

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

W12XVS

(Call Sign)

1756-EX-ST-2019

(File Number)

NAME Brown University

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:

These measurements on the Brown University campus will increase the understanding necessary for practical use of this spectrum

Station Locations

- (1) MOBILE: Brown University Campus, Providence, RI, within 1.5 km, centered around NL 41-49-35; WL 71-23-50

Frequency Information

MOBILE: Brown University Campus, Providence, RI, within 1.5 km, centered around NL 41-49-35; WL 71-23-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
97.5-103 GHz	MO	2G00K1D	50 W (ERP)	1.0E-6 %
195-205 GHz	MO	2G00K1D	12.6 W (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.

This authorization effective October 15, 2019 and
will expire 3:00 A.M. EST April 16, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (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 designated point of contact to terminate the systems if interference occurs is Dr. Mittleman at 713-992-4137.
- (4) All operations granted on an experimental basis shall be on an unprotected, non-interference basis and Brown University should have no expectations of automatic approval in this band in future submissions.
- (5) NTIA's concurrence is based upon Brown University enacting all interference mitigation measures described in the Supplemental Statement. Concurrence for any operational or long-term use of the 100-102 GHz or 200-205 GHz frequency bands in the future is extremely unlikely and this concurrence for experimental operation in a passive allocation is intended to be a one-time only basis.
- (6) Brown University shall not transmit in the 200-205 GHz frequency band when the NASA Aura spacecraft (NORAD designation 28376 or international spacecraft ID 2004-026A) is within horizon-to horizon view of the testing location.