

Antenna Test Report

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|----------------------------|----------------------------|
| RD Number | SSP-220119-03 |
| Joymax P/N | IHF-2120MPX9-W018 |
| Project Name | |
| Customer's P/N | |
| Product Description | BT Antenna |
| Frequency Range | 2400~2483.5MHz |
| Released Date | August 31, 2022 |
| Created by | Nick Qiu |
| Reviewed by | Matt Xie, Sara Chen |

1. Return Loss/ VSWR

1.



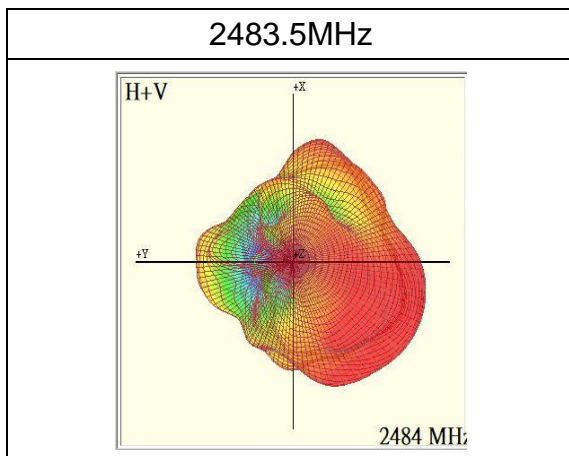
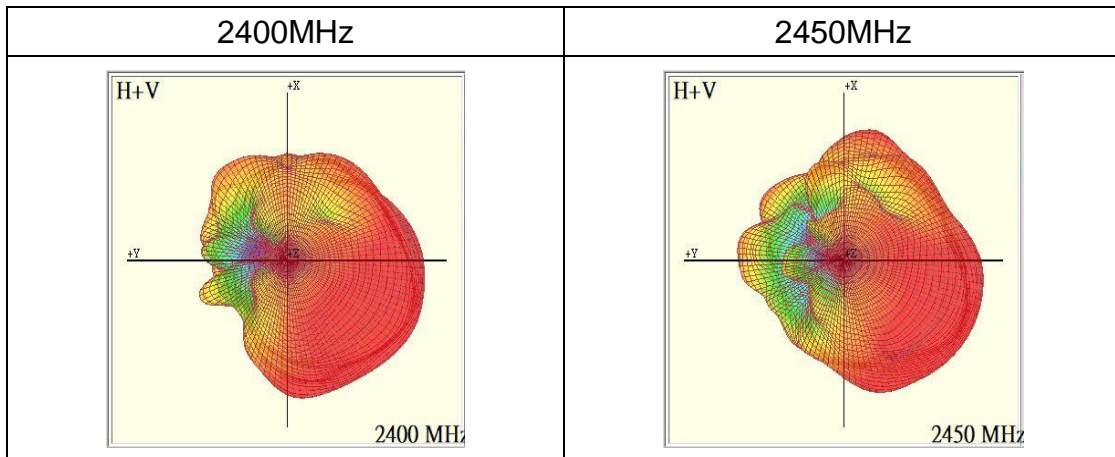
1.1 Test Configuration

| | | |
|-------------------------|---|--------------------------------|
| | Test-cable type : Semi-rigid | Test Cable length(mm) : 400 |
| Adapter: SMA to I-PEX | Test table : N/A | Test table size(mm) : N/A |
| Test Distance(mm) : 400 | Location of Antenna: place in the middle of Styrofoam place | |

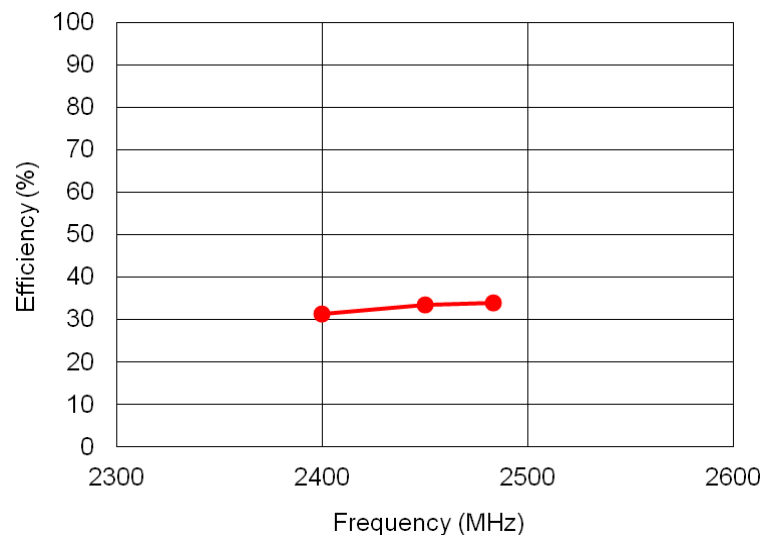
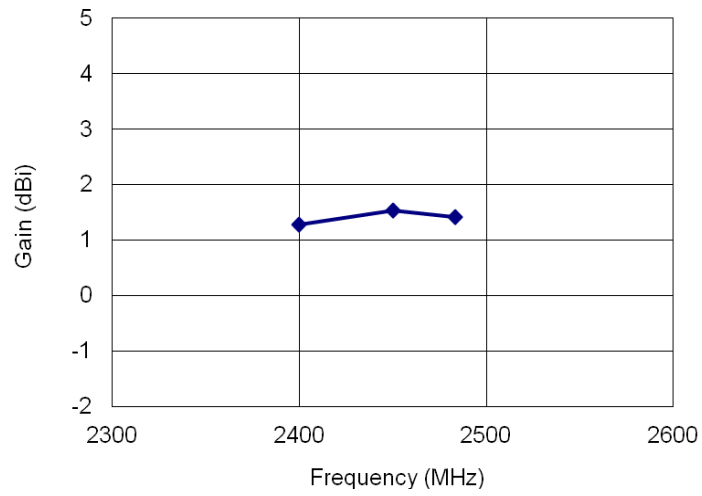
2. 2D Radiation Pattern(With ground)

2-1. Test Configuration

2-2. 3D Radiation Pattern(With ground)



3. Efficiency and Gain



| | | | |
|-----------------|-------|-------|--------|
| Frequency (MHz) | 2400 | 2450 | 2483.5 |
| Gain (dBi)- | 1.28 | 1.53 | 1.42 |
| Efficiency (%) | 31.26 | 33.42 | 33.89 |