# V. DFS Requirements and Radar Waveform Description & Calibration

## A. DFS Requirements

| Requirement | Operational Mode | | |
|---|---|---|---|
| | Master | Client Without Radar Detection | Client With Radar Detection |
| *Non-Occupancy Period* | Yes | Not required | Yes |
| *DFS Detection Threshold* | Yes | Not required | Yes |
| *Channel Availability Check Time* | Yes | Not required | Not required |
| *Uniform Spreading* | Yes | Not required | Not required |
| *U-NII Detection Bandwidth* | Yes | Not required | Yes |

**Table 23. Applicability of DFS Requirements Prior to Use of a Channel**

| Requirement | Operational Mode | | |
|---|---|---|---|
| | Master | Client Without Radar Detection | Client With Radar Detection |
| *DFS Detection Threshold* | Yes | Not required | Yes |
| *Channel Closing Transmission Time* | Yes | Yes | Yes |
| *Channel Move Time* | Yes | Yes | Yes |
| *U-NII Detection Bandwidth* | Yes | Not required | Yes |

**Table 24. Applicability of DFS Requirements During Normal Operation**

| Maximum Transmit Power | Value |
|---|---|
| ≥ 200 milliwatt | -64 dBm |
| < 200 milliwatt | -62 dBm |
| **Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna<br>**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. | |

**Table 25. DFS Detection Thresholds for Master or Client Devices Incorporating DFS**

| Parameter | Value |
|---|---|
| *Non-occupancy period* | Minimum 30 minutes |
| *Channel Availability Check Time* | 60 seconds |
| *Channel Move Time* | 10 seconds See Note 1 |
| *Channel Closing Transmission Time* | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2 |
| *U-NII Detection Bandwidth* | Minimum 80% of the 99% power bandwidth. See Note 3. |

**Note 1:** The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required facilitating *Channel* changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

**Table 26. DFS Response Requirement Values**

## B. Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

**Short Pulse Radar Test Waveforms**

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Trials |
|---|---|---|---|---|---|
| 1 | 1 | 1428 | 18 | 60% | 30 |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

**Long Pulse Radar Test Waveform**

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per Bursts | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Trials |
|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more than 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst_Count.
3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
5) Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

**A representative example of a Long Pulse radar test waveform:**

1) The total test signal length is 12 seconds.
2) 8 Bursts are randomly generated for the Burst_Count.
3) Burst 1 has 2 randomly generated pulses.
4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
5) The PRI is randomly selected to be at 1213 microseconds.
6) Bursts 2 through 8 are generated using steps 3 – 5.
7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

## Graphical Representation of a Long Pulse radar Test Waveform

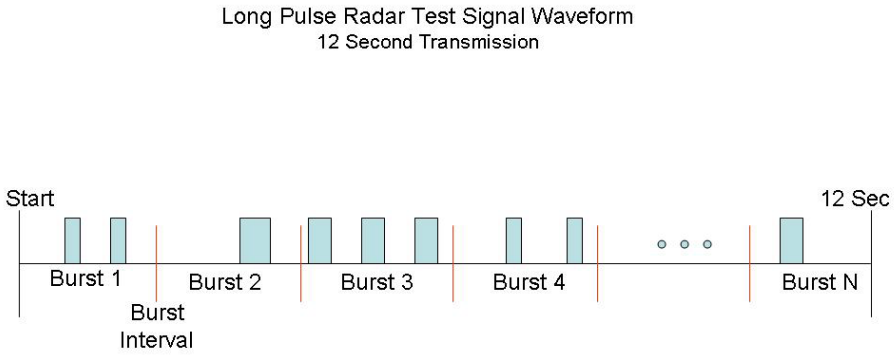



**Figure 5. Long Pulse Radar Test Signal Waveform**

**Frequency Hopping Radar Test Waveform**

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Trials |
|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | .333 | 300 | 70% | 30 |

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected1 from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

## C. Radar Waveform Calibration

The following equipment setup was used to calibrate the radiated Radar Waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) mode at the frequency of the Radar Waveform generator. Peak detection was utilized. The spectrum analyzer's resolution bandwidth (RBW) was set to 3 MHz and the video bandwidth (VBW) was set to 3 MHz. The calibration setup is diagrammed in Figure 6.

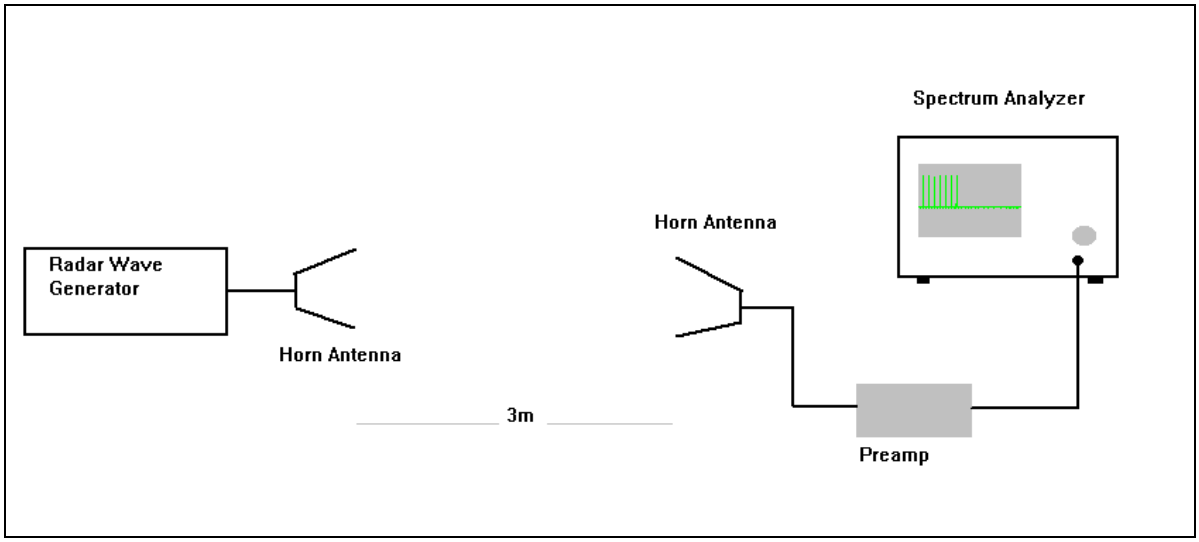
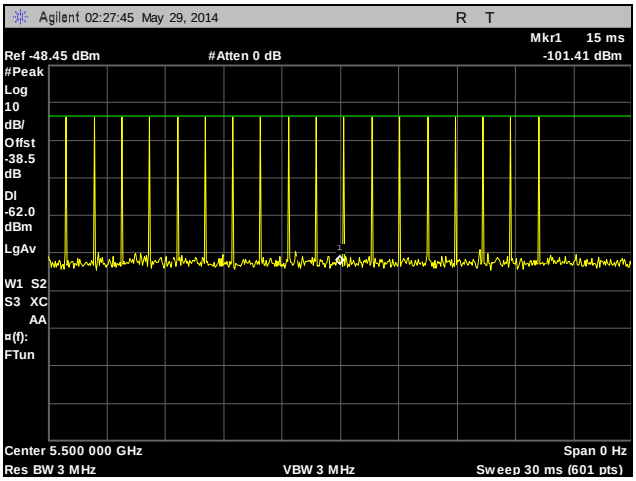


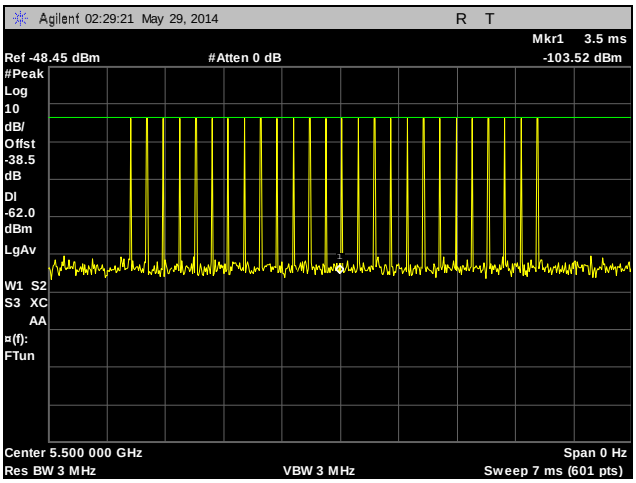

**Figure 6. Calibration Test setup**

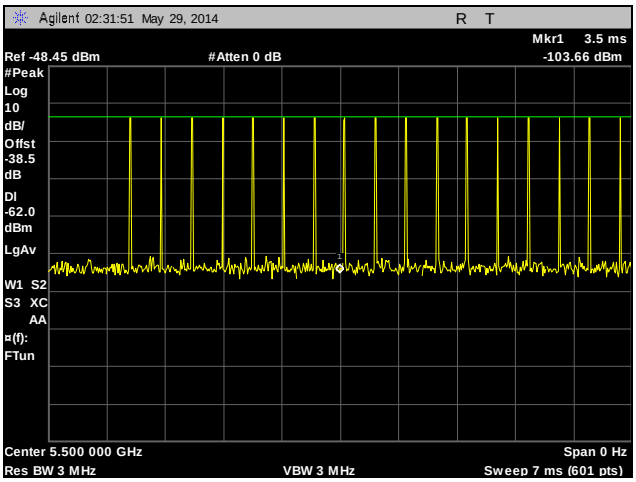
## Radar Waveform Calibration, 20 MHz



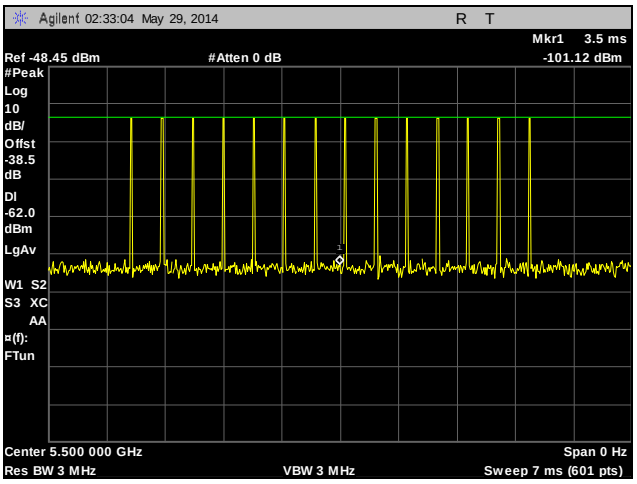

**Plot 275. Radar Type 1 Calibration, 20 MHz, 5500 MHz**



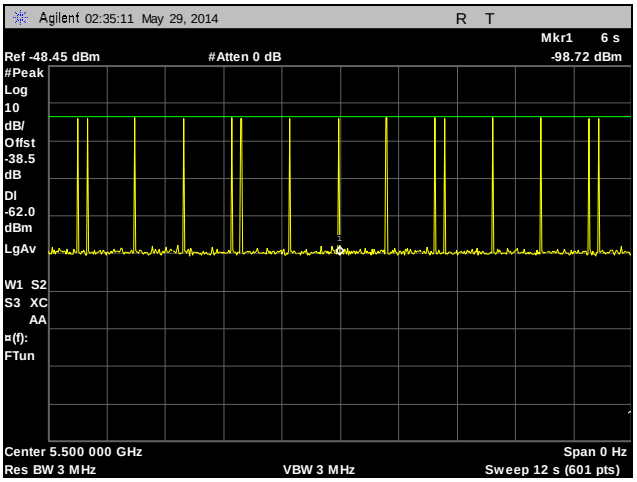

**Plot 276. Radar Type 2 Calibration, 20 MHz, 5500 MHz**



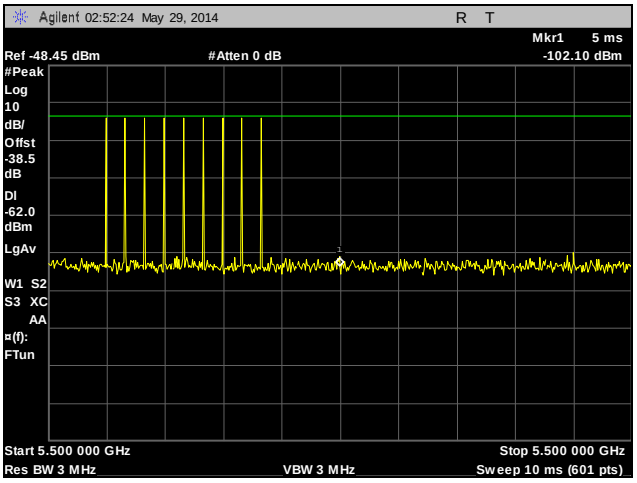

**Plot 277. Radar Type 3 Calibration, 20 MHz, 5500 MHz**




**Plot 278. Radar Type 4 Calibration, 20 MHz, 5500 MHz**

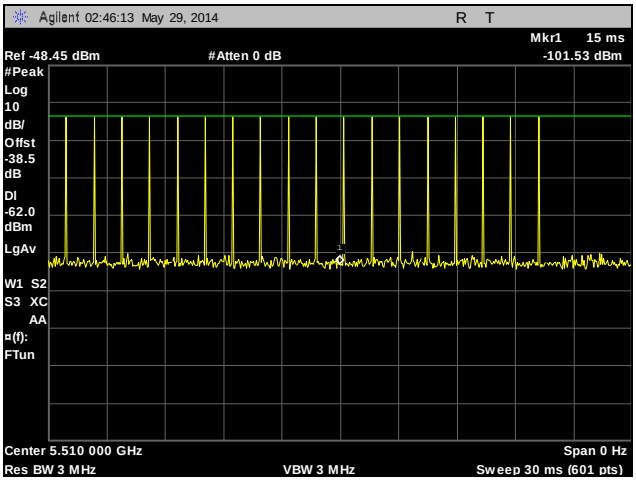



**Plot 279. Radar Type 5 Calibration, 20 MHz, 5500 MHz**

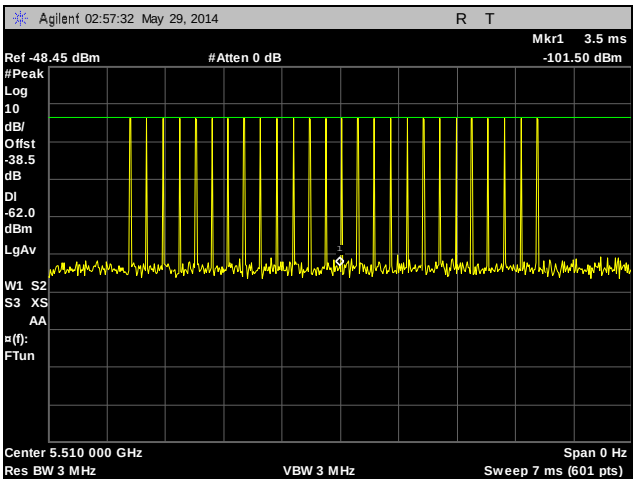



**Plot 280. Radar Type 6 Calibration, 20 MHz, 5500 MHz**

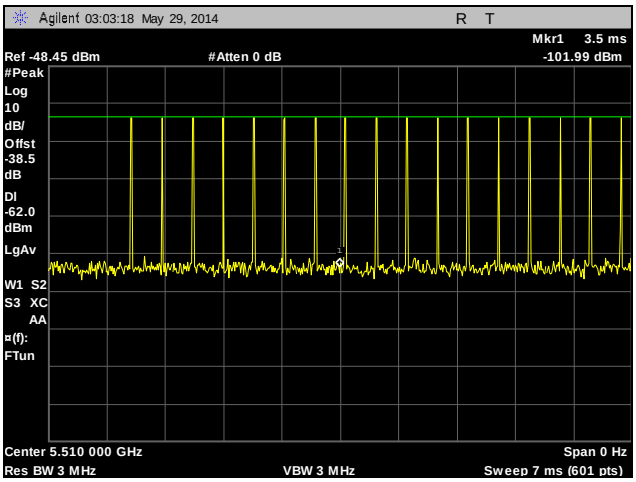
## Radar Waveform Calibration, 40 MHz




**Plot 281. Radar Type 1 Calibration, 40 MHz, 5510 MHz**

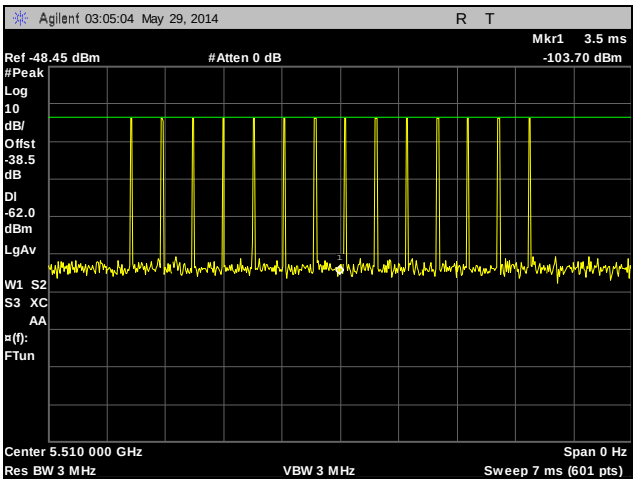



**Plot 282. Radar Type 2 Calibration, 40 MHz, 5510 MHz**

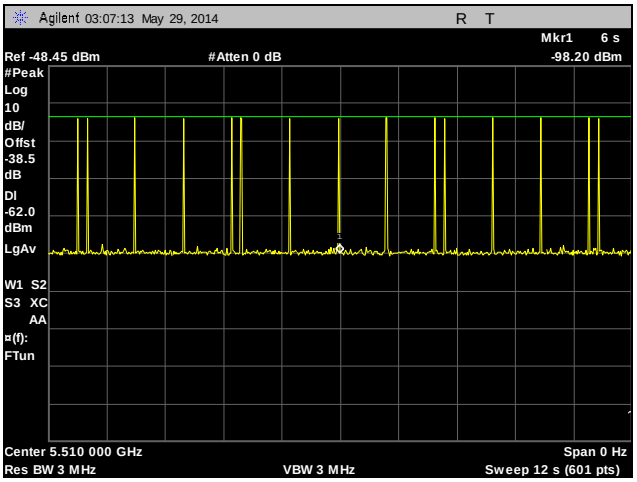



**Plot 283. Radar Type 3 Calibration, 40 MHz, 5510 MHz**

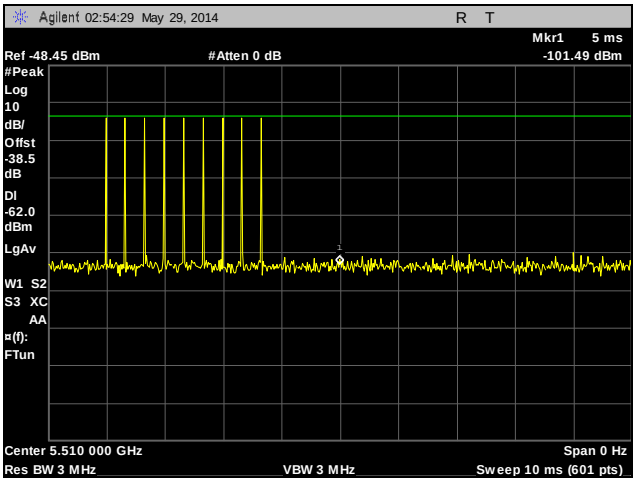
  




**Plot 284. Radar Type 4 Calibration, 40 MHz, 5510 MHz**




**Plot 285. Radar Type 5 Calibration, 40 MHz, 5510 MHz**




**Plot 286. Radar Type 6 Calibration, 40 MHz, 5510 MHz**

# VI. DFS Test Procedure and Test Results

## A. DFS Test Setup

1. A spectrum analyzer is used as a monitor to verify that the Unit Under Test (UUT) has vacated the Channel within the Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and subsequent Channel move. It is also used to monitor UUT transmissions during the Channel Availability Check Time.
2. The test setup, which consists of test equipment and equipment under test (EUT), is diagrammed in Figure 7.

