

SCRN-610-77 Radio Overview and Indoor/Outdoor coverage heat maps:

Location of STA permit:

Physical Address:

5940 Optical Way

Fort Worth

Tx 76244

GPS Coordinates:

North 32 deg 54 min 25 sec

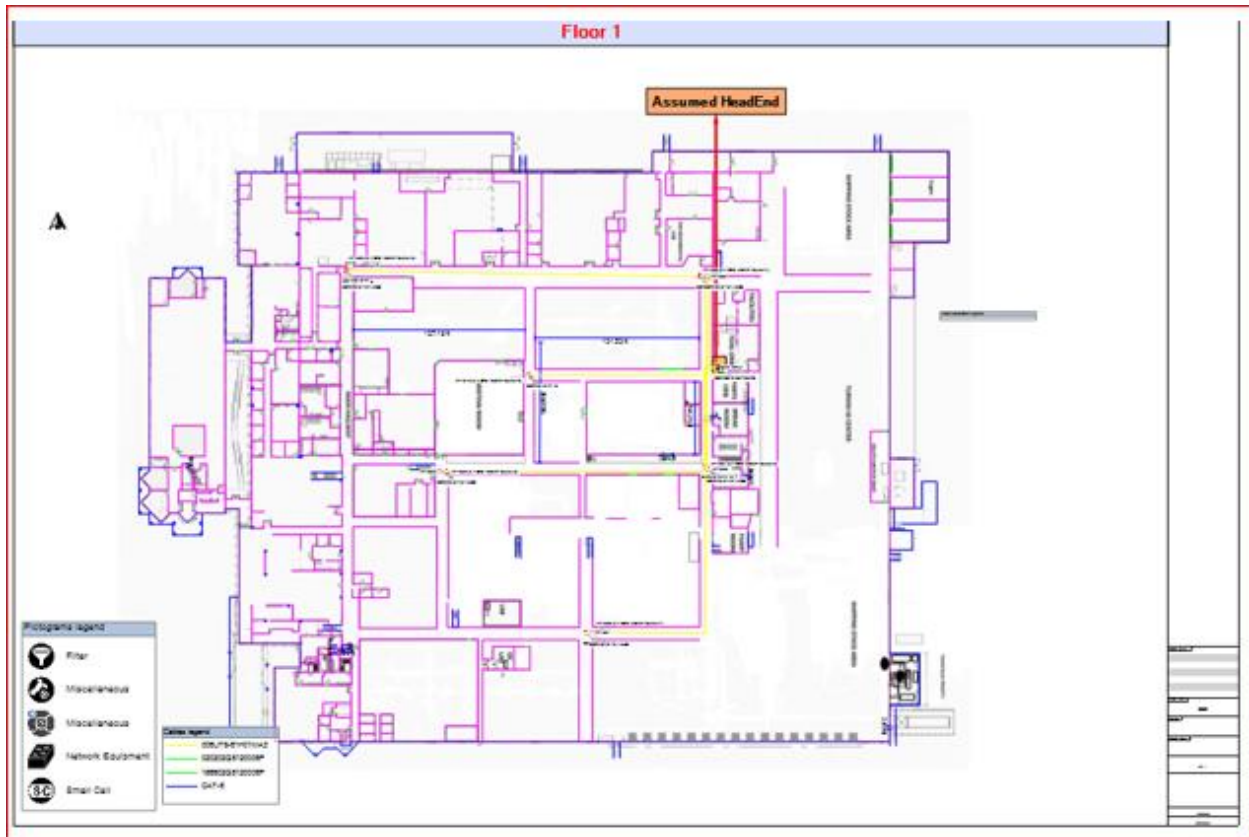
West 97 deg 15 min 31 sec

Coverage area:

254,640 sq.ft



Office location

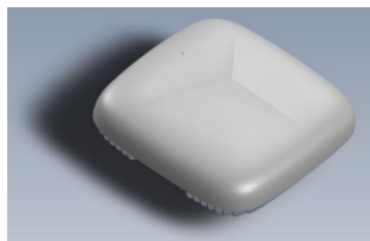


NR FR1 SCRN-610-77 Specification

SPECIFICATIONS

Features:

- Frequency: n77 (3.70 – 3.98 GHz)
- O-RAN compliant FH 10Gbps fiber
- MIMO
 - 4T4R mode: 1CC operation on band n77 (3.70 – 3.98 GHz)
 - Total OBW and IBW: 100 MHz each
- Max Tx Power: 24 dBm per RF output (30dBm total)
- Antenna Gain: 5 dBi
- Corning ActiFi® Composite Fiber interface
- Form factor: 11" x 11" x 3.28"
- Operating Temperature: 0 °C to 45 °C
- Mounting: Wall and Ceiling indoors only



SCRN-610-77

Antenna Configuration & Measurements Environment

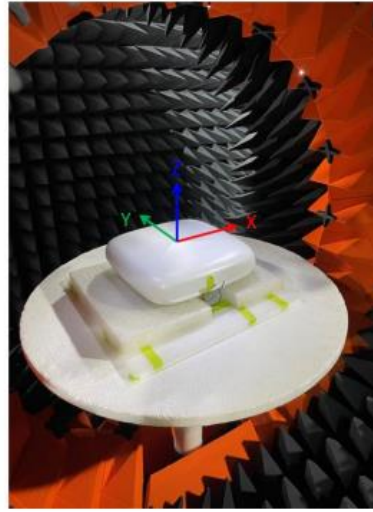
24dBm TX power
+ 5dBi gain



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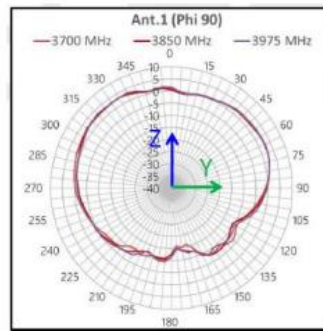
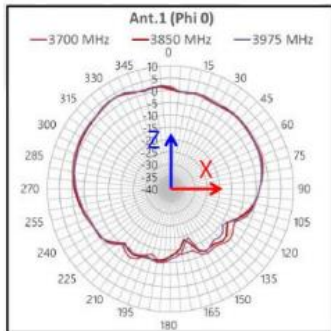
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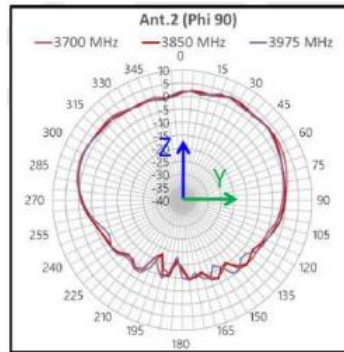
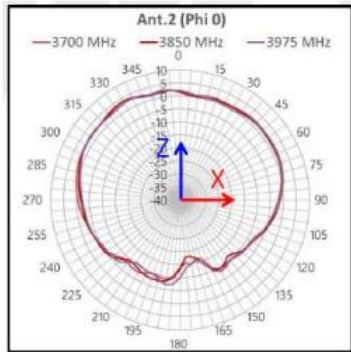
- Omni directional patterns out of each antenna element with different polarization
- All 4 will transmit at same time
- Expected to cover 7k-10k sq. ft per radio with minimal leakage outdoors

Radiation Pattern – A1



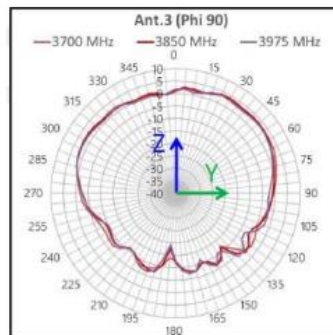
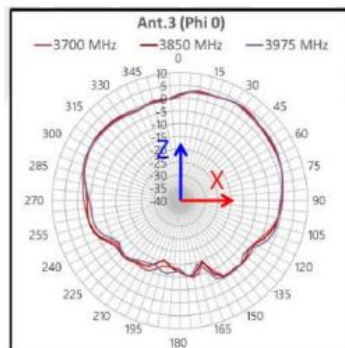
- Both elevation section (Phi 0° /Phi 90°) demonstrate without any null happen on the +z direction
- Pattern can handle both wall/ceiling mount

