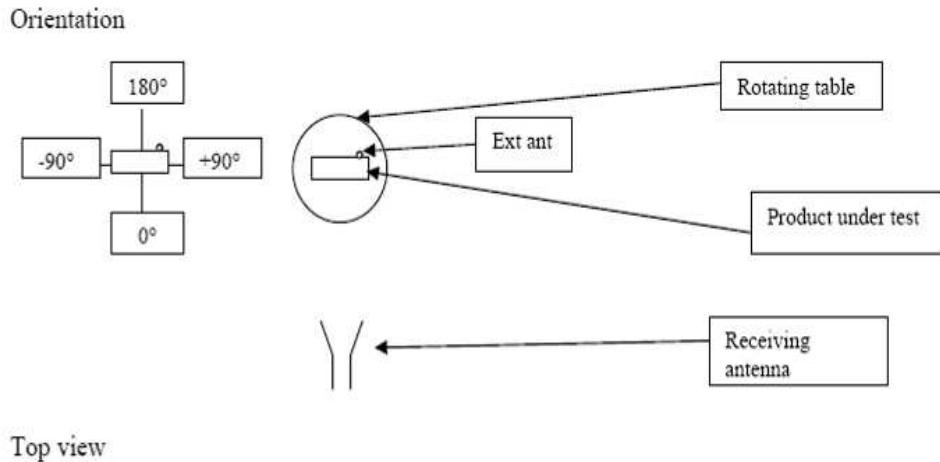
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1. MEASUREMENTS SETUP



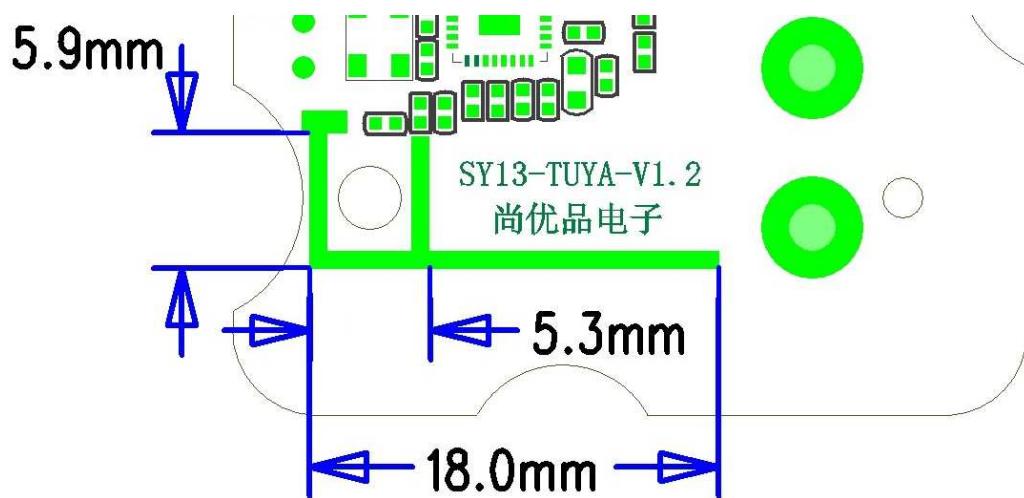
1.1 TEST PROCEDURE

- 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.