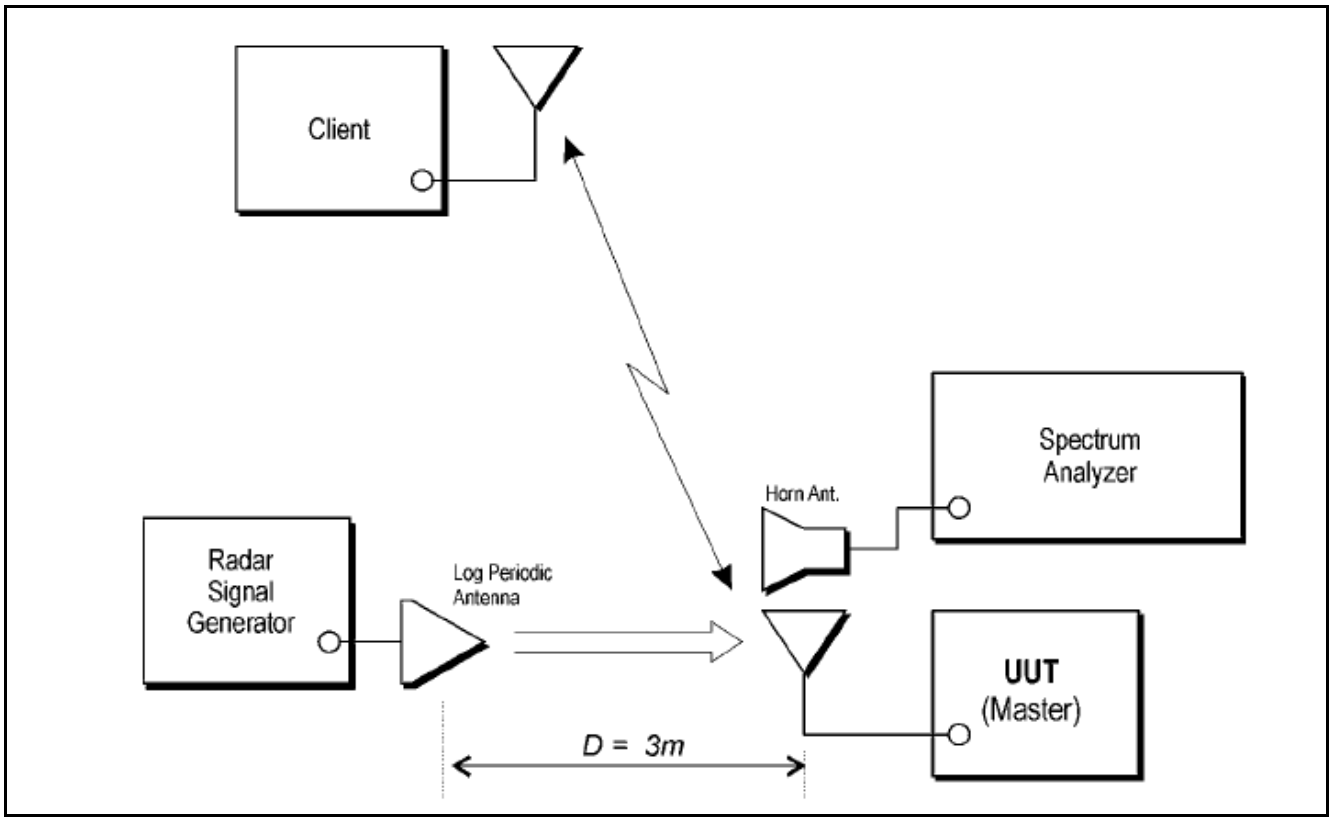



**Figure 7. Test Setup Diagram**

Note: A horn antenna was used to transmit the Radar Signals instead of a Log Periodic antenna.

## B. EUT Information

1. Operating frequency range is 5250-5700 MHz
2. The EUT is a Master device
3. Highest EIRP = 28.93 dBm; Lowest EIRP = 13.67dBm
4. EUT has 2, 5 and 13.5 dBi antennas
5. For loading the channel in 96% of the time we transmit 1080p60 video resolution pattern. This video pattern is played from video source device that is connected to Falcon TX module through HDMI cable.
6. System block diagram is included in user manual Data rate - 63Mbps per channel Channel BW - 20MHz or 40MHz Frame based.
7. 60 seconds to complete power-on cycle.
8. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user is submitted as a separate declaration in the filing.

## C. UNII Detection Bandwidth

**Test Requirement(s):** **§ 15.407** A Minimum 100% of the UNI II 99% transmission power bandwidth

**Test Procedure:** All UNII channels for this device have identical channel bandwidths.

A single burst of the short pulse radar type 1 is produced at 5500 MHz, at the -63dBm test level. The UUT is set up as a standalone device (no associated client, and no data traffic).

A single radar burst is generated for a minimum of 10 trials, and the response of the UUT is recorded. The UUT must detect the radar waveform 90% or more of the time.

The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted $F_H$.

The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted $F_L$.

The U-NII Detection Bandwidth is calculated as follows:

$$\text{U-NII Detection Bandwidth} = F_H - F_L$$

**Test Results:** EUT is compliant with the detection bandwidth requirement. $F_H - F_L >$ 99% transmission power bandwidth.

**Test Engineer:** Djed Mouada

**Test Date:** 05/30/14 – 06/06/14

## UNII Detection Bandwidth – Test Results

| EUT Frequency- 5500MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | DFS Detection Trials (1=Detection, 0= No Detection) | | | | | | | | | | |
| Radar Frequency (MHz) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) |
| 5490 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 5491 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5492 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5493 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5494 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5495 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5496 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5497 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5498 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5499 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5500 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5501 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5502 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5503 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5504 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5505 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5506 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5507 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5508 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5509 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| | | | | | | | | | | | 100% |
| Detection Bandwidth = $f_h$ - $f_l$ = 5509 MHz-5491MHz = 18MHz | | | | | | | | | | | |
| EUT 99f% Bandwidth = 15.453MHz | | | | | | | | | | | |

**Table 27. UNII Detection Bandwidth, Test Results, 5500 MHz**

| EUT Frequency- 5510MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | DFS Detection Trials (1=Detection, 0= No Detection) | | | | | | | | | | |
| Radar Frequency (MHz) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) |
| 5489 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5490 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5491 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5492 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5493 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5494 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5495 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5496 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5497 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5498 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5499 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5500 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5501 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5502 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5503 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5504 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5505 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5506 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5507 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5508 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5509 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5510 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5511 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5512 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5513 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5514 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5515 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5516 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5517 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5518 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5519 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5520 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5521 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| | | | | | | | | | | | 100% |
| Detection Bandwidth = $f_h$ - $f_l$ = 5521MHz-5489MHz = 32MHz | | | | | | | | | | | |
| EUT 99% Bandwidth = 31.1281MHz | | | | | | | | | | | |

**Table 28. UNII Detection Bandwidth, Test Results, 5510 MHz**

## D. Initial Channel Availability Check Time

**Test Requirements:** **§ 15.407** The Initial Channel Availability Check Time tests that the UUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the U-NII device has checked for radar waveforms, for one minute, on the test channel. This test does not use any of the radar waveforms and only needs to be performed once.

The UUT should not make any transmissions over the test channel, for at least 1 minute after completion of its power-on cycle.

**Test Procedure:** The U-NII device is powered on and instructed to operate at 5500 MHz. At the same time the UUT is powered on, the spectrum analyzer is set to 5500MHz with a zero span and a 2.5 minute sweep time. The analyzer is triggered at the same time power is applied to the U-NII device.

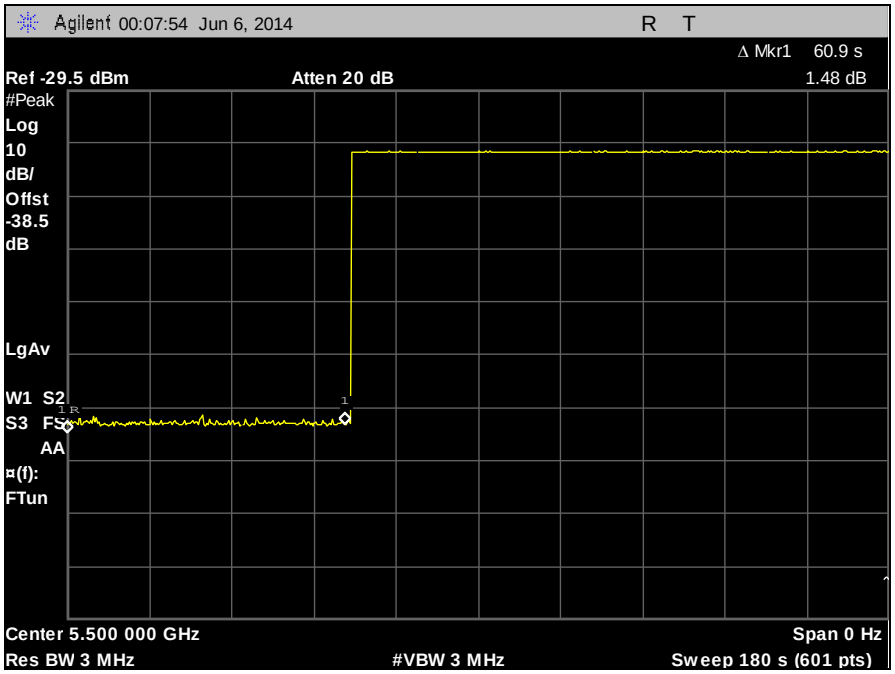
**Test Results:** Marker 1R on plot 221 indicates the start of the channel availability check time. Initial beacon/data transmission is indicated by marker 1.

The Equipment was compliant with § 15.407 Initial Channel Availability Check Time.

**Test Engineer:** Djed Mouada

**Test Date:** 06/05/14

## Initial Channel Availability Check Time




**Plot 287. Initial Channel Availability Check Time**

## E. Radar Burst at the Beginning of Channel Availability Check Time

**Test Requirements:** **§ 15.407** A Radar Burst at the Beginning of the Channel Availability Check Time tests that the UUT does not emit beacon, control, or data signals on the test Channel if it has detected a radar burst during that time period until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the beginning of the Channel Availability Check Time.

**Test Procedure:** The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

A single Burst of short pulse radar type 1, at -63 dBm, will commence within a 6 second window starting at T1.

Visual indication of the UUT of successful detection of the radar Burst will be recorded and reported. Observation of transmission at 5500MHz will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window, no UUT transmissions occurr at 5500MHz.

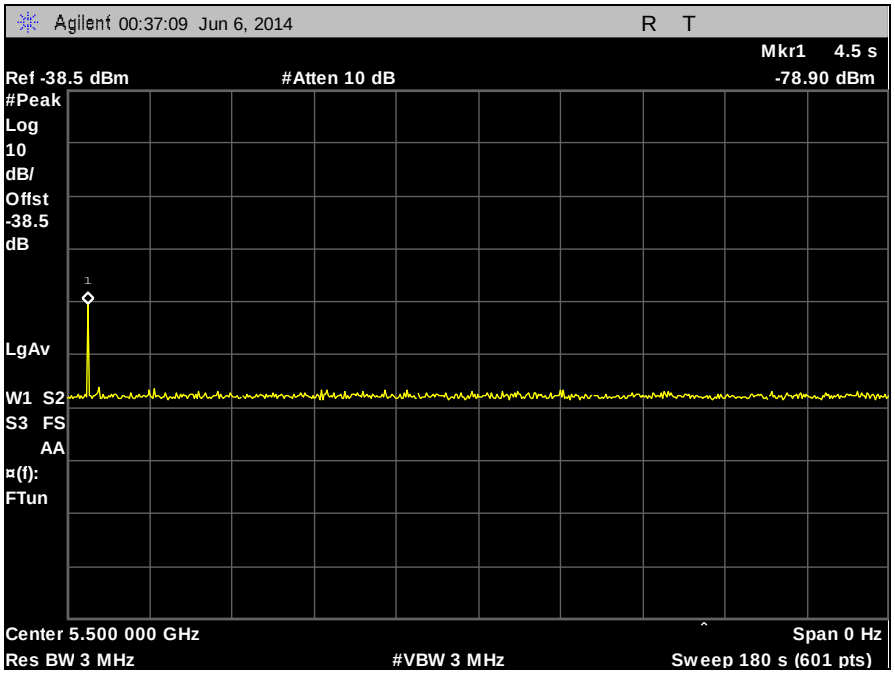
**Test Results** Plot 222 below indicates that there were no UUT transmissions during the 2.5 minute measurement window when a radar burst was injected 6 seconds into the CACT. Therefore, the UUT detected the presence of a radar during the CACT and moved away from that channel. The radar pulse is denoted by marker 1.

The equipment was compliant with § 15.407 Radar Burst at the Beginning of the Channel Availability Check Time.

**Test Engineer:** Djed Mouada

**Test Date:** 06/05/14

## Radar Burst at the Beginning of Channel Availability Check Time




**Plot 288. Radar Burst at the Beginning of CACT**

## F. Radar Burst at the End of Channel Availability Check Time

**Test Requirements:** **§ 15.407** A Radar Burst at the End of the Channel Availability Check Time tests that the UUT does not emit beacon, control, or data signals on the test Channel if it has detected a radar burst during that time period until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the end of the Channel Availability Check Time.

**Test Procedure:** The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the end of the Channel Availability Check Time.

The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at T1+ 54 seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5500MHz will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5500MHz.

**Test Results:** Pots 223 indicates that no UUT transmissions occurred during the 2.5 minute measurement window when a radar burst was injected 6 seconds before the end of the CACT. Therefore, the UUT detected the presence of a radar and moved away from that channel. The radar pulse is denoted by marker 1.

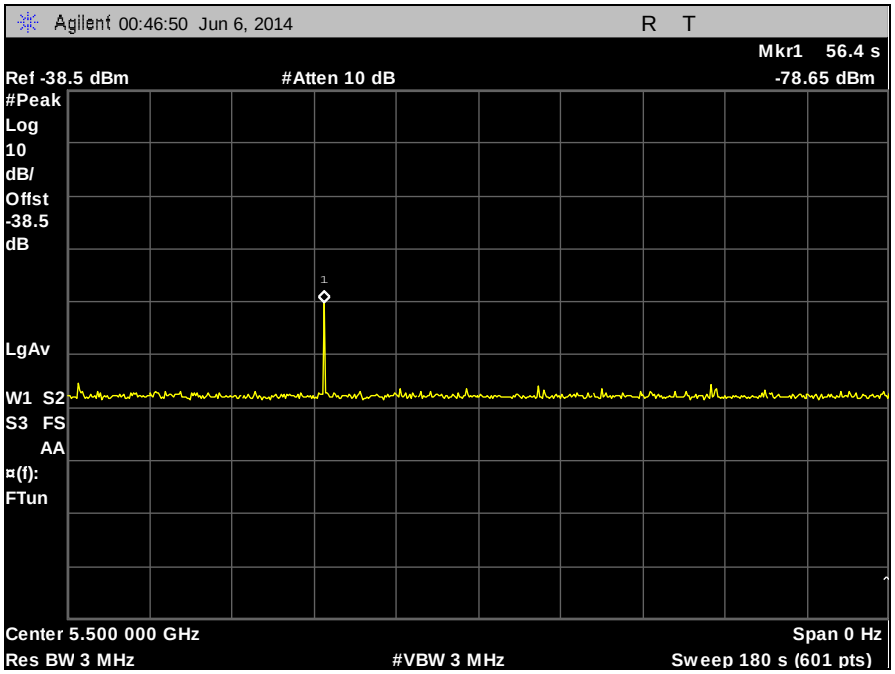
The equipment was compliant with § 15.407 Radar Burst at the End of the Channel Availability Check Time.

**Test Engineer:** Djed Mouada

**Test Date:** 06/05/14

## Radar Burst at the End of Channel Availability Check Time




**Plot 289. Radar Burst at the End of CACT**

## G. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time, and Non-Occupancy Period

**Test Requirements:** **§ 15.407** (Refer to DFS Response Requirement Values table in section III-A of this report.) The UUT shall continuously monitor for radar transmissions in the operating test channel. When a radar burst occurs in the test channel, it has 10 seconds to move to another channel. This 10 second window is termed Channel Move Time (CMT).

When a radar burst occurs, the UUT has 200 milliseconds, plus an aggregate of 60 milliseconds, to cease transmission in the operating test channel. This 200 ms + 60 ms requirement is termed Channel Closing Transmission Time (CCT).

After radar burst and subsequent move to another channel, the UUT shall not resume transmission, on the channel it moved from, for a period of 30 minutes. This requirement is termed Non-Occupancy Period (NOP).

**Test Procedure:** These tests define how the following DFS parameters are verified during In-Service Monitoring: Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period.

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5500 MHz. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at -63dBm.

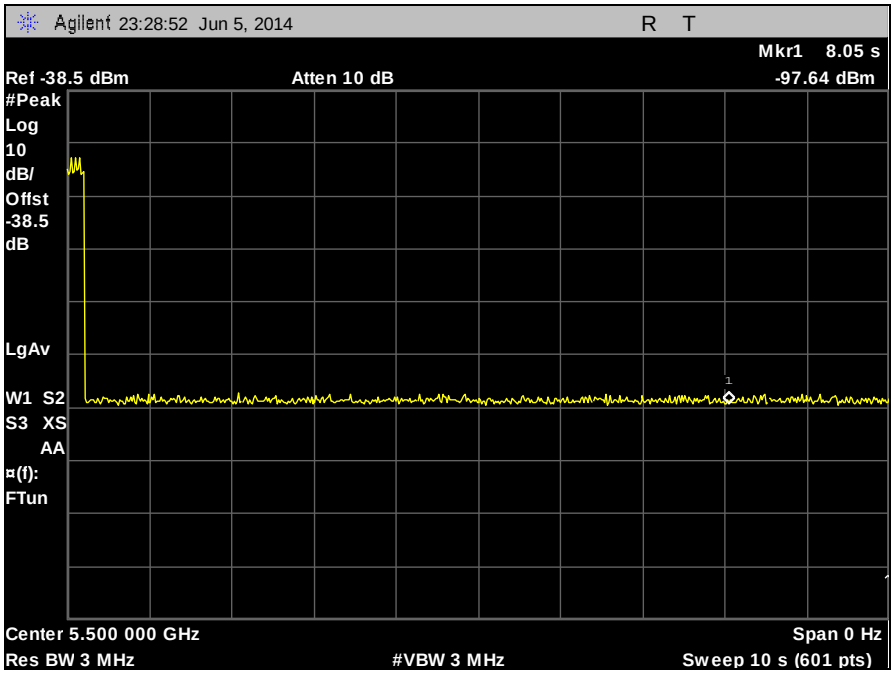
Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the *DFS Response Requirement Values table*.

**Test Results:** The EUT was compliant with § 15.407 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time, and Non-Occupancy Period.

**Test Engineer:** Djed Mouada

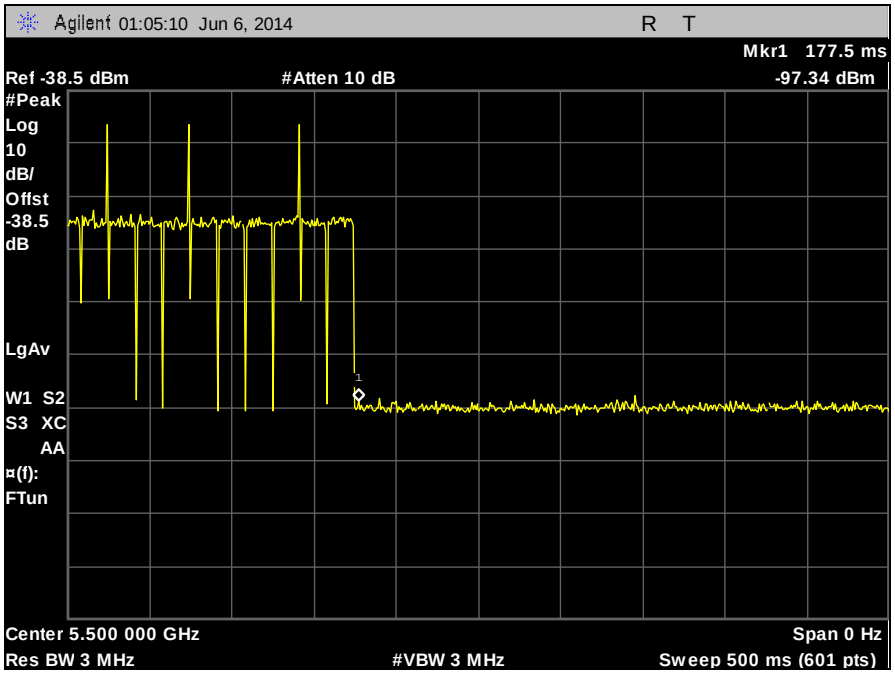
**Test Date:** 06/05/14

## Channel Move Time




**Plot 290. Channel Move Time, 5500 MHz**

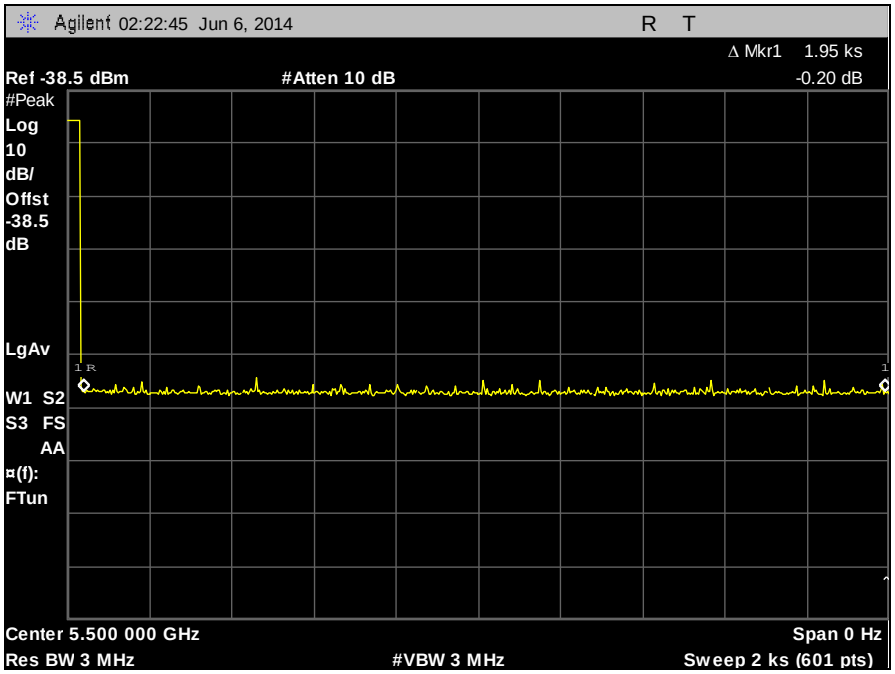
## Channel Closing Time




**Plot 291. Channel Closing Time**

## Non-Occupancy Period




**Plot 292. Non-Occupancy Period**

## H. Statistical Performance Check

**Test Requirements:** **§ 15.407** During In-Service Monitoring, the EUT requires a minimum percentage of successful radar detections from all required radar waveforms at a level equal to the DFS Detection Threshold + 1dB.