Radiation Pattern – A2



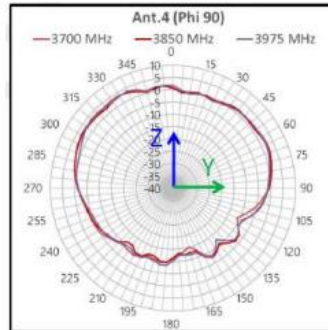
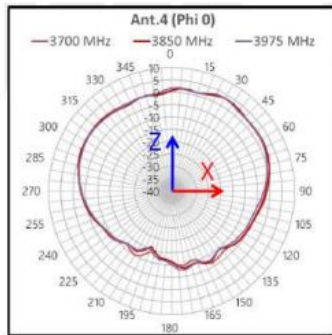
- Both elevation section (Phi 0° /Phi 90°) demonstrate without any null happen on the +z direction
- Pattern can handle both wall/ceiling mount

Radiation Pattern – A3



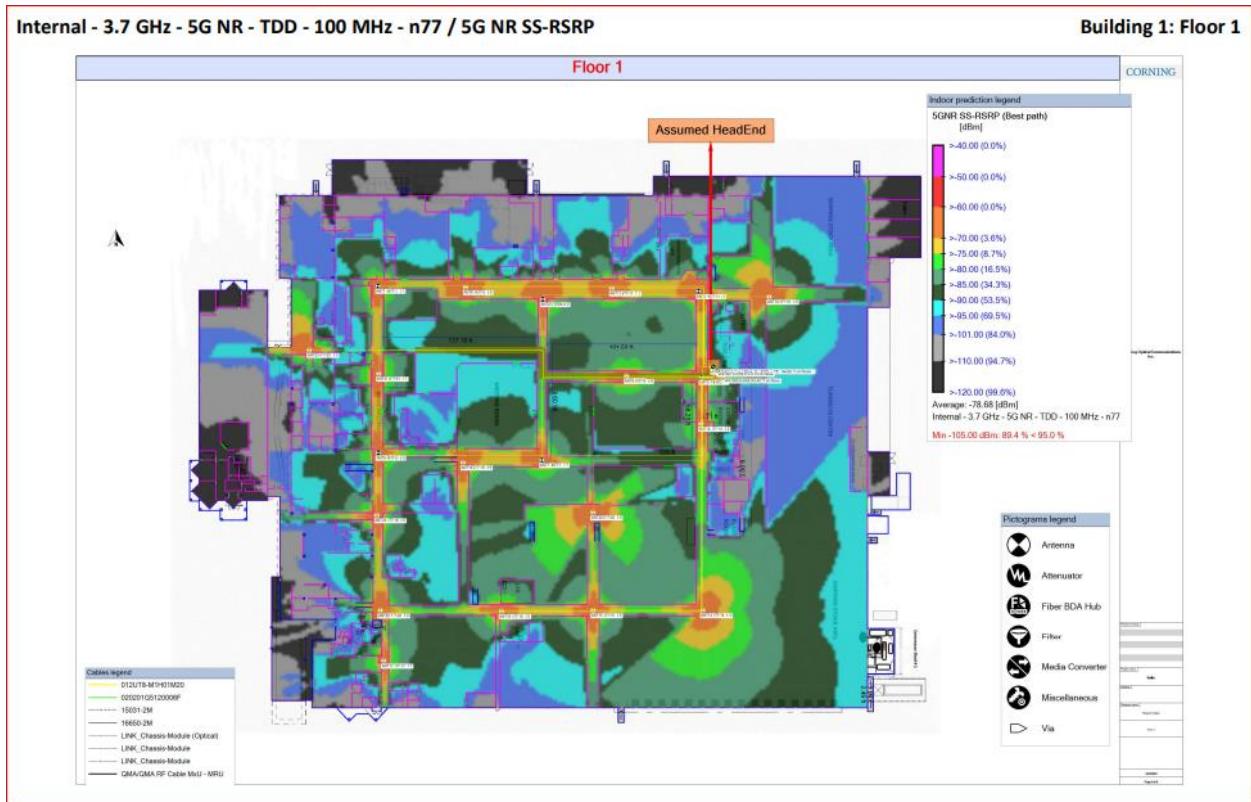
- Both elevation section (Phi 0° /Phi 90°) demonstrate without any null happen on the +z direction
- Pattern can handle both wall/ceiling mount

Radiation Pattern – A4



- Both elevation section (Phi 0° /Phi 90°) demonstrate without any null happen on the +z direction
- Pattern can handle both wall/ceiling mount

Expected Indoor coverage:



Expected outdoor leakage at 100 feet from building:

