

Manpack Antenna Specification

1. Model Name : OW7MP
2. Antenna Manufacturer : Intellian Technologies, Inc.
3. performance specifications

Item	specifications
Polarization	RX: RHCP, TX: LHCP
Frequency	RX: 10.7~12.7GHz TX: 14~14.5GHz
Gain	RX: 46.5dBi (@11.7GHz) TX: 50.3dBi (@14.25GHz)

4. calibrated equipment
Network Analyzer : Keysight PNA Network Analyzer N5224B
Standard Horn Antenna : NSI Standard gain horn ANT-SGA-10-15-ABS
Chamber Model Name Wavepro RCR-180 :
5. names of test personnel :
Blake Andrews & Kyu Han
6. test software : AMS measurement



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7. test setup photos

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8. description of how measurements are made.

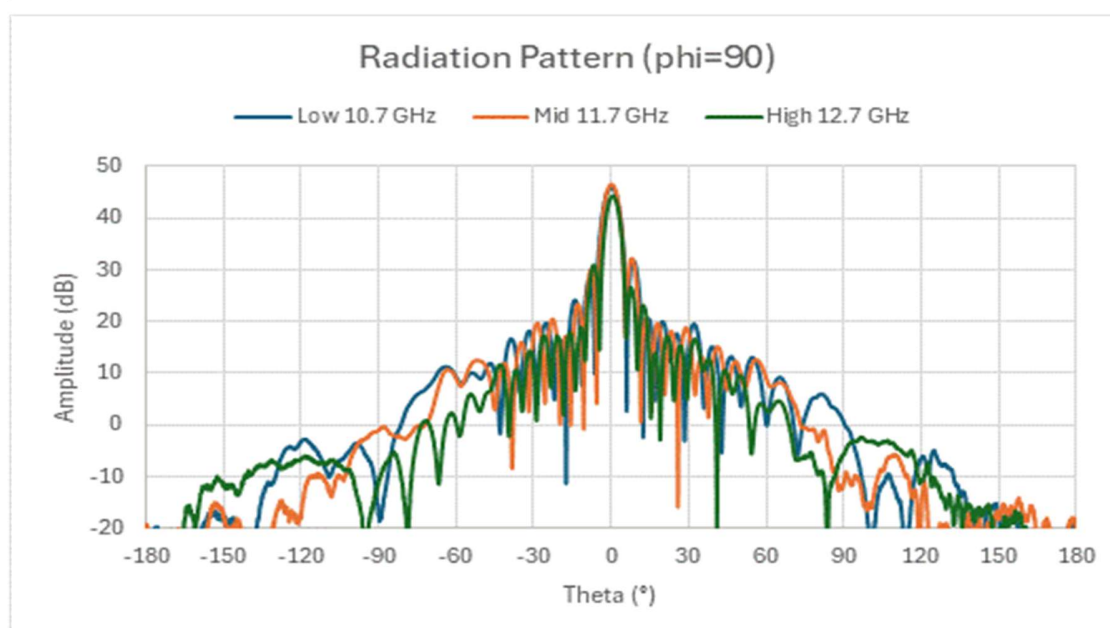
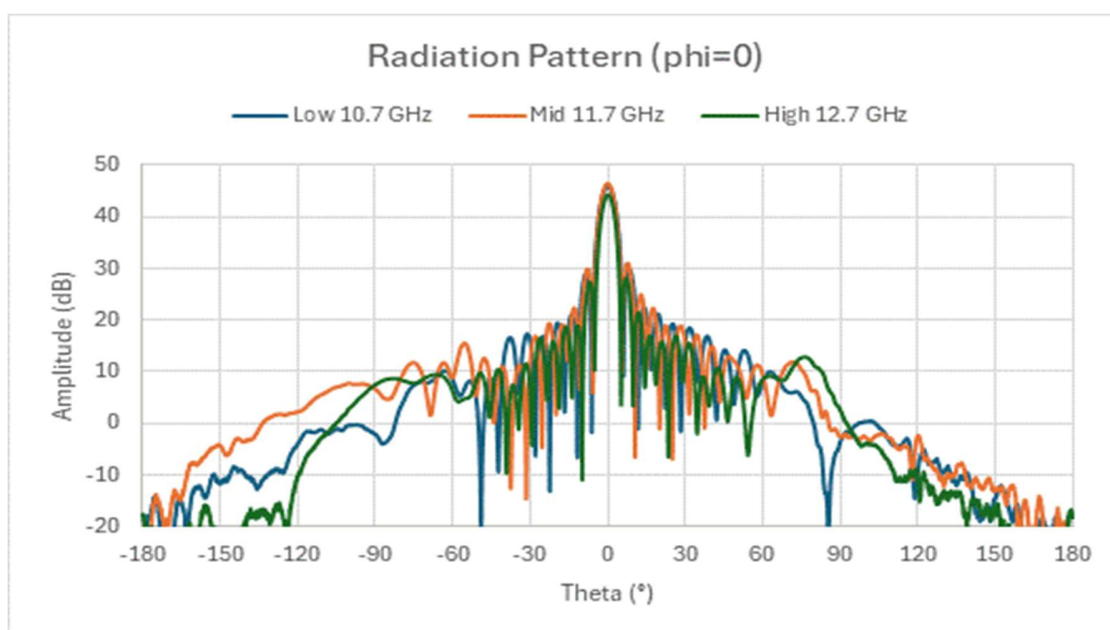
In the antenna test chamber, we measure the AUT gain using the gain-transfer (substitution) method with a calibrated standard gain horn (SGH). First, we record the received power with the SGH at the same test geometry and polarization; then we replace the SGH with the AUT and repeat the measurement. The AUT gain is computed by comparing the two received powers and adding the known SGH gain, with all cable/path losses and chamber corrections applied.

9. RX Test Data

A. Gain

Frequency [GHz]	Gain [dBi]
10.7	46
11.7	46.5
12.7	44.2

B. Radiation Pattern



10. TX Test Data

A. Gain

Frequency [GHz]	Gain [dBi]
14	50.5
14.25	50.4
14.5	50.4

B. Radiation Pattern