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





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. 01, 24
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:

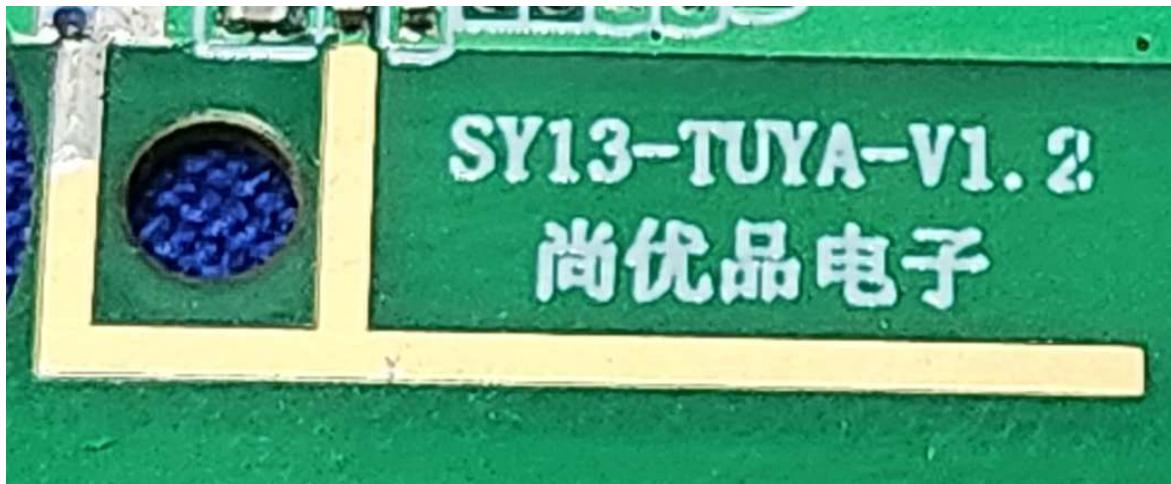
1. The test was performed in Fully Anechoic Room.