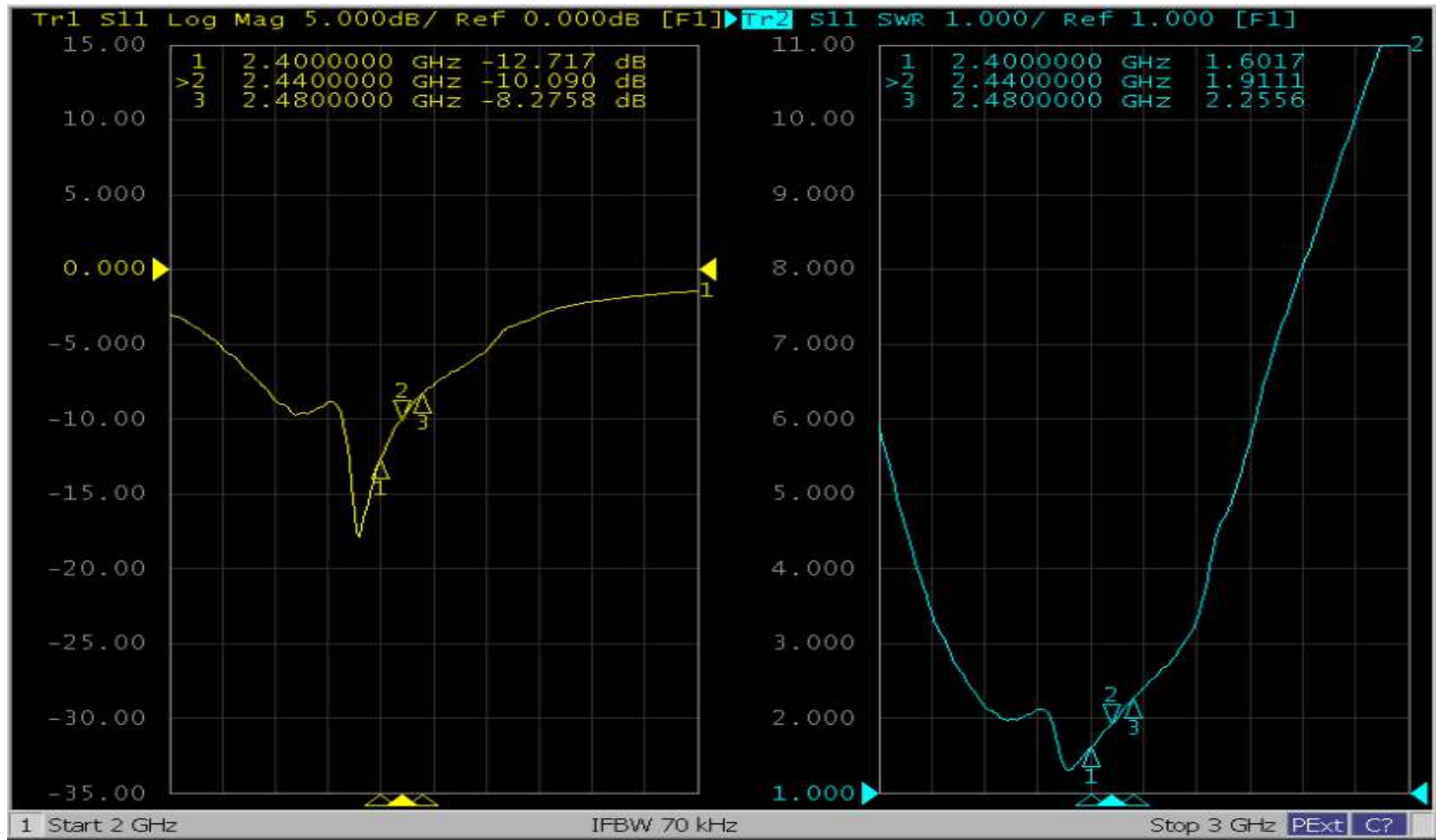




Chicony BT Antenna 【GCR 2407(Hyper X) dongle】 Project

