



Antenna datasheet

시험보고서 (TEST REPORT)

수신자(Recipient) The CEO of TNBTECH
(경유)

제 목 (Subject) 2.4 GHz PCB Antenna Performance Test(S221130-001)

시험 의뢰자 (Applicant)	기관(업)명 (Company)	TNBTECH Co., Ltd.	
	주소 (Address)	4F, 3F 92, Dongil-ro, Gwangjin-gu, Seoul, Republic of Korea	
	의뢰일/신청번호 (Date of Application)	2022. 11. 29. / S221130-001	
시험 정보 (Products)	품명/모델명 (Name/Model)	F Antenna / 2.4G ANT	
	일련번호 (Serial Number)	-	
	제조사 (Manufacturer)	TNBTECH Co., Ltd. / Korea Republic of.	
시험일 (Date of Test)		2022. 12. 06.	
시험 규격/방법 (Test Standard/Method)		ANSI/IEEE Std 149-1979 IEEE Standard Test Procedures for Antennas / Peak Gain, Radiation Pattern(2D/3D)	
시험 결과 (Test Results)		Refer to Page 3	
시험 담당자 (Tested by)		Kim Jae Wook	검토자 (Reviewed by) Kim Kyeong Sik

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정보통신산업진흥원장

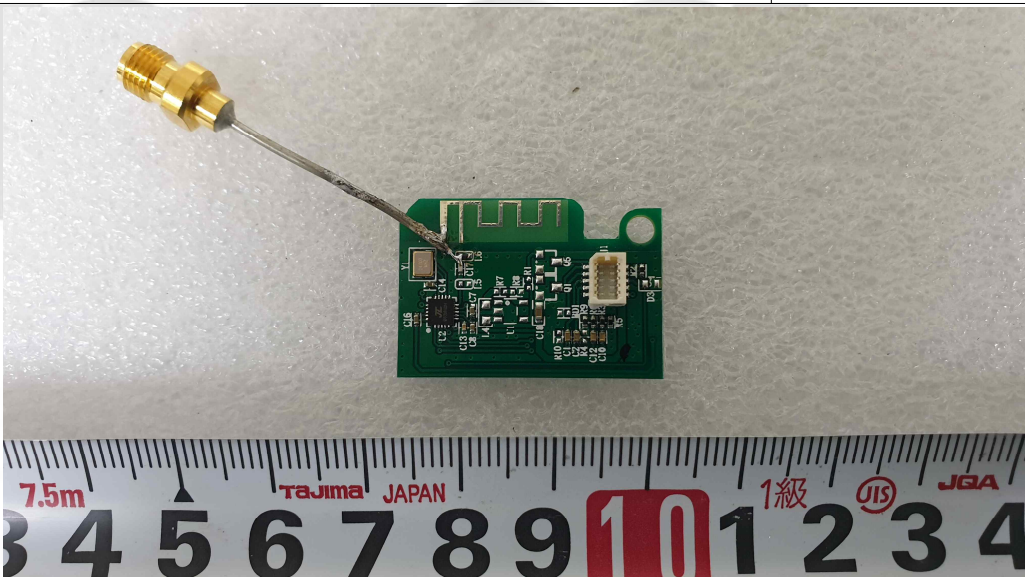


담당 김재욱 팀장 전결 12/06
김경식

협조자

시험 AIoT산업팀-6444 (2022.12.06.) 접수 ()
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전화 032-720-8125 /전송 032-720-8270 / jwkim0504@nipa.kr / 비공개(7)

1. DUT information

Items	Specifications	Remarks
Product name	F Antenna	
Model name	2.4G ANT	
Serial number	-	
Operating Frequency	(2.4 ~ 2.5) GHz	
VSWR	2.0 Less Than	Nominal Value
Antenna Gain	3.0 dBi More Than	
Polarization	Linear	
Size	(15.2 × 5.7) mm	
Photograph		

※ The above DUT information was provided by the applicant of the test.

