

Transmit Antennas

Antenna 1 (for 1.5 – 30 MHz only):

Type: Omni Directional Monopole
Manufacturer: Force 12 Inc. Model # SIGMA-40XK
Gain: 1dB
Omni-directional
Polarization: vertical and horizontal

Antenna 2 (for 1.5 – 30 MHz only):

Type: Modular Directional Dipole
Manufacturer Shakespeare Co.
Model# 120-20 75391 A.T. (ANT ELEMENT TIP)
120-2 75361 A.T. (ANT ELEMENT 2ND MOBILE),
120-34 75431 A.T. (ANT ELEMENT 3RD MOBILE),
120-8 75371 A.T. (ANT ELEMENT 4TH MOBILE),
120-14 75381 A.T. (ANT EXTENSION SECTION)
Type: Dipole
Gain: 3 dB
Half Power beam Width: 150 deg when horizontal; omni-directional when oriented vertically
Polarization: vertical and horizontal

Antenna 3 (for frequencies 30MHz – 2025 MHz):

Type: Log Periodic
Manufacturer: Sunol Sciences Corporation
Model #: LPA JB1-UN or equivalent
Gain: 8 dB
Half Power beam Width: 45 deg at 2000MHz; 60-80 deg at 30MHz.
Orientation in the Horizontal Plane: 216 deg True North
Orientation in the Vertical Plane: -10 deg referenced to horizon
Polarization: vertical and horizontal

Test Area Geometry Sketch

All elements at rooftop level (~50 ft)

