

From: Allen S. Lindsay, SR

To: Leann Nguyen

Date: May 20, 2014

Subject: FCC File# 0347-EX-ST-2014

Message:

Transmitter Power max: 10 W = 40 dBm

Ground Antenna max: 24 dBi

EIRP (EIRP = ERP + 2.15dB = PT*GT)

Ground to ground max: 40 dBm + 24 dBi = 64 dBm... $10^{(64/10)} = 2512000 \text{ mW} = 2512 \text{ W EIRP}$, or 1532 W ERP

The pointing direction could conceivably be any point in the hemisphere above the earth.

If our use of the frequency would be predicated on our ground antenna facing a very strict directional sector, we would probably be able to obey it for ground testing.

Flight testing would be a different matter, and we would probably not be able to easily obey directional sector rules — unless the defined sector was very wide.