

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

KA2XAJ

(Call Sign)

0113-EX-CR-2016

(File Number)

NAME Georgia Tech Research Institute

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

(1) Marietta (COBB), GA - NL 33-54-31; WL 84-31-44

Frequency Information

Marietta (COBB), GA - NL 33-54-31; WL 84-31-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
500-608 MHz	FX	NON	1 W (ERP)	
614-960 MHz	FX	NON	1 W (ERP)	
1215-1400 MHz	FX	NON	1 W (ERP)	
1427-1435 MHz	FX	NON	1 W (ERP)	

This authorization effective December 01, 2016 and
will expire 3:00 A.M. EST December 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Marietta (COBB), GA - NL 33-54-31; WL 84-31-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-2690 MHz	FX	N0N	1 W (ERP)	
1850-2690 MHz	FX	N0N	1 W (ERP)	
2700-2780 MHz	FX	N0N	1 W (ERP)	
2890-3700 MHz	FX	N0N	1 W (ERP)	
4400-4990 MHz	FX	N0N	10 W (ERP)	
5250-5600 MHz	FX	N0N	10 W (ERP)	
5650-5925 MHz	FX	N0N	10 W (ERP)	
6425-9000 MHz	FX	N0N	10 W (ERP)	
9200-10550 MHz	FX	N0N	10 W (ERP)	
10700-12400 MHz	FX	N0N	10 W (ERP)	

Frequency Information

Marietta (COBB), GA - NL 33-54-31; WL 84-31-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12400-15350 MHz	FX	N0N	100 W (ERP)	
15400-18600 MHz	FX	N0N	100 W (ERP)	
18800-23600 MHz	FX	N0N	100 W (ERP)	
24050-31300 MHz	FX	N0N	100 W (ERP)	
31800-47000 MHz	FX	N0N	100 W (ERP)	
47200-50200 MHz	FX	N0N	100 W (ERP)	
50400-51400 MHz	FX	N0N	100 W (ERP)	
54250-58200 MHz	FX	N0N	100 W (ERP)	
59000-64000 MHz	FX	N0N	100 W (ERP)	
65000-75500 MHz	FX	N0N	100 W (ERP)	

Frequency Information

Marietta (COBB), GA - NL 33-54-31; WL 84-31-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
76000-86000 MHz	FX	N0N	100 W (ERP)	
92000-95000 MHz	FX	N0N	100 W (ERP)	

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) No transmission in the band 1280-1305 MHz in the direction of 109-129 degrees true north azimuth.
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF contract no. F08635-86-C-01612. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (4) The frequency assignments in 1215-1400 MHz and 2700-2780 MHz were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.