

## DFS Test Report

**Report No.:** RF161125E01B-3

**FCC ID:** PY316400361

**Test Model:** RBW30

**Received Date:** Dec. 02, 2016

**Test Date:** Mar. 03 to 10, 2017

**Issued Date:** Mar. 27, 2017

**Applicant:** NETGEAR, Inc.

**Address:** 350 East Plumeria Drive San Jose, CA 95134

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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Taiwan R.O.C.



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### Release Control Record

| Issue No.      | Description       | Date Issued   |
|----------------|-------------------|---------------|
| RF161125E01B-3 | Original release. | Mar. 27, 2017 |

## 1 Certificate of Conformity

**Product:** Orbi Wall Plug Satellite

**Brand:** NETGEAR

**Test Model:** RBW30

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** NETGEAR, Inc.

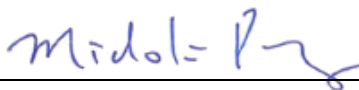
**Test Date:** Mar. 03 to 10, 2017

**Standards:** FCC Part 15, Subpart E (Section 15.407)

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**

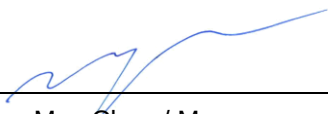


**Date:**

Mar. 27, 2017

Midoli Peng / Specialist

**Approved by :**



**Date:**

Mar. 27, 2017

May Chen / Manager

## 2 EUT Information

### 2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

| Operational Mode | Operating Frequency Range |              |
|------------------|---------------------------|--------------|
|                  | 5250~5350MHz              | 5470~5725MHz |
| Master           | ✓                         | ✓            |

### 2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

| No. | Product                  | Model No. | Software Version |
|-----|--------------------------|-----------|------------------|
| 1   | Orbi Wall Plug Satellite | RBW30     | V1.4.0.14_1.0.36 |

### 2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

| WLAN (Radio 1) Antenna      |                |                       |              |                |
|-----------------------------|----------------|-----------------------|--------------|----------------|
| Antenna No.                 | Ant. Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type |
| 1                           | 3              | 2.4~2.4835            | PIFA         | NA             |
|                             | 4.5            | 5.47~5.725            |              |                |
|                             | 4.4            | 5.725~5.85            |              |                |
| 2                           | 3.5            | 2.4~2.4835            | PIFA         | NA             |
|                             | 3.9            | 5.47~5.725            |              |                |
|                             | 4              | 5.725~5.85            |              |                |
| WLAN (Radio 2) Antenna      |                |                       |              |                |
| Antenna No.                 | Ant. Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type |
| 3                           | 3.6            | 5.15~5.25             | PIFA         | NA             |
|                             | 3.7            | 5.25~5.35             |              |                |
| 4                           | 3.2            | 5.15~5.25             | PIFA         | NA             |
|                             | 3.3            | 5.25~5.35             |              |                |
| Bluetooth (Radio 3) Antenna |                |                       |              |                |
| Antenna No.                 | Ant. Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type |
| 5                           | 2.1            | 2.4~2.4835            | Chip         | NA             |

The Directional gain table:

| Frequency (MHz) | Max Gain (dBi) |
|-----------------|----------------|
| 5260 ~ 5320     | 3.81           |
| 5500 ~ 5700     | 5.66           |

Note:

1. Non-TxBF mode & TxBF mode antenna gain refer to KDB 662911 F 2) f) (ii)

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

2. Above directional gain were calculated from actual measurement data.

## 2.4 EUT Maximum and Minimum Conducted Power

Table 4: The Measured Conducted Output Power

### 802.11a

| Frequency Band<br>(MHz) | MAX. Power           |                     | MIN. Power           |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 23.11                | 204.674             | 17.11                | 51.404              |
| 5470~5725               | 23.52                | 224.824             | 17.52                | 56.494              |

### 802.11ac (VHT20)

| Frequency Band<br>(MHz) | MAX. Power           |                     | MIN. Power           |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 23.48                | 222.878             | 17.48                | 55.976              |
| 5470~5725               | 23.76                | 237.807             | 17.76                | 59.704              |

### 802.11ac (VHT40)

| Frequency Band<br>(MHz) | MAX. Power           |                     | MIN. Power           |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 23.94                | 247.69              | 17.94                | 62.23               |
| 5470~5725               | 23.74                | 236.649             | 17.74                | 59.429              |

### 802.11ac (VHT80)

| Frequency Band<br>(MHz) | MAX. Power           |                     | MIN. Power           |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 20.1                 | 100.122             | 14.1                 | 25.704              |
| 5470~5725               | 22.58                | 181.053             | 16.58                | 45.499              |

## 2.5 EUT Maximum and Minimum EIRP Power

Table 5: The EIRP Output Power List

### 802.11a

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     | MIN. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 26.81                | 479.803             | 20.81                | 120.504             |
| 5470~5725               | 28.02                | 633.64              | 22.02                | 159.221             |

### 802.11ac (VHT20)

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     | MIN. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 27.29                | 535.88              | 21.29                | 134.586             |
| 5470~5725               | 29.42                | 875.436             | 23.42                | 219.786             |

### 802.11ac (VHT40)

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     | MIN. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 27.75                | 595.537             | 21.75                | 149.624             |
| 5470~5725               | 29.4                 | 871.174             | 23.4                 | 218.776             |

### 802.11ac (VHT80)

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     | MIN. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 23.82                | 240.73              | 17.82                | 60.534              |
| 5470~5725               | 28.24                | 666.509             | 22.24                | 167.494             |



## 2.6 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

| Applicable | EIRP   | FCC 15.407 (h)(1)                                                       |
|------------|--------|-------------------------------------------------------------------------|
| √          | >500mW | The TPC mechanism is required for system with an EIRP of above 500mW    |
|            | <500mW | The TPC mechanism is not required for system with an EIRP of less 500mW |

TPC is controlled by software and the user may adjust the Transmit Power level from web interface that may adjust the transmit power from web manually when the power needs to be increased or decreased.

## 2.7 Statement of Manufacturer

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

### 3. U-NII DFS Rule Requirements

#### 3.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Table 6: Applicability of DFS Requirements Prior To Use a Channel

| Requirement                                                                                                                                                                                                                                                                                                                                                                                               | Operational Mode |                                |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|-----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                           | Master           | Client without radar detection | Client with radar detection |
| Non-Occupancy Period                                                                                                                                                                                                                                                                                                                                                                                      | ✓                | ✓ note                         | ✓                           |
| DFS Detection Threshold                                                                                                                                                                                                                                                                                                                                                                                   | ✓                | Not required                   | ✓                           |
| Channel Availability Check Time                                                                                                                                                                                                                                                                                                                                                                           | ✓                | Not required                   | Not required                |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                 | ✓                | Not required                   | ✓                           |
| Note: Regarding KDB 905462 D03 Client Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel. |                  |                                |                             |

Table 7: Applicability of DFS Requirements during Normal Operation.

| Requirement                       | Operational Mode                      |                                |
|-----------------------------------|---------------------------------------|--------------------------------|
|                                   | Master or Client with radar detection | Client without radar detection |
| DFS Detection Threshold           | ✓                                     | Not required                   |
| Channel Closing Transmission Time | ✓                                     | ✓                              |
| Channel Move Time                 | ✓                                     | ✓                              |
| U-NII Detection Bandwidth         | ✓                                     | Not required                   |

| Additional requirements for devices with multiple bandwidth modes                                                                                                                                                                                                                                                                                     | Master or Client with radar detection | Client without radar detection                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check                                                                                                                                                                                                                                                                                           | All BW modes must be tested           | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time                                                                                                                                                                                                                                                                                               | Test using widest BW mode available   | Test using the widest BW mode available for the link |
| All other tests                                                                                                                                                                                                                                                                                                                                       | Any single BW mode                    | Not required                                         |
| Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. |                                       |                                                      |

### 3.2 Test Limits and Radar Signal Parameters

#### Detection Threshold Values

Table 8: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

| Maximum Transmit Power                                                          | Value<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                       | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                 | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the<br>power spectral density requirement | -64 dBm                          |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
 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.  
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: DFS Response Requirement Values

| Parameter                         | Value                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Non-occupancy period              | Minimum 30 minutes                                                                                        |
| Channel Availability Check Time   | 60 seconds                                                                                                |
| Channel Move Time                 | 10 seconds<br>See Note 1.                                                                                 |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3                                    |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
 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 to facilitate a Channel move (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 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### Parameters of DFS Test Signals

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.

