8 Antenna Information

The RTX3481 contains a total of 3 antennas.

The WMTS uses two 1.4 GHz antennas in order to facilitate antenna diversity.   The last antenna is an 2.4 GHz antenna for the   BTLE

8.1 WTMS antennas

The two WMTS antennas are metal antennas mounted on the PCB. They have similarities with an Inverted F structure. The have an intended even antenna pattern into the front of AP.   The antenna polarization for the two antennas are mainly vertical. During operation the AP will from slot to slot choose the best antenna to used based on the measured signal strength.

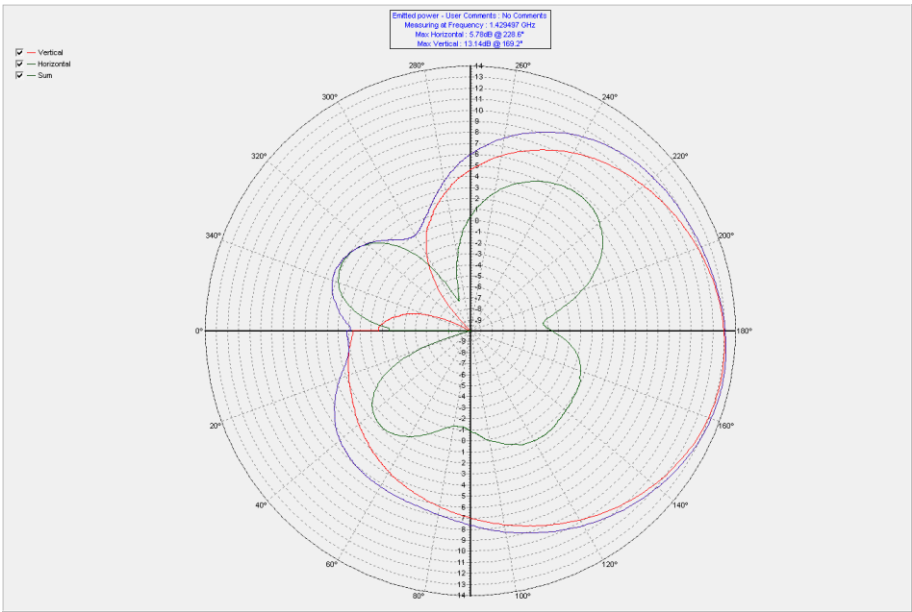The peak antenna gains are approx. 1 dBi
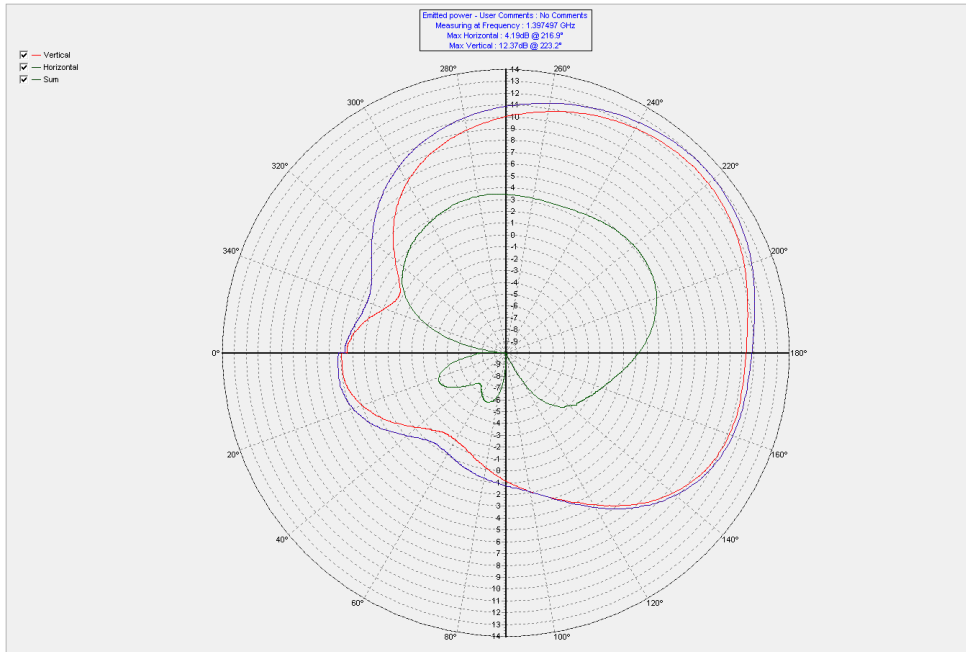