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation.
3. Test Lab Address: No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic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



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5. TEST RESULTS

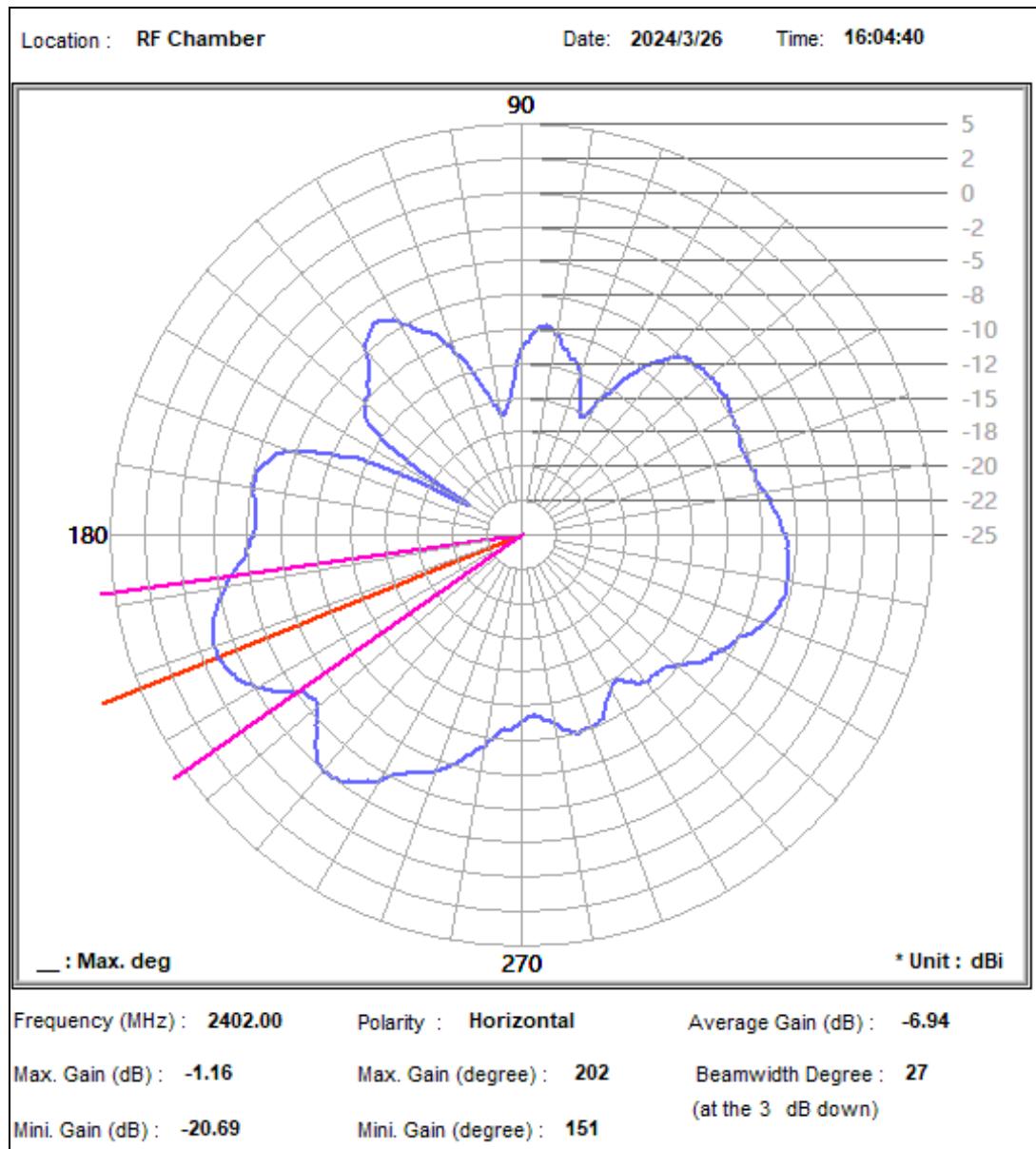
ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
PCB	2402	Horizontal	-1.16
		Vertical	-3.67
	2440	Horizontal	-1.51
		Vertical	-4.24
	2480	Horizontal	-0.47
		Vertical	-2.95