Table 10: Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                           | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                    | Number of Pulses                                                                                                                      | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                                                                                                                                    | 1                  | 1428                                                                                                                                                          | 18                                                                                                                                    | See Note 1                                 | See Note 1               |
| 1                                                                                                                                    | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | $\text{Roundup} \left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\text{max}}} \right\} \right\}$ | 60%                                        | 30                       |
|                                                                                                                                      |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066μ sec, with a minimum increment of 1μ sec, excluding PRI values selected in Test A |                                                                                                                                       |                                            |                          |
| 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                      |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                                                                                                                                       |                                            |                          |

Table 11: Long Pulse Radar Test Waveform

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

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

- a) the Channel center frequency
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

$$FL + (0.4 * \text{Chirp Width [in MHz]})$$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

$$FH - (0.4 * \text{Chirp Width [in MHz]})$$

Table 12: 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 Number of Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--------------------------------------------|--------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 70%                                        | 30                       |

#### 4. Test & Support Equipment List

##### 4.1 Test Instruments

Table 13: Test Instruments List

| Description & Manufacturer      | Model No.   | Serial No        | Date of Calibration | Due Date of Calibration |
|---------------------------------|-------------|------------------|---------------------|-------------------------|
| Spectrum Analyzer Agilent       | N9030A      | MY54490679       | Jul. 23, 2016       | Jul. 22, 2017           |
| Vector Signal Generator Agilent | E4438CK-403 | ESG<br>E4_010001 | Aug. 10, 2016       | Aug. 09, 2017           |
| Horn_Antenna EMCO               | 1018G       | 0001             | Dec. 15, 2016       | Dec. 14, 2017           |
| DFS Control Box                 | BV-DFS-CB   | 001              | Sep. 18, 2016       | Sep. 17, 2017           |

##### 4.2 Description of Support Units

Table 14: Support Unit Information.

| No. | Product           | Brand | Model No. | FCC ID        | Spec |
|-----|-------------------|-------|-----------|---------------|------|
| 1   | Wireless LAN Unit | NEC   | NP05LM    | RRK-NECNP05LM | -    |

**NOTE:** This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

Table 15: Software/Firmware Information.

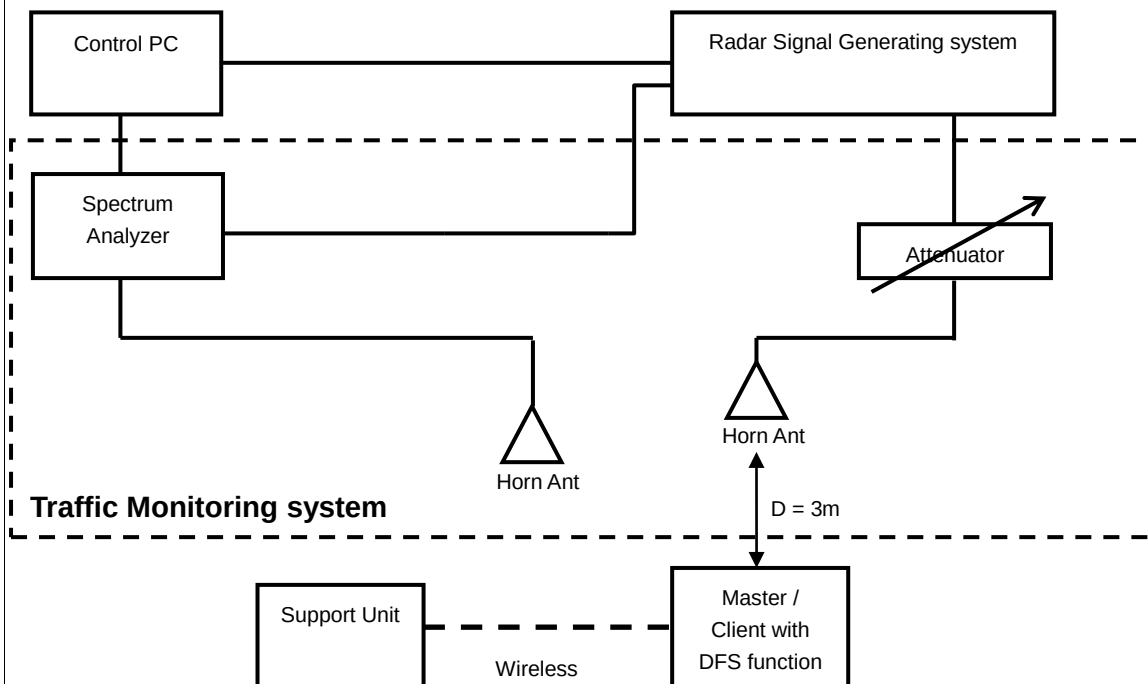
| No. | Product           | Model No. | Software/Firmware Version                       |
|-----|-------------------|-----------|-------------------------------------------------|
| 1   | Wireless LAN Unit | NP05LM    | Driver Version:<br>06/18/2014, 1026.12.606.2014 |

## 5. Test Procedure

### 5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating system and (2) the Traffic Monitoring system. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

#### Radiated Setup Configuration of DFS Measurement System



#### Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

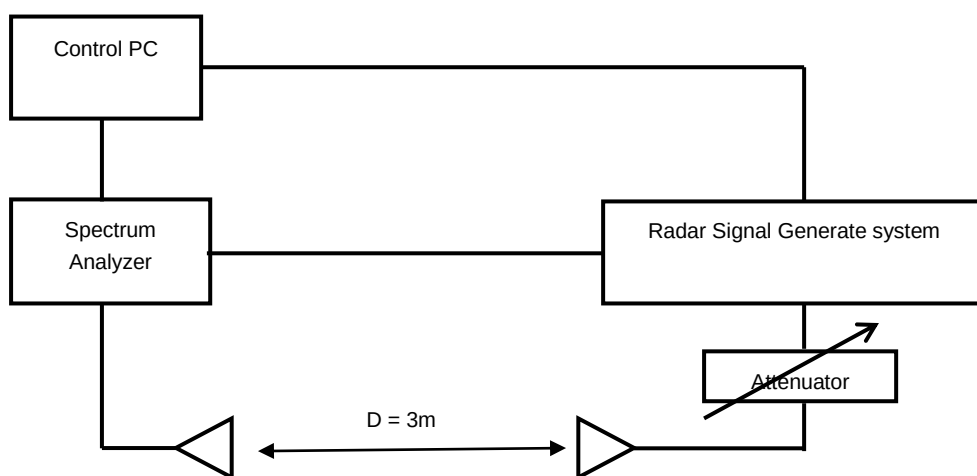
|    |                                                                                                                                                                         |   |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| a) | The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode. |   |
| b) | Software to ping the client is permitted to simulate data transfer but must have random ping intervals.                                                                 |   |
| c) | Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.                                                    | ✓ |
| d) | Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.                  |   |

## 5.2 Calibration of DFS Detection Threshold Level

The measured channel is 5300MHz and 5310MHz and 5290MHz and 5500MHz and 5510MHz and 5530MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

### Radiated setup configuration of Calibration of DFS Detection Threshold Level

The calibrated conducted detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.



