





Test Report No.: AN2206WDG0262

ANTENNA TEST REPORT

Applicant	ONANOFF LIMITED
Address	RM 424, Sino Ind. Plaza, 9 Kai Cheung Road, Kowloon Bay, Kowloon, Hong Kong

Manufacturer or Supplier	ONANOFF LIMITED
Address	RM 424, Sino Ind. Plaza, 9 Kai Cheung Road, Kowloon Bay, Kowloon, Hong Kong
Product	Antenna
Brand Name	
Model	BT-ON-FOKUSP
Max. Peak Gain	-0.28 dBi
Date of tests	Jan. 12, 2023

Tested by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Feb. 06, 2023

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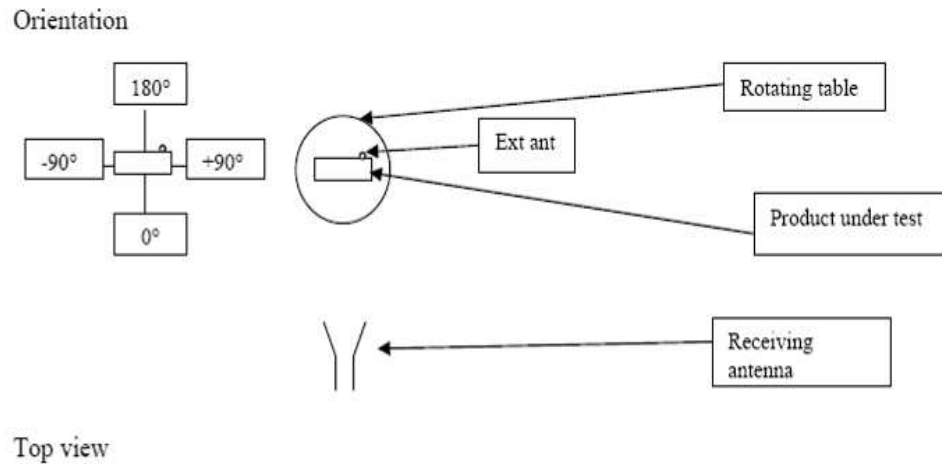
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1. MEASUREMENTS SETUP



1.1 TEST PROCEDURE

- 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.
- The EUT was set 3 meters away from the receiving antenna, which was mounted on the top of a antenna tower.
- The antenna is 1.5 meters above the ground. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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. SIZE OF THE ANTENNA



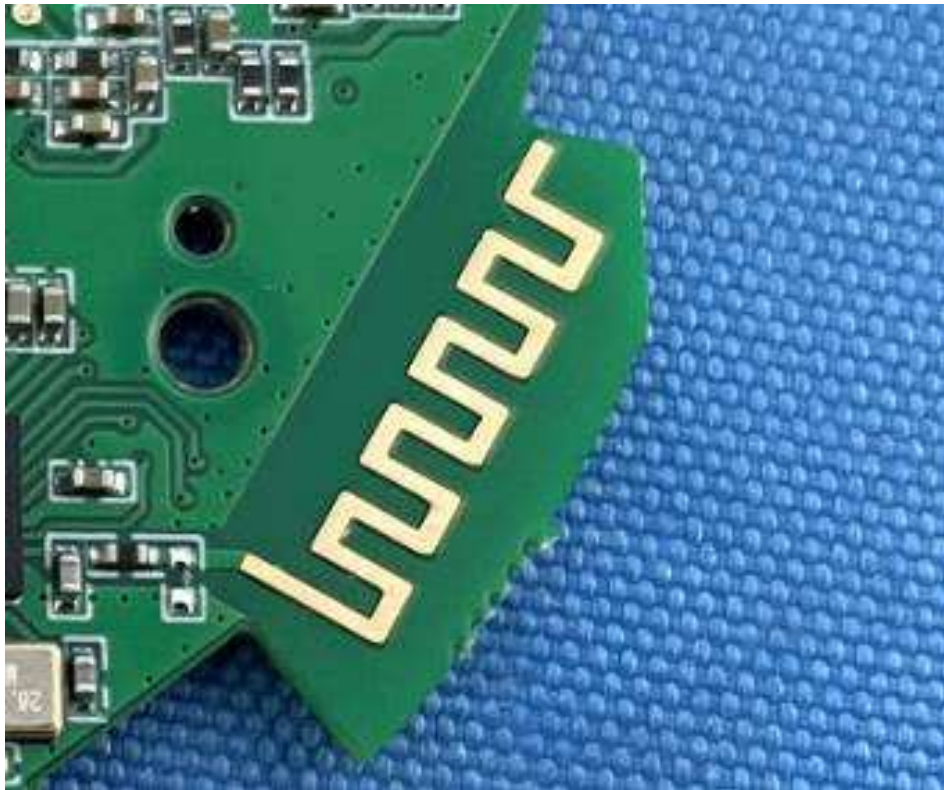
3. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal Generator	Agilent	N5183A	MY50140980	Jul. 20, 23
Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Jan. 16, 23
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1247	Apr. 23, 23
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 B	00740	Jul. 20, 23
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. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4. TEST RESULTS

