

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

EXPERIMENTAL

(Nature of Service)

WS9XSJ

(Call Sign)

XC MO

(Class of Station)

1432-EX-ST-2021

(File Number)

NAME Johns Hopkins Applied Physics Lab

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 principal scientific objective of the experiment is to measure receive signal strength indicator (RSSI) voltage levels at the experiments Intermediate Frequency (IF) conversion state as a

**Station Locations**

- (1) MOBILE: Chambersburg, PA, within 80 km, centered around NL 39-59-20; WL 77-40-56

**Frequency Information**

MOBILE: Chambersburg, PA, within 80 km, centered around NL 39-59-20; WL 77-40-56

| Frequency         | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------------|---------------|---------------------|------------------|---------------------------|
| 1465.6-1485.4 MHz | MO            | NON                 | 90 W (ERP)       | 0.01 %                    |
| 1487.6-1507.4 MHz | MO            | NON                 | 90 W (ERP)       | 0.01 %                    |
| 1524 MHz          | MO            | NON                 | 90 W (ERP)       | 0.01 %                    |

This authorization effective September 20, 2021 and  
will expire 3:00 A.M. EST March 21, 2022

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Chambersburg, PA, within 80 km, centered around NL 39-59-20; WL 77-40-56

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1525 MHz  | MO            | NON                 | 90 W (ERP)       | 0.01 %                    |

## Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Air Force Spectrum Management Office, Fort Meade, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the Air Force Spectrum Management Office, Fort Meade, MD, as necessary to ensure compatibility with existing uses.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number HQ003419D0006. 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.
- (5) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Dr. Robert Schmid at (240) 228-6653.