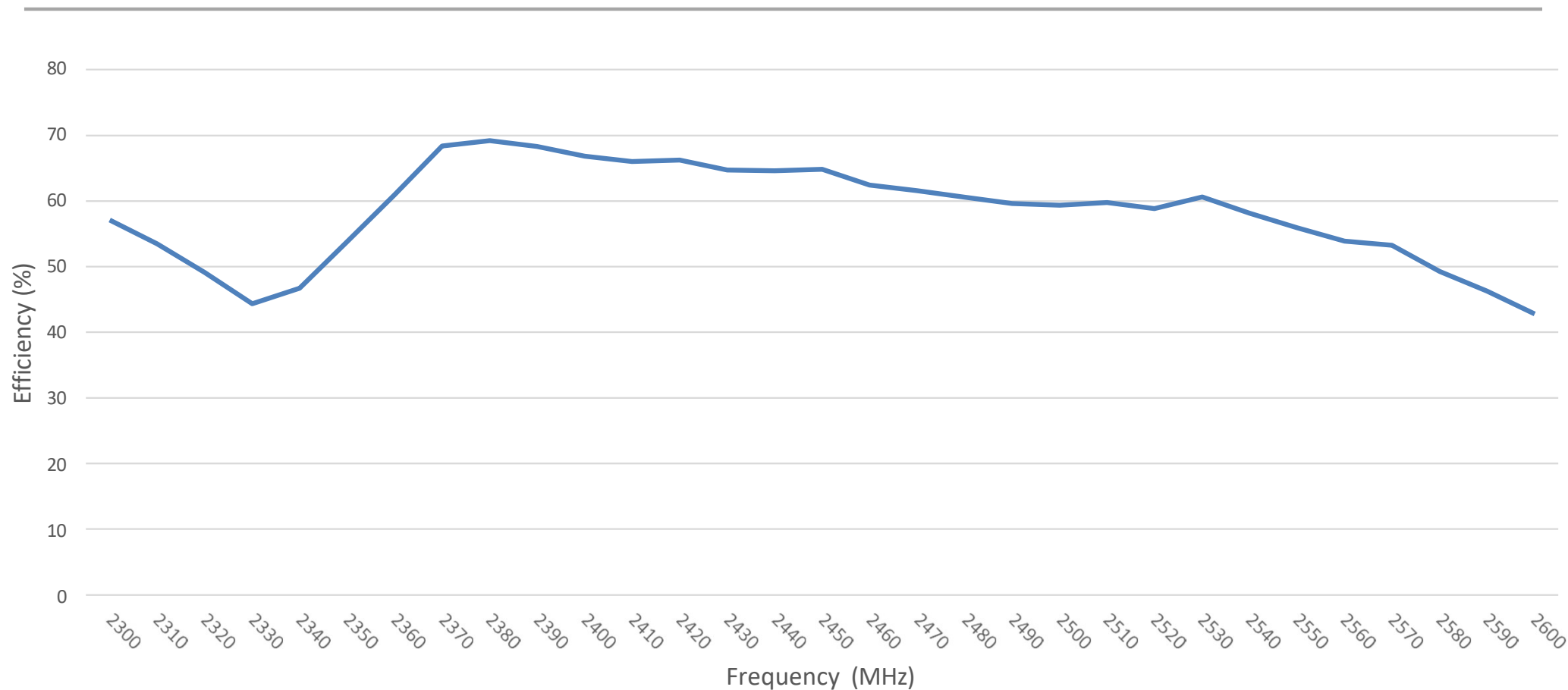
Date 2024/12/02
Author Nick

Antenna S11