## 5.3 Deviation from Test Standard

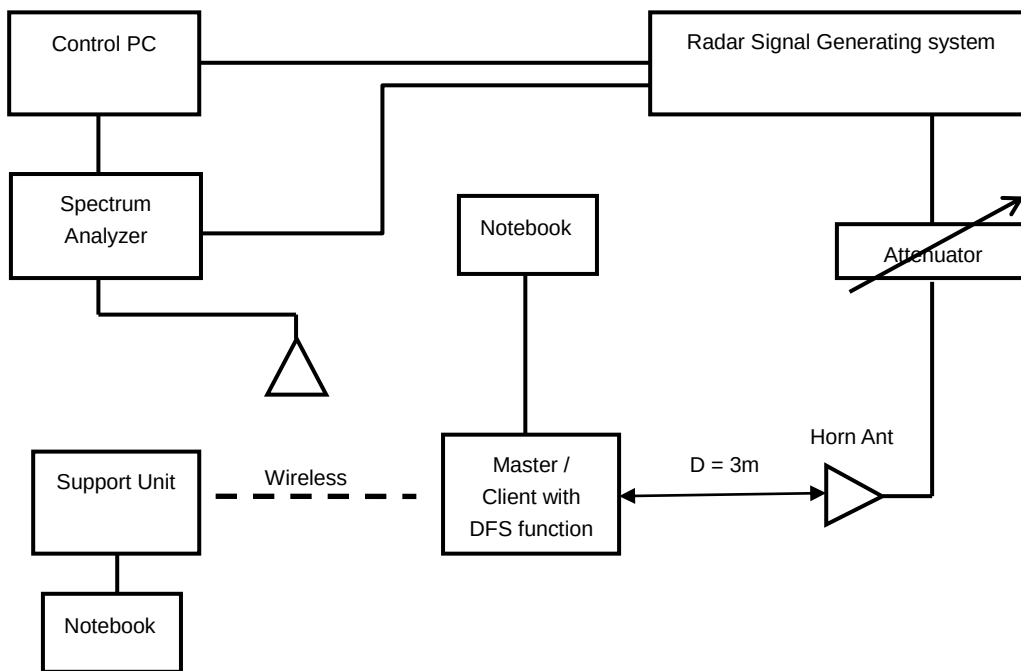
No deviation.



## 5.4 Radiated Test Setup Configuration

### Master mode

The EUT is a U-NII Device operating in Master mode. The radar test signals are injected into the Master Device.



Note: The UUT main beam of the antenna is directly toward the radar emitter during testing.

## 6. Test Results

### 6.1 Summary of Test Results

| Clause | Test Parameter                    | Remarks    | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable | Pass      |
| 15.407 | Channel Availability Check Time   | Applicable | Pass      |
| 15.407 | Channel Move Time                 | Applicable | Pass      |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass      |
| 15.407 | Non- Occupancy Period             | Applicable | Pass      |
| 15.407 | U-NII Detection Bandwidth         | Applicable | Pass      |

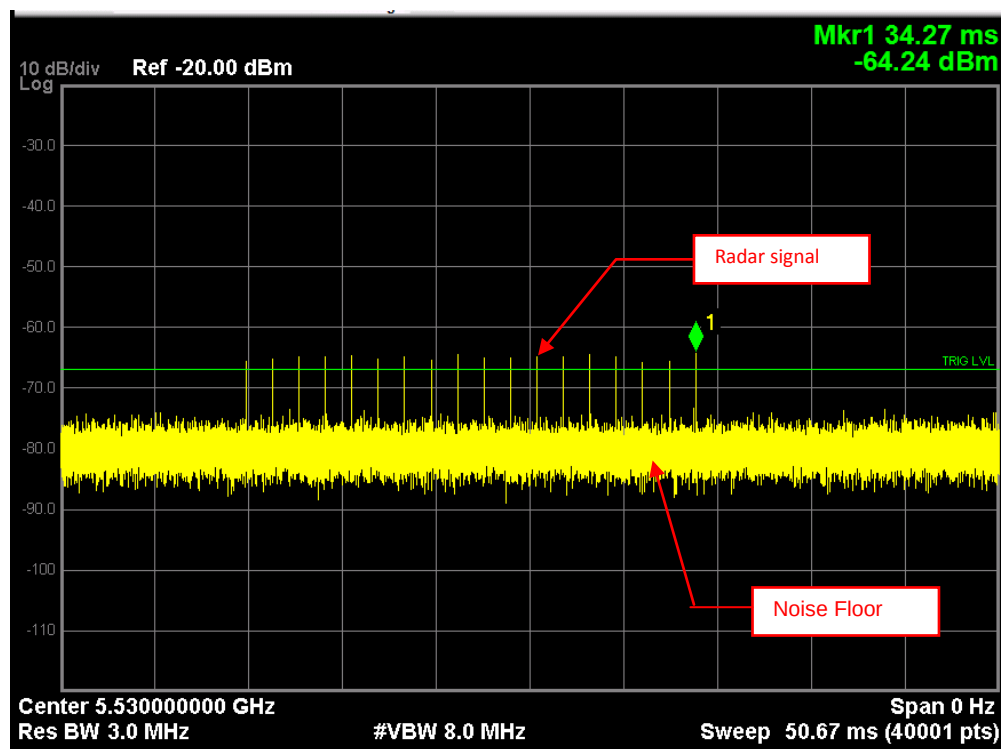
## 6.2 Test Results

### 6.2.1 Test Mode: Device Operating In Master Mode.

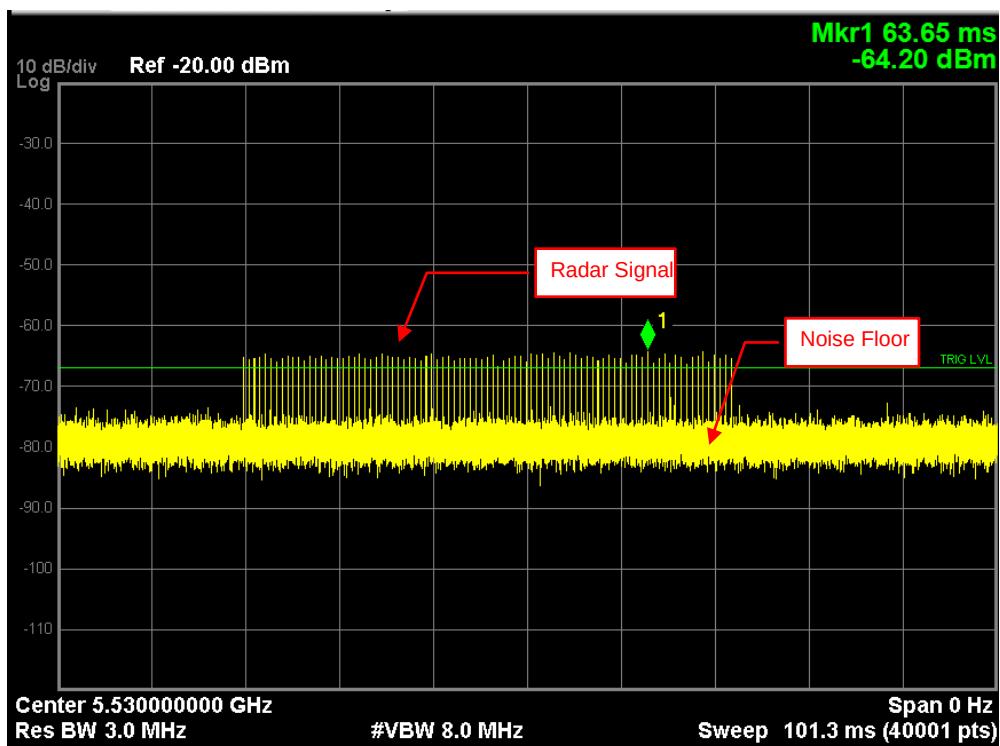
The radar test waveforms are injected into the Master.  
 This test was investigated for different bandwidth (20MHz, 40MHz and 80MHz).  
 The following plots were done on 80MHz as a representative.

