

From: Robert Koppel

To: Behnam Ghaffari

Date: April 20, 2015

Subject: FCC File No. 0206-EX-PL-2015

Message:

Kymeta Corporation
Application for Experimental License

Supplemental Information

File No. 0206-EX-PL-2015
Reference Number: 27578

Question: Will there be 2-way communication with the Hughes/EchoStar GSO Satellites in space (14-14.5 GHz)?

Yes. The earth terminals will transmit to the satellite(s) in the 14.0 – 14.5 GHz band (Ku-band) and in the 28.6 – 29.1 GHz and 29.5 – 30.0 GHz bands (Ka-band). The earth terminals will receive from the satellite(s) in the 11.7 – 12.2 GHz band (Ku-band) and the 18.3 – 18.8 GHz and 19.7 – 20.2 GHz bands (Ka-band).

If yes, please provide the following information with respect to the satellite(s):

1. Satellite coverage (Narrow Beam (NB) or Earth Coverage (EC)): Narrow Beam
2. Receive antenna gain: 35 dBi.
3. Beam width of the receive antenna at the half power points: 1.5°

Please provide the following information with respect the transceiver ground-station antenna(s):

1. Transmit antenna gain (dBi): 35 dBi.
2. Beam width of transmit antenna at the half-power points: 1.5 degrees.
3. Transmit antenna azimuth: Various. The application seeks authorization for the earth terminal to operate anywhere in CONUS. Thus, the antenna azimuth will vary.
4. Elevation of transmit antenna MSL (in meters): Various. It will depend on the location within CONUS.
5. Elevation of transmit antenna AGL (in meters): Various. It will depend on the location within CONUS.