



## **Unlicensed Band Antenna Gain**

**Model: SM-X848U**

**FCC ID: A3LSMX848U**

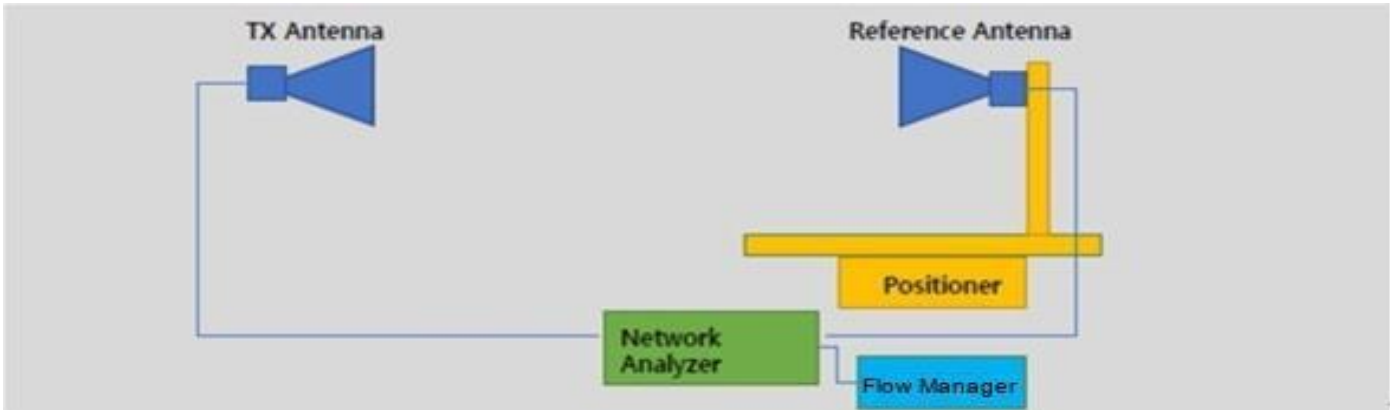
BT/WIFI#1\_2.4/5/6GHz

| Freq. [Hz]       | Peak. [dBi] |
|------------------|-------------|
| 2,400,000,000 Hz | -5.6 dBi    |
| 2,451,000,000 Hz | -5.7 dBi    |
| 2,473,000,000 Hz | -6.0 dBi    |
| 2,480,000,000 Hz | -5.9 dBi    |
| 5,150,000,000 Hz | -8.0 dBi    |
| 5,350,000,000 Hz | -8.9 dBi    |
| 5,500,000,000 Hz | -7.5 dBi    |
| 5,700,000,000 Hz | -7.6 dBi    |
| 5,795,000,000 Hz | -8.2 dBi    |
| 5,815,000,000 Hz | -8.7 dBi    |
| 5,825,000,000 Hz | -8.7 dBi    |
| 5,850,000,000 Hz | -8.7 dBi    |
| 5,885,000,000 Hz | -8.4 dBi    |
| 5,925,000,000 Hz | -7.5 dBi    |
| 6,225,000,000 Hz | -7.1 dBi    |
| 6,525,000,000 Hz | -7.1dBi     |
| 6,825,000,000 Hz | -7.2 dBi    |
| 7,125,000,000 Hz | -7.7 dBi    |

BT/WIFI#2\_2.4/5/6GHz

| Freq. [Hz]       | Peak. [dBi] |
|------------------|-------------|
| 2,400,000,000 Hz | -5.8 dBi    |
| 2,451,000,000 Hz | -5.9 dBi    |
| 2,473,000,000 Hz | -6.8 dBi    |
| 2,480,000,000 Hz | -6.8 dBi    |
| 5,150,000,000 Hz | -7.7 dBi    |
| 5,350,000,000 Hz | -6.1 dBi    |
| 5,500,000,000 Hz | -5.6 dBi    |
| 5,700,000,000 Hz | -5.6 dBi    |
| 5,795,000,000 Hz | -6.0 dBi    |
| 5,815,000,000 Hz | -6.4 dBi    |
| 5,825,000,000 Hz | -6.6 dBi    |
| 5,850,000,000 Hz | -6.8 dBi    |
| 5,885,000,000 Hz | -7.3 dBi    |
| 5,925,000,000 Hz | -6.5 dBi    |
| 6,225,000,000 Hz | -6.0 dBi    |
| 6,525,000,000 Hz | -7.4dBi     |
| 6,825,000,000 Hz | -8.0 dBi    |
| 7,125,000,000 Hz | -8.1 dBi    |

Table of calibrated equipment



| Part                 | Model Name              | Specification      |                                                                                           |
|----------------------|-------------------------|--------------------|-------------------------------------------------------------------------------------------|
| Tx Antenna           | Cube Antenna            | 650 MHz to 8.0 GHz | Calibrated date : 2026.4.14 Cal. Due : 2026.10.13                                         |
| Reference Antenna    | Discone C               | 650 MHz to 3.5 GHz | Calibrated date : 2026.4.14 Cal. Due : 2026.10.13                                         |
|                      | Discone D               | 2 GHz to 8.0 GHz   | Calibration Frequency(680MHzto 6GHz)<br>Calibrated date: 2026.4.14 Cal. Due : 2026.10.13  |
| Network Analyzer     | Rohde & Schwarz<br>ZNB8 | 9 KHz to 8.5 GHz   | Calibration Frequency(2GHz to 8.5GHz) Calibrated<br>date: 2026.4.14 Cal. Due : 2026.10.13 |
| Measurement Software | FLOW Manager            |                    | FLOW Manager(Ver:1.12.0)                                                                  |

Test dates

2026.06.16

Names of test personnel

Kwanseok Lee 미관석

Names of commercial test software being used

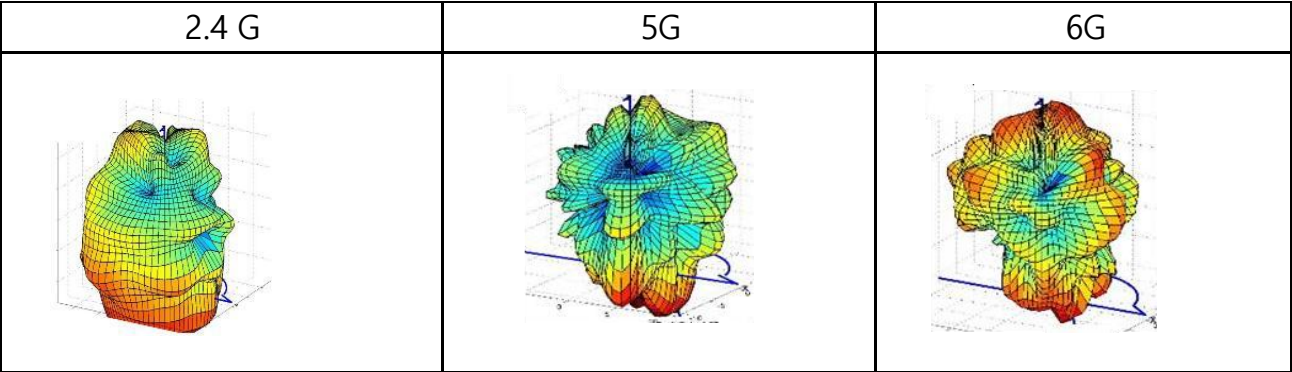
MTG Visual Wave-Mobile (Ver.2.1)

Test setup photos

The antenna gain report test setup photos includes pictures of the measurement setup.

Radiation plots for max gain plane (3D)

WIFI1



WIFI2