**Test Procedure:** Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. The Radar Waveform generator sends the individual waveform for each of the radar types 1-6 at -63dbm. Statistical data is gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The percentage of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$$

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the Radar Test Waveforms section.

**Test Results:** The equipment was compliant with § 15.407 Statistical Performance Check.

**Test Engineer:** Djed Mouada

**Test Date:** 06/06/14

## Statistical Performance Check – Radar Type 1, 5500 MHz

| Radar Type | Trial # | Pulses per Burst | Pulse Width (µsec) | PRI (µsec) | Detection |
|---|---|---|---|---|---|
| | | | | | 1 = Yes, 0 = No |
| 1 | 1 | 18 | 1 | 1428 | 1 |
| | 2 | 18 | 1 | 1428 | 1 |
| | 3 | 18 | 1 | 1428 | 1 |
| | 4 | 18 | 1 | 1428 | 1 |
| | 5 | 18 | 1 | 1428 | 1 |
| | 6 | 18 | 1 | 1428 | 1 |
| | 7 | 18 | 1 | 1428 | 1 |
| | 8 | 18 | 1 | 1428 | 1 |
| | 9 | 18 | 1 | 1428 | 1 |
| | 10 | 18 | 1 | 1428 | 1 |
| | 11 | 18 | 1 | 1428 | 1 |
| | 12 | 18 | 1 | 1428 | 1 |
| | 13 | 18 | 1 | 1428 | 1 |
| | 14 | 18 | 1 | 1428 | 1 |
| | 15 | 18 | 1 | 1428 | 1 |
| | 16 | 18 | 1 | 1428 | 1 |
| | 17 | 18 | 1 | 1428 | 1 |
| | 18 | 18 | 1 | 1428 | 1 |
| | 19 | 18 | 1 | 1428 | 1 |
| | 20 | 18 | 1 | 1428 | 1 |
| | 21 | 18 | 1 | 1428 | 1 |
| | 22 | 18 | 1 | 1428 | 1 |
| | 23 | 18 | 1 | 1428 | 1 |
| | 24 | 18 | 1 | 1428 | 1 |
| | 25 | 18 | 1 | 1428 | 1 |
| | 26 | 18 | 1 | 1428 | 1 |
| | 27 | 18 | 1 | 1428 | 1 |
| | 28 | 18 | 1 | 1428 | 1 |
| | 29 | 18 | 1 | 1428 | 1 |
| | 30 | 18 | 1 | 1428 | 1 |
| | Detection Percentage | | | | 100% (> 60%) |

**Table 29. Statistical Performance Check – Radar Type 1, 5500 MHz**

## Statistical Performance Check – Radar Type 2, 5500 MHz

| Radar Type | Trial # | Pulse Width 1 to 5 µsec | PRI 150 to 230 µsec | Pulses per Burst 23 to 29 | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 2 | 1 | 3.2 | 195.0 | 26 | 1 |
| | 2 | 1.1 | 153.0 | 23 | 1 |
| | 3 | 2.1 | 172.0 | 24 | 1 |
| | 4 | 4.8 | 225.0 | 29 | 1 |
| | 5 | 3.9 | 208.0 | 28 | 1 |
| | 6 | 2.9 | 188.0 | 26 | 1 |
| | 7 | 3.2 | 194.0 | 26 | 1 |
| | 8 | 2.5 | 179.0 | 25 | 1 |
| | 9 | 3.1 | 193.0 | 26 | 1 |
| | 10 | 1.2 | 155.0 | 23 | 1 |
| | 11 | 3.9 | 207.0 | 27 | 1 |
| | 12 | 4.6 | 221.0 | 29 | 1 |
| | 13 | 3.2 | 194.0 | 26 | 1 |
| | 14 | 2.2 | 175.0 | 25 | 1 |
| | 15 | 4.5 | 220.0 | 29 | 1 |
| | 16 | 3.0 | 190.0 | 26 | 1 |
| | 17 | 5.0 | 229.0 | 29 | 1 |
| | 18 | 2.4 | 178.0 | 25 | 1 |
| | 19 | 2.9 | 188.0 | 26 | 1 |
| | 20 | 2.3 | 175.0 | 25 | 1 |
| | 21 | 3.7 | 204.0 | 27 | 1 |
| | 22 | 2.2 | 175.0 | 25 | 1 |
| | 23 | 4.9 | 228.0 | 29 | 1 |
| | 24 | 2.9 | 188.0 | 26 | 1 |
| | 25 | 2.5 | 181.0 | 25 | 1 |
| | 26 | 1.1 | 153.0 | 23 | 1 |
| | 27 | 3.8 | 206.0 | 27 | 1 |
| | 28 | 4.7 | 223.0 | 29 | 1 |
| | 29 | 2.4 | 179.0 | 25 | 1 |
| | 30 | 4.2 | 214.0 | 28 | 1 |
| | **Detection Percentage** | | | | **100% ( >60%)** |

**Table 30. Statistical Performance Check – Radar Type 2, 5500 MHz**

## Statistical Performance Check – Radar Type 3, 5500 MHz

| Radar Type | Trial # | Pulses per Burst | Pulse Width 6 to 10 µsec | PRI (µsec) PRI 200 to 500 µsec | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 3 | 1 | 17 | 8.2 | 367.0 | 1 |
| | 2 | 16 | 6.1 | 211.0 | 1 |
| | 3 | 16 | 7.1 | 283.0 | 1 |
| | 4 | 18 | 9.8 | 480.0 | 1 |
| | 5 | 18 | 8.9 | 416.0 | 1 |
| | 6 | 17 | 7.9 | 343.0 | 1 |
| | 7 | 17 | 8.2 | 364.0 | 1 |
| | 8 | 17 | 7.5 | 310.0 | 1 |
| | 9 | 17 | 8.1 | 361.0 | 1 |
| | 10 | 16 | 6.2 | 219.0 | 1 |
| | 11 | 18 | 8.9 | 415.0 | 1 |
| | 12 | 18 | 9.6 | 467.0 | 1 |
| | 13 | 17 | 8.2 | 366.0 | 1 |
| | 14 | 16 | 7.2 | 294.0 | 1 |
| | 15 | 18 | 9.5 | 462.0 | 1 |
| | 16 | 17 | 8.0 | 350.0 | 1 |
| | 17 | 18 | 10.0 | 497.0 | 1 |
| | 18 | 17 | 7.4 | 305.0 | 1 |
| | 19 | 17 | 7.9 | 342.0 | 1 |
| | 20 | 16 | 7.3 | 296.0 | 1 |
| | 21 | 18 | 8.7 | 403.0 | 1 |
| | 22 | 16 | 7.2 | 293.0 | 1 |
| | 23 | 18 | 9.9 | 493.0 | 1 |
| | 24 | 17 | 7.9 | 343.0 | 1 |
| | 25 | 17 | 7.5 | 317.0 | 1 |
| | 26 | 16 | 6.1 | 211.0 | 1 |
| | 27 | 18 | 8.8 | 409.0 | 1 |
| | 28 | 18 | 9.7 | 473.0 | 1 |
| | 29 | 17 | 7.4 | 308.0 | 1 |
| | 30 | 18 | 9.2 | 439.0 | 1 |
| | Detection Percentage | | | | 100% (> 60%) |

**Table 31. Statistical Performance Check – Radar Type 3, 5500 MHz**

## Statistical Performance Check – Radar Type 4, 5500 MHz

| Radar Type | Trial # | Pulses per Burst | Pulse Width 11 to 20 µsec | PRI (µsec) PRI 200 to 500 µsec | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 4 | 1 | 14 | 16.0 | 367.0 | 1 |
| | 2 | 12 | 11.3 | 211.0 | 1 |
| | 3 | 13 | 13.5 | 283.0 | 1 |
| | 4 | 16 | 19.4 | 480.0 | 1 |
| | 5 | 15 | 17.5 | 416.0 | 1 |
| | 6 | 14 | 15.3 | 343.0 | 1 |
| | 7 | 14 | 15.9 | 364.0 | 1 |
| | 8 | 13 | 14.3 | 310.0 | 1 |
| | 9 | 14 | 15.8 | 361.0 | 1 |
| | 10 | 12 | 11.5 | 219.0 | 1 |
| | 11 | 15 | 17.4 | 415.0 | 1 |
| | 12 | 16 | 19.0 | 467.0 | 1 |
| | 13 | 14 | 16.0 | 366.0 | 1 |
| | 14 | 13 | 13.8 | 294.0 | 1 |
| | 15 | 16 | 18.9 | 462.0 | 1 |
| | 16 | 14 | 15.5 | 350.0 | 1 |
| | 17 | 16 | 19.9 | 497.0 | 1 |
| | 18 | 13 | 14.1 | 305.0 | 1 |
| | 19 | 14 | 15.2 | 342.0 | 1 |
| | 20 | 13 | 13.8 | 296.0 | 1 |
| | 21 | 15 | 17.1 | 403.0 | 1 |
| | 22 | 13 | 13.8 | 293.0 | 1 |
| | 23 | 16 | 19.8 | 493.0 | 1 |
| | 24 | 14 | 15.3 | 343.0 | 1 |
| | 25 | 13 | 14.5 | 317.0 | 1 |
| | 26 | 12 | 11.3 | 211.0 | 1 |
| | 27 | 15 | 17.3 | 409.0 | 1 |
| | 28 | 16 | 19.2 | 473.0 | 1 |
| | 29 | 13 | 14.2 | 308.0 | 1 |
| | 30 | 15 | 18.2 | 439.0 | 1 |
| | Detection Percentage | | | | 100% (> 60%) |

**Table 32. Statistical Performance Check – Radar Type 4, 5500 MHz**

## Statistical Performance Check – Radar Type 5, 5500 MHz

| Radar Type | Trial # | Pulses per Burst 8 to20 | Pulse Width 50 to 100 µsec | PRI (µsec) PRI 1000 to 2000 µsec | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 5 | 1 | 15 | *See table 1 | *See table 1 | 1 |
| | 2 | 8 | *See table 2 | *See table 2 | 1 |
| | 3 | 11 | *See table 3 | *See table 3 | 1 |
| | 4 | 20 | *See table 4 | *See table 4 | 1 |
| | 5 | 17 | *See table 5 | *See table 5 | 1 |
| | 6 | 14 | *See table 6 | *See table 6 | 1 |
| | 7 | 15 | *See table 7 | *See table 7 | 1 |
| | 8 | 12 | *See table 8 | *See table 8 | 1 |
| | 9 | 14 | *See table 9 | *See table 9 | 1 |
| | 10 | 8 | *See table 10 | *See table 10 | 1 |
| | 11 | 17 | *See table 11 | *See table 11 | 1 |
| | 12 | 19 | *See table 12 | *See table 12 | 1 |
| | 13 | 15 | *See table 13 | *See table 13 | 1 |
| | 14 | 12 | *See table 14 | *See table 14 | 1 |
| | 15 | 19 | *See table 15 | *See table 15 | 1 |
| | 16 | 14 | *See table 16 | *See table 16 | 1 |
| | 17 | 20 | *See table 17 | *See table 17 | 1 |
| | 18 | 12 | *See table 18 | *See table 18 | 1 |
| | 19 | 14 | *See table 19 | *See table 19 | 1 |
| | 20 | 12 | *See table 20 | *See table 20 | 1 |
| | 21 | 16 | *See table 21 | *See table 21 | 1 |
| | 22 | 12 | *See table 22 | *See table 22 | 1 |
| | 23 | 20 | *See table 23 | *See table 23 | 1 |
| | 24 | 14 | *See table 24 | *See table 24 | 1 |
| | 25 | 13 | *See table 25 | *See table 25 | 1 |
| | 26 | 8 | *See table 26 | *See table 26 | 1 |
| | 27 | 17 | *See table 27 | *See table 27 | 1 |
| | 28 | 19 | *See table 28 | *See table 28 | 1 |
| | 29 | 12 | *See table 29 | *See table 29 | 1 |
| | 30 | 18 | *See table 30 | *See table 30 | 1 |
| | **Detection Percentage** | | | | **100% (> 60%)** |

**Table 33. Statistical Performance Check – Radar Type 5, 5500 MHz**

Note: See Appendix for Bin 5 test data –Table 42 - Table 71.

## Statistical Performance Check – Radar Type 6, 5500 MHz

| Radar Type | Trial # | Frequency (MHz) | Pulses/Hop | Pulse Width (µsec) | PRI (µsec) | Detection |
|---|---|---|---|---|---|---|
| | | | | | | 1 = Yes, 0 = No |
| 6 | 1 | 5500 | 9 | 1 | 333 | 1 |
| | 2 | 5500 | 9 | 1 | 333 | 1 |
| | 3 | 5500 | 9 | 1 | 333 | 1 |
| | 4 | 5500 | 9 | 1 | 333 | 1 |
| | 5 | 5500 | 9 | 1 | 333 | 1 |
| | 6 | 5500 | 9 | 1 | 333 | 1 |
| | 7 | 5500 | 9 | 1 | 333 | 1 |
| | 8 | 5500 | 9 | 1 | 333 | 1 |
| | 9 | 5500 | 9 | 1 | 333 | 1 |
| | 10 | 5500 | 9 | 1 | 333 | 1 |
| | 11 | 5500 | 9 | 1 | 333 | 1 |
| | 12 | 5500 | 9 | 1 | 333 | 1 |
| | 13 | 5500 | 9 | 1 | 333 | 1 |
| | 14 | 5500 | 9 | 1 | 333 | 1 |
| | 15 | 5500 | 9 | 1 | 333 | 1 |
| | 16 | 5500 | 9 | 1 | 333 | 1 |
| | 17 | 5500 | 9 | 1 | 333 | 1 |
| | 18 | 5500 | 9 | 1 | 333 | 1 |
| | 19 | 5500 | 9 | 1 | 333 | 1 |
| | 20 | 5500 | 9 | 1 | 333 | 1 |
| | 21 | 5500 | 9 | 1 | 333 | 1 |
| | 22 | 5500 | 9 | 1 | 333 | 1 |
| | 23 | 5500 | 9 | 1 | 333 | 1 |
| | 24 | 5500 | 9 | 1 | 333 | 1 |
| | 25 | 5500 | 9 | 1 | 333 | 1 |
| | 26 | 5500 | 9 | 1 | 333 | 1 |
| | 27 | 5500 | 9 | 1 | 333 | 1 |
| | 28 | 5500 | 9 | 1 | 333 | 1 |
| | 29 | 5500 | 9 | 1 | 333 | 1 |
| | 30 | 5500 | 9 | 1 | 333 | 1 |
| | Detection Percentage | | | | | 100% (> 70%) |

**Table 34. Statistical Performance Check – Radar Type 6, 5500 MHz**

## Statistical Performance Check – Radar Type 1, 5510 MHz

| Radar Type | Trial # | Pulses per Burst | Pulse Width (µsec) | PRI (µsec) | Detection |
|---|---|---|---|---|---|
| | | | | | 1 = Yes, 0 = No |
| 1 | 1 | 18 | 1 | 1428 | 1 |
| | 2 | 18 | 1 | 1428 | 1 |
| | 3 | 18 | 1 | 1428 | 1 |
| | 4 | 18 | 1 | 1428 | 1 |
| | 5 | 18 | 1 | 1428 | 1 |
| | 6 | 18 | 1 | 1428 | 1 |
| | 7 | 18 | 1 | 1428 | 1 |
| | 8 | 18 | 1 | 1428 | 1 |
| | 9 | 18 | 1 | 1428 | 1 |
| | 10 | 18 | 1 | 1428 | 1 |
| | 11 | 18 | 1 | 1428 | 1 |
| | 12 | 18 | 1 | 1428 | 1 |
| | 13 | 18 | 1 | 1428 | 1 |
| | 14 | 18 | 1 | 1428 | 1 |
| | 15 | 18 | 1 | 1428 | 1 |
| | 16 | 18 | 1 | 1428 | 1 |
| | 17 | 18 | 1 | 1428 | 1 |
| | 18 | 18 | 1 | 1428 | 1 |
| | 19 | 18 | 1 | 1428 | 1 |
| | 20 | 18 | 1 | 1428 | 1 |
| | 21 | 18 | 1 | 1428 | 1 |
| | 22 | 18 | 1 | 1428 | 1 |
| | 23 | 18 | 1 | 1428 | 1 |
| | 24 | 18 | 1 | 1428 | 1 |
| | 25 | 18 | 1 | 1428 | 1 |
| | 26 | 18 | 1 | 1428 | 1 |
| | 27 | 18 | 1 | 1428 | 1 |
| | 28 | 18 | 1 | 1428 | 1 |
| | 29 | 18 | 1 | 1428 | 1 |
| | 30 | 18 | 1 | 1428 | 1 |
| | Detection Percentage | | | | 100% (> 60%) |

**Table 35. Statistical Performance Check – Radar Type 1, 5510 MHz**

## Statistical Performance Check – Radar Type 2, 5510 MHz

| Radar Type | Trial # | Pulse Width 1 to 5 µsec | PRI 150 to 230 µsec | Pulses per Burst 23 to 29 | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 2 | 1 | 3.2 | 195.0 | 26 | 1 |
| | 2 | 1.1 | 153.0 | 23 | 1 |
| | 3 | 2.1 | 172.0 | 24 | 1 |
| | 4 | 4.8 | 225.0 | 29 | 1 |
| | 5 | 3.9 | 208.0 | 28 | 1 |
| | 6 | 2.9 | 188.0 | 26 | 1 |
| | 7 | 3.2 | 194.0 | 26 | 1 |
| | 8 | 2.5 | 179.0 | 25 | 1 |
| | 9 | 3.1 | 193.0 | 26 | 1 |
| | 10 | 1.2 | 155.0 | 23 | 1 |
| | 11 | 3.9 | 207.0 | 27 | 1 |
| | 12 | 4.6 | 221.0 | 29 | 1 |
| | 13 | 3.2 | 194.0 | 26 | 1 |
| | 14 | 2.2 | 175.0 | 25 | 1 |
| | 15 | 4.5 | 220.0 | 29 | 1 |
| | 16 | 3.0 | 190.0 | 26 | 1 |
| | 17 | 5.0 | 229.0 | 29 | 1 |
| | 18 | 2.4 | 178.0 | 25 | 1 |
| | 19 | 2.9 | 188.0 | 26 | 1 |
| | 20 | 2.3 | 175.0 | 25 | 1 |
| | 21 | 3.7 | 204.0 | 27 | 1 |
| | 22 | 2.2 | 175.0 | 25 | 1 |
| | 23 | 4.9 | 228.0 | 29 | 1 |
| | 24 | 2.9 | 188.0 | 26 | 1 |
| | 25 | 2.5 | 181.0 | 25 | 1 |
| | 26 | 1.1 | 153.0 | 23 | 1 |
| | 27 | 3.8 | 206.0 | 27 | 1 |
| | 28 | 4.7 | 223.0 | 29 | 1 |
| | 29 | 2.4 | 179.0 | 25 | 1 |
| | 30 | 4.2 | 214.0 | 28 | 1 |
| | **Detection Percentage** | | | | **100% ( >60%)** |

