

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WQ9XDO

(Call Sign)

XT MO

(Class of Station)

0180-EX-ST-2020

(File Number)

NAME University of Texas at Austin Wireless Networking and Communications Gp

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

The experiments will measure study modulation alternatives and propagation issues at millimeterwave frequencies in support of academic research.

Station Locations

- (1) MOBILE: within EER Buliding, Austin, TX, within 1.6 km, centered around NL 30-17-19;
WL 97-44-08

Frequency Information

MOBILE: within EER Buliding, Austin, TX, within 1.6 km, centered around NL 30-17-19; WL 97-44-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
58-70 GHz	MO	2G00D1D	10 W (ERP)	1.0E-6 %
60-62 GHz	MO	25M0D1D	25 mW (ERP)	1.0E-6 %
72-75 GHz	MO	2G00D1D	50 W (ERP)	1.0E-6 %

This authorization effective March 10, 2020 and
will expire 3:00 A.M. EST September 11, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: within EER Buliding, Austin, TX, within 1.6 km, centered around NL 30-17-19; WL 97-44-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
76.5-80.5 GHz	MO	1G00FXN	500 mW (ERP)	1.0E-6 %
77.5 GHz	MO	3G00F0N	2 mW (ERP)	1.0E-6 %
79.5 GHz	MO	3G00F0N	2 mW (ERP)	1.0E-6 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) The applicant must coordinate with all of the existing registered links in 71-76 GHz band prior to operation in the 72-75 GHz band.
- (4) Licensee Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (5) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing
- (6) No automatic renewal for operations of this authorization. All renewal requests will need to be re-evaluated to ensure new satellite networks are protected.
- (7) Stop buzzer, Robert Heath 512-686-8225.