#### DFS Detection Threshold

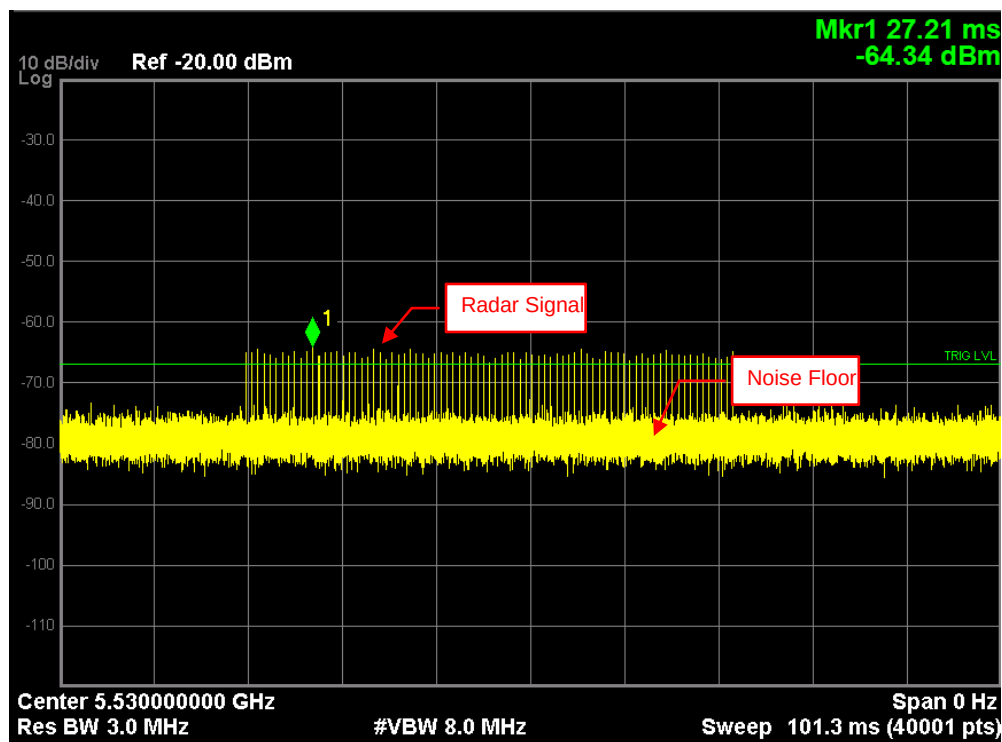
For detection threshold level of -64dBm, the tested level is lower than required level for 1dB, hence it provides margin to the limit.



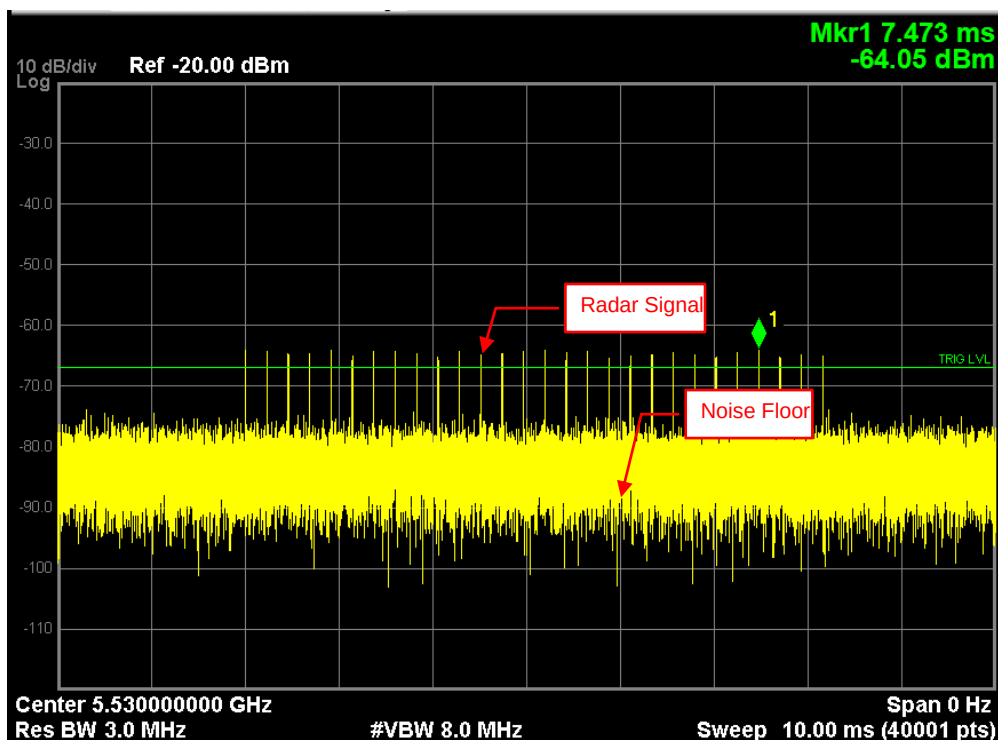
Radar Signal 0



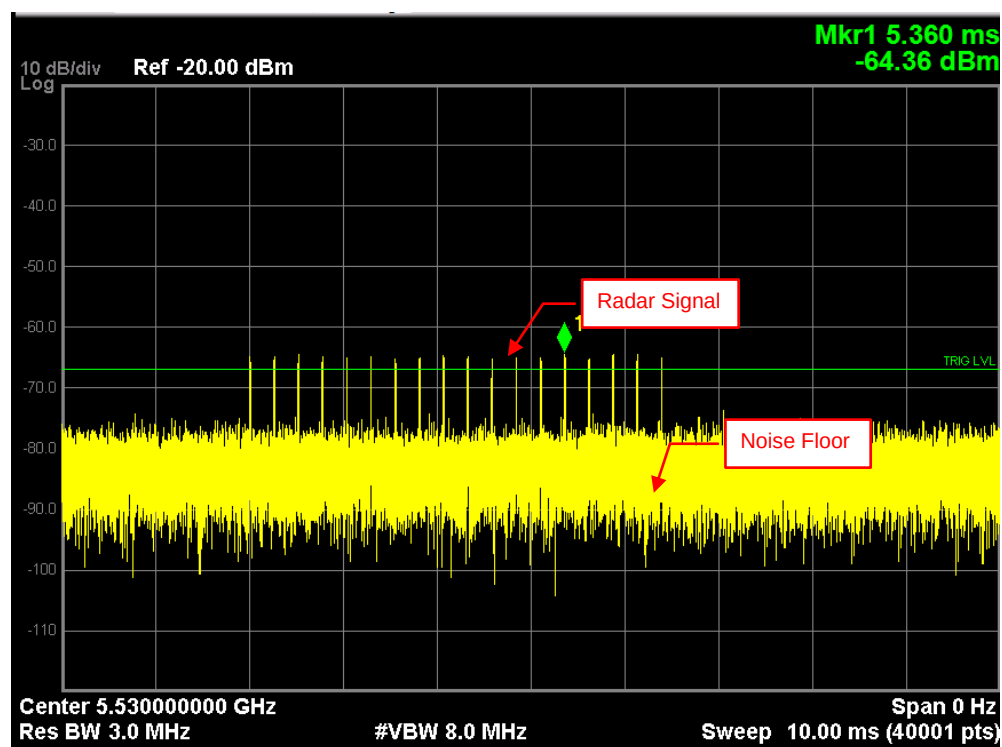
Radar Signal 1 (Test A)