**Table 36. Statistical Performance Check – Radar Type 2, 5510 MHz**

## Statistical Performance Check – Radar Type 3, 5510 MHz

| Radar Type | Trial # | Pulses per Burst | Pulse Width 6 to 10 µsec | PRI (µsec) PRI 200 to 500 µsec | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 3 | 1 | 17 | 8.2 | 367.0 | 1 |
| | 2 | 16 | 6.1 | 211.0 | 1 |
| | 3 | 16 | 7.1 | 283.0 | 1 |
| | 4 | 18 | 9.8 | 480.0 | 1 |
| | 5 | 18 | 8.9 | 416.0 | 1 |
| | 6 | 17 | 7.9 | 343.0 | 1 |
| | 7 | 17 | 8.2 | 364.0 | 1 |
| | 8 | 17 | 7.5 | 310.0 | 1 |
| | 9 | 17 | 8.1 | 361.0 | 1 |
| | 10 | 16 | 6.2 | 219.0 | 1 |
| | 11 | 18 | 8.9 | 415.0 | 1 |
| | 12 | 18 | 9.6 | 467.0 | 1 |
| | 13 | 17 | 8.2 | 366.0 | 1 |
| | 14 | 16 | 7.2 | 294.0 | 1 |
| | 15 | 18 | 9.5 | 462.0 | 1 |
| | 16 | 17 | 8.0 | 350.0 | 1 |
| | 17 | 18 | 10.0 | 497.0 | 1 |
| | 18 | 17 | 7.4 | 305.0 | 1 |
| | 19 | 17 | 7.9 | 342.0 | 1 |
| | 20 | 16 | 7.3 | 296.0 | 1 |
| | 21 | 18 | 8.7 | 403.0 | 1 |
| | 22 | 16 | 7.2 | 293.0 | 1 |
| | 23 | 18 | 9.9 | 493.0 | 1 |
| | 24 | 17 | 7.9 | 343.0 | 1 |
| | 25 | 17 | 7.5 | 317.0 | 1 |
| | 26 | 16 | 6.1 | 211.0 | 1 |
| | 27 | 18 | 8.8 | 409.0 | 1 |
| | 28 | 18 | 9.7 | 473.0 | 1 |
| | 29 | 17 | 7.4 | 308.0 | 1 |
| | 30 | 18 | 9.2 | 439.0 | 1 |
| | Detection Percentage | | | | 100% (> 60%) |

**Table 37. Statistical Performance Check – Radar Type 3, 5510 MHz**

## Statistical Performance Check – Radar Type 4, 5510 MHz

| Radar Type | Trial # | Pulses per Burst | Pulse Width 11 to 20 µsec | PRI (µsec) PRI 200 to 500 µsec | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 4 | 1 | 14 | 16.0 | 367.0 | 1 |
| | 2 | 12 | 11.3 | 211.0 | 1 |
| | 3 | 13 | 13.5 | 283.0 | 1 |
| | 4 | 16 | 19.4 | 480.0 | 1 |
| | 5 | 15 | 17.5 | 416.0 | 1 |
| | 6 | 14 | 15.3 | 343.0 | 1 |
| | 7 | 14 | 15.9 | 364.0 | 1 |
| | 8 | 13 | 14.3 | 310.0 | 1 |
| | 9 | 14 | 15.8 | 361.0 | 1 |
| | 10 | 12 | 11.5 | 219.0 | 1 |
| | 11 | 15 | 17.4 | 415.0 | 1 |
| | 12 | 16 | 19.0 | 467.0 | 1 |
| | 13 | 14 | 16.0 | 366.0 | 1 |
| | 14 | 13 | 13.8 | 294.0 | 1 |
| | 15 | 16 | 18.9 | 462.0 | 1 |
| | 16 | 14 | 15.5 | 350.0 | 1 |
| | 17 | 16 | 19.9 | 497.0 | 1 |
| | 18 | 13 | 14.1 | 305.0 | 1 |
| | 19 | 14 | 15.2 | 342.0 | 1 |
| | 20 | 13 | 13.8 | 296.0 | 1 |
| | 21 | 15 | 17.1 | 403.0 | 1 |
| | 22 | 13 | 13.8 | 293.0 | 1 |
| | 23 | 16 | 19.8 | 493.0 | 1 |
| | 24 | 14 | 15.3 | 343.0 | 1 |
| | 25 | 13 | 14.5 | 317.0 | 1 |
| | 26 | 12 | 11.3 | 211.0 | 1 |
| | 27 | 15 | 17.3 | 409.0 | 1 |
| | 28 | 16 | 19.2 | 473.0 | 1 |
| | 29 | 13 | 14.2 | 308.0 | 1 |
| | 30 | 15 | 18.2 | 439.0 | 1 |
| | Detection Percentage | | | | 100% (> 60%) |

**Table 38. Statistical Performance Check – Radar Type 4, 5510 MHz**

## Statistical Performance Check – Radar Type 5, 5510 MHz

| Radar Type | Trial # | Pulses per Burst 8 to20 | Pulse Width 50 to 100 µsec | PRI (µsec) PRI 1000 to 2000 µsec | Detection 1 = Yes, 0 = No |
|---|---|---|---|---|---|
| 5 | 1 | 15 | *See table 1 | *See table 1 | 1 |
| | 2 | 8 | *See table 2 | *See table 2 | 1 |
| | 3 | 11 | *See table 3 | *See table 3 | 1 |
| | 4 | 20 | *See table 4 | *See table 4 | 1 |
| | 5 | 17 | *See table 5 | *See table 5 | 1 |
| | 6 | 14 | *See table 6 | *See table 6 | 1 |
| | 7 | 15 | *See table 7 | *See table 7 | 1 |
| | 8 | 12 | *See table 8 | *See table 8 | 1 |
| | 9 | 14 | *See table 9 | *See table 9 | 1 |
| | 10 | 8 | *See table 10 | *See table 10 | 1 |
| | 11 | 17 | *See table 11 | *See table 11 | 1 |
| | 12 | 19 | *See table 12 | *See table 12 | 1 |
| | 13 | 15 | *See table 13 | *See table 13 | 1 |
| | 14 | 12 | *See table 14 | *See table 14 | 1 |
| | 15 | 19 | *See table 15 | *See table 15 | 1 |
| | 16 | 14 | *See table 16 | *See table 16 | 1 |
| | 17 | 20 | *See table 17 | *See table 17 | 1 |
| | 18 | 12 | *See table 18 | *See table 18 | 1 |
| | 19 | 14 | *See table 19 | *See table 19 | 1 |
| | 20 | 12 | *See table 20 | *See table 20 | 1 |
| | 21 | 16 | *See table 21 | *See table 21 | 1 |
| | 22 | 12 | *See table 22 | *See table 22 | 1 |
| | 23 | 20 | *See table 23 | *See table 23 | 1 |
| | 24 | 14 | *See table 24 | *See table 24 | 1 |
| | 25 | 13 | *See table 25 | *See table 25 | 1 |
| | 26 | 8 | *See table 26 | *See table 26 | 1 |
| | 27 | 17 | *See table 27 | *See table 27 | 1 |
| | 28 | 19 | *See table 28 | *See table 28 | 1 |
| | 29 | 12 | *See table 29 | *See table 29 | 1 |
| | 30 | 18 | *See table 30 | *See table 30 | 1 |
| | **Detection Percentage** | | | | **100% (> 60%)** |

**Table 39. Statistical Performance Check – Radar Type 5, 5510 MHz**

Note: See Appendix for Bin 5 test data – Table 72 - Table 101.

## Statistical Performance Check – Radar Type 6, 5510 MHz

| Radar Type | Trial # | Frequency (MHz) | Pulses/Hop | Pulse Width (µsec) | PRI (µsec) | Detection |
|---|---|---|---|---|---|---|
| | | | | | | 1 = Yes, 0 = No |
| 6 | 1 | 5500 | 9 | 1 | 333 | 1 |
| | 2 | 5500 | 9 | 1 | 333 | 1 |
| | 3 | 5500 | 9 | 1 | 333 | 1 |
| | 4 | 5500 | 9 | 1 | 333 | 1 |
| | 5 | 5500 | 9 | 1 | 333 | 1 |
| | 6 | 5500 | 9 | 1 | 333 | 1 |
| | 7 | 5500 | 9 | 1 | 333 | 1 |
| | 8 | 5500 | 9 | 1 | 333 | 1 |
| | 9 | 5500 | 9 | 1 | 333 | 1 |
| | 10 | 5500 | 9 | 1 | 333 | 1 |
| | 11 | 5500 | 9 | 1 | 333 | 1 |
| | 12 | 5500 | 9 | 1 | 333 | 1 |
| | 13 | 5500 | 9 | 1 | 333 | 1 |
| | 14 | 5500 | 9 | 1 | 333 | 1 |
| | 15 | 5500 | 9 | 1 | 333 | 1 |
| | 16 | 5500 | 9 | 1 | 333 | 1 |
| | 17 | 5500 | 9 | 1 | 333 | 1 |
| | 18 | 5500 | 9 | 1 | 333 | 1 |
| | 19 | 5500 | 9 | 1 | 333 | 1 |
| | 20 | 5500 | 9 | 1 | 333 | 1 |
| | 21 | 5500 | 9 | 1 | 333 | 1 |
| | 22 | 5500 | 9 | 1 | 333 | 1 |
| | 23 | 5500 | 9 | 1 | 333 | 1 |
| | 24 | 5500 | 9 | 1 | 333 | 1 |
| | 25 | 5500 | 9 | 1 | 333 | 1 |
| | 26 | 5500 | 9 | 1 | 333 | 1 |
| | 27 | 5500 | 9 | 1 | 333 | 1 |
| | 28 | 5500 | 9 | 1 | 333 | 1 |
| | 29 | 5500 | 9 | 1 | 333 | 1 |
| | 30 | 5500 | 9 | 1 | 333 | 1 |
| | Detection Percentage | | | | | 100% (> 70%) |

**Table 40. Statistical Performance Check – Radar Type 6, 5510 MHz**

# VII. Test Equipment

## Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

| MET ASSET # | EQUIPMENT | MANUFACTURER | MODEL | LAST CAL DATE | CAL DUE DATE |
|---|---|---|---|---|---|
| 1T4771 | PSA SPECTRUM ANALYZER | AGILENT TECHNOLOGIES | E4446A | 02/15/2013 | 08/15/2014 |
| 1T4409 | EMI RECEIVER | ROHDE & SCHWARZ | ESIB7 | 7/16/2012 | 7/16/2014 |
| 1T4751 | ANTENNA - BILOG | SUNOL SCIENCES | JB6 | 1/8/2013 | 7/8/2014 |
| 1T4483 | ANTENNA; HORN | ETS-LINDGREN | 3117 | 2/28/2014 | 8/28/2015 |
| 1T4745 | ANTENNA, HORN | ETS-LINDGREN | 3116 | 11/14/2013 | 11/14/2014 |
| 1T4300A | SEMI-ANECHOIC CHAMBER # 1 (FCC) | EMC TEST SYSTEMS | NONE | 07/24/2012 | 07/24/2015 |
| 1T4442 | PRE-AMPLIFIER, MICROWAVE | MITEQ | AFS42-01001800-30-10P | SEE NOTE | |
| 1T4742 | PRE-AMPLIFIER, HIGH-FREQUENCY | MITEQ | AFS42-01001800-30-10P-42 | SEE NOTE | |
| 1T4149 | HIGH-FREQUENCY ANECHOIC CHAMBER | RAY-PROOF | 81 | SEE NOTE | |
| 1T4871 | DFS-BOX VECTOR SIGNAL GENERATOR | AGILENT | N5172B | SEE NOTE | |

**Table 41. Test Equipment List**

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

# VIII. Certification & User's Manual Information

# Certification & User's Manual Information

## A. Certification Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart I — Marketing of Radio frequency devices:

**§ 2.801 Radio-frequency device defined.**

As used in this part, a radio-frequency device is any device which in its operation is capable of Emitting radio-frequency energy by radiation, conduction, or other means. Radio- frequency devices include, but are not limited to:

(a) The various types of radio communication transmitting devices described throughout this chapter.

*(b) The incidental, unintentional and intentional radiators defined in Part 15 of this chapter.*

(c) The industrial, scientific, and medical equipment described in Part 18 of this chapter.

(d) Any part or component thereof which in use emits radio-frequency energy by radiation, conduction, or other means.

**§ 2.803 Marketing of radio frequency devices prior to equipment authorization.**

(a) Except as provided elsewhere in this chapter, no person shall sell or lease, or offer for sale or lease (including advertising for sale or lease), or import, ship or distribute for the purpose of selling or leasing or offering for sale or lease, any radio frequency device unless:

(1) In the case of a device subject to certification, such device has been authorized by the Commission in accordance with the rules in this chapter and is properly identified and labeled as required by §2.925 and other relevant sections in this chapter; or

(2) In the case of a device that is not required to have a grant of equipment authorization issued by the Commission, but which must comply with the specified technical standards prior to use, such device also complies with all applicable administrative (including verification of the equipment or authorization under a Declaration of Conformity, where required), technical, labeling and identification requirements specified in this chapter.

(d) Notwithstanding the provisions of paragraph (a) of this section, the offer for sale solely to business, commercial, industrial, scientific or medical users (but not an offer for sale to other parties or to end users located in a residential environment) of a radio frequency device that is in the conceptual, developmental, design or pre-production stage is permitted prior to equipment authorization or, for devices not subject to the equipment authorization requirements, prior to a determination of compliance with the applicable technical requirements *provided* that the prospective buyer is advised in writing at the time of the offer for sale that the equipment is subject to the FCC rules and that the equipment will comply with the appropriate rules before delivery to the buyer or to centers of distribution.

(e)(1) Notwithstanding the provisions of paragraph (a) of this section, prior to equipment authorization or determination of compliance with the applicable technical requirements any radio frequency device may be operated, but not marketed, for the following purposes and under the following conditions:

*(i) Compliance testing;*

(ii) Demonstrations at a trade show provided the notice contained in paragraph (c) of this section is displayed in a conspicuous location on, or immediately adjacent to, the device;

(iii) Demonstrations at an exhibition conducted at a business, commercial, industrial, scientific or medical location, but excluding locations in a residential environment, provided the notice contained in paragraphs (c) or (d) of this section, as appropriate, is displayed in a conspicuous location on, or immediately adjacent to, the device;

(iv) Evaluation of product performance and determination of customer acceptability, provided such operation takes place at the manufacturer's facilities during developmental, design or pre-production states; or

(v) Evaluation of product performance and determination of customer acceptability where customer acceptability of a radio frequency device cannot be determined at the manufacturer's facilities because of size or unique capability of the device, provided the device is operated at a business, commercial, industrial, scientific or medical user's site, but not at a residential site, during the development, design or pre-production stages.

(e)(2) For the purpose of paragraphs (e)(1)(iv) and (e)(1)(v) of this section, the term *manufacturer's facilities* includes the facilities of the party responsible for compliance with the regulations and the manufacturer's premises, as well as the facilities of other entities working under the authorization of the responsible party in connection with the development and manufacture, but not the marketing, of the equipment.

(f) For radio frequency devices subject to verification and sold solely to business, commercial, industrial, scientific and medical users (excluding products sold to other parties or for operation in a residential environment), parties responsible for verification of the devices shall have the option of ensuring compliance with the applicable technical specifications of this chapter at each end user's location after installation, provided that the purchase or lease agreement includes a proviso that such a determination of compliance be made and is the responsibility of the party responsible for verification of the equipment.

# Certification & User's Manual Information

**The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart J — Equipment Authorization Procedures:**

**§ 2.901 Basis and Purpose**

(a) In order to carry out its responsibilities under the Communications Act and the various treaties and international regulations, and in order to promote efficient use of the radio spectrum, the Commission has developed technical standards for radio frequency equipment and parts or components thereof. The technical standards applicable to individual types of equipment are found in that part of the rules governing the service wherein the equipment is to be operated.[1] *In addition to the technical standards provided, the rules governing the service may require that such equipment be verified by the manufacturer or importer*, be authorized under a Declaration of Conformity, or receive an equipment authorization from the Commission by one of the following procedures: certification or registration.

(b) The following sections describe the verification procedure, the procedure for a Declaration of Conformity, and the procedures to be followed in obtaining certification from the Commission and the conditions attendant to such a grant.

**§ 2.907 Certification.**

(a) Certification is an equipment authorization issued by the Commission, based on representation and test data submitted by the applicant.

(b) Certification attaches to all units subsequently marketed by the grantee which are identical (see Section 2.908) to the sample tested except for permissive changes or other variations authorized by the Commission pursuant to Section 2.1043.

[1] In this case, the equipment is subject to the rules of Part 15. More specifically, the equipment falls under Subpart B (of Part 15), which deals with unintentional radiators.

# Certification & User's Manual Information

**§ 2.948 Description of measurement facilities.**

(a) Each party making measurements of equipment that is subject to an equipment authorization under Part 15 or Part 18 of this chapter, regardless of whether the measurements are filed with the Commission or kept on file by the party responsible for compliance of equipment marketed within the U.S. or its possessions, shall compile a description of the measurement facilities employed.

(1) If the measured equipment is subject to the verification procedure, the description of the measurement facilities shall be retained by the party responsible for verification of the equipment.

*(i) If the equipment is verified through measurements performed by an independent laboratory, it is acceptable for the party responsible for verification of the equipment to rely upon the description of the measurement facilities retained by or placed on file with the Commission by that laboratory. In this situation, the party responsible for the verification of the equipment is not required to retain a duplicate copy of the description of the measurement facilities.*

(ii) If the equipment is verified based on measurements performed at the installation site of the equipment, no specific site calibration data is required. It is acceptable to retain the description of the measurement facilities at the site at which the measurements were performed.

(2) If the equipment is to be authorized by the Commission under the certification procedure, the description of the measurement facilities shall be filed with the Commission's Laboratory in Columbia, Maryland. The data describing the measurement facilities need only be filed once but must be updated as changes are made to the measurement facilities or as otherwise described in this section. At least every three years, the organization responsible for filing the data with the Commission shall certify that the data on file is current.

# Certification & User's Manual Information

## Label and User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart A — General:

**§ 15.19 Labeling requirements.**

*(a) In addition to the requirements in Part 2 of this chapter, a device subject to certification or verification shall be labeled as follows:*

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under Part 73 of this chapter, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

*This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

(5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

**§ 15.21 Information to user.**

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Verification & User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B — Unintentional Radiators:

**§ 15.105 Information to the user.**

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and receiver.

– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

– Consult the dealer or an experienced radio/TV technician for help.