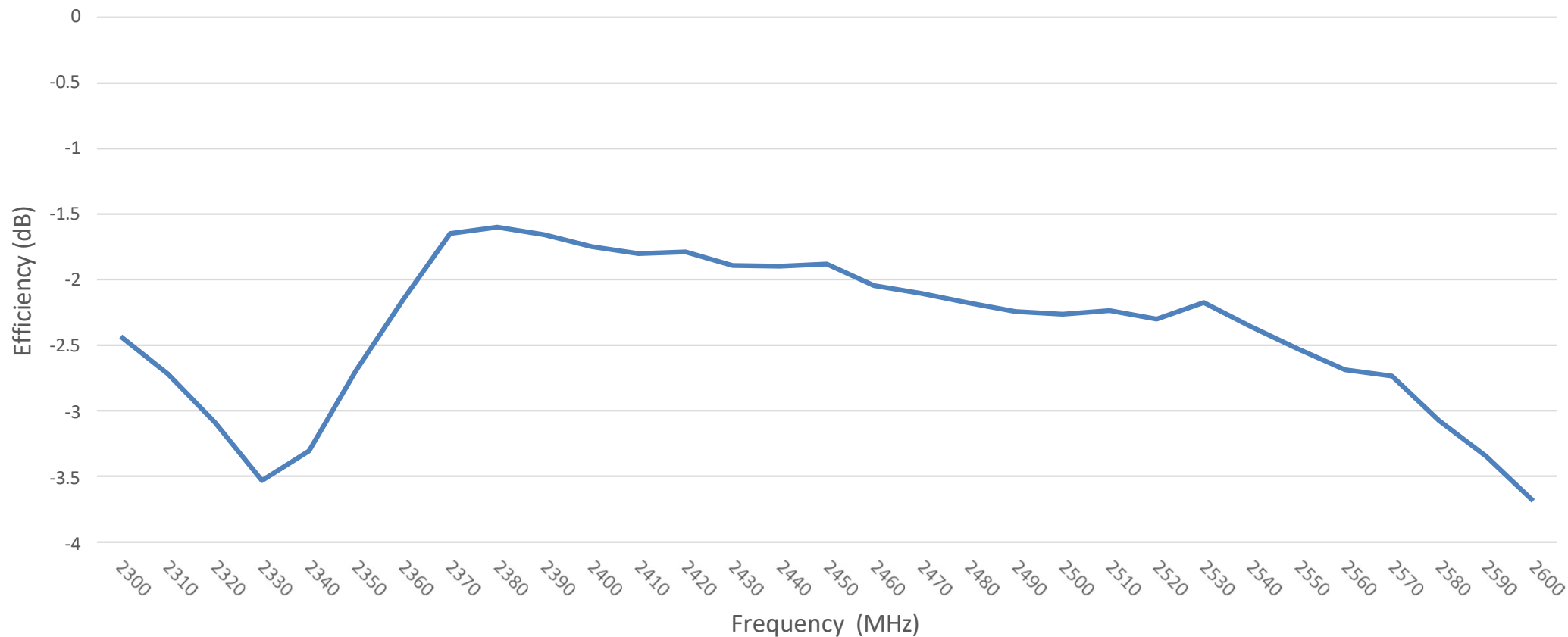
	2400 MHz	2440 MHz	2480 MHz
S11 (dB)	-12.71	-10.09	-8.27
VSWR	1.6	1.91	2.25

