

**Kymeta Corporation
Application for Experimental License**

Narrative Statement

(1) Name, address, phone number (also e-mail address and facsimile number, if available) of the applicant.

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(2) Description of why an Experimental License is needed.

Kymeta is developing a microwave satellite antenna technology that could significantly improve performance and lower costs in commercial deployments. Grant of the experimental license will allow Kymeta to test its technology with ViaSat satellites.

(3) Description of the operation to be conducted and its purpose.

Kymeta will test and demonstrate its antenna technology from fixed locations in the Continental United States (CONUS). Kymeta requests authority to operate up to 20 units. The purpose of the testing is to refine the ability of the assembled RF technology to both receive and transmit a Ka-Band digitally modulated transmission. The purpose of the demonstrations is to show the technology to prospective partners and customers.

(4) Time and dates of proposed operation.

Kymeta requests an experimental license for a period of 3 years commencing April 15, 2015 and ending April 15, 2018. Kymeta will notify Hughes/EchoStar, Inmarsat, SES, and O3b -- the other satellite systems authorized to provide service to the U.S. -- at least one week prior to any transmit testing and provide emergency contact information. In the event that interference is reported, Kymeta will immediately cease transmissions.

(5) Class(es) of station (fixed, mobile, fixed and mobile) and call sign of station (if applicable).

The transmitting station will operate in fixed mode.

(6) Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.

CONUS

(7) Equipment to be used, including name of manufacturer, model and number of units.

New Equipment Testing:

1. Kymeta mTenna experimental Ka-band antenna
2. ViaSat Satellite Broadband Terminal

(8) Frequency(ies) desired.

Transmit:

29.5 – 30.0 GHz
28.35 – 28.6 GHz
28.6 – 29.1 GHz

The bands 28.35 – 28.6 GHz and 28.6 – 29.1 GHz will only be used with ViaSat-1.

(9) Maximum effective radiated power (ERP) or equivalent isotropically radiated power (EIRP).

The maximum transmitted EIRP will be 44.5 dBW.

(10) Emission designator (see §2.201 of this chapter) or describe emission (bandwidth, modulation, etc.)

625KG7D, 625 kBd PSK, Digital Carrier
1M25G7D, 1250 kBd PSK, Digital Carrier
2M50G7D, 2.5 MBd PSK, Digital Carrier
5M00G7D, 5.0 MBd PSK, Digital Carrier
10M0G7D, 10.0 MBd PSK, Digital Carrier
20M0G7D, 20.0 MBd PSK, Digital Carrier

(11) Overall height of antenna structure above the ground (if greater than 6 meters above the ground or an existing structure, see part 17 of this Chapter concerning notification to the FAA).

Antenna height will not exceed 6 meters above ground level or roof-top level.