

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

EXPERIMENTAL

(Nature of Service)

WP9XKQ

(Call Sign)

XT      FX MO

(Class of Station)

1891-EX-ST-2019

(File Number)

NAME Cellco Partnership

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:**

Verizon Wireless is working with base station and mobile device equipment vendors to conduct product testing of 3.5 GHz in outdoor locations listed below.

**Station Locations**

- (1) Wailea (MAUI), HI - NL 20-40-54; WL 156-26-32; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-54; WL 156-26-32
- (2) Wailea (MAUI), HI - NL 20-40-54; WL 156-26-32; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-54; WL 156-26-32
- (3) Wailea (MAUI), HI - NL 20-40-54; WL 156-26-32; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-54; WL 156-26-32
- (4) Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-18; WL 156-26-34
- (5) Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-18; WL 156-26-34
- (6) Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-18; WL 156-26-34
- (7) Wailea (MAUI), HI - NL 20-40-02; WL 156-25-56; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-02; WL 156-25-56
- (8) Wailea (MAUI), HI - NL 20-40-02; WL 156-25-56; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-02; WL 156-25-56
- (9) Wailea (MAUI), HI - NL 20-41-03; WL 156-26-26; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-03; WL 156-26-26
- (10) Wailea (MAUI), HI - NL 20-41-03; WL 156-26-26; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-03; WL 156-26-26

This authorization effective October 21, 2019 and  
will expire 3:00 A.M. EST April 22, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



Station Locations

- (11) Wailea (MAUI), HI - NL 20-41-02; WL 156-26-28; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-02; WL 156-26-28
- (12) Wailea (MAUI), HI - NL 20-41-03; WL 156-26-30; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-03; WL 156-26-30
- (13) Wailea (MAUI), HI - NL 20-41-04; WL 156-26-28; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-41-04; WL 156-26-28

## Frequency Information

Wailea (MAUI), HI - NL 20-40-54; WL 156-26-32; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-54; WL 156-26-32

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-40-54; WL 156-26-32; MOBILE: within 0.2 km radius of center point location, within 0.2 km, centered around NL 20-40-54; WL 156-26-32

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

## Frequency Information

Wailea (MAUI), HI - NL 20-40-54; WL 156-26-32; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |

## Frequency Information

Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D  | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-18; WL 156-26-34; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-40-02; WL 156-25-56; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

## Frequency Information

Wailea (MAUI), HI - NL 20-40-02; WL 156-25-56; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-03; WL 156-26-26; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-03; WL 156-26-26; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |

## Frequency Information

Wailea (MAUI), HI - NL 20-41-03; WL 156-26-26; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D  | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-02; WL 156-26-28; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

Wailea (MAUI), HI - NL 20-41-03; WL 156-26-30; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

## Frequency Information

Wailea (MAUI), HI - NL 20-41-04; WL 156-26-28; MOBILE: within 0.2 km radius of center point location, within 0.2 km, center

| Frequency     | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------|------------------|---------------------------|
| 3650-3700 MHz | FX            | 20M0W7D<br>40M0W7D<br>50M0W7D | 153 W (ERP)      | 0.0004 %                  |
| 3650-3700 MHz | MO            | 20M0W7D<br>40M0W7D            | 0.3 W (ERP)      | 0.0004 %                  |

## Special Conditions:

- (1) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (2) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Maintain operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3670 MHz band
- (6) Consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas prior to operation in 3650-3670 MHz band.