Antenna Efficiency



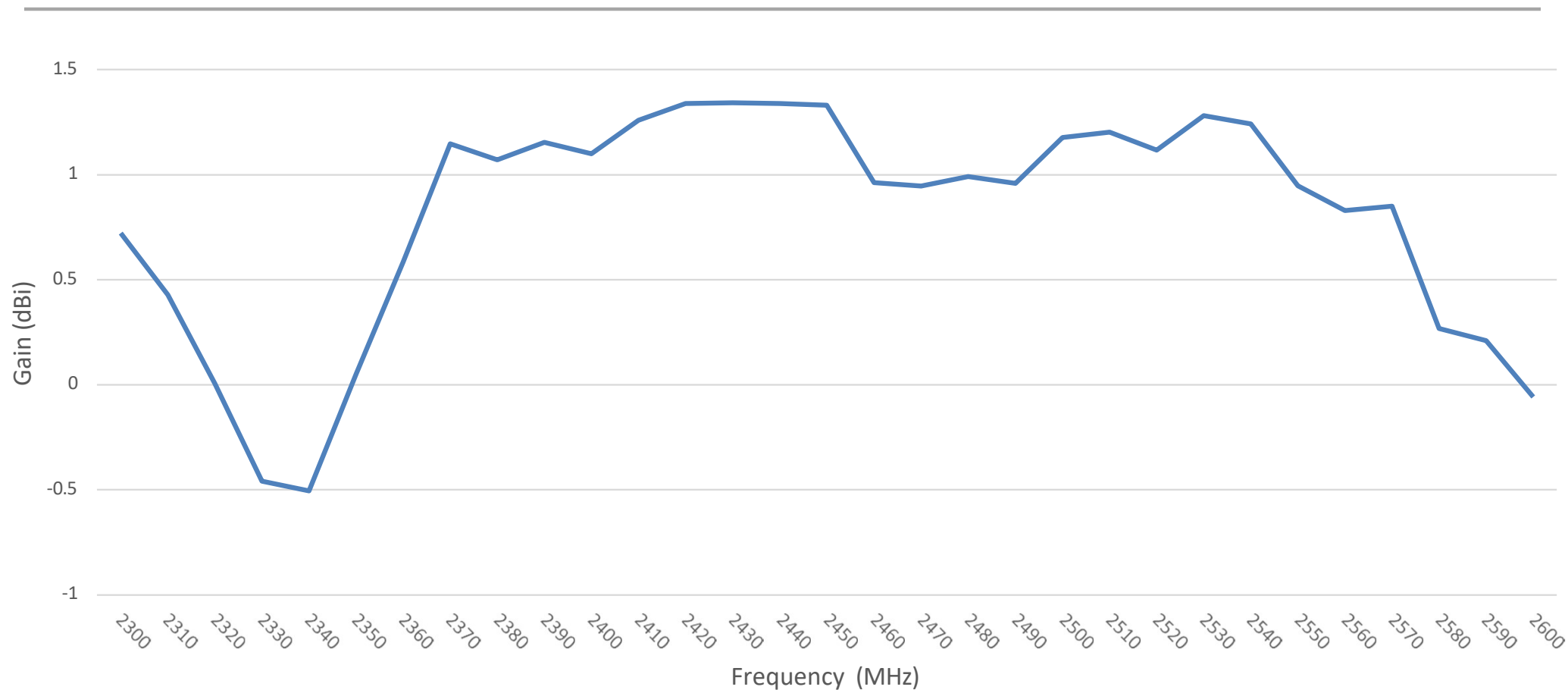
Frequency (MHz)	2400	2440	2480
Efficiency (%)	66.86	64.59	60.57