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Frequency: 2402 MHz (Horizontal)



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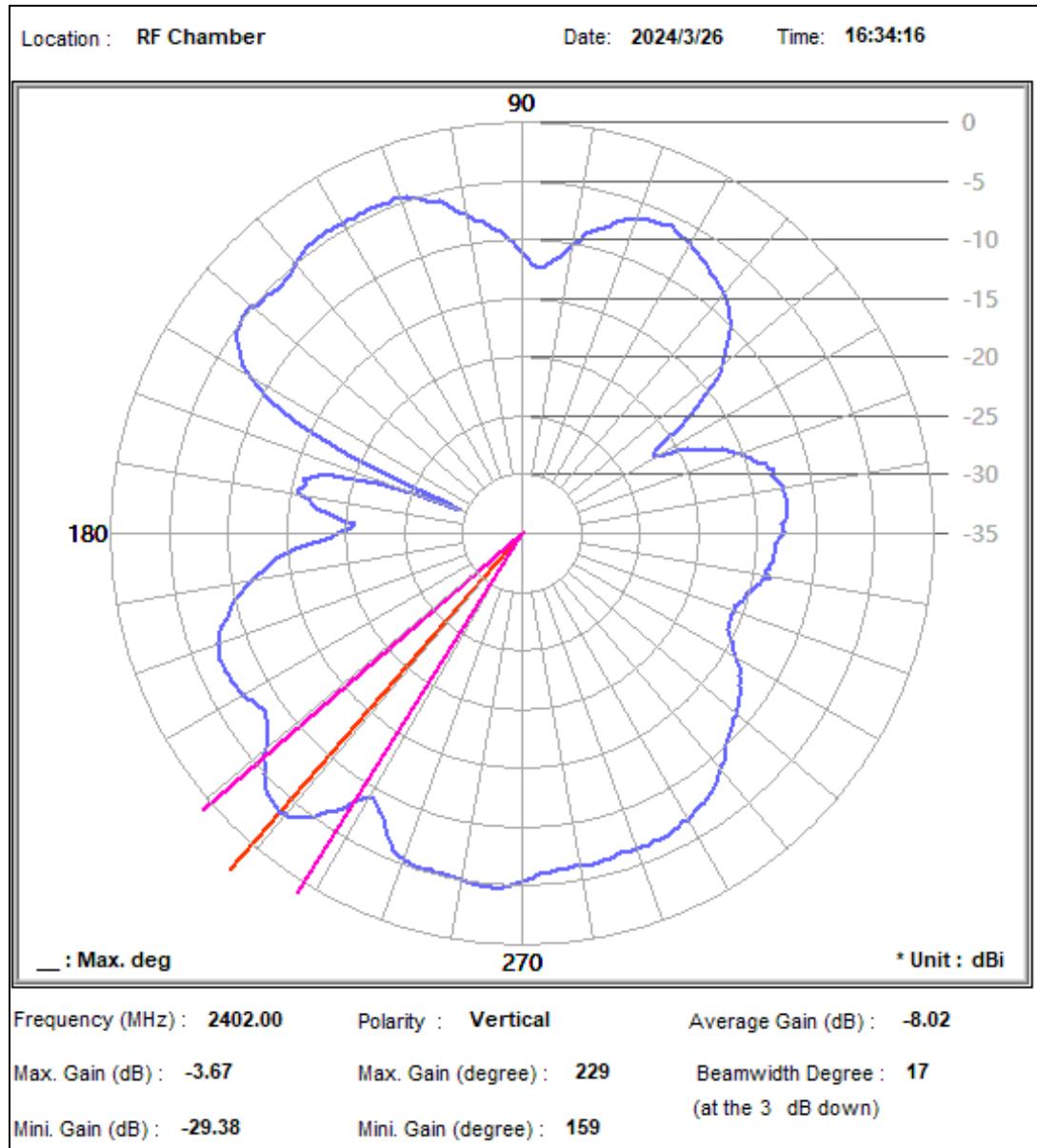
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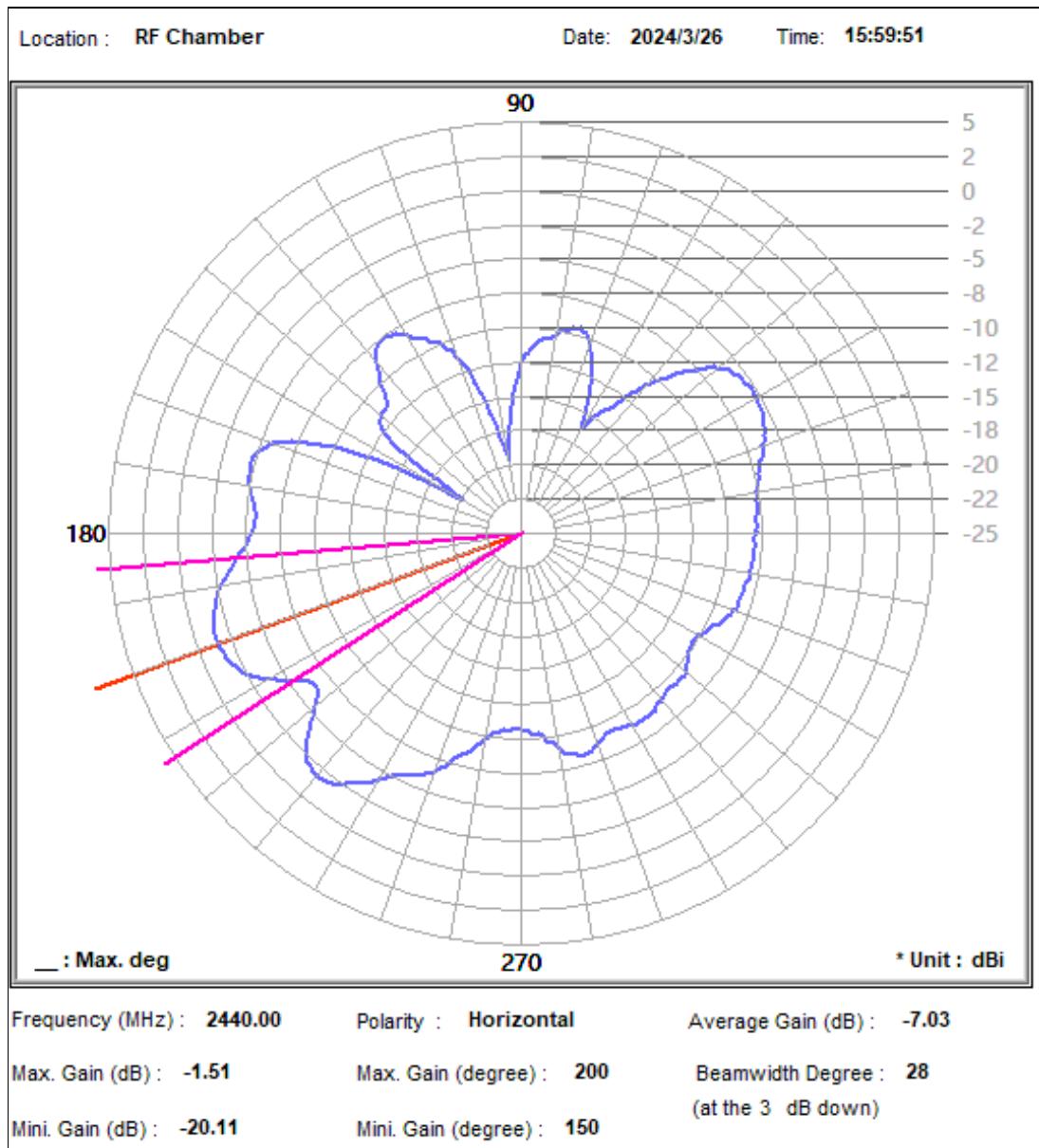
