



September 5, 2017

Reference #38659

The following is in response to the request from the FCC for clarification on File # 0573-EX-CN-2017 dated August 30, 2017.

The 1615-1618.72MHz transmission supports a space-to-space link from the cubesat to the Globalstar satellite network. As such both the transmitter (CubeSat) and receiver (Globalstar satellite) are mobile and located in space. The orbital characteristics are those of the TEMPEST-D cubesat and are listed below.

Spacecraft: TEMPEST-D

Inclination: 52° [ISS]

Apogee: 400km

Perigee: 400km

Orbital period: 1.62h

Number of satellites in the system: 1

Number of transmitting satellites: 1

Number of transmitting satellites: 2

Transmitter

Center Frequency: programmable between 1615MHz and 1618.72MHz

Bandwidth: 1.23MHz

3dB beamwidth: 120°

Maximum Antenna Gain: 4.5dBi

Polarization: LCP

Maximum transmit power: 0.76W

Modulation: QPSK

ITU emission designator: 3M00G2DAX