

From: Daryl Hunter

To: Leann Nguyen

Date: December 06, 2011

Subject: FCC File# 0191-EX-RR-2011

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Message:

1) Antenna Gain: 31.27 dBi (29.12 dBD)

2) Beamwidth: 4.71 degrees

3) Varies by site location and satellite being communicated with. At the 5 degree elevation angle lower limits, the azimuths range between 102 degrees to the east and 256 degrees to the west.

4) Elevation (site): Varies with location of mobile terminal between sea level and highest geographic location in CONUS ~ 4500 m.

5) Antenna height (above terrain): 15445 m. This is a mobile application and includes aeronautical. Certain business jets may fly up to 51,000 ft