Antenna Average Gain



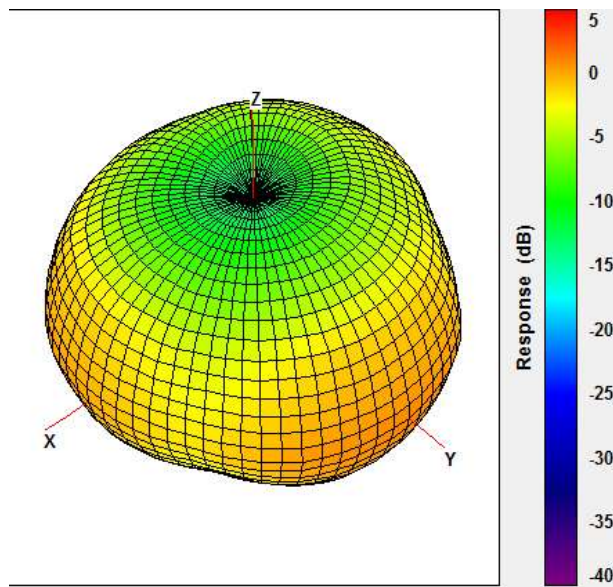
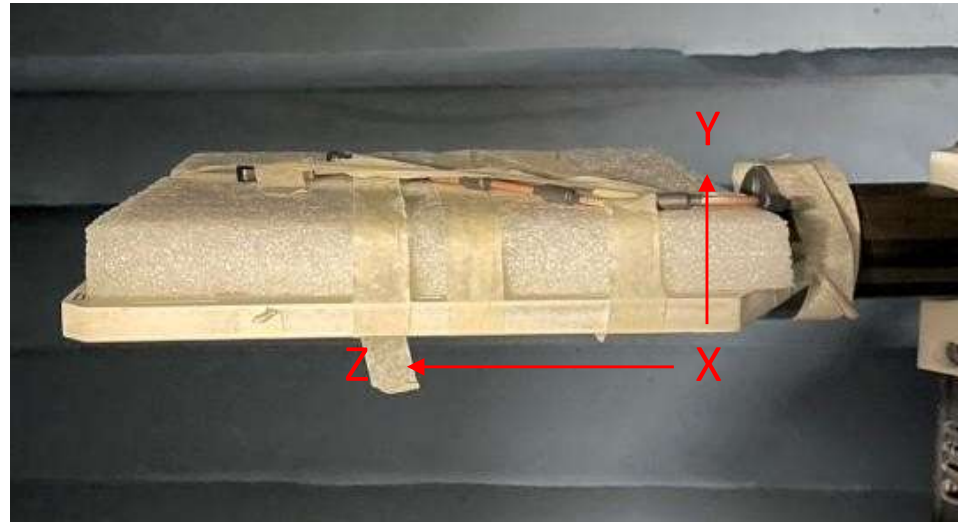
Frequency (MHz)	2400	2440	2480
Efficiency (dB)	-1.74	-1.89	-2.17