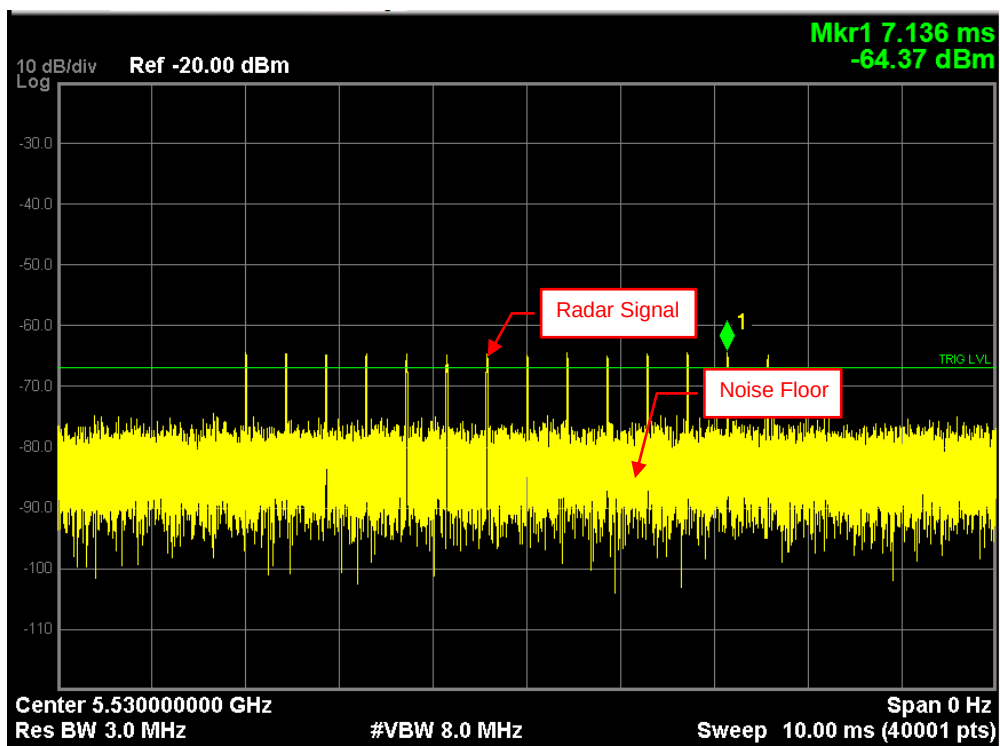
Radar Signal 1 (Test B)



