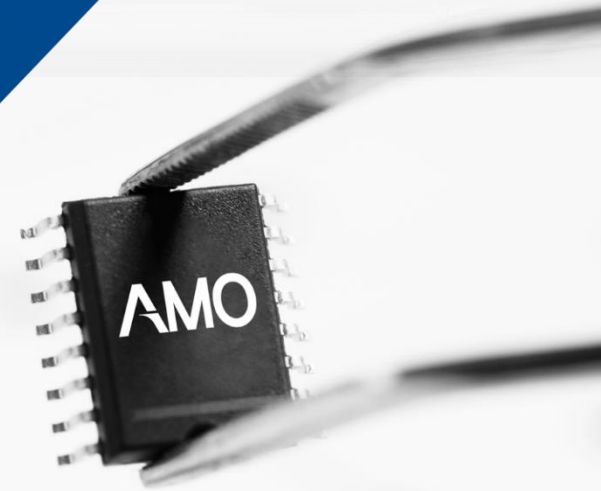


Antenna Specification

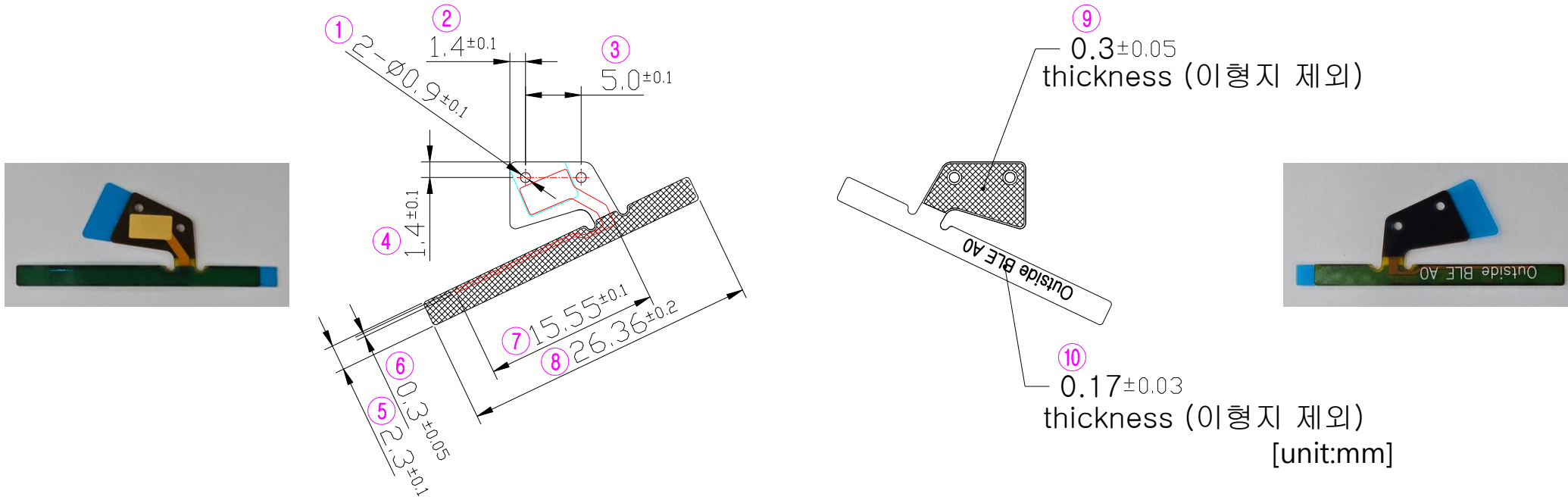
Customer	현대HT
Model	Smart doorlock outside
Application	BLE
Amotech P/N	AMO-FA-HT001