2. Test information

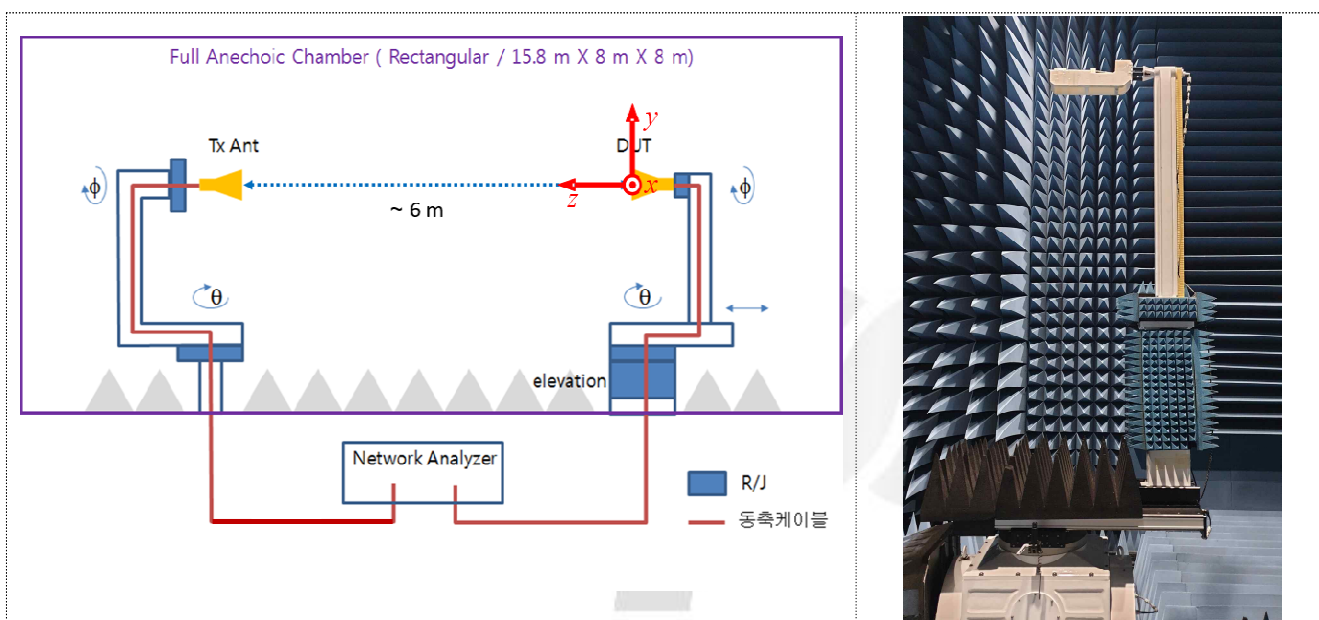
A. Equipments

No.	Equipments	Manufacturer	Model	S/N
1	ZNA Network Analyzer	ROHDE & SCHWARZ	ZNA26	101268
2	Quad-ridged Horn	MTG	QRH004060	-
3	Double Ridged Horn Antenna	Schwarzbeck Mess	BBHA 9120 LFA	253

B. Environment

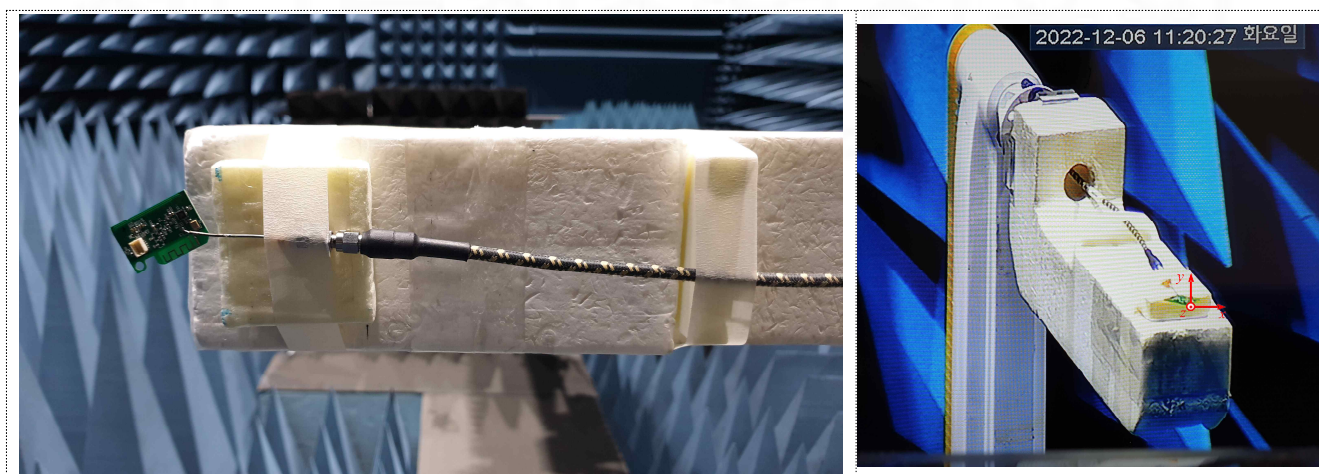
Date of test	Temperature	Humidity
2022. 12. 06.	$(23 \pm 1) ^\circ\text{C}$	$(48 \pm 3) \% \text{ R.H.}$