# IX. Appendix

## Bin 5 Table Data, 5500 MHz

| Table 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 636623 | 77.8 | 13 | 2 | 1556 | 1038 | - |
| 1 | 32666 | 51.9 | 5 | 1 | 1276 | - | - |
| 2 | 226196 | 63.8 | 9 | 1 | 1932 | - | - |
| 3 | 418278 | 96.6 | 19 | 3 | 1718 | 1475 | 1544 |
| 4 | 611745 | 85.9 | 16 | 3 | 1368 | 1535 | 1064 |
| 5 | 8779 | 73.7 | 12 | 2 | 1715 | 1887 | - |
| 6 | 202117 | 77.2 | 13 | 2 | 1552 | 1314 | - |
| 7 | 395198 | 68.4 | 10 | 2 | 1870 | 1500 | - |
| 8 | 588430 | 76.7 | 13 | 2 | 1988 | 1348 | - |
| 9 | 783475 | 53.2 | 6 | 1 | 1473 | - | - |
| 10 | 177982 | 85.7 | 16 | 3 | 1318 | 1676 | 1310 |
| 11 | 370714 | 94.3 | 19 | 3 | 1973 | 1477 | 1390 |
| 12 | 565059 | 77.6 | 13 | 2 | 1038 | 1693 | - |
| 13 | 759205 | 65.7 | 10 | 1 | 1908 | - | - |
| 14 | 154116 | 93.5 | 18 | 3 | 1361 | 1793 | 1639 |

**Table 42. In-Service Monitoring, Bin 5, 5500 MHz, Table 1**

| Table 2 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 653267 | 75 | 12 | 2 | 1766 | 1074 | - |
| 1 | 1015342 | 99.4 | 20 | 3 | 1826 | 1363 | 1174 |
| 2 | 1379673 | 67.4 | 10 | 2 | 1506 | 1129 | - |
| 3 | 245381 | 73.6 | 12 | 2 | 1994 | 1155 | - |
| 4 | 609211 | 65.9 | 10 | 1 | 1190 | - | - |
| 5 | 970315 | 83.8 | 15 | 3 | 1600 | 1640 | 1656 |
| 6 | 1335720 | 65.5 | 9 | 1 | 1761 | - | - |
| 7 | 200392 | 98.6 | 20 | 3 | 1864 | 1409 | 1907 |

**Table 43. In-Service Monitoring, Bin 5, 5500 MHz, Table 2**

| Table 3 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 409465 | 73.8 | 12 | 2 | 1639 | 1970 | - |
| 1 | 673541 | 69.5 | 11 | 2 | 1301 | 1709 | - |
| 2 | 938405 | 51.9 | 5 | 1 | 1833 | - | - |
| 3 | 113243 | 84.6 | 16 | 3 | 1346 | 1359 | 1246 |
| 4 | 376706 | 95.4 | 19 | 3 | 1066 | 1801 | 1542 |
| 5 | 640774 | 68 | 10 | 2 | 1679 | 1783 | - |
| 6 | 903746 | 89.6 | 17 | 3 | 1637 | 1006 | 1743 |
| 7 | 80813 | 81.9 | 15 | 2 | 1426 | 1951 | - |
| 8 | 343904 | 88.3 | 17 | 3 | 1812 | 1727 | 1953 |
| 9 | 609276 | 53.7 | 6 | 1 | 1695 | - | - |
| 10 | 870628 | 91.3 | 18 | 3 | 1995 | 1858 | 1355 |

**Table 44. In-Service Monitoring, Bin 5, 5500 MHz, Table 3**

| Table 4 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 26552 | 68.1 | 10 | 2 | 1317 | 1127 | - |
| 1 | 171871 | 58.7 | 7 | 1 | 1075 | - | - |
| 2 | 316116 | 75.3 | 13 | 2 | 1671 | 1317 | - |
| 3 | 461891 | 56.4 | 7 | 1 | 1718 | - | - |
| 4 | 8664 | 99.7 | 20 | 3 | 1527 | 1631 | 1788 |
| 5 | 153929 | 57.7 | 7 | 1 | 1269 | - | - |
| 6 | 299079 | 59.5 | 8 | 1 | 1392 | - | - |
| 7 | 442752 | 80 | 14 | 2 | 1491 | 1932 | - |
| 8 | 587204 | 82 | 15 | 2 | 1934 | 1730 | - |
| 9 | 135744 | 82.8 | 15 | 2 | 1467 | 1116 | - |
| 10 | 279781 | 88 | 17 | 3 | 1108 | 1707 | 1589 |
| 11 | 424346 | 93.2 | 18 | 3 | 1315 | 1373 | 1555 |
| 12 | 569553 | 70.4 | 11 | 2 | 1593 | 1899 | - |
| 13 | 117598 | 95.3 | 19 | 3 | 1229 | 1812 | 1052 |
| 14 | 262325 | 81.9 | 15 | 2 | 1683 | 1955 | - |
| 15 | 405781 | 98.5 | 20 | 3 | 1946 | 1977 | 1445 |
| 16 | 553711 | 65 | 9 | 1 | 1353 | - | - |
| 17 | 99809 | 85.4 | 16 | 3 | 1515 | 1218 | 1284 |
| 18 | 244192 | 91.6 | 18 | 3 | 1576 | 1751 | 1083 |
| 19 | 390174 | 67.3 | 10 | 2 | 1014 | 1047 | - |

**Table 45. In-Service Monitoring, Bin 5, 5500 MHz, Table 4**

| Table 5 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 628798 | 67.9 | 10 | 2 | 1997 | 1368 | - |
| 1 | 96903 | 62.3 | 8 | 1 | 1616 | - | - |
| 2 | 267849 | 53.3 | 6 | 1 | 1251 | - | - |
| 3 | 437286 | 90 | 17 | 3 | 1496 | 1016 | 1081 |
| 4 | 608043 | 77.1 | 13 | 2 | 1260 | 1836 | - |
| 5 | 75592 | 83.9 | 15 | 3 | 1587 | 1287 | 1269 |
| 6 | 245640 | 89.1 | 17 | 3 | 1040 | 1945 | 1574 |
| 7 | 416504 | 81.8 | 15 | 2 | 1484 | 1774 | - |
| 8 | 588726 | 50.3 | 5 | 1 | 1087 | - | - |
| 9 | 54535 | 87.1 | 16 | 3 | 1908 | 1475 | 1949 |
| 10 | 225137 | 71.3 | 11 | 2 | 1834 | 1325 | - |
| 11 | 395073 | 97.5 | 20 | 3 | 1416 | 1046 | 1579 |
| 12 | 565234 | 90.6 | 17 | 3 | 1419 | 1512 | 1182 |
| 13 | 33645 | 86.3 | 16 | 3 | 1541 | 1359 | 1624 |
| 14 | 203835 | 97.6 | 20 | 3 | 1575 | 1267 | 1378 |
| 15 | 373694 | 84.7 | 16 | 3 | 1187 | 1979 | 1647 |
| 16 | 543192 | 99.7 | 20 | 3 | 1735 | 1795 | 1972 |

**Table 46. In-Service Monitoring, Bin 5, 5500 MHz, Table 5**

| Table 6 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 15441 | 92.9 | 18 | 3 | 1423 | 1118 | 1358 |
| 1 | 222649 | 67.7 | 10 | 2 | 1689 | 1176 | - |
| 2 | 430620 | 65.8 | 10 | 1 | 1312 | - | - |
| 3 | 637993 | 56.3 | 7 | 1 | 1571 | - | - |
| 4 | 845422 | 53.7 | 6 | 1 | 1646 | - | - |
| 5 | 196574 | 83.5 | 15 | 3 | 1802 | 1804 | 1663 |
| 6 | 405116 | 65.8 | 10 | 1 | 1177 | - | - |
| 7 | 610836 | 85.9 | 16 | 3 | 1540 | 1100 | 1162 |
| 8 | 819293 | 76.3 | 13 | 2 | 1043 | 1199 | - |
| 9 | 171555 | 81.5 | 15 | 2 | 1205 | 1918 | - |
| 10 | 378184 | 89.4 | 17 | 3 | 1599 | 1571 | 1077 |
| 11 | 587063 | 63.4 | 9 | 1 | 1295 | - | - |
| 12 | 793149 | 69.6 | 11 | 2 | 1228 | 1665 | - |
| 13 | 145983 | 74.5 | 12 | 2 | 1695 | 1775 | - |

**Table 47. In-Service Monitoring, Bin 5, 5500 MHz, Table 6**

| Table 7 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 328985 | 96.6 | 19 | 3 | 1567 | 1387 | 1506 |
| 1 | 522498 | 96.7 | 19 | 3 | 1127 | 1354 | 1112 |
| 2 | 714615 | 86.5 | 16 | 3 | 1505 | 1526 | 1715 |
| 3 | 112383 | 73.3 | 12 | 2 | 1968 | 1729 | - |
| 4 | 306212 | 55.8 | 6 | 1 | 1872 | - | - |
| 5 | 500163 | 55.4 | 6 | 1 | 1266 | - | - |
| 6 | 690552 | 85.3 | 16 | 3 | 1849 | 1867 | 1382 |
| 7 | 88623 | 79.4 | 14 | 2 | 1739 | 1698 | - |
| 8 | 282519 | 65.7 | 10 | 1 | 1447 | - | - |
| 9 | 475743 | 68.6 | 10 | 2 | 1034 | 1167 | - |
| 10 | 669102 | 77.7 | 13 | 2 | 1216 | 1143 | - |
| 11 | 64844 | 79.6 | 14 | 2 | 1779 | 1441 | - |
| 12 | 257701 | 94.9 | 19 | 3 | 1818 | 1196 | 1400 |
| 13 | 452394 | 61.4 | 8 | 1 | 1345 | - | - |
| 14 | 643963 | 90.6 | 17 | 3 | 1825 | 1130 | 1024 |

**Table 48. In-Service Monitoring, Bin 5, 5500 MHz, Table 7**

| Table 8 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 51432 | 52.6 | 5 | 1 | 1482 | - | - |
| 1 | 292922 | 84.1 | 15 | 3 | 1539 | 1004 | 1258 |
| 2 | 534275 | 97.7 | 20 | 3 | 1295 | 1677 | 1308 |
| 3 | 776241 | 97.3 | 20 | 3 | 1064 | 1035 | 1575 |
| 4 | 21547 | 98.8 | 20 | 3 | 1449 | 1076 | 1472 |
| 5 | 263377 | 72.2 | 12 | 2 | 1334 | 1651 | - |
| 6 | 504945 | 67.6 | 10 | 2 | 1752 | 1705 | - |
| 7 | 746790 | 75.7 | 13 | 2 | 1696 | 1558 | - |
| 8 | 990242 | 60.9 | 8 | 1 | 1531 | - | - |
| 9 | 234006 | 64.2 | 9 | 1 | 1218 | - | - |
| 10 | 475264 | 78.8 | 14 | 2 | 1661 | 1608 | - |
| 11 | 716245 | 87.5 | 16 | 3 | 1351 | 1243 | 1728 |

**Table 49. In-Service Monitoring, Bin 5, 5500 MHz, Table 8**

| Table 9 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 822851 | 54.1 | 6 | 1 | 1687 | - | - |
| 1 | 174900 | 50.7 | 5 | 1 | 1538 | - | - |
| 2 | 382242 | 52.3 | 5 | 1 | 1917 | - | - |
| 3 | 588103 | 99.8 | 20 | 3 | 1104 | 1181 | 1891 |
| 4 | 795565 | 68.4 | 10 | 2 | 1838 | 1705 | - |
| 5 | 149063 | 80.8 | 14 | 2 | 1390 | 1729 | - |
| 6 | 356723 | 62.5 | 9 | 1 | 1844 | - | - |
| 7 | 563598 | 74.8 | 12 | 2 | 1609 | 1087 | - |
| 8 | 772302 | 50.8 | 5 | 1 | 1062 | - | - |
| 9 | 123800 | 54 | 6 | 1 | 1389 | - | - |
| 10 | 331350 | 63 | 9 | 1 | 1382 | - | - |
| 11 | 536393 | 91.8 | 18 | 3 | 2000 | 1593 | 1768 |
| 12 | 745583 | 79.3 | 14 | 2 | 1067 | 1307 | - |
| 13 | 98268 | 64.3 | 9 | 1 | 1107 | - | - |

**Table 50. In-Service Monitoring, Bin 5, 5500 MHz, Table 9**

| Table 10 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 535571 | 63.4 | 9 | 1 | 1166 | - | - |
| 1 | 898917 | 52 | 5 | 1 | 1446 | - | - |
| 2 | 1259697 | 97.2 | 20 | 3 | 1696 | 1650 | 1267 |
| 3 | 127089 | 78.7 | 14 | 2 | 1600 | 1807 | - |
| 4 | 489947 | 74.2 | 12 | 2 | 1822 | 1933 | - |
| 5 | 852558 | 88.7 | 17 | 3 | 1655 | 1015 | 1568 |
| 6 | 1217152 | 54.3 | 6 | 1 | 1991 | - | - |
| 7 | 82300 | 95.4 | 19 | 3 | 1772 | 1149 | 1932 |

**Table 51. In-Service Monitoring, Bin 5, 5500 MHz, Table 10**

| Table 11 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 209176 | 73.7 | 12 | 2 | 1394 | 1559 | - |
| 1 | 378577 | 97.4 | 20 | 3 | 1240 | 1768 | 1946 |
| 2 | 548594 | 91.7 | 18 | 3 | 1924 | 1909 | 1096 |
| 3 | 17727 | 66.2 | 10 | 1 | 1609 | - | - |
| 4 | 188261 | 70.8 | 11 | 2 | 1495 | 1142 | - |
| 5 | 359227 | 52.3 | 5 | 1 | 1838 | - | - |
| 6 | 529350 | 78.9 | 14 | 2 | 1662 | 1014 | - |
| 7 | 699817 | 70.9 | 11 | 2 | 1584 | 1175 | - |
| 8 | 167165 | 75.6 | 13 | 2 | 1421 | 1580 | - |
| 9 | 338419 | 59.1 | 7 | 1 | 1371 | - | - |
| 10 | 508194 | 77 | 13 | 2 | 1471 | 1410 | - |
| 11 | 678428 | 67.9 | 10 | 2 | 1532 | 1624 | - |
| 12 | 146139 | 81.2 | 14 | 2 | 1237 | 1899 | - |
| 13 | 316473 | 78.7 | 14 | 2 | 1570 | 1797 | - |
| 14 | 488365 | 63.3 | 9 | 1 | 1188 | - | - |
| 15 | 657474 | 68.9 | 11 | 2 | 1593 | 1521 | - |
| 16 | 125512 | 59.3 | 7 | 1 | 1072 | - | - |

**Table 52. In-Service Monitoring, Bin 5, 5500 MHz, Table 11**

| Table 12 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 264001 | 98.9 | 20 | 3 | 1619 | 1232 | 1068 |
| 1 | 417231 | 82.3 | 15 | 2 | 1198 | 1209 | - |
| 2 | 567901 | 86.7 | 16 | 3 | 1828 | 1541 | 1162 |
| 3 | 92954 | 89.7 | 17 | 3 | 1243 | 1538 | 1600 |
| 4 | 245112 | 98.6 | 20 | 3 | 1040 | 1773 | 1458 |
| 5 | 397977 | 71.1 | 11 | 2 | 1971 | 1159 | - |
| 6 | 551457 | 55.9 | 6 | 1 | 1918 | - | - |
| 7 | 74391 | 67.9 | 10 | 2 | 1071 | 1841 | - |
| 8 | 226484 | 84.4 | 16 | 3 | 1147 | 1411 | 1401 |
| 9 | 380077 | 58.8 | 7 | 1 | 1680 | - | - |
| 10 | 532981 | 65.6 | 9 | 1 | 1522 | - | - |
| 11 | 55531 | 78.5 | 14 | 2 | 1864 | 1937 | - |
| 12 | 208094 | 82.3 | 15 | 2 | 1003 | 1870 | - |
| 13 | 359800 | 90.1 | 17 | 3 | 1376 | 1127 | 1721 |
| 14 | 512124 | 90.2 | 17 | 3 | 1504 | 1088 | 1423 |
| 15 | 36816 | 83.1 | 15 | 2 | 1524 | 1605 | - |
| 16 | 189697 | 58.8 | 7 | 1 | 1594 | - | - |
| 17 | 341619 | 77 | 13 | 2 | 1818 | 1374 | - |
| 18 | 495472 | 55 | 6 | 1 | 1349 | - | - |

**Table 53. In-Service Monitoring, Bin 5, 5500 MHz, Table 12**

| Table 13 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 22912 | 58.1 | 7 | 1 | 1881 | - | - |
| 1 | 216607 | 52.1 | 5 | 1 | 1417 | - | - |
| 2 | 410438 | 59.9 | 8 | 1 | 1127 | - | - |
| 3 | 603580 | 60.2 | 8 | 1 | 1934 | - | - |
| 4 | 793918 | 95.9 | 19 | 3 | 1812 | 1491 | 1852 |
| 5 | 192196 | 79.9 | 14 | 2 | 1781 | 1930 | - |
| 6 | 385525 | 78.5 | 14 | 2 | 1410 | 1880 | - |
| 7 | 580331 | 53.8 | 6 | 1 | 1116 | - | - |
| 8 | 773468 | 64.7 | 9 | 1 | 1754 | - | - |
| 9 | 168902 | 61.4 | 8 | 1 | 1373 | - | - |
| 10 | 361910 | 83.2 | 15 | 2 | 1662 | 1218 | - |
| 11 | 554151 | 84.7 | 16 | 3 | 1554 | 1548 | 1336 |
| 12 | 746788 | 88.7 | 17 | 3 | 1274 | 1825 | 1672 |
| 13 | 144765 | 78.3 | 14 | 2 | 1788 | 1116 | - |
| 14 | 338082 | 69.3 | 11 | 2 | 1819 | 1095 | - |

**Table 54. In-Service Monitoring, Bin 5, 5500 MHz, Table 13**

| Table 14 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 664476 | 75.3 | 13 | 2 | 1954 | 1350 | - |
| 1 | 907451 | 56.3 | 7 | 1 | 1935 | - | - |
| 2 | 151297 | 67.7 | 10 | 2 | 1366 | 1567 | - |
| 3 | 393839 | 55.6 | 6 | 1 | 1100 | - | - |
| 4 | 634772 | 75.2 | 13 | 2 | 1699 | 1492 | - |
| 5 | 876467 | 76.3 | 13 | 2 | 1267 | 1996 | - |
| 6 | 121291 | 85.7 | 16 | 3 | 1273 | 1747 | 1712 |
| 7 | 363058 | 98.4 | 20 | 3 | 1372 | 1084 | 1224 |
| 8 | 603800 | 86.4 | 16 | 3 | 1942 | 1967 | 1248 |
| 9 | 845154 | 93.6 | 18 | 3 | 1604 | 1751 | 1716 |
| 10 | 91831 | 63.3 | 9 | 1 | 1762 | - | - |
| 11 | 333386 | 92.4 | 18 | 3 | 1306 | 1050 | 1046 |

**Table 55. In-Service Monitoring, Bin 5, 5500 MHz, Table 14**

| Table 15 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 362087 | 93.3 | 18 | 3 | 1482 | 1099 | 1525 |
| 1 | 515307 | 69.1 | 11 | 2 | 1209 | 1630 | - |
| 2 | 38994 | 86.9 | 16 | 3 | 1010 | 1114 | 1716 |
| 3 | 190922 | 84.9 | 16 | 3 | 1539 | 1502 | 1847 |
| 4 | 343724 | 72.3 | 12 | 2 | 1563 | 1845 | - |
| 5 | 497361 | 51.7 | 5 | 1 | 1780 | - | - |
| 6 | 20319 | 58.3 | 7 | 1 | 1419 | - | - |
| 7 | 173196 | 60.8 | 8 | 1 | 1262 | - | - |
| 8 | 326148 | 57.1 | 7 | 1 | 1106 | - | - |
| 9 | 475778 | 88.9 | 17 | 3 | 1668 | 1946 | 1808 |
| 10 | 1488 | 72 | 12 | 2 | 1837 | 1965 | - |
| 11 | 153567 | 90.9 | 18 | 3 | 1190 | 1601 | 1731 |
| 12 | 306964 | 59.8 | 8 | 1 | 1822 | - | - |
| 13 | 458779 | 70 | 11 | 2 | 1870 | 1214 | - |
| 14 | 611697 | 67.2 | 10 | 2 | 1345 | 1237 | - |
| 15 | 134832 | 91.2 | 18 | 3 | 1589 | 1629 | 1315 |
| 16 | 288289 | 56.5 | 7 | 1 | 1520 | - | - |
| 17 | 441028 | 51.2 | 5 | 1 | 1620 | - | - |
| 18 | 591978 | 74.1 | 12 | 2 | 1599 | 1968 | - |

**Table 56. In-Service Monitoring, Bin 5, 5500 MHz, Table 15**

| Table 16 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 158254 | 76.9 | 13 | 2 | 1058 | 1366 | - |
| 1 | 366047 | 50.2 | 5 | 1 | 1262 | - | - |
| 2 | 573377 | 62.9 | 9 | 1 | 1632 | - | - |
| 3 | 780532 | 64.7 | 9 | 1 | 1997 | - | - |
| 4 | 132351 | 83.8 | 15 | 3 | 1835 | 1584 | 1378 |
| 5 | 340432 | 65.4 | 9 | 1 | 1378 | - | - |
| 6 | 548146 | 53.2 | 6 | 1 | 1122 | - | - |
| 7 | 755450 | 51.7 | 5 | 1 | 1470 | - | - |
| 8 | 107154 | 78.7 | 14 | 2 | 1184 | 1489 | - |
| 9 | 314379 | 72.4 | 12 | 2 | 1610 | 1094 | - |
| 10 | 522427 | 53.8 | 6 | 1 | 1361 | - | - |
| 11 | 729049 | 73.6 | 12 | 2 | 1243 | 1210 | - |
| 12 | 81555 | 66.7 | 10 | 2 | 1518 | 1911 | - |
| 13 | 288616 | 82.5 | 15 | 2 | 1925 | 1479 | - |

