

To: Robert Koppel
E-Mail: ryans@kymetacorp.com
From: Behnam Ghaffari
Date: April 30, 2021

Subject: FCC File No. 0060-EX-CM-2021

Message:

1. Please describe the proposed antenna. Please provide the size (meter), antenna gain (dBi), and Maximum total input power at antenna flange (Watts) of the proposed Viasat Satellite Terminal and Kymeta Corporation mTenna antenna(s).
2. Please provide the antenna's pattern performance. Please provide the co-polarized gain (dbi), plus and minus from 0 to 10 degrees, 0 to 45 degrees, and 0 to 180 degrees with FCC 25.209 envelop, in the azimuth and elevation planes, at the center frequency bands of 28.35-29.1 GHz and 29.5-30 GHz for the Viasat Satellite Terminal and Kymeta Corporation mTenna antennas.
3. Please certify (A) the off-axis gain meets standards in §25.209 (a) and (b) and the power spectral density of any digitally modulated carrier into transmitting earth station antenna will not exceed 3.5 dBW/MHz and/or (B) the off-axis EIRP density from the proposed earth stations will meet the envelopes set forth in §25.218(i).
4. Please provide the manufacture specification and certification of the KA-band Viasat Satellite Terminal and Kymeta Corporation mTenna antennas.
5. Please confirm the POINT OF COMMUNICATION for frequency band in the 28.35-29.1 GHz is ViaSat-1 Satellites @ 115.1° W.L. (S2747).
6. Please Provide the POINT OF COMMUNICATION operating in the frequency band 29.5-30 GHz.
7. Please address how the proposed maximum power level (EIRP of 56.3 dBW; which exceeded more than 10 dBW EIRP of incumbent Ka-band earth station licenses), would not cause harmful interference to and can be shared with other GSO satellite system operating in the 28.35-28.6 GHz and 29.5-30 GHz bands and NGSO satellite system operating in the 28.6-29.1 GHz band.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of April 30, 2021 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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Responses to this correspondence must contain the Reference number : 61653