

(a) Width of beam in degrees at the half-power point:

Different types of monopole, dipole and loop antennas, oriented in horizontal and vertical planes will be employed with directivity's of up to 5 dBi

Half power beamwidths of up to 120 degrees for directivities above 2 dBi. Hemispherical coverage for directivities of less than 2 dBi. However the antenna is rotated in the horizontal plane for characterization by a separated receive only antenna.

(b) Orientation in horizontal plane:

360 degrees in horizontal plane (as noted above, the antenna is rotated in the horizontal plane for characterization by a separated receive only antenna)

(c) Orientation in vertical plane:

360 degree Hemispherical coverage in vertical plane for characterization by a separated receive only antenna.

Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?

The antenna is mounted on an existing building. The 2 meter antenna extends 10 feet above the building. Total height above the building is: $(0.305 \text{ m/ft} * 10 \text{ ft}) + 2 \text{ m} = 5.05 \text{ meters}$

(a) Overall height above ground to tip of antenna in meters:

Bottom of a 2m antenna mounted 10 feet above a 50 foot building. Total height above ground to the tip of the antenna is $0.305\text{m/ft}*(60\text{ft})+2\text{m} = 20.3 \text{ meters}$

(b) Elevation of ground at antenna site above mean sea level in meters:

Antenna site elevation is 21 to 25 meters above mean sea level