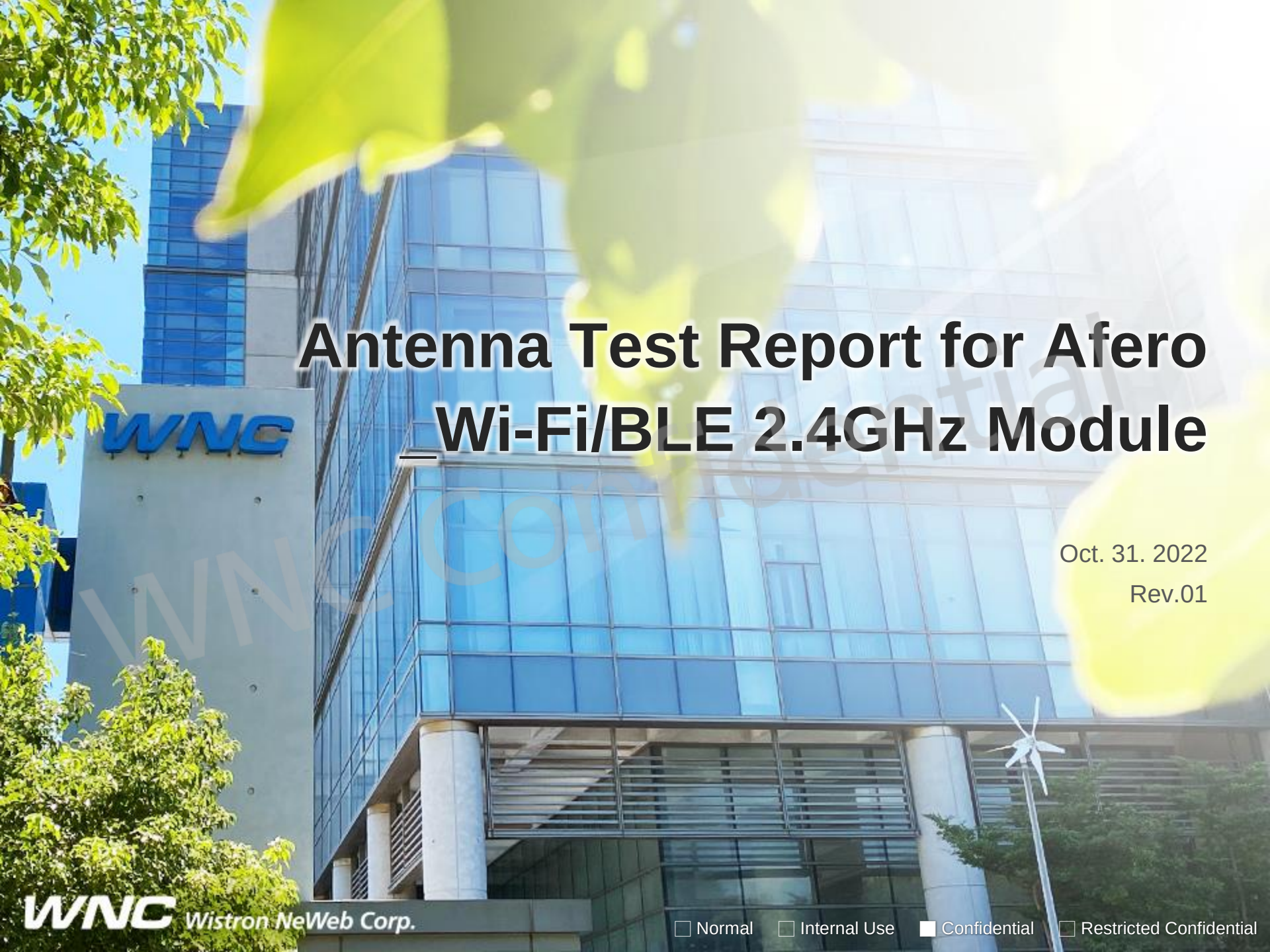


# Antenna Test Report for Afero _Wi-Fi/BLE 2.4GHz Module

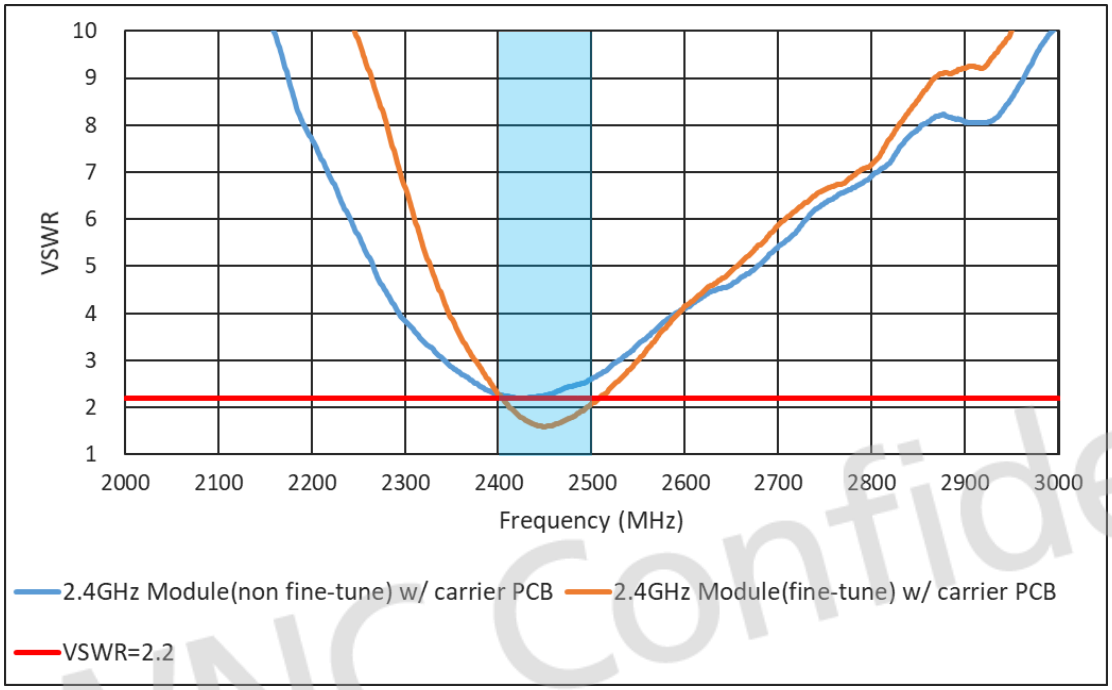
Oct. 31. 2022

Rev.01

# 2.4GHz Module w/ carrier PCB

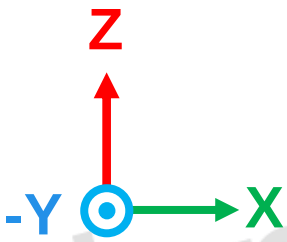
- ***VSWR***
  - *Under 2.6 for 2.4GHz Module(non fine-tune) w/ carrier PCB*
  - *Under 2.2 for 2.4GHz Module(fine-tune) w/ carrier PCB*
- ***Average radiation efficiency***
  - *55.9% for 2.4GHz Module(non fine-tune) w/ carrier PCB*
  - *57.4% for 2.4GHz Module(fine-tune) w/ carrier PCB*
- ***Peak gain***
  - *Max 1.2dBi for 2.4GHz Module(non fine-tune) w/ carrier PCB*
  - *Max 1.3dBi for 2.4GHz Module(fine-tune) w/ carrier PCB*

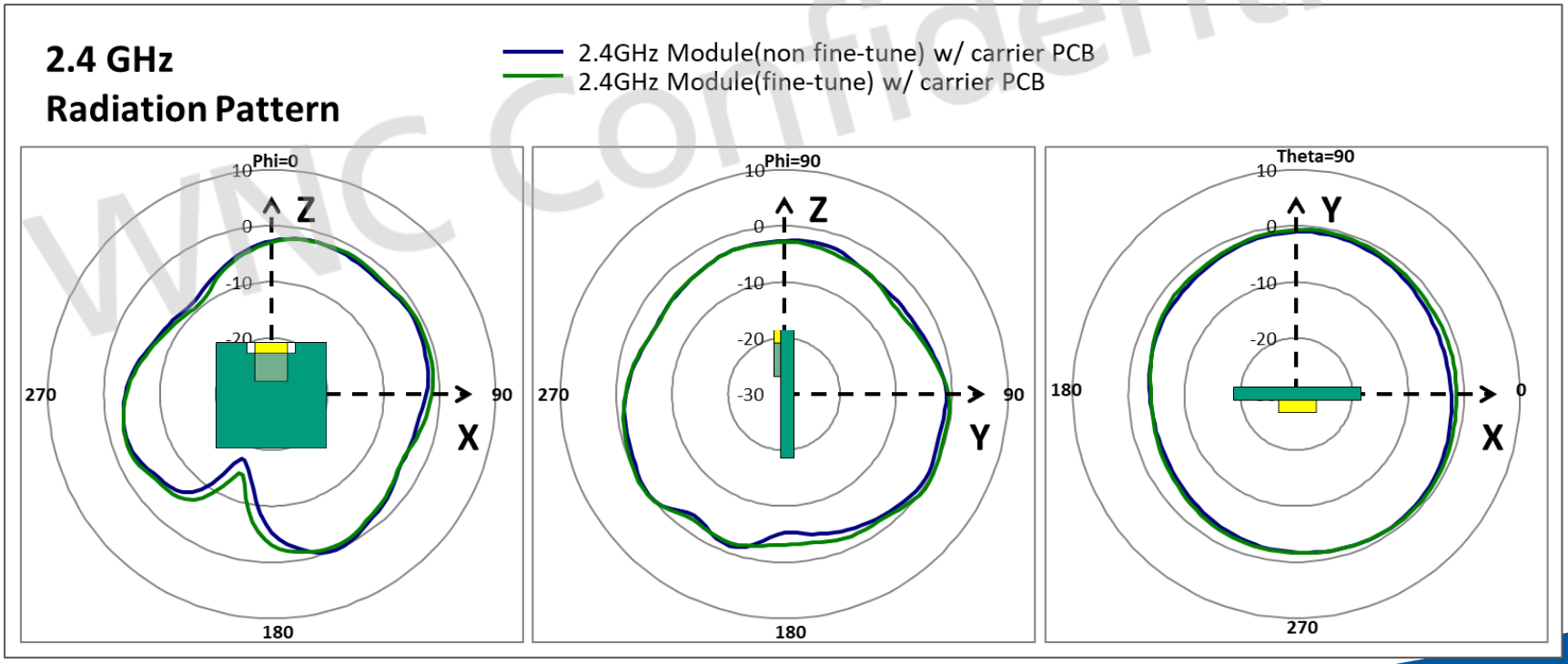
# VSWR




| 2.4GHz Module(non fine-tune) | 2400 | 2450 | 2500 | avg. |
|---|---|---|---|---|
| Eff. | 56.0% | 58.0% | 53.7% | 55.9% |
| Eff. dB | -2.52 | -2.36 | -2.70 | |
| Peak Gain | 0.95 | 1.28 | 1.01 | |
| **2.4GHz Module(fine-tune)** | **2400** | **2450** | **2500** | **avg.** |
| Eff. | 52.5% | 62.1% | 57.5% | 57.4% |
| Eff. dB | -2.80 | -2.07 | -2.40 | |
| Peak Gain | 0.47 | 1.37 | 1.10 | |

# Radiation Pattern for Wi-Fi/BLE 2.4GHz

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