2026 .09 .07



Confidential

1. Mechanical specification

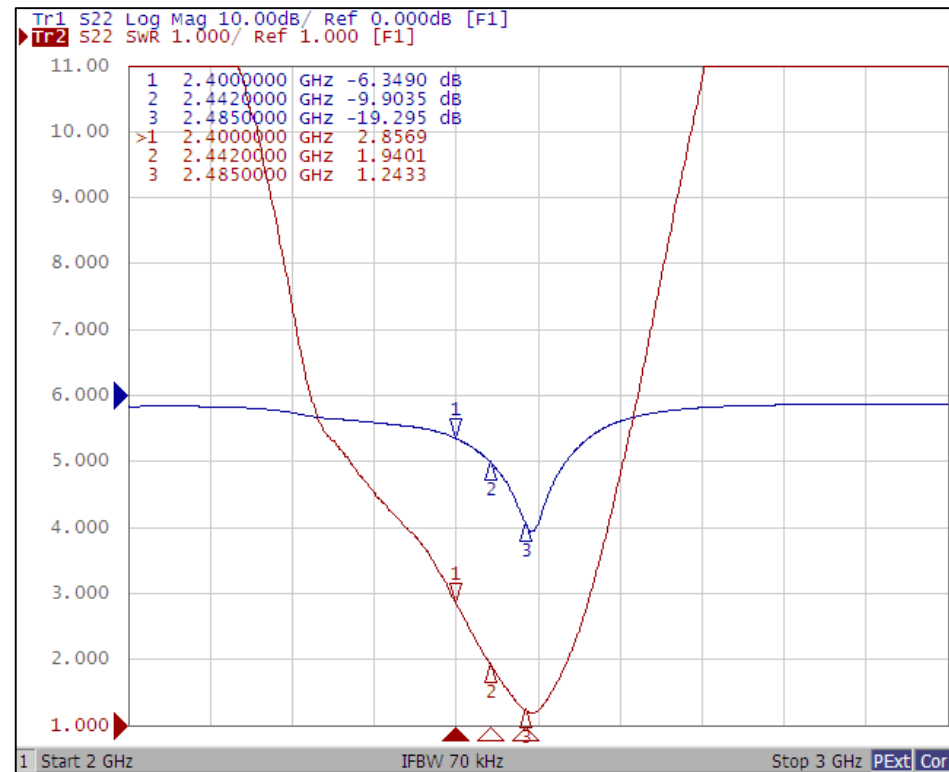


No	Item	Specification
1	Antenna Type	FPCB Type
2	Unit Weight	Typical 0.030g(이형지 제외)
3	Operating Temperature	-40 ~ +85 °C

CCL	Polyimide 1/2mil, Double-side,
Coverlay	Polyimide 1/2mil (Yellow)
Plating	Ni 3~8 μ m, Au Min. 0.05 μ m
Adhesive	100 μ m(기재 Type)
Liner	Paper or PET

2. Antenna Test result

- Measured Return-Loss & VSWR



2. Antenna Test result

- Passive Antenna gain Table :

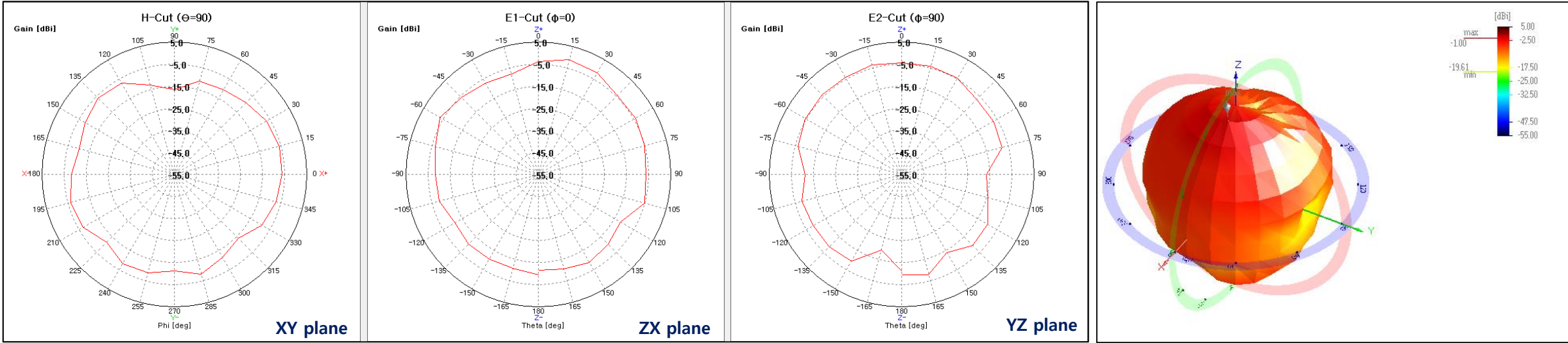
Frequency [MHz]	Efficiency [%]	Average gain [dBi]	Peak gain [dBi]
2400	17.75	-7.51	-1.47
2420	17.93	-7.46	-1.68
2442	20.77	-6.83	-1.00
2460	21.48	-6.68	-0.79
2485	22.89	-6.40	-1.09