Antenna Peak Gain

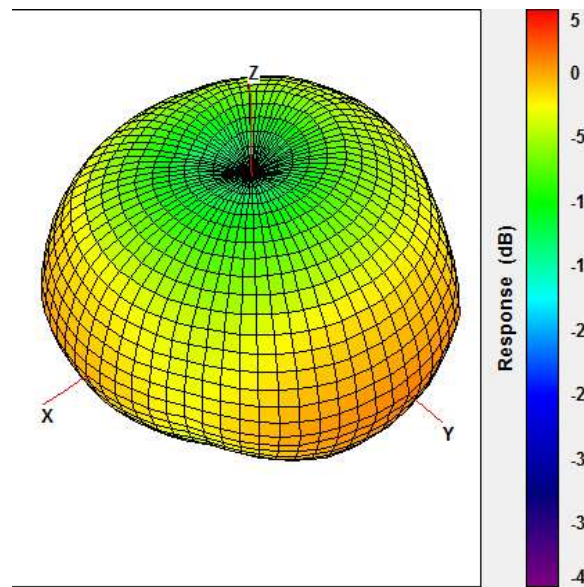


Frequency (MHz)	2400	2440	2480
Gain (dBi)	1.09	1.33	0.99

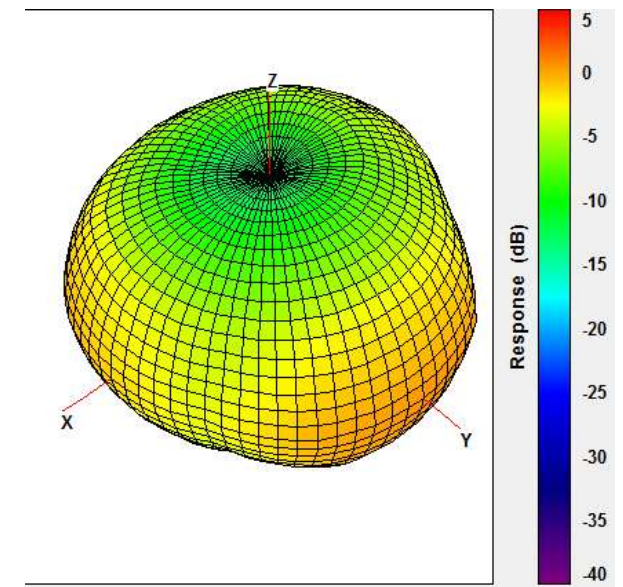
Antenna 3D Pattern



2400MHz

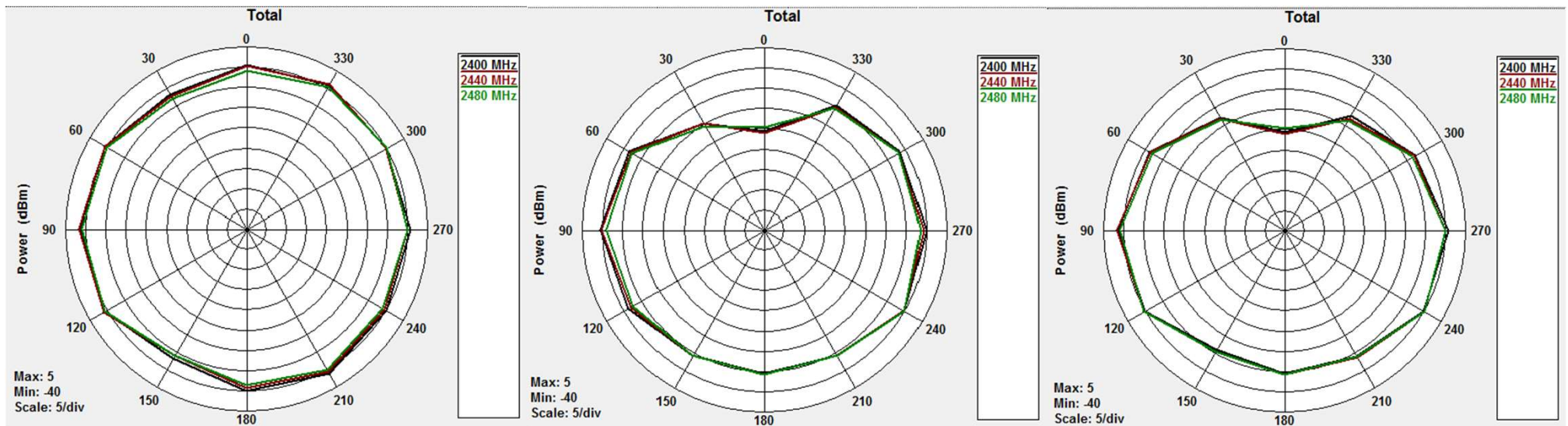
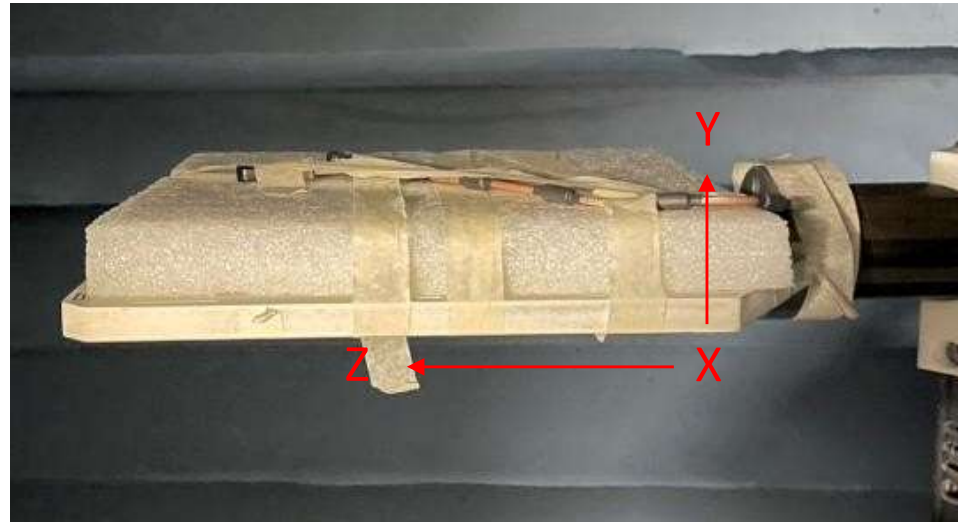