C. Configuration



< Test configuration >

< Test layout >



< DUT layout >

< Orientation >

D. Test method: Gain-Transfer Measurements

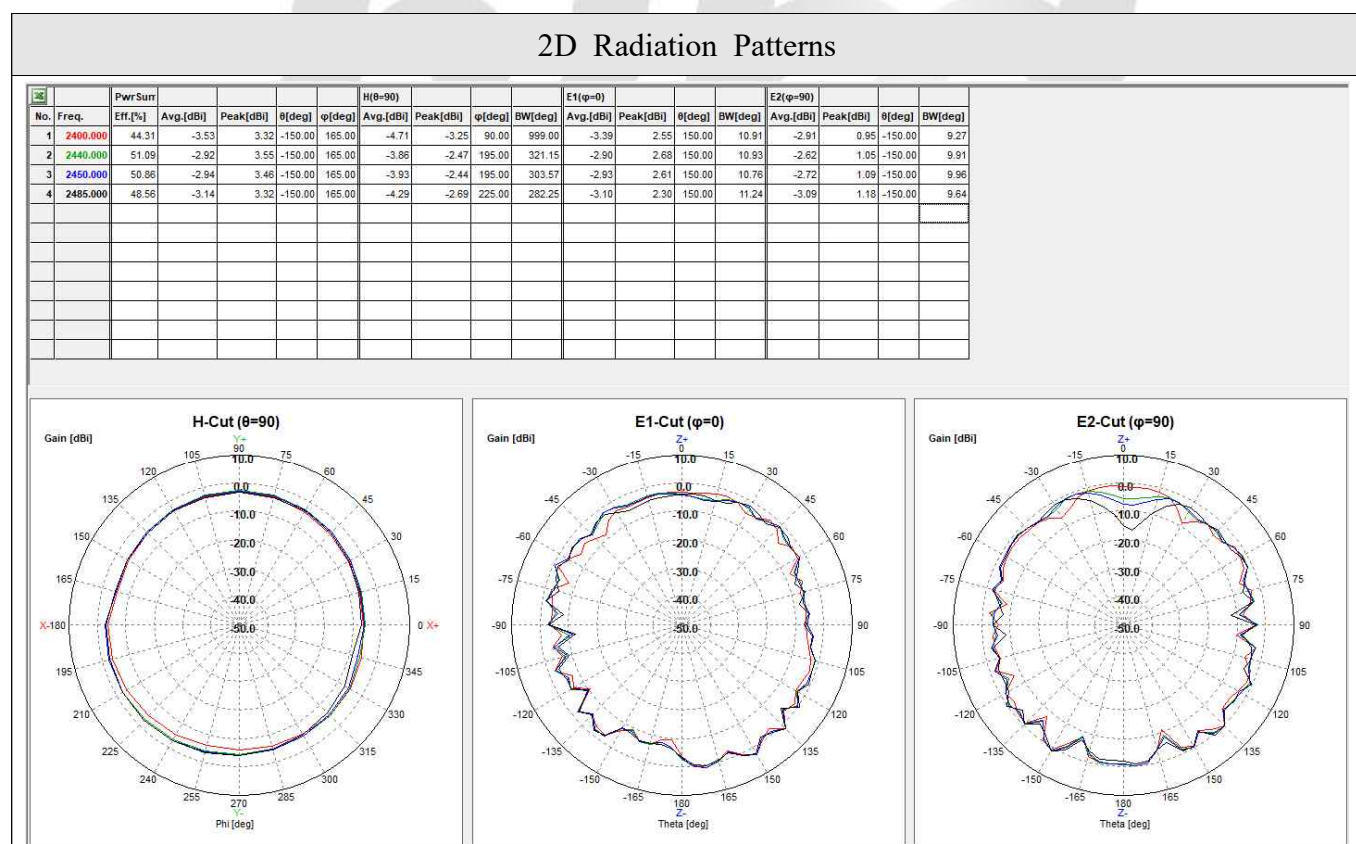
* Refer to the ANSI/IEEE Std 149-1979 IEEE Standard Test Procedures for Antennas