Measurement results

Passive Antenna gain table

Frequency [MHz]	Efficiency [%]	Average gain [dBi]	Peak gain [dBi]
2400	17.75	-7.51	-1.47
2420	17.93	-7.46	-1.68
2442	20.77	-6.83	-1.00
2460	21.48	-6.68	-0.79
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Radiation pattern



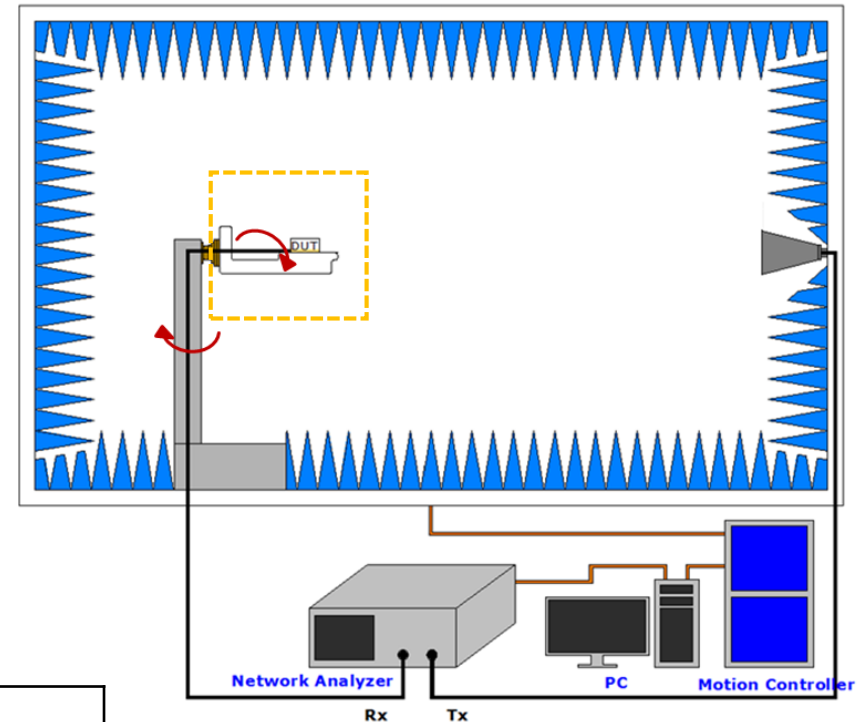
2D / 3D radiation pattern @2442MHz

3. Antenna Electrical Specification

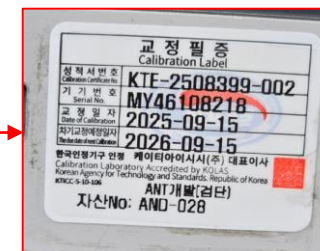
3-1. Test Site

AMOTECH Co.,Ltd.
57, Geomdan-ro, Geomdan-gu, Incheon, Republic of Korea

3-2. Test equipment



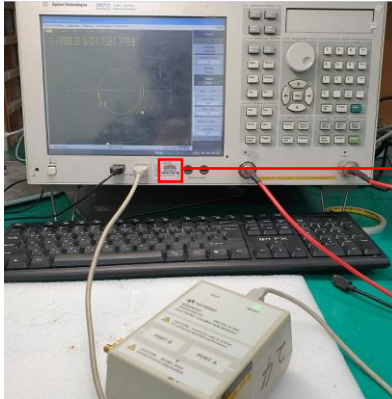
No	Equipment	Maker	MODEL
1	Anechoic Chamber	MTG	8*4*4 (Size)
2	Network Analyzer	KESIGHT	E5071C



- Date of Calibration : 2025-09-15
- The due date of next Calibration : 2026-09-15

3. Antenna Electrical Specification

3-3. Network Analyzer calibration



Ecal : Keysight 85093C



- Date of Calibration : 2025-09-15
- The due date of next Calibration : 2026-09-15

3-4. Test setup and photo