2440MHz



2480MHz

Antenna 2D Pattern



XY-Plane

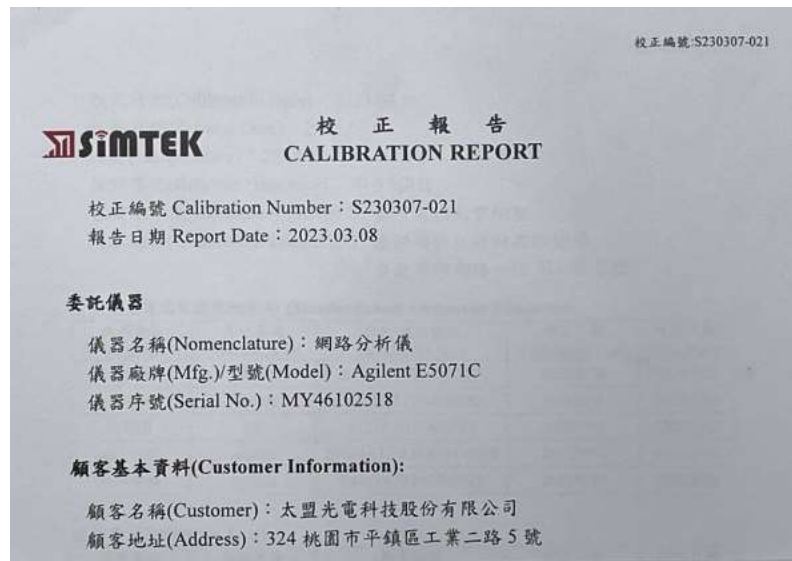
XZ-Plane

YZ-Plane

Summary

1. Adjust the antenna tuning based on the customer's provided prototype.
2. The antenna efficiency is approximately 60%~66%.
3. Other characteristics are as shown in the previous report for the customer's reference.

1. Antenna gain description
→As per the test report
2. Performance specifications
→As per the test report
3. Table of calibrated equipment
→



4. Tets data
→2024/12/02
5. Names of test personnel
→ Nick
6. Names of commercial test software being used
→ETS-Quest Analysis

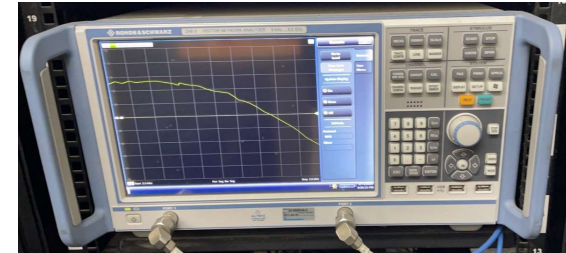
7. Test setup photos and



FSL-SPECATRUM



CMW-500



R&S ZNB8

8. Description of how measurements are made

→ Place the prototype on the test platform, position the test object at the center, and align it with the horn antenna. Use the ETS-Quest Analysis software to perform the measurements, and the computer will automatically calculate the results

9. Full electrical and mechanical specifications

→ est Volume : 60 cm diameter

Quiet Zone Performance Amplitude: taper less than 1dB, ripple maximum +/- 0.5 dB

Quiet Zone Performance Phase: taper less than 5 degrees, ripple maximum +/- 5.0 degrees

Overall Dimensions (Nominal LxWxH): 15 ft x 9 ft x 8 ft (4.6 m x 2.7 m x 2.4 m)

Shielded Door Dimensions (Nominal): 4 ft x 7 ft (1.2 m x 2.1 m)

Max DUT Weight: 50 kg (110 lbs.)

Passive antenna measurements from 600MHz to 8500MHz

10. Configuration and RF Chains as applicable →