**Table 57. In-Service Monitoring, Bin 5, 5500 MHz, Table 16**

| Table 17 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 345538 | 87.6 | 17 | 3 | 1809 | 1142 | 1902 |
| 1 | 490101 | 85.2 | 16 | 3 | 1370 | 1301 | 1914 |
| 2 | 39145 | 84.8 | 16 | 3 | 1217 | 1247 | 1324 |
| 3 | 183993 | 77.9 | 13 | 2 | 1160 | 1822 | - |
| 4 | 329141 | 76.5 | 13 | 2 | 1295 | 1048 | - |
| 5 | 474918 | 60.9 | 8 | 1 | 1301 | - | - |
| 6 | 21367 | 83 | 15 | 2 | 1684 | 1175 | - |
| 7 | 166161 | 80.4 | 14 | 2 | 1841 | 1130 | - |
| 8 | 311033 | 67.5 | 10 | 2 | 1607 | 1223 | - |
| 9 | 456993 | 62.1 | 8 | 1 | 1352 | - | - |
| 10 | 3520 | 86.4 | 16 | 3 | 1700 | 1399 | 1030 |
| 11 | 147826 | 84.3 | 15 | 3 | 1858 | 1628 | 1494 |
| 12 | 293433 | 76.9 | 13 | 2 | 1268 | 1072 | - |
| 13 | 437093 | 95.8 | 19 | 3 | 1310 | 1101 | 1689 |
| 14 | 584602 | 55.2 | 6 | 1 | 1043 | - | - |
| 15 | 130793 | 59 | 7 | 1 | 1580 | - | - |
| 16 | 274624 | 94.5 | 19 | 3 | 1558 | 1119 | 1732 |
| 17 | 418777 | 91.9 | 18 | 3 | 1627 | 1533 | 1671 |
| 18 | 563823 | 85.2 | 16 | 3 | 1161 | 1131 | 1800 |
| 19 | 112710 | 69.5 | 11 | 2 | 1309 | 1364 | - |

**Table 58. In-Service Monitoring, Bin 5, 5500 MHz, Table 17**

| Table 18 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 429259 | 86.4 | 16 | 3 | 1194 | 1562 | 1794 |
| 1 | 670979 | 92.2 | 18 | 3 | 1679 | 1068 | 1370 |
| 2 | 913818 | 80.4 | 14 | 2 | 1387 | 1304 | - |
| 3 | 158545 | 54.3 | 6 | 1 | 1702 | - | - |
| 4 | 400895 | 53.1 | 5 | 1 | 1126 | - | - |
| 5 | 642041 | 69.4 | 11 | 2 | 1109 | 1744 | - |
| 6 | 883409 | 69.1 | 11 | 2 | 1871 | 1514 | - |
| 7 | 128290 | 100 | 20 | 3 | 1674 | 1420 | 1951 |
| 8 | 370659 | 79.6 | 14 | 2 | 1175 | 1014 | - |
| 9 | 611891 | 88.4 | 17 | 3 | 1058 | 1132 | 1252 |
| 10 | 855277 | 53.3 | 6 | 1 | 1469 | - | - |
| 11 | 98894 | 65.3 | 9 | 1 | 1745 | - | - |

**Table 59. In-Service Monitoring, Bin 5, 5500 MHz, Table 18**

| Table 19 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 292264 | 55.3 | 6 | 1 | 1564 | - | - |
| 1 | 499839 | 58.3 | 7 | 1 | 1444 | - | - |
| 2 | 706241 | 72.3 | 12 | 2 | 1214 | 1599 | - |
| 3 | 59016 | 84.8 | 16 | 3 | 1938 | 1061 | 1221 |
| 4 | 266259 | 82.5 | 15 | 2 | 1902 | 1090 | - |
| 5 | 474152 | 63.3 | 9 | 1 | 1667 | - | - |
| 6 | 680785 | 80 | 14 | 2 | 1664 | 1066 | - |
| 7 | 33532 | 90.3 | 17 | 3 | 1701 | 1591 | 1004 |
| 8 | 240164 | 91.1 | 18 | 3 | 1941 | 1715 | 1385 |
| 9 | 447244 | 96.6 | 19 | 3 | 1343 | 1453 | 1448 |
| 10 | 654869 | 82.7 | 15 | 2 | 1376 | 1863 | - |
| 11 | 8084 | 50.7 | 5 | 1 | 1112 | - | - |
| 12 | 215195 | 78.4 | 14 | 2 | 1860 | 1251 | - |
| 13 | 421414 | 99.5 | 20 | 3 | 1211 | 1957 | 1785 |

**Table 60. In-Service Monitoring, Bin 5, 5500 MHz, Table 19**

| Table 20 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 733776 | 88.6 | 17 | 3 | 1250 | 1232 | 1944 |
| 1 | 978500 | 57.4 | 7 | 1 | 1092 | - | - |
| 2 | 221259 | 96.6 | 19 | 3 | 1049 | 1114 | 1625 |
| 3 | 463263 | 69.7 | 11 | 2 | 1156 | 1790 | - |
| 4 | 705037 | 77.9 | 13 | 2 | 1367 | 1640 | - |
| 5 | 947884 | 62 | 8 | 1 | 1907 | - | - |
| 6 | 191445 | 88.4 | 17 | 3 | 1209 | 1654 | 1204 |
| 7 | 432506 | 97.3 | 20 | 3 | 1852 | 1608 | 1720 |
| 8 | 674848 | 96.2 | 19 | 3 | 1360 | 1171 | 1074 |
| 9 | 915221 | 95.4 | 19 | 3 | 1344 | 1748 | 1910 |
| 10 | 162187 | 54.8 | 6 | 1 | 1015 | - | - |
| 11 | 403878 | 80.4 | 14 | 2 | 1296 | 1188 | - |

**Table 61. In-Service Monitoring, Bin 5, 5500 MHz, Table 20**

| Table 21 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 483824 | 74.7 | 12 | 2 | 1583 | 1101 | - |
| 1 | 665910 | 57.1 | 7 | 1 | 1741 | - | - |
| 2 | 98722 | 91.9 | 18 | 3 | 1686 | 1852 | 1265 |
| 3 | 280148 | 83.1 | 15 | 2 | 1116 | 1841 | - |
| 4 | 462269 | 50.7 | 5 | 1 | 1435 | - | - |
| 5 | 641874 | 79.2 | 14 | 2 | 1722 | 1975 | - |
| 6 | 76783 | 58.7 | 7 | 1 | 1652 | - | - |
| 7 | 257866 | 71 | 11 | 2 | 1476 | 1380 | - |
| 8 | 438568 | 79 | 14 | 2 | 1785 | 1927 | - |
| 9 | 620389 | 68.5 | 10 | 2 | 1017 | 1704 | - |
| 10 | 54344 | 73.5 | 12 | 2 | 1548 | 1239 | - |
| 11 | 235380 | 70.5 | 11 | 2 | 1723 | 1658 | - |
| 12 | 416942 | 76.6 | 13 | 2 | 1262 | 1252 | - |
| 13 | 597534 | 81.2 | 14 | 2 | 1532 | 1852 | - |
| 14 | 32065 | 61.8 | 8 | 1 | 1786 | - | - |
| 15 | 212584 | 94.9 | 19 | 3 | 1710 | 1907 | 1485 |

**Table 62. In-Service Monitoring, Bin 5, 5500 MHz, Table 21**

| Table 22 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 526804 | 78.5 | 14 | 2 | 1033 | 1077 | - |
| 1 | 766810 | 89.8 | 17 | 3 | 1754 | 1928 | 1041 |
| 2 | 12967 | 59.4 | 8 | 1 | 1054 | - | - |
| 3 | 254814 | 79.6 | 14 | 2 | 1048 | 1683 | - |
| 4 | 496335 | 76 | 13 | 2 | 1789 | 1641 | - |
| 5 | 739766 | 53.6 | 6 | 1 | 1092 | - | - |
| 6 | 979583 | 80.9 | 14 | 2 | 1815 | 1770 | - |
| 7 | 225383 | 61.6 | 8 | 1 | 1130 | - | - |
| 8 | 467404 | 53.4 | 6 | 1 | 1634 | - | - |
| 9 | 709942 | 59.9 | 8 | 1 | 1068 | - | - |
| 10 | 951435 | 60.4 | 8 | 1 | 1885 | - | - |
| 11 | 194882 | 91.4 | 18 | 3 | 1792 | 1291 | 1419 |

**Table 63. In-Service Monitoring, Bin 5, 5500 MHz, Table 22**

| Table 23 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 261690 | 77 | 13 | 2 | 1730 | 1206 | - |
| 1 | 407496 | 58.1 | 7 | 1 | 1468 | - | - |
| 2 | 553039 | 62.1 | 8 | 1 | 1057 | - | - |
| 3 | 98971 | 76.9 | 13 | 2 | 1466 | 1926 | - |
| 4 | 243693 | 80 | 14 | 2 | 1841 | 1488 | - |
| 5 | 389821 | 52 | 5 | 1 | 1153 | - | - |
| 6 | 531723 | 88.6 | 17 | 3 | 2000 | 1481 | 1407 |
| 7 | 81080 | 72.9 | 12 | 2 | 1935 | 1952 | - |
| 8 | 225051 | 98.5 | 20 | 3 | 1689 | 1898 | 1899 |
| 9 | 371684 | 57.9 | 7 | 1 | 1550 | - | - |
| 10 | 513892 | 95.9 | 19 | 3 | 1339 | 1731 | 1878 |
| 11 | 63543 | 53.5 | 6 | 1 | 1336 | - | - |
| 12 | 207470 | 92 | 18 | 3 | 1916 | 1909 | 1146 |
| 13 | 353593 | 57.3 | 7 | 1 | 1910 | - | - |
| 14 | 497722 | 70.5 | 11 | 2 | 1889 | 1132 | - |
| 15 | 45525 | 70 | 11 | 2 | 1619 | 1464 | - |
| 16 | 189563 | 84 | 15 | 3 | 1968 | 1995 | 1419 |
| 17 | 334977 | 76.1 | 13 | 2 | 1488 | 1756 | - |
| 18 | 478188 | 93.2 | 18 | 3 | 1828 | 1610 | 1697 |
| 19 | 27659 | 96.8 | 19 | 3 | 1462 | 1116 | 1215 |

**Table 64. In-Service Monitoring, Bin 5, 5500 MHz, Table 23**

| Table 24 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 247197 | 50.1 | 5 | 1 | 1562 | - | - |
| 1 | 453153 | 93.5 | 18 | 3 | 1529 | 1790 | 1159 |
| 2 | 660655 | 68.8 | 11 | 2 | 1687 | 1881 | - |
| 3 | 14128 | 56.3 | 7 | 1 | 1820 | - | - |
| 4 | 220915 | 86 | 16 | 3 | 1442 | 1738 | 1170 |
| 5 | 428528 | 75.2 | 13 | 2 | 1335 | 1453 | - |
| 6 | 636648 | 54.4 | 6 | 1 | 1562 | - | - |
| 7 | 842797 | 71.1 | 11 | 2 | 1542 | 1394 | - |
| 8 | 195782 | 76.2 | 13 | 2 | 1291 | 1561 | - |
| 9 | 402683 | 80.2 | 14 | 2 | 1912 | 1557 | - |
| 10 | 610243 | 79.7 | 14 | 2 | 1037 | 1708 | - |
| 11 | 815692 | 90.9 | 18 | 3 | 1871 | 1691 | 1032 |
| 12 | 170136 | 68.7 | 10 | 2 | 1488 | 1990 | - |
| 13 | 377546 | 67.4 | 10 | 2 | 1446 | 1195 | - |

**Table 65. In-Service Monitoring, Bin 5, 5500 MHz, Table 24**

| Table 25 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 628743 | 94 | 19 | 3 | 1862 | 1287 | 1201 |
| 1 | 853454 | 70.8 | 11 | 2 | 1088 | 1222 | - |
| 2 | 156136 | 56.3 | 7 | 1 | 1516 | - | - |
| 3 | 378517 | 96.7 | 19 | 3 | 1316 | 1809 | 1126 |
| 4 | 601369 | 90.6 | 17 | 3 | 1749 | 1461 | 1029 |
| 5 | 825544 | 74.5 | 12 | 2 | 1068 | 1691 | - |
| 6 | 128146 | 92.6 | 18 | 3 | 1882 | 1293 | 1633 |
| 7 | 350649 | 89 | 17 | 3 | 1541 | 1858 | 1948 |
| 8 | 574102 | 96.5 | 19 | 3 | 1361 | 1536 | 1049 |
| 9 | 797240 | 70.5 | 11 | 2 | 1787 | 1906 | - |
| 10 | 100771 | 94 | 19 | 3 | 1079 | 1508 | 1692 |
| 11 | 324468 | 55.8 | 6 | 1 | 1840 | - | - |
| 12 | 545941 | 87.7 | 17 | 3 | 1757 | 1673 | 1698 |

**Table 66. In-Service Monitoring, Bin 5, 5500 MHz, Table 25**

| Table 26 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 1253346 | 68.6 | 10 | 2 | 1434 | 1625 | - |
| 1 | 119462 | 83.1 | 15 | 2 | 1582 | 1450 | - |
| 2 | 482866 | 60.9 | 8 | 1 | 1970 | - | - |
| 3 | 845899 | 77.7 | 13 | 2 | 1246 | 1231 | - |
| 4 | 1209262 | 77.4 | 13 | 2 | 1046 | 1225 | - |
| 5 | 74755 | 66.8 | 10 | 2 | 1587 | 1165 | - |
| 6 | 438159 | 63.7 | 9 | 1 | 1813 | - | - |
| 7 | 799839 | 91.2 | 18 | 3 | 1451 | 1528 | 1970 |

**Table 67. In-Service Monitoring, Bin 5, 5500 MHz, Table 26**

| Table 27 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 545416 | 83.6 | 15 | 3 | 1017 | 1990 | 1397 |
| 1 | 14066 | 89.4 | 17 | 3 | 1401 | 1948 | 1131 |
| 2 | 184961 | 55.8 | 6 | 1 | 1500 | - | - |
| 3 | 354333 | 90.9 | 18 | 3 | 1835 | 1325 | 1237 |
| 4 | 526694 | 54.7 | 6 | 1 | 1416 | - | - |
| 5 | 695652 | 97.7 | 20 | 3 | 1183 | 1142 | 1007 |
| 6 | 163430 | 67.5 | 10 | 2 | 1626 | 1970 | - |
| 7 | 333465 | 96.7 | 19 | 3 | 1371 | 1076 | 1764 |
| 8 | 504482 | 68.3 | 10 | 2 | 1596 | 1445 | - |
| 9 | 675424 | 78.3 | 14 | 2 | 1109 | 1431 | - |
| 10 | 142911 | 55 | 6 | 1 | 1324 | - | - |
| 11 | 312370 | 84.9 | 16 | 3 | 1386 | 1310 | 1812 |
| 12 | 483170 | 74.6 | 12 | 2 | 1723 | 1776 | - |
| 13 | 655500 | 63.3 | 9 | 1 | 1371 | - | - |
| 14 | 121408 | 99.8 | 20 | 3 | 1238 | 1335 | 1378 |
| 15 | 292829 | 63.6 | 9 | 1 | 1111 | - | - |
| 16 | 461438 | 87.3 | 16 | 3 | 1491 | 1704 | 1442 |

**Table 68. In-Service Monitoring, Bin 5, 5500 MHz, Table 27**

| Table 28 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 564587 | 85.6 | 16 | 3 | 1355 | 1726 | 1567 |
| 1 | 89838 | 68.6 | 10 | 2 | 1936 | 1791 | - |
| 2 | 243065 | 54.2 | 6 | 1 | 1256 | - | - |
| 3 | 395965 | 61.2 | 8 | 1 | 1213 | - | - |
| 4 | 546679 | 97.1 | 20 | 3 | 1554 | 1063 | 1088 |
| 5 | 71022 | 98.3 | 20 | 3 | 1038 | 1601 | 1618 |
| 6 | 224043 | 62.4 | 8 | 1 | 1796 | - | - |
| 7 | 375811 | 80.2 | 14 | 2 | 1736 | 1688 | - |
| 8 | 526524 | 87.5 | 17 | 3 | 1933 | 1524 | 1910 |
| 9 | 52332 | 85.8 | 16 | 3 | 1558 | 1072 | 1014 |
| 10 | 204270 | 88.1 | 17 | 3 | 1638 | 1320 | 1778 |
| 11 | 358389 | 65.3 | 9 | 1 | 1059 | - | - |
| 12 | 510583 | 52.5 | 5 | 1 | 1956 | - | - |
| 13 | 33661 | 52.3 | 5 | 1 | 2000 | - | - |
| 14 | 186091 | 74.1 | 12 | 2 | 1080 | 1807 | - |
| 15 | 339568 | 54.9 | 6 | 1 | 1031 | - | - |
| 16 | 490613 | 76.2 | 13 | 2 | 1518 | 1924 | - |
| 17 | 14864 | 60.4 | 8 | 1 | 1527 | - | - |
| 18 | 167448 | 81.5 | 15 | 2 | 1015 | 1351 | - |

**Table 69. In-Service Monitoring, Bin 5, 5500 MHz, Table 28**

| Table 29 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 508045 | 50.5 | 5 | 1 | 1196 | - | - |
| 1 | 749937 | 55.7 | 6 | 1 | 1661 | - | - |
| 2 | 989019 | 85.8 | 16 | 3 | 1656 | 1854 | 1218 |
| 3 | 235517 | 76.9 | 13 | 2 | 1772 | 1323 | - |
| 4 | 477346 | 75.1 | 13 | 2 | 1221 | 1773 | - |
| 5 | 718529 | 92.3 | 18 | 3 | 1122 | 1158 | 1577 |
| 6 | 960804 | 78.1 | 14 | 2 | 1503 | 1649 | - |
| 7 | 205421 | 92.2 | 18 | 3 | 1446 | 1589 | 1583 |
| 8 | 447174 | 89 | 17 | 3 | 1145 | 1370 | 1341 |
| 9 | 689823 | 70.9 | 11 | 2 | 1088 | 1246 | - |
| 10 | 932887 | 63.1 | 9 | 1 | 1157 | - | - |
| 11 | 176194 | 55.3 | 6 | 1 | 1731 | - | - |

**Table 70. In-Service Monitoring, Bin 5, 5500 MHz, Table 29**

| Table 30 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 277683 | 83.4 | 15 | 3 | 1301 | 1213 | 1473 |
| 1 | 438503 | 97.3 | 20 | 3 | 1258 | 1057 | 1522 |
| 2 | 598617 | 90.4 | 17 | 3 | 1679 | 1090 | 1780 |
| 3 | 97142 | 91.8 | 18 | 3 | 1385 | 1491 | 1272 |
| 4 | 257779 | 98.2 | 20 | 3 | 1869 | 1055 | 1339 |
| 5 | 420304 | 59.5 | 8 | 1 | 1301 | - | - |
| 6 | 580095 | 80 | 14 | 2 | 1693 | 1417 | - |
| 7 | 77238 | 86.5 | 16 | 3 | 1548 | 1656 | 1903 |
| 8 | 237974 | 91.1 | 18 | 3 | 1379 | 1497 | 1433 |
| 9 | 398356 | 93.5 | 18 | 3 | 1360 | 1444 | 1937 |
| 10 | 561396 | 60.7 | 8 | 1 | 1778 | - | - |
| 11 | 57672 | 67.2 | 10 | 2 | 1157 | 1676 | - |
| 12 | 219189 | 61.8 | 8 | 1 | 1263 | - | - |
| 13 | 379317 | 79.4 | 14 | 2 | 1952 | 1503 | - |
| 14 | 540148 | 81.4 | 15 | 2 | 1926 | 1552 | - |
| 15 | 37944 | 65.7 | 10 | 1 | 1005 | - | - |
| 16 | 198981 | 76 | 13 | 2 | 1299 | 1065 | - |
| 17 | 360068 | 81 | 14 | 2 | 1163 | 1251 | - |

**Table 71. In-Service Monitoring, Bin 5, 5500 MHz, Table 30**

## Bin 5 Table Data, 5510 MHz

| Table 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 636623 | 77.8 | 13 | 2 | 1556 | 1038 | - |
| 1 | 32666 | 51.9 | 5 | 1 | 1276 | - | - |
| 2 | 226196 | 63.8 | 9 | 1 | 1932 | - | - |
| 3 | 418278 | 96.6 | 19 | 3 | 1718 | 1475 | 1544 |
| 4 | 611745 | 85.9 | 16 | 3 | 1368 | 1535 | 1064 |
| 5 | 8779 | 73.7 | 12 | 2 | 1715 | 1887 | - |
| 6 | 202117 | 77.2 | 13 | 2 | 1552 | 1314 | - |
| 7 | 395198 | 68.4 | 10 | 2 | 1870 | 1500 | - |
| 8 | 588430 | 76.7 | 13 | 2 | 1988 | 1348 | - |
| 9 | 783475 | 53.2 | 6 | 1 | 1473 | - | - |
| 10 | 177982 | 85.7 | 16 | 3 | 1318 | 1676 | 1310 |
| 11 | 370714 | 94.3 | 19 | 3 | 1973 | 1477 | 1390 |
| 12 | 565059 | 77.6 | 13 | 2 | 1038 | 1693 | - |
| 13 | 759205 | 65.7 | 10 | 1 | 1908 | - | - |
| 14 | 154116 | 93.5 | 18 | 3 | 1361 | 1793 | 1639 |