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Frequency: 2440 MHz (Horizontal)



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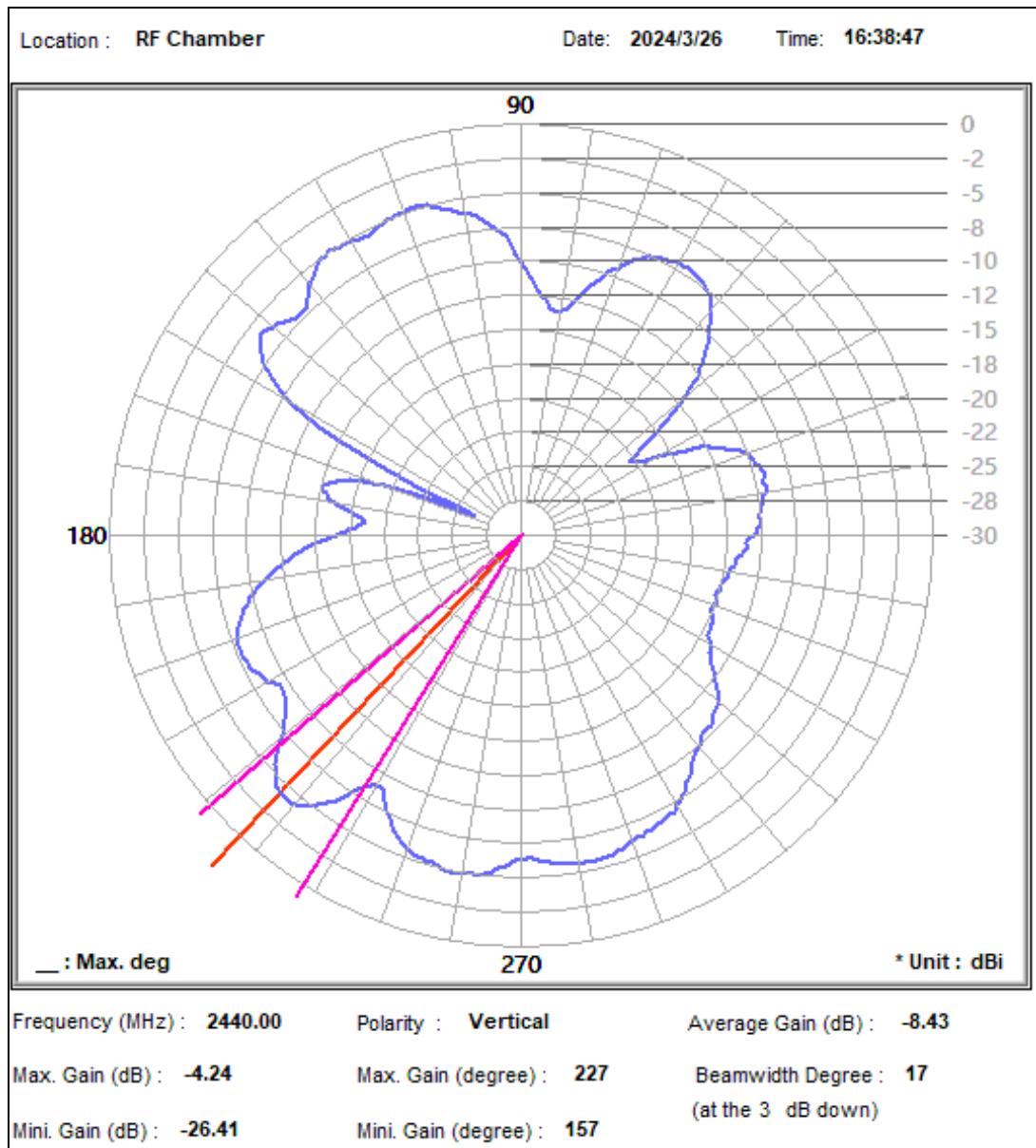
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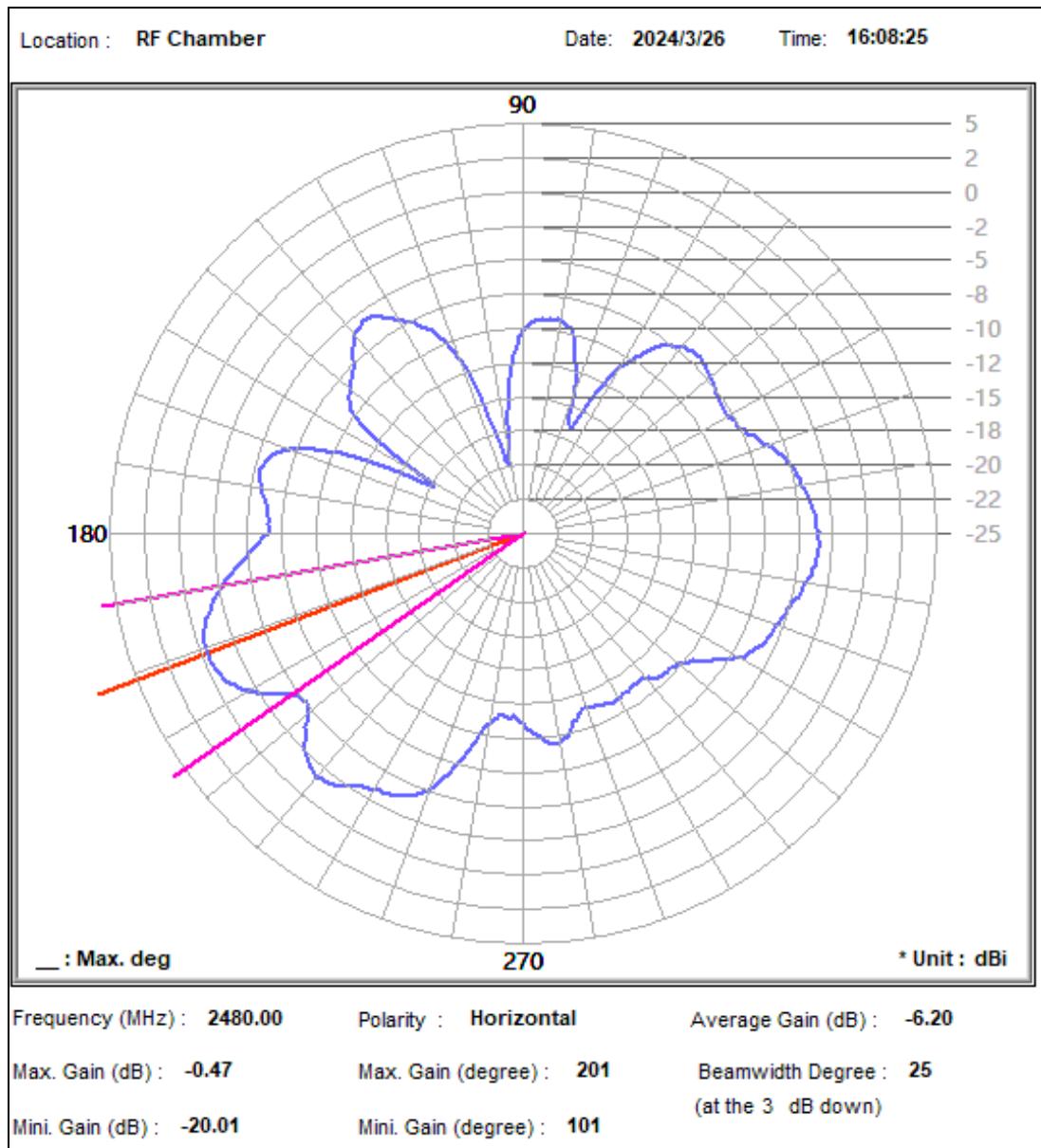