ANTENNA	FREQUENCY (MHz)	ANTENNA POLARITY	MAX. PEAK GAIN (dBi)
PCB	2402	Horizontal	-0.28
		Vertical	-1.37
	2440	Horizontal	-1.16
		Vertical	-1.54
	2480	Horizontal	-1.23
		Vertical	-0.93

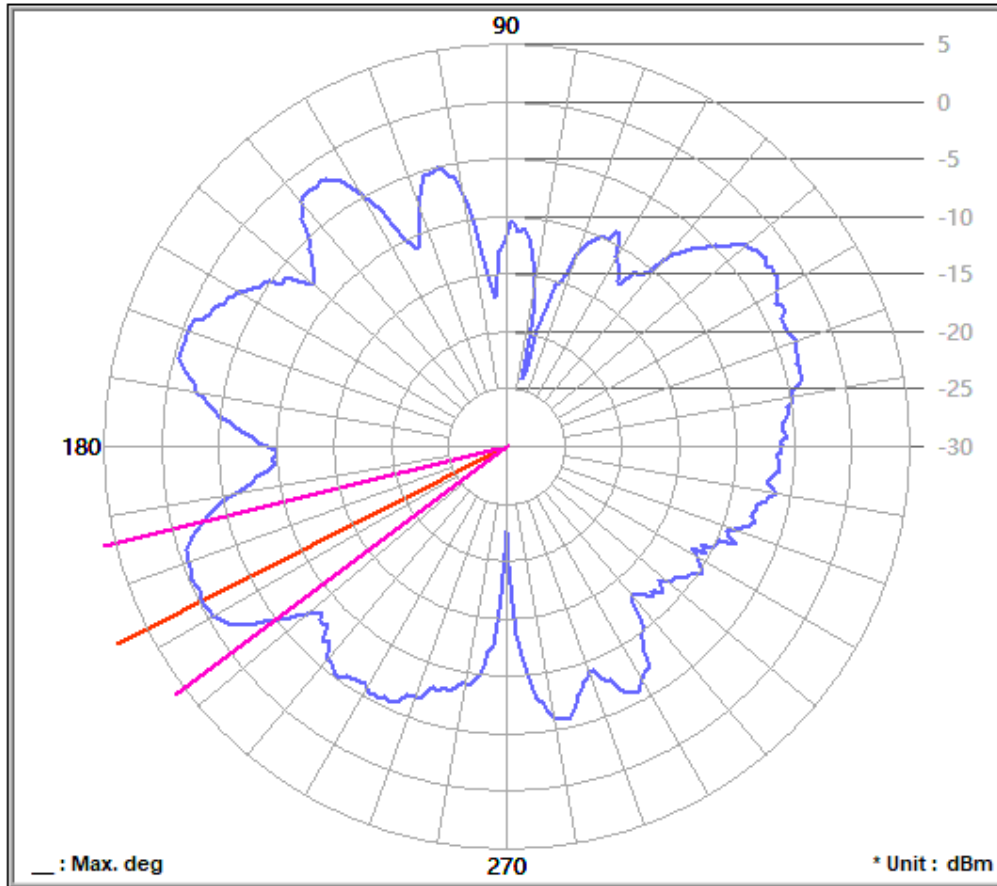


Frequency: 2402 MHz (Horizontal)

