

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

EXPERIMENTAL

(Nature of Service)

WM9XEM

(Call Sign)

XT MO

(Class of Station)

0138-EX-ST-2018

(File Number)

NAME Georgia Institute of Technology

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:

Experimental program to perform channel sounding measurements over Amateur Bands.

Station Locations

- (1) MOBILE: Avon Park Air Force Range in Avon Park, Florida, within 1 km, centered around NL 27-39-04; WL 81-20-23

Frequency Information

MOBILE: Avon Park Air Force Range in Avon Park, Florida, within 1 km, centered around NL 27-39-04; WL 81-20-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	400KG1D	16 W (ERP)	0.0001 %
1432-1435 MHz	MO	400KG1D	16 W (ERP)	0.0001 %
1710-2025 MHz	MO	10M0M7W	12 W (ERP)	

This authorization effective May 21, 2018 and
will expire 3:00 A.M. EST November 21, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Avon Park Air Force Range in Avon Park, Florida, within 1 km, centered around NL 27-39-04; WL 81-20-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2025-2110 MHz	MO	10M0M7W	1 W (ERP)	
2110-2155 MHz	MO	10M0M7W	12 W (ERP)	
2400-2483 MHz	MO	400KG1D	16 W (ERP)	0.0001 %
2483-2500 MHz	MO	400KG1D	6 W (ERP)	0.0001 %

Special Conditions:

- (1) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) 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.
- (5) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (6) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (7) Georgia Institute of Technology must obtain the consents of the following licensees within 80 km of the test area: Location & Monitoring Service licensees (902-928 MHz); and 1392-1395 MHz/1432-1435 MHz Band licensees.
- (8) The stop buzzer contact for this project is Bradford Baker, Phone: 404-407-8533, Email: brad.baker@gtri.gatech.edu.
- (9) For operation in the 2025-2110 MHz, the power (ERP) associated with emission 10M0M7W must not exceed 1 watt (ERP). For operation in the 2483 - 2500 MHz, the power (ERP) associated with emission 400KG1D must not exceed 6 watt (ERP).

Special Conditions:

- (10) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: Reduces authorized power in one band and adds Special Condition (9).