**Table 72. In-Service Monitoring, Bin 5, 5510 MHz, Table 1**

| Table 2 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 653267 | 75 | 12 | 2 | 1766 | 1074 | - |
| 1 | 1015342 | 99.4 | 20 | 3 | 1826 | 1363 | 1174 |
| 2 | 1379673 | 67.4 | 10 | 2 | 1506 | 1129 | - |
| 3 | 245381 | 73.6 | 12 | 2 | 1994 | 1155 | - |
| 4 | 609211 | 65.9 | 10 | 1 | 1190 | - | - |
| 5 | 970315 | 83.8 | 15 | 3 | 1600 | 1640 | 1656 |
| 6 | 1335720 | 65.5 | 9 | 1 | 1761 | - | - |
| 7 | 200392 | 98.6 | 20 | 3 | 1864 | 1409 | 1907 |

**Table 73. In-Service Monitoring, Bin 5, 5510 MHz, Table 2**

| Table 3 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 409465 | 73.8 | 12 | 2 | 1639 | 1970 | - |
| 1 | 673541 | 69.5 | 11 | 2 | 1301 | 1709 | - |
| 2 | 938405 | 51.9 | 5 | 1 | 1833 | - | - |
| 3 | 113243 | 84.6 | 16 | 3 | 1346 | 1359 | 1246 |
| 4 | 376706 | 95.4 | 19 | 3 | 1066 | 1801 | 1542 |
| 5 | 640774 | 68 | 10 | 2 | 1679 | 1783 | - |
| 6 | 903746 | 89.6 | 17 | 3 | 1637 | 1006 | 1743 |
| 7 | 80813 | 81.9 | 15 | 2 | 1426 | 1951 | - |
| 8 | 343904 | 88.3 | 17 | 3 | 1812 | 1727 | 1953 |
| 9 | 609276 | 53.7 | 6 | 1 | 1695 | - | - |
| 10 | 870628 | 91.3 | 18 | 3 | 1995 | 1858 | 1355 |

**Table 74. In-Service Monitoring, Bin 5, 5510 MHz, Table 3**

| Table 4 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 26552 | 68.1 | 10 | 2 | 1317 | 1127 | - |
| 1 | 171871 | 58.7 | 7 | 1 | 1075 | - | - |
| 2 | 316116 | 75.3 | 13 | 2 | 1671 | 1317 | - |
| 3 | 461891 | 56.4 | 7 | 1 | 1718 | - | - |
| 4 | 8664 | 99.7 | 20 | 3 | 1527 | 1631 | 1788 |
| 5 | 153929 | 57.7 | 7 | 1 | 1269 | - | - |
| 6 | 299079 | 59.5 | 8 | 1 | 1392 | - | - |
| 7 | 442752 | 80 | 14 | 2 | 1491 | 1932 | - |
| 8 | 587204 | 82 | 15 | 2 | 1934 | 1730 | - |
| 9 | 135744 | 82.8 | 15 | 2 | 1467 | 1116 | - |
| 10 | 279781 | 88 | 17 | 3 | 1108 | 1707 | 1589 |
| 11 | 424346 | 93.2 | 18 | 3 | 1315 | 1373 | 1555 |
| 12 | 569553 | 70.4 | 11 | 2 | 1593 | 1899 | - |
| 13 | 117598 | 95.3 | 19 | 3 | 1229 | 1812 | 1052 |
| 14 | 262325 | 81.9 | 15 | 2 | 1683 | 1955 | - |
| 15 | 405781 | 98.5 | 20 | 3 | 1946 | 1977 | 1445 |
| 16 | 553711 | 65 | 9 | 1 | 1353 | - | - |
| 17 | 99809 | 85.4 | 16 | 3 | 1515 | 1218 | 1284 |
| 18 | 244192 | 91.6 | 18 | 3 | 1576 | 1751 | 1083 |
| 19 | 390174 | 67.3 | 10 | 2 | 1014 | 1047 | - |

**Table 75. In-Service Monitoring, Bin 5, 5510 MHz, Table 4**

| Table 5 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 628798 | 67.9 | 10 | 2 | 1997 | 1368 | - |
| 1 | 96903 | 62.3 | 8 | 1 | 1616 | - | - |
| 2 | 267849 | 53.3 | 6 | 1 | 1251 | - | - |
| 3 | 437286 | 90 | 17 | 3 | 1496 | 1016 | 1081 |
| 4 | 608043 | 77.1 | 13 | 2 | 1260 | 1836 | - |
| 5 | 75592 | 83.9 | 15 | 3 | 1587 | 1287 | 1269 |
| 6 | 245640 | 89.1 | 17 | 3 | 1040 | 1945 | 1574 |
| 7 | 416504 | 81.8 | 15 | 2 | 1484 | 1774 | - |
| 8 | 588726 | 50.3 | 5 | 1 | 1087 | - | - |
| 9 | 54535 | 87.1 | 16 | 3 | 1908 | 1475 | 1949 |
| 10 | 225137 | 71.3 | 11 | 2 | 1834 | 1325 | - |
| 11 | 395073 | 97.5 | 20 | 3 | 1416 | 1046 | 1579 |
| 12 | 565234 | 90.6 | 17 | 3 | 1419 | 1512 | 1182 |
| 13 | 33645 | 86.3 | 16 | 3 | 1541 | 1359 | 1624 |
| 14 | 203835 | 97.6 | 20 | 3 | 1575 | 1267 | 1378 |
| 15 | 373694 | 84.7 | 16 | 3 | 1187 | 1979 | 1647 |
| 16 | 543192 | 99.7 | 20 | 3 | 1735 | 1795 | 1972 |

**Table 76. In-Service Monitoring, Bin 5, 5510 MHz, Table 5**

| Table 6 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 15441 | 92.9 | 18 | 3 | 1423 | 1118 | 1358 |
| 1 | 222649 | 67.7 | 10 | 2 | 1689 | 1176 | - |
| 2 | 430620 | 65.8 | 10 | 1 | 1312 | - | - |
| 3 | 637993 | 56.3 | 7 | 1 | 1571 | - | - |
| 4 | 845422 | 53.7 | 6 | 1 | 1646 | - | - |
| 5 | 196574 | 83.5 | 15 | 3 | 1802 | 1804 | 1663 |
| 6 | 405116 | 65.8 | 10 | 1 | 1177 | - | - |
| 7 | 610836 | 85.9 | 16 | 3 | 1540 | 1100 | 1162 |
| 8 | 819293 | 76.3 | 13 | 2 | 1043 | 1199 | - |
| 9 | 171555 | 81.5 | 15 | 2 | 1205 | 1918 | - |
| 10 | 378184 | 89.4 | 17 | 3 | 1599 | 1571 | 1077 |
| 11 | 587063 | 63.4 | 9 | 1 | 1295 | - | - |
| 12 | 793149 | 69.6 | 11 | 2 | 1228 | 1665 | - |
| 13 | 145983 | 74.5 | 12 | 2 | 1695 | 1775 | - |

**Table 77. In-Service Monitoring, Bin 5, 5510 MHz, Table 6**

| Table 7 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 328985 | 96.6 | 19 | 3 | 1567 | 1387 | 1506 |
| 1 | 522498 | 96.7 | 19 | 3 | 1127 | 1354 | 1112 |
| 2 | 714615 | 86.5 | 16 | 3 | 1505 | 1526 | 1715 |
| 3 | 112383 | 73.3 | 12 | 2 | 1968 | 1729 | - |
| 4 | 306212 | 55.8 | 6 | 1 | 1872 | - | - |
| 5 | 500163 | 55.4 | 6 | 1 | 1266 | - | - |
| 6 | 690552 | 85.3 | 16 | 3 | 1849 | 1867 | 1382 |
| 7 | 88623 | 79.4 | 14 | 2 | 1739 | 1698 | - |
| 8 | 282519 | 65.7 | 10 | 1 | 1447 | - | - |
| 9 | 475743 | 68.6 | 10 | 2 | 1034 | 1167 | - |
| 10 | 669102 | 77.7 | 13 | 2 | 1216 | 1143 | - |
| 11 | 64844 | 79.6 | 14 | 2 | 1779 | 1441 | - |
| 12 | 257701 | 94.9 | 19 | 3 | 1818 | 1196 | 1400 |
| 13 | 452394 | 61.4 | 8 | 1 | 1345 | - | - |
| 14 | 643963 | 90.6 | 17 | 3 | 1825 | 1130 | 1024 |

**Table 78. In-Service Monitoring, Bin 5, 5510 MHz, Table 7**

| Table 8 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 51432 | 52.6 | 5 | 1 | 1482 | - | - |
| 1 | 292922 | 84.1 | 15 | 3 | 1539 | 1004 | 1258 |
| 2 | 534275 | 97.7 | 20 | 3 | 1295 | 1677 | 1308 |
| 3 | 776241 | 97.3 | 20 | 3 | 1064 | 1035 | 1575 |
| 4 | 21547 | 98.8 | 20 | 3 | 1449 | 1076 | 1472 |
| 5 | 263377 | 72.2 | 12 | 2 | 1334 | 1651 | - |
| 6 | 504945 | 67.6 | 10 | 2 | 1752 | 1705 | - |
| 7 | 746790 | 75.7 | 13 | 2 | 1696 | 1558 | - |
| 8 | 990242 | 60.9 | 8 | 1 | 1531 | - | - |
| 9 | 234006 | 64.2 | 9 | 1 | 1218 | - | - |
| 10 | 475264 | 78.8 | 14 | 2 | 1661 | 1608 | - |
| 11 | 716245 | 87.5 | 16 | 3 | 1351 | 1243 | 1728 |

**Table 79. In-Service Monitoring, Bin 5, 5510 MHz, Table 8**

| Table 9 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 822851 | 54.1 | 6 | 1 | 1687 | - | - |
| 1 | 174900 | 50.7 | 5 | 1 | 1538 | - | - |
| 2 | 382242 | 52.3 | 5 | 1 | 1917 | - | - |
| 3 | 588103 | 99.8 | 20 | 3 | 1104 | 1181 | 1891 |
| 4 | 795565 | 68.4 | 10 | 2 | 1838 | 1705 | - |
| 5 | 149063 | 80.8 | 14 | 2 | 1390 | 1729 | - |
| 6 | 356723 | 62.5 | 9 | 1 | 1844 | - | - |
| 7 | 563598 | 74.8 | 12 | 2 | 1609 | 1087 | - |
| 8 | 772302 | 50.8 | 5 | 1 | 1062 | - | - |
| 9 | 123800 | 54 | 6 | 1 | 1389 | - | - |
| 10 | 331350 | 63 | 9 | 1 | 1382 | - | - |
| 11 | 536393 | 91.8 | 18 | 3 | 2000 | 1593 | 1768 |
| 12 | 745583 | 79.3 | 14 | 2 | 1067 | 1307 | - |
| 13 | 98268 | 64.3 | 9 | 1 | 1107 | - | - |

**Table 80. In-Service Monitoring, Bin 5, 5510 MHz, Table 9**

| Table 10 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 535571 | 63.4 | 9 | 1 | 1166 | - | - |
| 1 | 898917 | 52 | 5 | 1 | 1446 | - | - |
| 2 | 1259697 | 97.2 | 20 | 3 | 1696 | 1650 | 1267 |
| 3 | 127089 | 78.7 | 14 | 2 | 1600 | 1807 | - |
| 4 | 489947 | 74.2 | 12 | 2 | 1822 | 1933 | - |
| 5 | 852558 | 88.7 | 17 | 3 | 1655 | 1015 | 1568 |
| 6 | 1217152 | 54.3 | 6 | 1 | 1991 | - | - |
| 7 | 82300 | 95.4 | 19 | 3 | 1772 | 1149 | 1932 |

**Table 81. In-Service Monitoring, Bin 5, 5510 MHz, Table 10**

| Table 11 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 209176 | 73.7 | 12 | 2 | 1394 | 1559 | - |
| 1 | 378577 | 97.4 | 20 | 3 | 1240 | 1768 | 1946 |
| 2 | 548594 | 91.7 | 18 | 3 | 1924 | 1909 | 1096 |
| 3 | 17727 | 66.2 | 10 | 1 | 1609 | - | - |
| 4 | 188261 | 70.8 | 11 | 2 | 1495 | 1142 | - |
| 5 | 359227 | 52.3 | 5 | 1 | 1838 | - | - |
| 6 | 529350 | 78.9 | 14 | 2 | 1662 | 1014 | - |
| 7 | 699817 | 70.9 | 11 | 2 | 1584 | 1175 | - |
| 8 | 167165 | 75.6 | 13 | 2 | 1421 | 1580 | - |
| 9 | 338419 | 59.1 | 7 | 1 | 1371 | - | - |
| 10 | 508194 | 77 | 13 | 2 | 1471 | 1410 | - |
| 11 | 678428 | 67.9 | 10 | 2 | 1532 | 1624 | - |
| 12 | 146139 | 81.2 | 14 | 2 | 1237 | 1899 | - |
| 13 | 316473 | 78.7 | 14 | 2 | 1570 | 1797 | - |
| 14 | 488365 | 63.3 | 9 | 1 | 1188 | - | - |
| 15 | 657474 | 68.9 | 11 | 2 | 1593 | 1521 | - |
| 16 | 125512 | 59.3 | 7 | 1 | 1072 | - | - |

**Table 82. In-Service Monitoring, Bin 5, 5510 MHz, Table 11**

| Table 12 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 264001 | 98.9 | 20 | 3 | 1619 | 1232 | 1068 |
| 1 | 417231 | 82.3 | 15 | 2 | 1198 | 1209 | - |
| 2 | 567901 | 86.7 | 16 | 3 | 1828 | 1541 | 1162 |
| 3 | 92954 | 89.7 | 17 | 3 | 1243 | 1538 | 1600 |
| 4 | 245112 | 98.6 | 20 | 3 | 1040 | 1773 | 1458 |
| 5 | 397977 | 71.1 | 11 | 2 | 1971 | 1159 | - |
| 6 | 551457 | 55.9 | 6 | 1 | 1918 | - | - |
| 7 | 74391 | 67.9 | 10 | 2 | 1071 | 1841 | - |
| 8 | 226484 | 84.4 | 16 | 3 | 1147 | 1411 | 1401 |
| 9 | 380077 | 58.8 | 7 | 1 | 1680 | - | - |
| 10 | 532981 | 65.6 | 9 | 1 | 1522 | - | - |
| 11 | 55531 | 78.5 | 14 | 2 | 1864 | 1937 | - |
| 12 | 208094 | 82.3 | 15 | 2 | 1003 | 1870 | - |
| 13 | 359800 | 90.1 | 17 | 3 | 1376 | 1127 | 1721 |
| 14 | 512124 | 90.2 | 17 | 3 | 1504 | 1088 | 1423 |
| 15 | 36816 | 83.1 | 15 | 2 | 1524 | 1605 | - |
| 16 | 189697 | 58.8 | 7 | 1 | 1594 | - | - |
| 17 | 341619 | 77 | 13 | 2 | 1818 | 1374 | - |
| 18 | 495472 | 55 | 6 | 1 | 1349 | - | - |

**Table 83. In-Service Monitoring, Bin 5, 5510 MHz, Table 12**

| Table 13 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 22912 | 58.1 | 7 | 1 | 1881 | - | - |
| 1 | 216607 | 52.1 | 5 | 1 | 1417 | - | - |
| 2 | 410438 | 59.9 | 8 | 1 | 1127 | - | - |
| 3 | 603580 | 60.2 | 8 | 1 | 1934 | - | - |
| 4 | 793918 | 95.9 | 19 | 3 | 1812 | 1491 | 1852 |
| 5 | 192196 | 79.9 | 14 | 2 | 1781 | 1930 | - |
| 6 | 385525 | 78.5 | 14 | 2 | 1410 | 1880 | - |
| 7 | 580331 | 53.8 | 6 | 1 | 1116 | - | - |
| 8 | 773468 | 64.7 | 9 | 1 | 1754 | - | - |
| 9 | 168902 | 61.4 | 8 | 1 | 1373 | - | - |
| 10 | 361910 | 83.2 | 15 | 2 | 1662 | 1218 | - |
| 11 | 554151 | 84.7 | 16 | 3 | 1554 | 1548 | 1336 |
| 12 | 746788 | 88.7 | 17 | 3 | 1274 | 1825 | 1672 |
| 13 | 144765 | 78.3 | 14 | 2 | 1788 | 1116 | - |
| 14 | 338082 | 69.3 | 11 | 2 | 1819 | 1095 | - |

**Table 84. In-Service Monitoring, Bin 5, 5510 MHz, Table 13**

| Table 14 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 664476 | 75.3 | 13 | 2 | 1954 | 1350 | - |
| 1 | 907451 | 56.3 | 7 | 1 | 1935 | - | - |
| 2 | 151297 | 67.7 | 10 | 2 | 1366 | 1567 | - |
| 3 | 393839 | 55.6 | 6 | 1 | 1100 | - | - |
| 4 | 634772 | 75.2 | 13 | 2 | 1699 | 1492 | - |
| 5 | 876467 | 76.3 | 13 | 2 | 1267 | 1996 | - |
| 6 | 121291 | 85.7 | 16 | 3 | 1273 | 1747 | 1712 |
| 7 | 363058 | 98.4 | 20 | 3 | 1372 | 1084 | 1224 |
| 8 | 603800 | 86.4 | 16 | 3 | 1942 | 1967 | 1248 |
| 9 | 845154 | 93.6 | 18 | 3 | 1604 | 1751 | 1716 |
| 10 | 91831 | 63.3 | 9 | 1 | 1762 | - | - |
| 11 | 333386 | 92.4 | 18 | 3 | 1306 | 1050 | 1046 |

**Table 85. In-Service Monitoring, Bin 5, 5510 MHz, Table 14**

| Table 15 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 362087 | 93.3 | 18 | 3 | 1482 | 1099 | 1525 |
| 1 | 515307 | 69.1 | 11 | 2 | 1209 | 1630 | - |
| 2 | 38994 | 86.9 | 16 | 3 | 1010 | 1114 | 1716 |
| 3 | 190922 | 84.9 | 16 | 3 | 1539 | 1502 | 1847 |
| 4 | 343724 | 72.3 | 12 | 2 | 1563 | 1845 | - |
| 5 | 497361 | 51.7 | 5 | 1 | 1780 | - | - |
| 6 | 20319 | 58.3 | 7 | 1 | 1419 | - | - |
| 7 | 173196 | 60.8 | 8 | 1 | 1262 | - | - |
| 8 | 326148 | 57.1 | 7 | 1 | 1106 | - | - |
| 9 | 475778 | 88.9 | 17 | 3 | 1668 | 1946 | 1808 |
| 10 | 1488 | 72 | 12 | 2 | 1837 | 1965 | - |
| 11 | 153567 | 90.9 | 18 | 3 | 1190 | 1601 | 1731 |
| 12 | 306964 | 59.8 | 8 | 1 | 1822 | - | - |
| 13 | 458779 | 70 | 11 | 2 | 1870 | 1214 | - |
| 14 | 611697 | 67.2 | 10 | 2 | 1345 | 1237 | - |
| 15 | 134832 | 91.2 | 18 | 3 | 1589 | 1629 | 1315 |
| 16 | 288289 | 56.5 | 7 | 1 | 1520 | - | - |
| 17 | 441028 | 51.2 | 5 | 1 | 1620 | - | - |
| 18 | 591978 | 74.1 | 12 | 2 | 1599 | 1968 | - |

**Table 86. In-Service Monitoring, Bin 5, 5510 MHz, Table 15**

| Table 16 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 158254 | 76.9 | 13 | 2 | 1058 | 1366 | - |
| 1 | 366047 | 50.2 | 5 | 1 | 1262 | - | - |
| 2 | 573377 | 62.9 | 9 | 1 | 1632 | - | - |
| 3 | 780532 | 64.7 | 9 | 1 | 1997 | - | - |
| 4 | 132351 | 83.8 | 15 | 3 | 1835 | 1584 | 1378 |
| 5 | 340432 | 65.4 | 9 | 1 | 1378 | - | - |
| 6 | 548146 | 53.2 | 6 | 1 | 1122 | - | - |
| 7 | 755450 | 51.7 | 5 | 1 | 1470 | - | - |
| 8 | 107154 | 78.7 | 14 | 2 | 1184 | 1489 | - |
| 9 | 314379 | 72.4 | 12 | 2 | 1610 | 1094 | - |
| 10 | 522427 | 53.8 | 6 | 1 | 1361 | - | - |
| 11 | 729049 | 73.6 | 12 | 2 | 1243 | 1210 | - |
| 12 | 81555 | 66.7 | 10 | 2 | 1518 | 1911 | - |
| 13 | 288616 | 82.5 | 15 | 2 | 1925 | 1479 | - |