Location : RF Chamber

Date: 2023/1/12

Time: 13:43:06



Frequency (MHz) : **2402.00**

Polarity : **Horizontal**

Average Gain (dB) : **-5.54**

Max. Gain (dB) : **-0.28**

Max. Gain (degree) : **207**

Beamwidth Degree : **23**

Mini. Gain (dB) : **-23.97**

Mini. Gain (degree) : **77**

(at the 3 dB down)



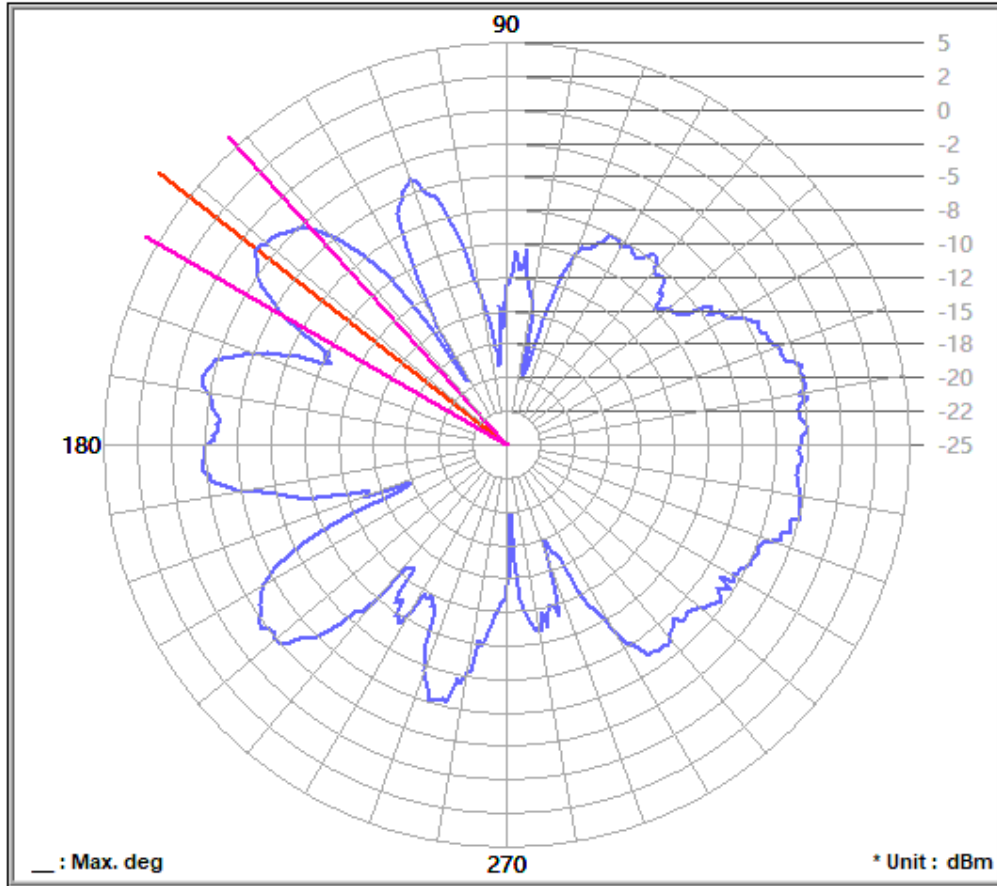
Test Report No.: AN2206WDG0262

Frequency: 2402 MHz (Vertical)

Location : RF Chamber

Date: 2023/1/12

Time: 13:31:21



Frequency (MHz) : 2402.00	Polarity : Vertical	Average Gain (dB) : -5.85
Max. Gain (dB) : -1.37	Max. Gain (degree) : 142	Beamwidth Degree : 18 (at the 3 dB down)
Mini. Gain (dB) : -19.90	Mini. Gain (degree) : 273	