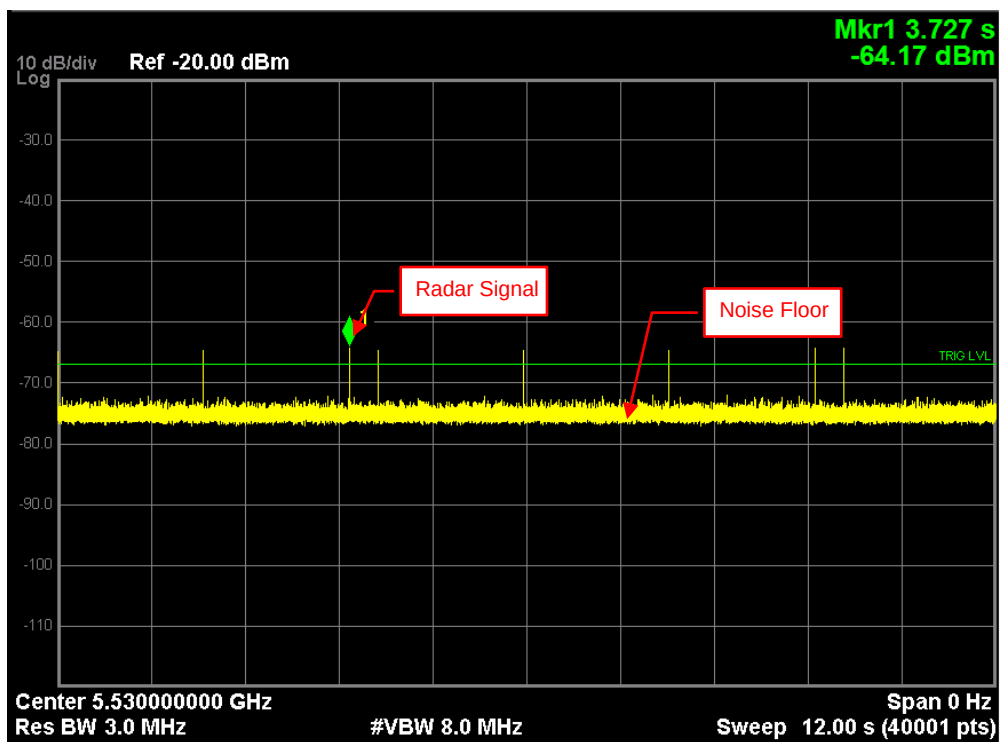
Radar Signal 2



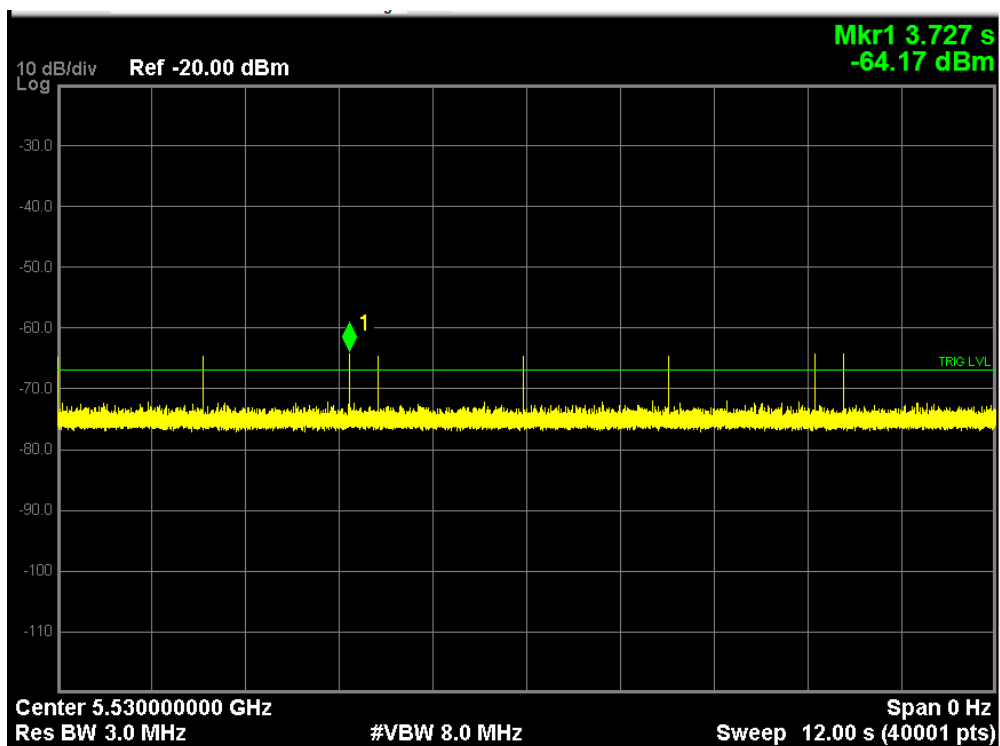
Radar Signal 3



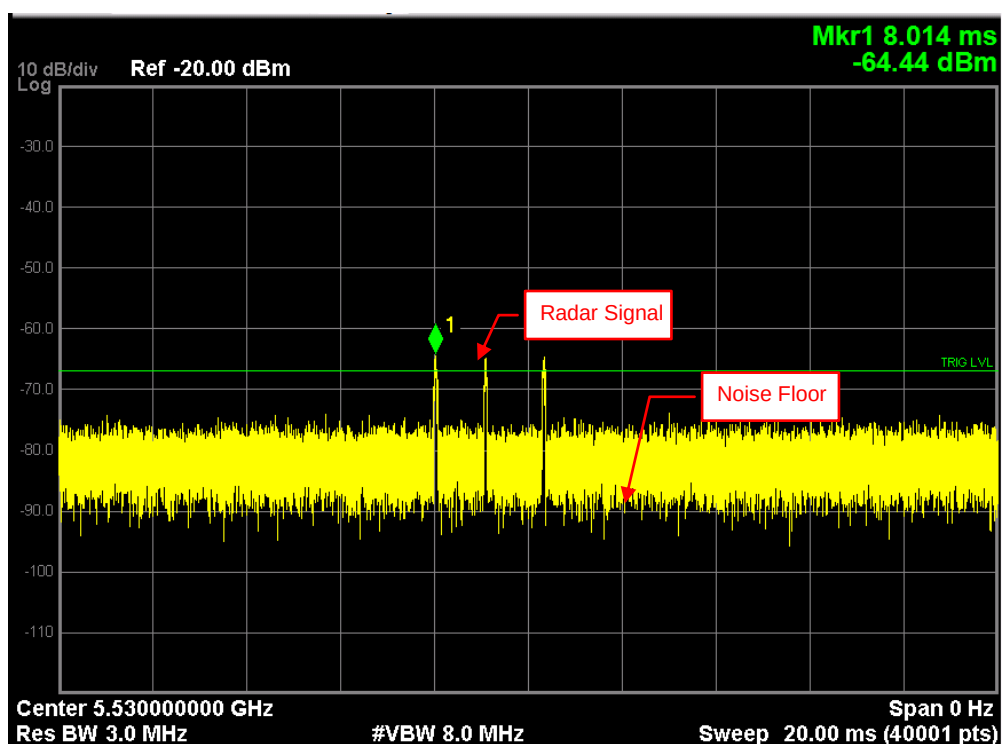
Single Burst of Radar Signal 4



Radar Signal 5



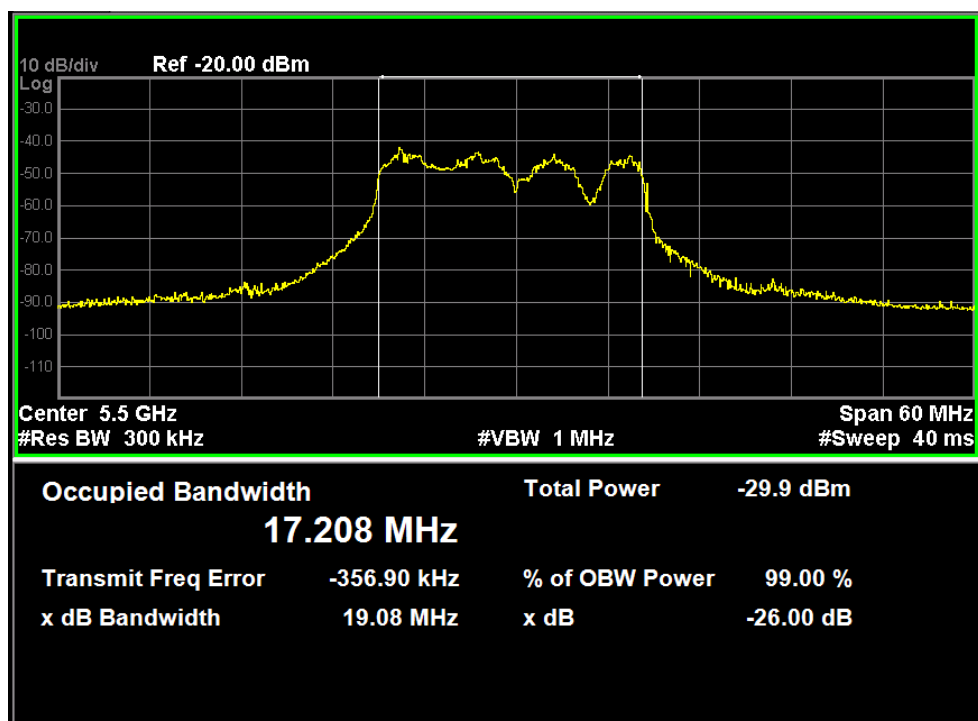
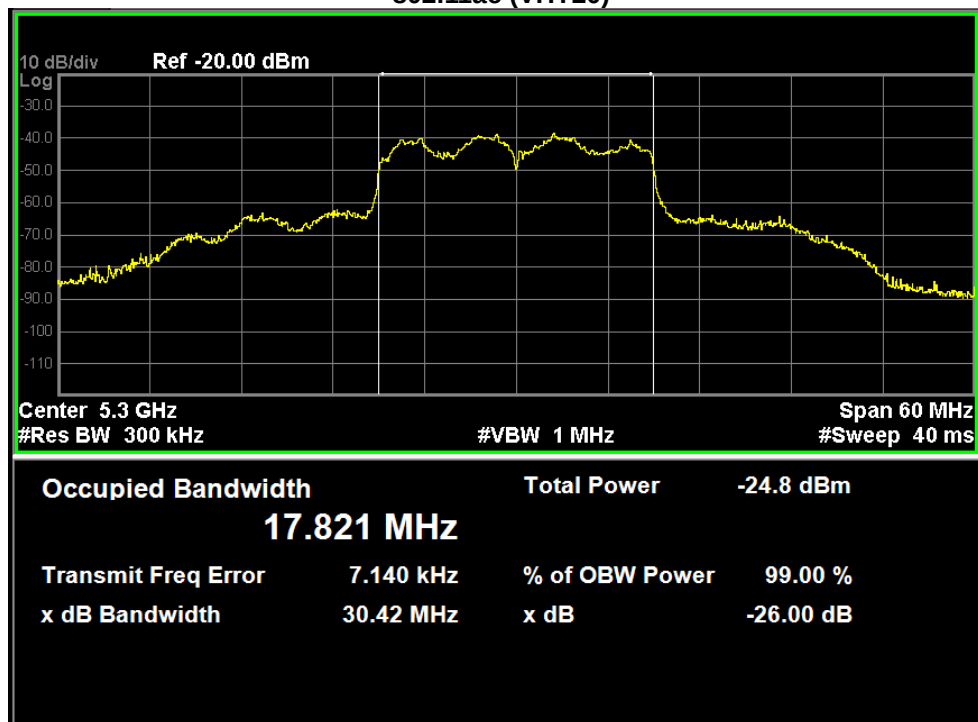
Single Burst of Radar Signal 5