**Table 87. In-Service Monitoring, Bin 5, 5510 MHz, Table 16**

| Table 17 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 345538 | 87.6 | 17 | 3 | 1809 | 1142 | 1902 |
| 1 | 490101 | 85.2 | 16 | 3 | 1370 | 1301 | 1914 |
| 2 | 39145 | 84.8 | 16 | 3 | 1217 | 1247 | 1324 |
| 3 | 183993 | 77.9 | 13 | 2 | 1160 | 1822 | - |
| 4 | 329141 | 76.5 | 13 | 2 | 1295 | 1048 | - |
| 5 | 474918 | 60.9 | 8 | 1 | 1301 | - | - |
| 6 | 21367 | 83 | 15 | 2 | 1684 | 1175 | - |
| 7 | 166161 | 80.4 | 14 | 2 | 1841 | 1130 | - |
| 8 | 311033 | 67.5 | 10 | 2 | 1607 | 1223 | - |
| 9 | 456993 | 62.1 | 8 | 1 | 1352 | - | - |
| 10 | 3520 | 86.4 | 16 | 3 | 1700 | 1399 | 1030 |
| 11 | 147826 | 84.3 | 15 | 3 | 1858 | 1628 | 1494 |
| 12 | 293433 | 76.9 | 13 | 2 | 1268 | 1072 | - |
| 13 | 437093 | 95.8 | 19 | 3 | 1310 | 1101 | 1689 |
| 14 | 584602 | 55.2 | 6 | 1 | 1043 | - | - |
| 15 | 130793 | 59 | 7 | 1 | 1580 | - | - |
| 16 | 274624 | 94.5 | 19 | 3 | 1558 | 1119 | 1732 |
| 17 | 418777 | 91.9 | 18 | 3 | 1627 | 1533 | 1671 |
| 18 | 563823 | 85.2 | 16 | 3 | 1161 | 1131 | 1800 |
| 19 | 112710 | 69.5 | 11 | 2 | 1309 | 1364 | - |

**Table 88. In-Service Monitoring, Bin 5, 5510 MHz, Table 17**

| Table 18 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 429259 | 86.4 | 16 | 3 | 1194 | 1562 | 1794 |
| 1 | 670979 | 92.2 | 18 | 3 | 1679 | 1068 | 1370 |
| 2 | 913818 | 80.4 | 14 | 2 | 1387 | 1304 | - |
| 3 | 158545 | 54.3 | 6 | 1 | 1702 | - | - |
| 4 | 400895 | 53.1 | 5 | 1 | 1126 | - | - |
| 5 | 642041 | 69.4 | 11 | 2 | 1109 | 1744 | - |
| 6 | 883409 | 69.1 | 11 | 2 | 1871 | 1514 | - |
| 7 | 128290 | 100 | 20 | 3 | 1674 | 1420 | 1951 |
| 8 | 370659 | 79.6 | 14 | 2 | 1175 | 1014 | - |
| 9 | 611891 | 88.4 | 17 | 3 | 1058 | 1132 | 1252 |
| 10 | 855277 | 53.3 | 6 | 1 | 1469 | - | - |
| 11 | 98894 | 65.3 | 9 | 1 | 1745 | - | - |

**Table 89. In-Service Monitoring, Bin 5, 5510 MHz, Table 18**

| Table 19 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 292264 | 55.3 | 6 | 1 | 1564 | - | - |
| 1 | 499839 | 58.3 | 7 | 1 | 1444 | - | - |
| 2 | 706241 | 72.3 | 12 | 2 | 1214 | 1599 | - |
| 3 | 59016 | 84.8 | 16 | 3 | 1938 | 1061 | 1221 |
| 4 | 266259 | 82.5 | 15 | 2 | 1902 | 1090 | - |
| 5 | 474152 | 63.3 | 9 | 1 | 1667 | - | - |
| 6 | 680785 | 80 | 14 | 2 | 1664 | 1066 | - |
| 7 | 33532 | 90.3 | 17 | 3 | 1701 | 1591 | 1004 |
| 8 | 240164 | 91.1 | 18 | 3 | 1941 | 1715 | 1385 |
| 9 | 447244 | 96.6 | 19 | 3 | 1343 | 1453 | 1448 |
| 10 | 654869 | 82.7 | 15 | 2 | 1376 | 1863 | - |
| 11 | 8084 | 50.7 | 5 | 1 | 1112 | - | - |
| 12 | 215195 | 78.4 | 14 | 2 | 1860 | 1251 | - |
| 13 | 421414 | 99.5 | 20 | 3 | 1211 | 1957 | 1785 |

**Table 90. In-Service Monitoring, Bin 5, 5510 MHz, Table 19**

| Table 20 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 733776 | 88.6 | 17 | 3 | 1250 | 1232 | 1944 |
| 1 | 978500 | 57.4 | 7 | 1 | 1092 | - | - |
| 2 | 221259 | 96.6 | 19 | 3 | 1049 | 1114 | 1625 |
| 3 | 463263 | 69.7 | 11 | 2 | 1156 | 1790 | - |
| 4 | 705037 | 77.9 | 13 | 2 | 1367 | 1640 | - |
| 5 | 947884 | 62 | 8 | 1 | 1907 | - | - |
| 6 | 191445 | 88.4 | 17 | 3 | 1209 | 1654 | 1204 |
| 7 | 432506 | 97.3 | 20 | 3 | 1852 | 1608 | 1720 |
| 8 | 674848 | 96.2 | 19 | 3 | 1360 | 1171 | 1074 |
| 9 | 915221 | 95.4 | 19 | 3 | 1344 | 1748 | 1910 |
| 10 | 162187 | 54.8 | 6 | 1 | 1015 | - | - |
| 11 | 403878 | 80.4 | 14 | 2 | 1296 | 1188 | - |

**Table 91. In-Service Monitoring, Bin 5, 5510 MHz, Table 20**

| Table 21 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 483824 | 74.7 | 12 | 2 | 1583 | 1101 | - |
| 1 | 665910 | 57.1 | 7 | 1 | 1741 | - | - |
| 2 | 98722 | 91.9 | 18 | 3 | 1686 | 1852 | 1265 |
| 3 | 280148 | 83.1 | 15 | 2 | 1116 | 1841 | - |
| 4 | 462269 | 50.7 | 5 | 1 | 1435 | - | - |
| 5 | 641874 | 79.2 | 14 | 2 | 1722 | 1975 | - |
| 6 | 76783 | 58.7 | 7 | 1 | 1652 | - | - |
| 7 | 257866 | 71 | 11 | 2 | 1476 | 1380 | - |
| 8 | 438568 | 79 | 14 | 2 | 1785 | 1927 | - |
| 9 | 620389 | 68.5 | 10 | 2 | 1017 | 1704 | - |
| 10 | 54344 | 73.5 | 12 | 2 | 1548 | 1239 | - |
| 11 | 235380 | 70.5 | 11 | 2 | 1723 | 1658 | - |
| 12 | 416942 | 76.6 | 13 | 2 | 1262 | 1252 | - |
| 13 | 597534 | 81.2 | 14 | 2 | 1532 | 1852 | - |
| 14 | 32065 | 61.8 | 8 | 1 | 1786 | - | - |
| 15 | 212584 | 94.9 | 19 | 3 | 1710 | 1907 | 1485 |

**Table 92. In-Service Monitoring, Bin 5, 5510 MHz, Table 21**

| Table 22 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 526804 | 78.5 | 14 | 2 | 1033 | 1077 | - |
| 1 | 766810 | 89.8 | 17 | 3 | 1754 | 1928 | 1041 |
| 2 | 12967 | 59.4 | 8 | 1 | 1054 | - | - |
| 3 | 254814 | 79.6 | 14 | 2 | 1048 | 1683 | - |
| 4 | 496335 | 76 | 13 | 2 | 1789 | 1641 | - |
| 5 | 739766 | 53.6 | 6 | 1 | 1092 | - | - |
| 6 | 979583 | 80.9 | 14 | 2 | 1815 | 1770 | - |
| 7 | 225383 | 61.6 | 8 | 1 | 1130 | - | - |
| 8 | 467404 | 53.4 | 6 | 1 | 1634 | - | - |
| 9 | 709942 | 59.9 | 8 | 1 | 1068 | - | - |
| 10 | 951435 | 60.4 | 8 | 1 | 1885 | - | - |
| 11 | 194882 | 91.4 | 18 | 3 | 1792 | 1291 | 1419 |

**Table 93. In-Service Monitoring, Bin 5, 5510 MHz, Table 22**

| Table 23 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 261690 | 77 | 13 | 2 | 1730 | 1206 | - |
| 1 | 407496 | 58.1 | 7 | 1 | 1468 | - | - |
| 2 | 553039 | 62.1 | 8 | 1 | 1057 | - | - |
| 3 | 98971 | 76.9 | 13 | 2 | 1466 | 1926 | - |
| 4 | 243693 | 80 | 14 | 2 | 1841 | 1488 | - |
| 5 | 389821 | 52 | 5 | 1 | 1153 | - | - |
| 6 | 531723 | 88.6 | 17 | 3 | 2000 | 1481 | 1407 |
| 7 | 81080 | 72.9 | 12 | 2 | 1935 | 1952 | - |
| 8 | 225051 | 98.5 | 20 | 3 | 1689 | 1898 | 1899 |
| 9 | 371684 | 57.9 | 7 | 1 | 1550 | - | - |
| 10 | 513892 | 95.9 | 19 | 3 | 1339 | 1731 | 1878 |
| 11 | 63543 | 53.5 | 6 | 1 | 1336 | - | - |
| 12 | 207470 | 92 | 18 | 3 | 1916 | 1909 | 1146 |
| 13 | 353593 | 57.3 | 7 | 1 | 1910 | - | - |
| 14 | 497722 | 70.5 | 11 | 2 | 1889 | 1132 | - |
| 15 | 45525 | 70 | 11 | 2 | 1619 | 1464 | - |
| 16 | 189563 | 84 | 15 | 3 | 1968 | 1995 | 1419 |
| 17 | 334977 | 76.1 | 13 | 2 | 1488 | 1756 | - |
| 18 | 478188 | 93.2 | 18 | 3 | 1828 | 1610 | 1697 |
| 19 | 27659 | 96.8 | 19 | 3 | 1462 | 1116 | 1215 |

**Table 94. In-Service Monitoring, Bin 5, 5510 MHz, Table 23**

| Table 24 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 247197 | 50.1 | 5 | 1 | 1562 | - | - |
| 1 | 453153 | 93.5 | 18 | 3 | 1529 | 1790 | 1159 |
| 2 | 660655 | 68.8 | 11 | 2 | 1687 | 1881 | - |
| 3 | 14128 | 56.3 | 7 | 1 | 1820 | - | - |
| 4 | 220915 | 86 | 16 | 3 | 1442 | 1738 | 1170 |
| 5 | 428528 | 75.2 | 13 | 2 | 1335 | 1453 | - |
| 6 | 636648 | 54.4 | 6 | 1 | 1562 | - | - |
| 7 | 842797 | 71.1 | 11 | 2 | 1542 | 1394 | - |
| 8 | 195782 | 76.2 | 13 | 2 | 1291 | 1561 | - |
| 9 | 402683 | 80.2 | 14 | 2 | 1912 | 1557 | - |
| 10 | 610243 | 79.7 | 14 | 2 | 1037 | 1708 | - |
| 11 | 815692 | 90.9 | 18 | 3 | 1871 | 1691 | 1032 |
| 12 | 170136 | 68.7 | 10 | 2 | 1488 | 1990 | - |
| 13 | 377546 | 67.4 | 10 | 2 | 1446 | 1195 | - |

**Table 95. In-Service Monitoring, Bin 5, 5510 MHz, Table 24**

| Table 25 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 628743 | 94 | 19 | 3 | 1862 | 1287 | 1201 |
| 1 | 853454 | 70.8 | 11 | 2 | 1088 | 1222 | - |
| 2 | 156136 | 56.3 | 7 | 1 | 1516 | - | - |
| 3 | 378517 | 96.7 | 19 | 3 | 1316 | 1809 | 1126 |
| 4 | 601369 | 90.6 | 17 | 3 | 1749 | 1461 | 1029 |
| 5 | 825544 | 74.5 | 12 | 2 | 1068 | 1691 | - |
| 6 | 128146 | 92.6 | 18 | 3 | 1882 | 1293 | 1633 |
| 7 | 350649 | 89 | 17 | 3 | 1541 | 1858 | 1948 |
| 8 | 574102 | 96.5 | 19 | 3 | 1361 | 1536 | 1049 |
| 9 | 797240 | 70.5 | 11 | 2 | 1787 | 1906 | - |
| 10 | 100771 | 94 | 19 | 3 | 1079 | 1508 | 1692 |
| 11 | 324468 | 55.8 | 6 | 1 | 1840 | - | - |
| 12 | 545941 | 87.7 | 17 | 3 | 1757 | 1673 | 1698 |

**Table 96. In-Service Monitoring, Bin 5, 5510 MHz, Table 25**

| Table 26 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 1253346 | 68.6 | 10 | 2 | 1434 | 1625 | - |
| 1 | 119462 | 83.1 | 15 | 2 | 1582 | 1450 | - |
| 2 | 482866 | 60.9 | 8 | 1 | 1970 | - | - |
| 3 | 845899 | 77.7 | 13 | 2 | 1246 | 1231 | - |
| 4 | 1209262 | 77.4 | 13 | 2 | 1046 | 1225 | - |
| 5 | 74755 | 66.8 | 10 | 2 | 1587 | 1165 | - |
| 6 | 438159 | 63.7 | 9 | 1 | 1813 | - | - |
| 7 | 799839 | 91.2 | 18 | 3 | 1451 | 1528 | 1970 |

**Table 97. In-Service Monitoring, Bin 5, 5510 MHz, Table 26**

| Table 27 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 545416 | 83.6 | 15 | 3 | 1017 | 1990 | 1397 |
| 1 | 14066 | 89.4 | 17 | 3 | 1401 | 1948 | 1131 |
| 2 | 184961 | 55.8 | 6 | 1 | 1500 | - | - |
| 3 | 354333 | 90.9 | 18 | 3 | 1835 | 1325 | 1237 |
| 4 | 526694 | 54.7 | 6 | 1 | 1416 | - | - |
| 5 | 695652 | 97.7 | 20 | 3 | 1183 | 1142 | 1007 |
| 6 | 163430 | 67.5 | 10 | 2 | 1626 | 1970 | - |
| 7 | 333465 | 96.7 | 19 | 3 | 1371 | 1076 | 1764 |
| 8 | 504482 | 68.3 | 10 | 2 | 1596 | 1445 | - |
| 9 | 675424 | 78.3 | 14 | 2 | 1109 | 1431 | - |
| 10 | 142911 | 55 | 6 | 1 | 1324 | - | - |
| 11 | 312370 | 84.9 | 16 | 3 | 1386 | 1310 | 1812 |
| 12 | 483170 | 74.6 | 12 | 2 | 1723 | 1776 | - |
| 13 | 655500 | 63.3 | 9 | 1 | 1371 | - | - |
| 14 | 121408 | 99.8 | 20 | 3 | 1238 | 1335 | 1378 |
| 15 | 292829 | 63.6 | 9 | 1 | 1111 | - | - |
| 16 | 461438 | 87.3 | 16 | 3 | 1491 | 1704 | 1442 |

**Table 98. In-Service Monitoring, Bin 5, 5510 MHz, Table 27**

| Table 28 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 564587 | 85.6 | 16 | 3 | 1355 | 1726 | 1567 |
| 1 | 89838 | 68.6 | 10 | 2 | 1936 | 1791 | - |
| 2 | 243065 | 54.2 | 6 | 1 | 1256 | - | - |
| 3 | 395965 | 61.2 | 8 | 1 | 1213 | - | - |
| 4 | 546679 | 97.1 | 20 | 3 | 1554 | 1063 | 1088 |
| 5 | 71022 | 98.3 | 20 | 3 | 1038 | 1601 | 1618 |
| 6 | 224043 | 62.4 | 8 | 1 | 1796 | - | - |
| 7 | 375811 | 80.2 | 14 | 2 | 1736 | 1688 | - |
| 8 | 526524 | 87.5 | 17 | 3 | 1933 | 1524 | 1910 |
| 9 | 52332 | 85.8 | 16 | 3 | 1558 | 1072 | 1014 |
| 10 | 204270 | 88.1 | 17 | 3 | 1638 | 1320 | 1778 |
| 11 | 358389 | 65.3 | 9 | 1 | 1059 | - | - |
| 12 | 510583 | 52.5 | 5 | 1 | 1956 | - | - |
| 13 | 33661 | 52.3 | 5 | 1 | 2000 | - | - |
| 14 | 186091 | 74.1 | 12 | 2 | 1080 | 1807 | - |
| 15 | 339568 | 54.9 | 6 | 1 | 1031 | - | - |
| 16 | 490613 | 76.2 | 13 | 2 | 1518 | 1924 | - |
| 17 | 14864 | 60.4 | 8 | 1 | 1527 | - | - |
| 18 | 167448 | 81.5 | 15 | 2 | 1015 | 1351 | - |

**Table 99. In-Service Monitoring, Bin 5, 5510 MHz, Table 28**

| Table 29 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 508045 | 50.5 | 5 | 1 | 1196 | - | - |
| 1 | 749937 | 55.7 | 6 | 1 | 1661 | - | - |
| 2 | 989019 | 85.8 | 16 | 3 | 1656 | 1854 | 1218 |
| 3 | 235517 | 76.9 | 13 | 2 | 1772 | 1323 | - |
| 4 | 477346 | 75.1 | 13 | 2 | 1221 | 1773 | - |
| 5 | 718529 | 92.3 | 18 | 3 | 1122 | 1158 | 1577 |
| 6 | 960804 | 78.1 | 14 | 2 | 1503 | 1649 | - |
| 7 | 205421 | 92.2 | 18 | 3 | 1446 | 1589 | 1583 |
| 8 | 447174 | 89 | 17 | 3 | 1145 | 1370 | 1341 |
| 9 | 689823 | 70.9 | 11 | 2 | 1088 | 1246 | - |
| 10 | 932887 | 63.1 | 9 | 1 | 1157 | - | - |
| 11 | 176194 | 55.3 | 6 | 1 | 1731 | - | - |

**Table 100. In-Service Monitoring, Bin 5, 5510 MHz, Table 29**

| Table 30 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Burst ID** | **Burst Offset (us)** | **Pulse Width (us)** | **Chirp Width (MHz)** | **Number of Pulses per Burst** | **PRI-1 (us)** | **PRI-2 (us)** | **PRI-3 (us)** |
| 0 | 277683 | 83.4 | 15 | 3 | 1301 | 1213 | 1473 |
| 1 | 438503 | 97.3 | 20 | 3 | 1258 | 1057 | 1522 |
| 2 | 598617 | 90.4 | 17 | 3 | 1679 | 1090 | 1780 |
| 3 | 97142 | 91.8 | 18 | 3 | 1385 | 1491 | 1272 |
| 4 | 257779 | 98.2 | 20 | 3 | 1869 | 1055 | 1339 |
| 5 | 420304 | 59.5 | 8 | 1 | 1301 | - | - |
| 6 | 580095 | 80 | 14 | 2 | 1693 | 1417 | - |
| 7 | 77238 | 86.5 | 16 | 3 | 1548 | 1656 | 1903 |
| 8 | 237974 | 91.1 | 18 | 3 | 1379 | 1497 | 1433 |
| 9 | 398356 | 93.5 | 18 | 3 | 1360 | 1444 | 1937 |
| 10 | 561396 | 60.7 | 8 | 1 | 1778 | - | - |
| 11 | 57672 | 67.2 | 10 | 2 | 1157 | 1676 | - |
| 12 | 219189 | 61.8 | 8 | 1 | 1263 | - | - |
| 13 | 379317 | 79.4 | 14 | 2 | 1952 | 1503 | - |
| 14 | 540148 | 81.4 | 15 | 2 | 1926 | 1552 | - |
| 15 | 37944 | 65.7 | 10 | 1 | 1005 | - | - |
| 16 | 198981 | 76 | 13 | 2 | 1299 | 1065 | - |
| 17 | 360068 | 81 | 14 | 2 | 1163 | 1251 | - |

**Table 101. In-Service Monitoring, Bin 5, 5510 MHz, Table 30**