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Frequency: 2480 MHz (Horizontal)



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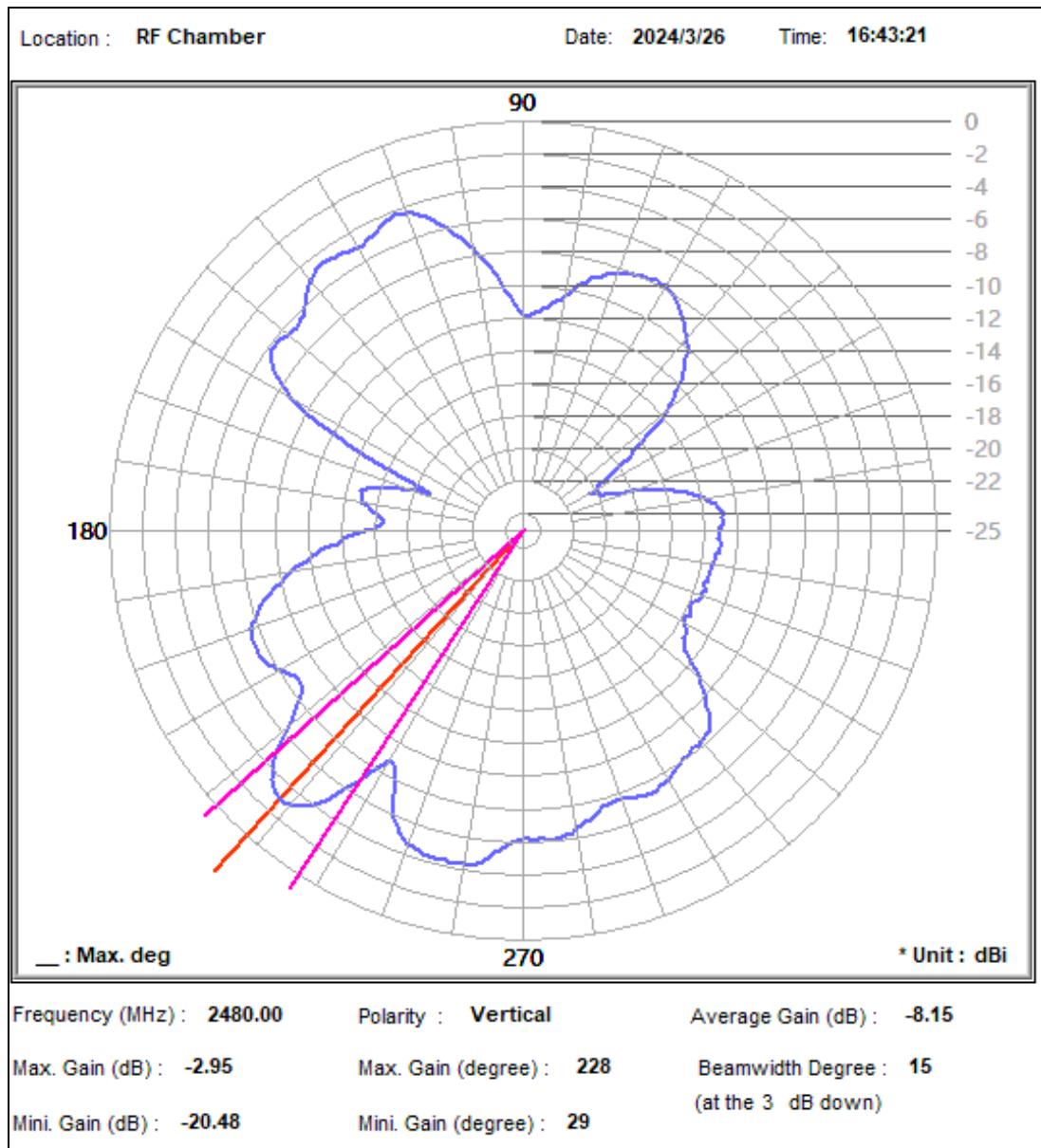
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6. PHOTOGRAPHS OF THE TEST CONFIGURATION