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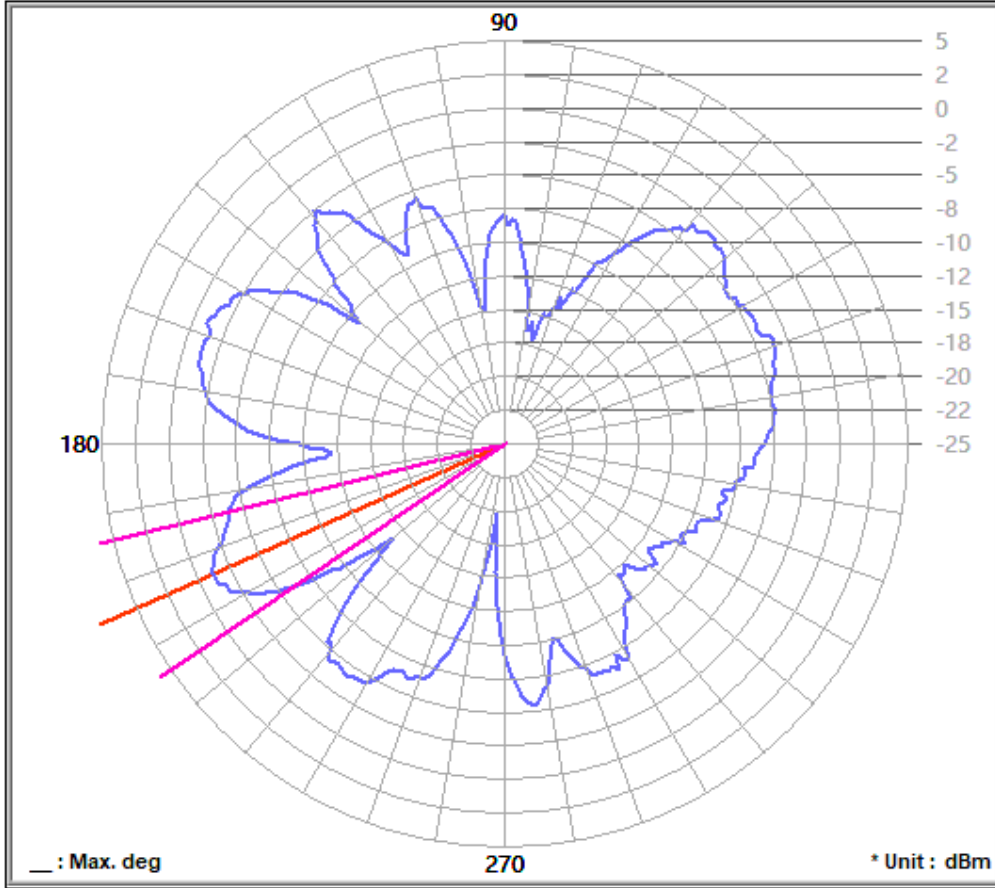
Test Report No.: AN2206WDG0262

Frequency: 2440 MHz (Horizontal)

Location : RF Chamber

Date: 2023/1/12

Time: 13:54:31



Frequency (MHz) : 2440.00	Polarity : Horizontal	Average Gain (dB) : -5.93
Max. Gain (dB) : -1.16	Max. Gain (degree) : 204	Beamwidth Degree : 20
Mini. Gain (dB) : -19.73	Mini. Gain (degree) : 264	(at the 3 dB down)

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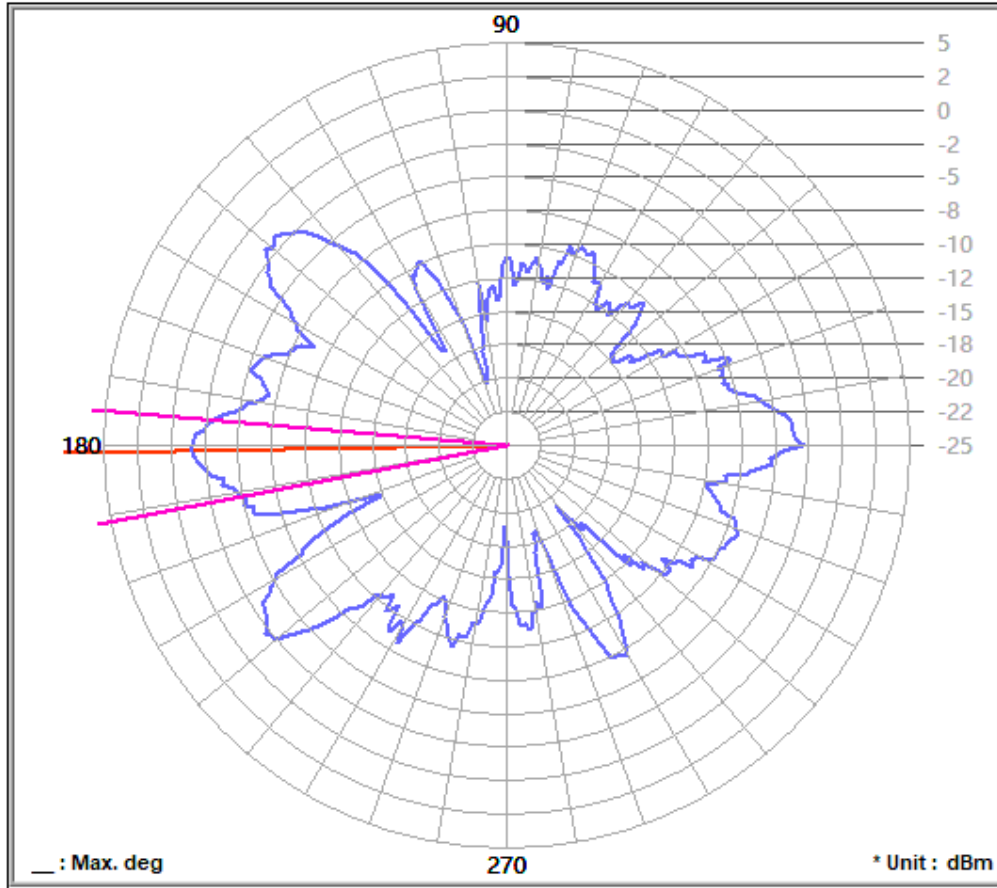
Test Report No.: AN2206WDG0262

