



Unlicensed Band Antenna Gain Test Setup Photos

Model: SM-S731B/DS, SM-S731B

FCC ID: A3LSMS731B

- **Return Loss & VSWR Test**

The VSWR measurement of antennas assembled into a fully operating SM-S731B phone handset is measured on the Network Analyzer. The handset is set up with a 50 Ohm coaxial cable connected to the 50 Ohm point. Calibration is done at the end of the 50 Ohm coaxial cable connection. The other end of the 50 Ohm coaxial cable is connected to a network analyzer. The handset is positioned on a non-conductive table for free space measurements.



- **Radiation Pattern Test**

Antennas tested for Gain and Efficiency must be assembled into the enclosure and tested in the fully assembled and operating SM-S731B handset. The antenna is tested in free space in the anechoic chamber in the H, E1 and, E2 planes. The radiation patterns are measured at the center of transmit and receive bands.

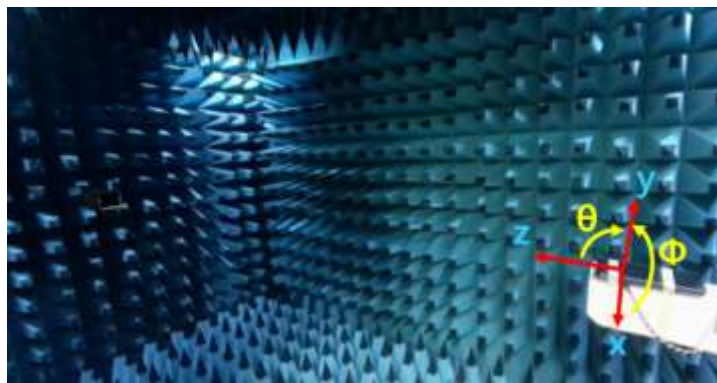


Figure 1: Test Setup photo