Radar Signal 6

## 6.2.2 U-NII Detection Bandwidth

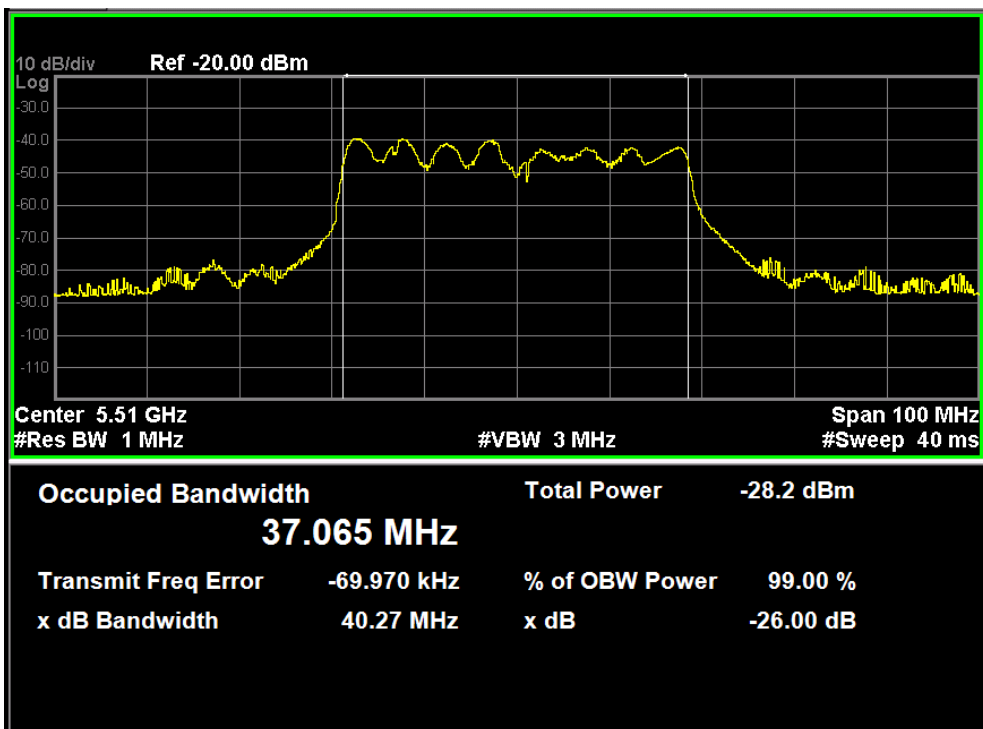
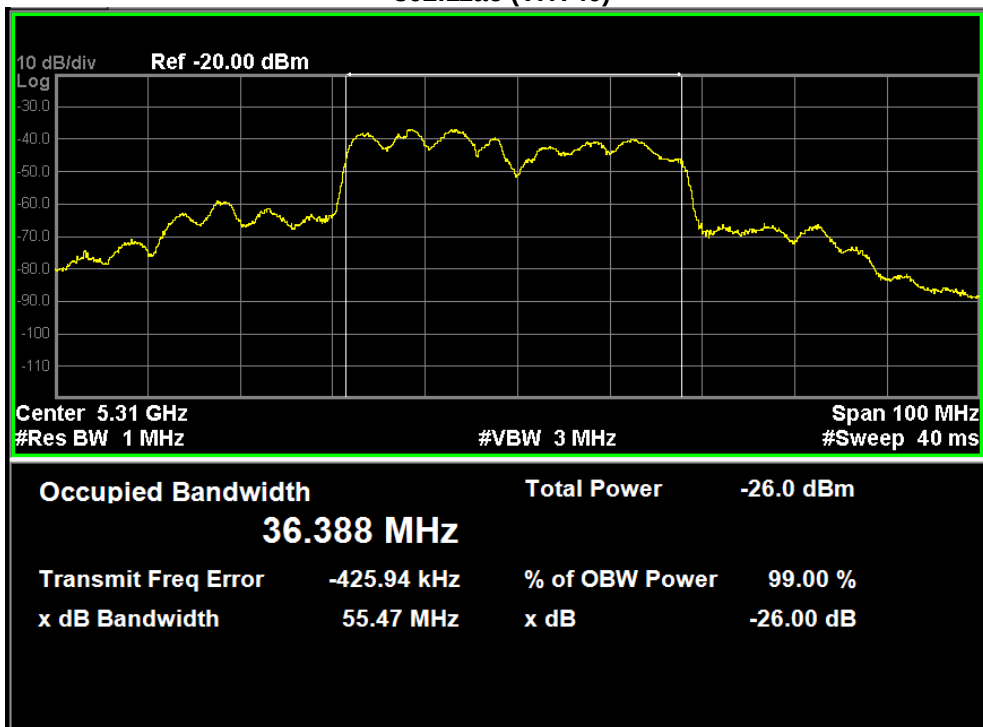
### 802.11ac (VHT20)



U-NII 99% Channel bandwidth

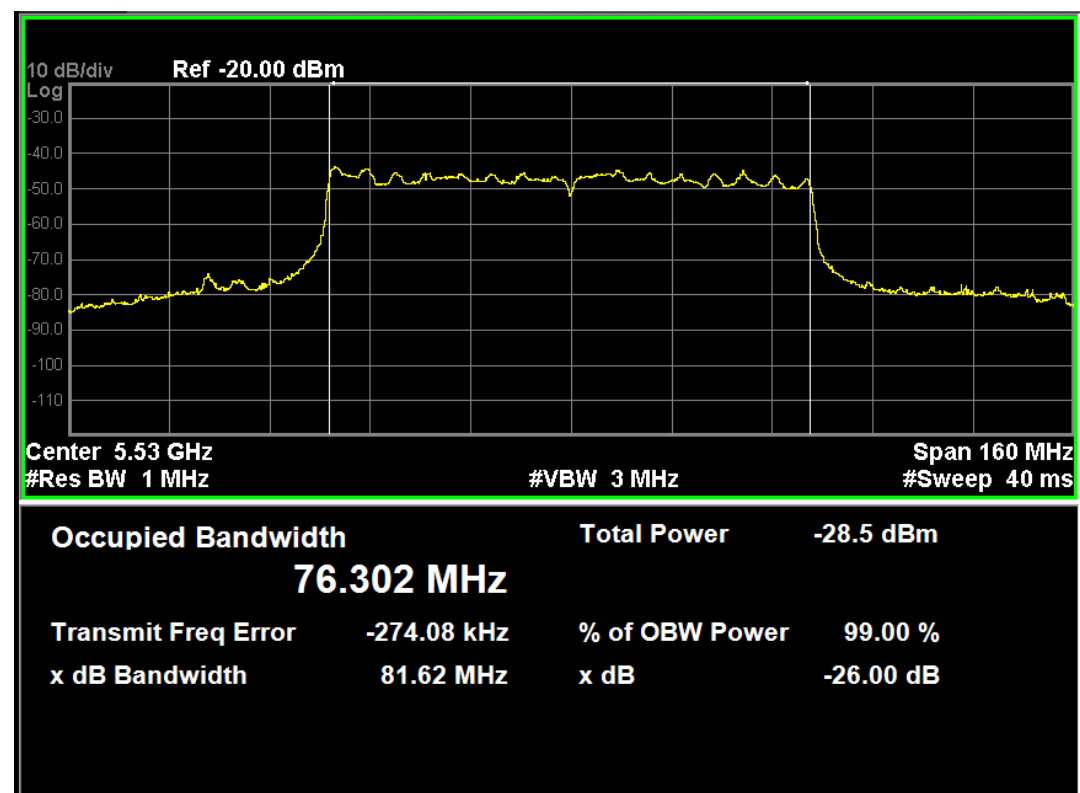
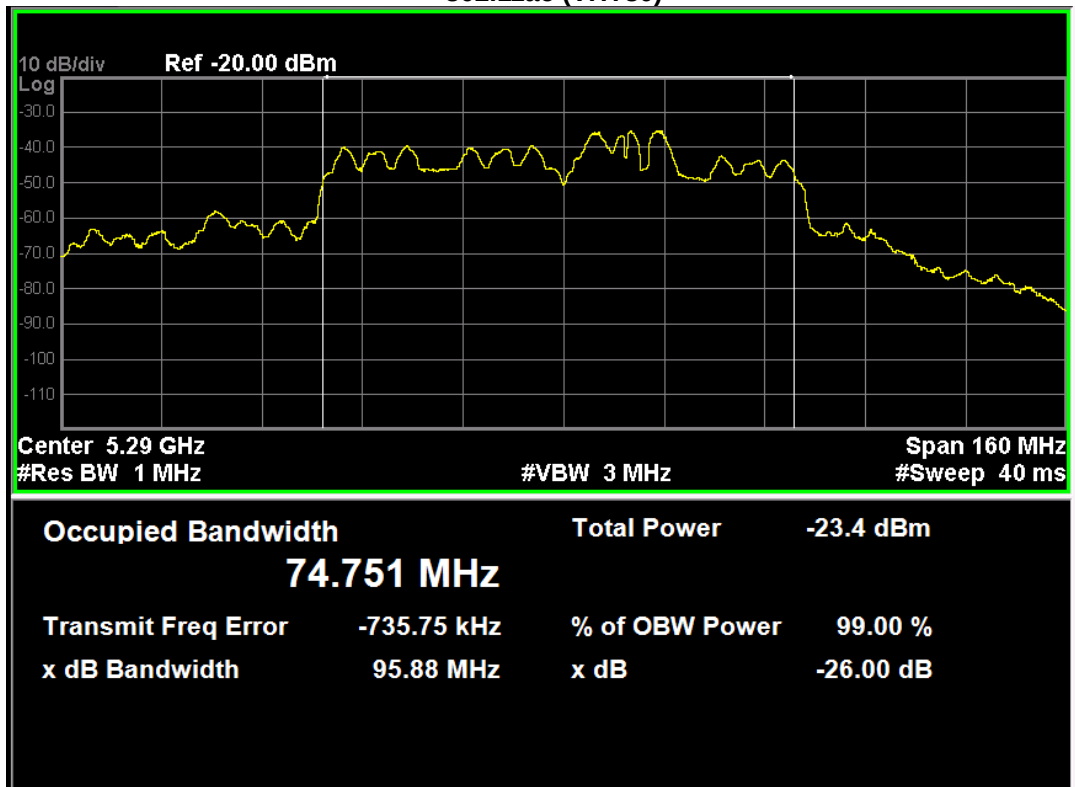