Frequency: 2440 MHz (Vertical)

Location : RF Chamber

Date: 2023/1/12

Time: 13:22:18



Frequency (MHz) : 2440.00	Polarity : Vertical	Average Gain (dB) : -7.65
Max. Gain (dB) : -1.54	Max. Gain (degree) : 181	Beamwidth Degree : 16 (at the 3 dB down)
Mini. Gain (dB) : -20.14	Mini. Gain (degree) : 107	

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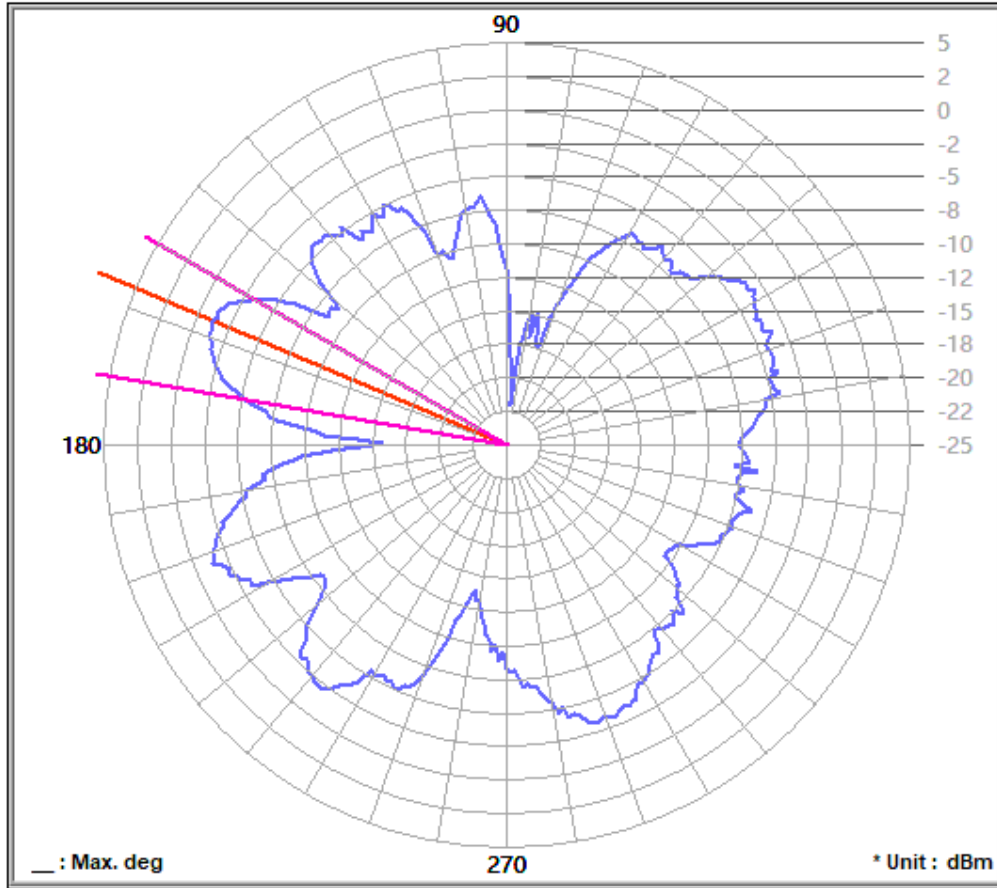
Test Report No.: AN2206WDG0262