3. Test result

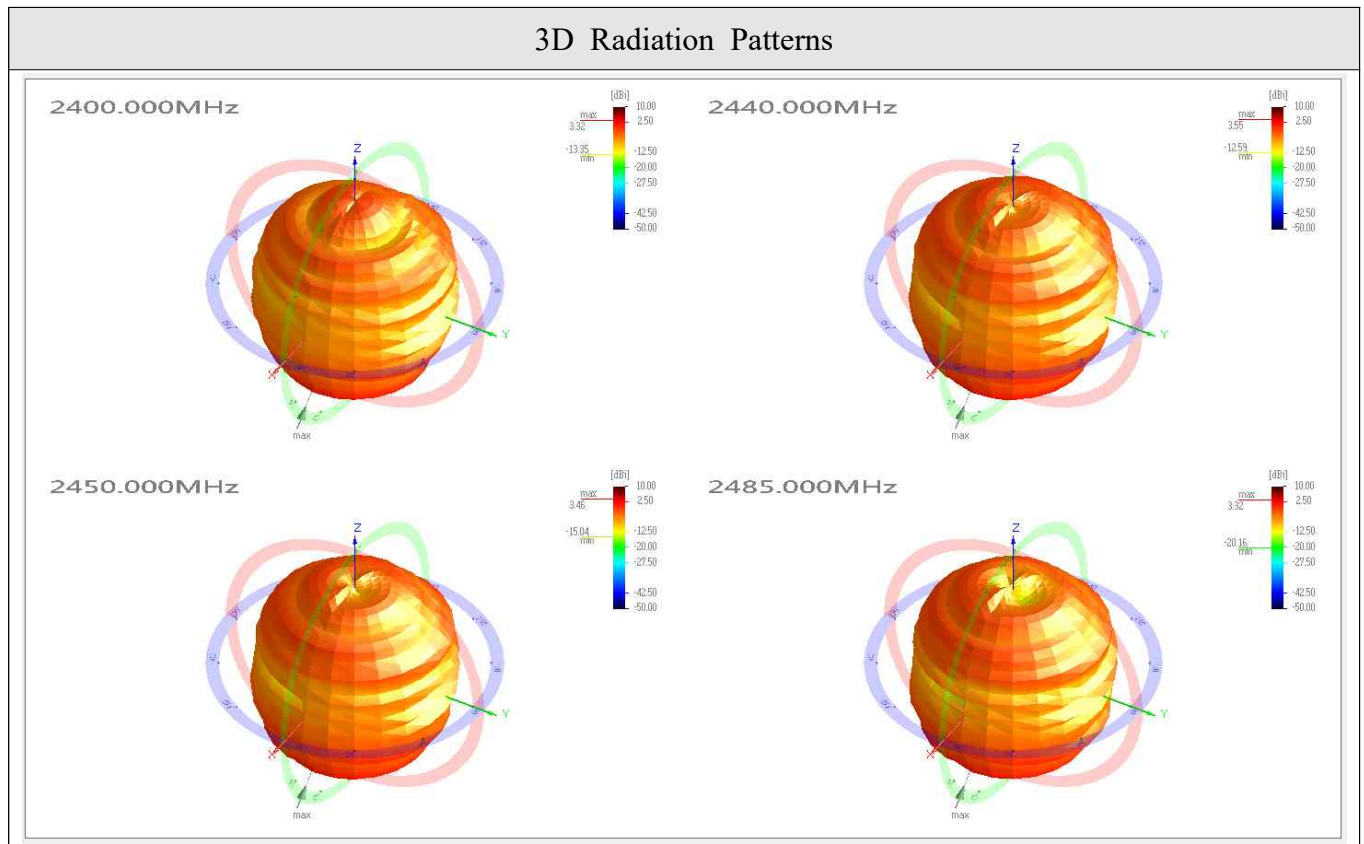
Frequency (GHz)	Peak Gain (dBi)
2.400	3.3
2.440	3.6
2.450	3.5
2.485	3.3

4. Test data

– 2D Radiation Patterns



- 3D Radiation Patterns



The end.