Figure 8 Antenna plot WMTS Antenna 1

Figure 9Antenna plot WMTS Antenna 2

8.2 BTLE antenna

The BTLE antenna is a metal antennas mounted on the PCB. It has similarities with an Inverted F structure. It has an intended even antenna pattern into the front of AP. The antenna polarization for the antenna is mainly vertical.
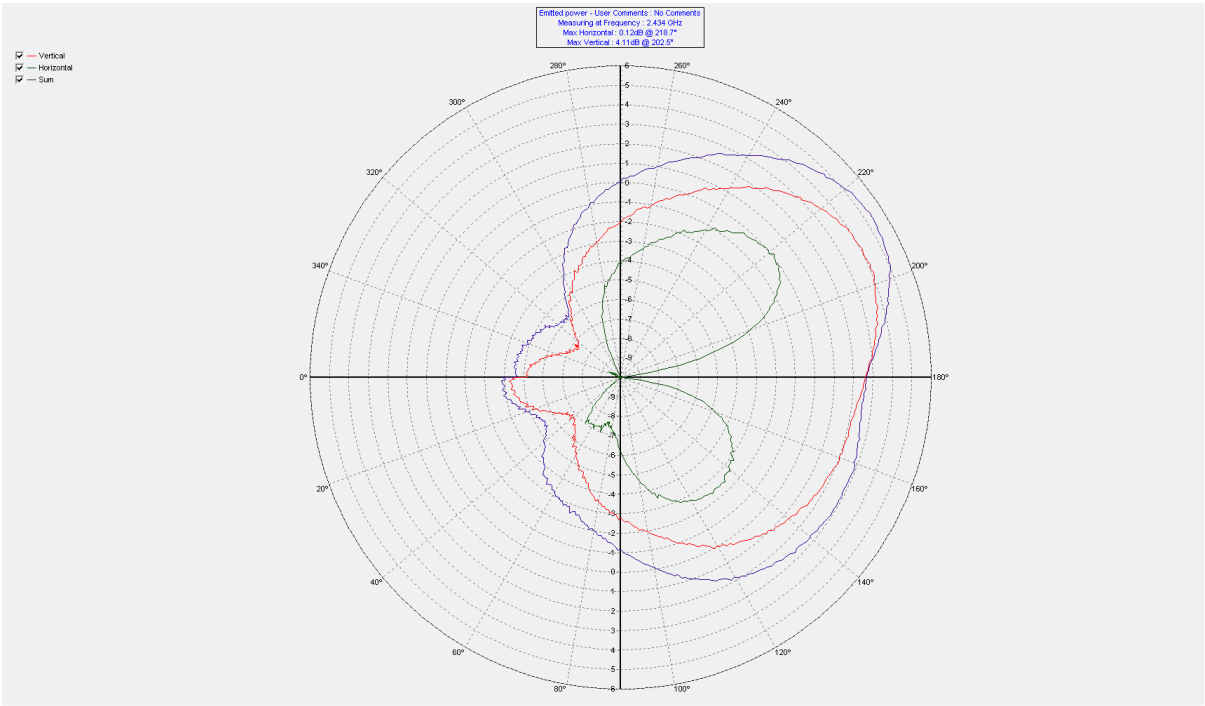
The peak antenna gains is approx. 0 dBi

Figure 10Antenna Plot BTLE