Frequency: 2480 MHz (Horizontal)

Location : RF Chamber

Date: 2023/1/12

Time: 14:01:59



Frequency (MHz) : 2480.00	Polarity : Horizontal	Average Gain (dB) : -5.77
Max. Gain (dB) : -1.23	Max. Gain (degree) : 157	Beamwidth Degree : 20 (at the 3 dB down)
Mini. Gain (dB) : -22.03	Mini. Gain (degree) : 84	

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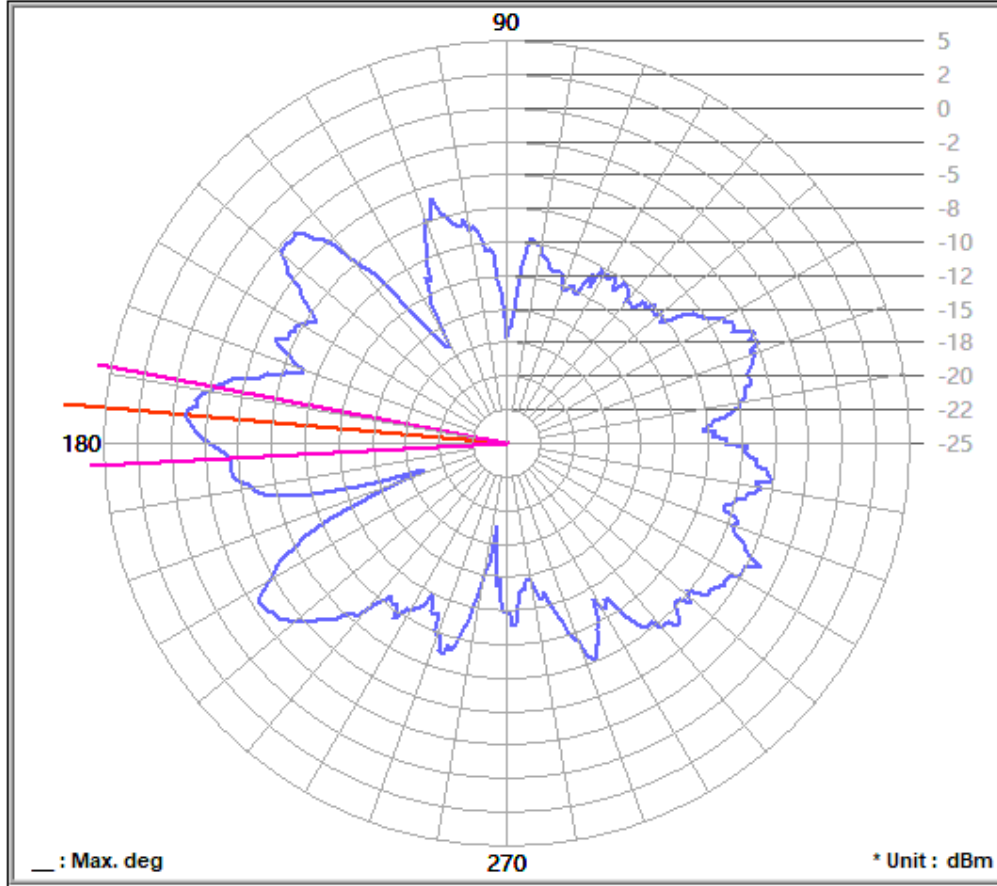


Frequency: 2480 MHz (Vertical)

Location : RF Chamber

Date: 2023/1/12

Time: 13:27:45



Frequency (MHz) : 2480.00

Polarity : Vertical

Average Gain (dB) : -7.39

Max. Gain (dB) : -0.93

Max. Gain (degree) : 175

Beamwidth Degree : 14

Mini. Gain (dB) : -18.79

Mini. Gain (degree) : 264

(at the 3 dB down)

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