### 802.11ac (VHT40)



U-NII 99% Channel bandwidth

### 802.11ac (VHT80)



U-NII 99% Channel bandwidth

**Detection Bandwidth Test - 802.11ac (VHT20)**

Radar Type 0

EUT Frequency: 5300MHz

EUT 99% Power bandwidth: 17.821MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 17.821MHz

Detection bandwidth (5309(FH) – 5291(FL)) : 18MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|-----------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
|                             | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5.291G(FL)                  | Yes                      | Yes | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90                    |
| 5.292G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.293G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.294G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.295G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.296G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.297G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.298G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.299G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.300G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.301G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.302G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.303G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.304G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.305G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.306G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.307G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.308G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.309G(FH)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |

**Detection Bandwidth Test - 802.11ac (VHT20)**

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 17.208MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 17.208MHz

Detection bandwidth (5509(FH) – 5491(FL)) : 18MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|-----------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
|                             | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5.491G(FL)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | 90                    |
| 5.492G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.493G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.494G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.495G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.496G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.497G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.498G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.499G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.500G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.501G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.502G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.503G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.504G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.505G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.506G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.507G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.508G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.509G(FH)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |

**Detection Bandwidth Test - 802.11ac (VHT40)**

Radar Type 0

EUT Frequency: 5310MHz

EUT 99% Power bandwidth: 36.388MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.388MHz

Detection bandwidth (5329(FH) – 5291(FL)) : 38MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|-----------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
|                             | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5.291G(FL)                  | Yes                      | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90                    |
| 5.292G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.293G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.294G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.295G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.296G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.297G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.298G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.299G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.300G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.301G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.302G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.303G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.304G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.305G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.306G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.307G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.308G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.309G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.310G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.311G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.312G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.313G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.314G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.315G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.316G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.317G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.318G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.319G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.320G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.321G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.322G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.323G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.324G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.325G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.326G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.327G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.328G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.329G(FH)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |

**Detection Bandwidth Test - 802.11ac (VHT40)**

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 37.065MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.065MHz

Detection bandwidth (5529(FH) – 5491(FL)) : 38MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|-----------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
|                             | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5.491G(FL)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.492G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.493G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.494G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.495G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.496G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.497G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.498G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.499G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.500G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.501G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.502G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.503G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.504G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.505G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.506G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.507G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.508G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.509G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.510G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | 90                    |
| 5.511G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.512G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.513G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.514G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.515G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.516G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.517G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.518G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.519G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.520G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.521G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.522G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.523G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.524G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.525G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.526G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.527G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.528G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.529G(FH)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |

| Detection Bandwidth Test - 802.11ac (VHT80)                            |                          |     |     |     |     |     |     |     |     |     |                    |
|------------------------------------------------------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| Radar Type 0                                                           |                          |     |     |     |     |     |     |     |     |     |                    |
| EUT Frequency: 5290MHz                                                 |                          |     |     |     |     |     |     |     |     |     |                    |
| EUT 99% Power bandwidth: 74.751MHz                                     |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection bandwidth limit (100% of EUT 99% Power bandwidth): 74.751MHz |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection bandwidth (5328(FH) – 5252(FL)) : 76MHz                      |                          |     |     |     |     |     |     |     |     |     |                    |
| Test Result : PASS                                                     |                          |     |     |     |     |     |     |     |     |     |                    |
| Radar Frequency (MHz)                                                  | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|                                                                        | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5.252G(FL)                                                             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | 90                 |
| 5.253G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.254G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.255G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.256G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.257G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.258G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.259G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.260G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.261G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.262G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.263G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.264G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.265G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.266G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.267G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.268G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.269G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.270G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.271G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.272G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.273G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.274G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.275G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.276G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.277G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.278G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.279G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.280G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.281G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.282G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.283G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.284G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.285G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.286G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.287G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.288G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.289G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.290G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.291G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.292G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.293G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.294G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.295G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.296G                                                                 | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |

|            |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5.297G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.298G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.299G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.300G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.301G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.302G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.303G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.304G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.305G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.306G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.307G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.308G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.309G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.310G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.311G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.312G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.313G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.314G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.315G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.316G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.317G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.318G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.319G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.320G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.321G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.322G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.323G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.324G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.325G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.326G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.327G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.328G(FH) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |



**Detection Bandwidth Test - 802.11ac (VHT80)**

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 76.302MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 76.302MHz

Detection bandwidth (5569(FH) – 5491(FL)) : 78MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection<br>Rate (%) |
|-----------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
|                             | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                       |
| 5.491G(FL)                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.492G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.493G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.494G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.495G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.496G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.497G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.498G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.499G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.500G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.501G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.502G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.503G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.504G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.505G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.506G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.507G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.508G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.509G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.510G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.511G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.512G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.513G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.514G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.515G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.516G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.517G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.518G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.519G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.520G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.521G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.522G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.523G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.524G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.525G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.526G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.527G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.528G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.529G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.530G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | 90                    |
| 5.531G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.532G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.533G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.534G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |
| 5.535G                      | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                   |

|            |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5.536G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.537G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.538G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.539G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.540G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.541G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.542G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.543G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.544G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.545G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.546G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.547G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.548G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.549G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.550G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.551G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.552G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.553G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.554G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.555G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.556G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.557G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.558G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.559G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.560G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.561G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.562G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.563G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.564G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.565G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.566G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.567G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.567G     | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 5.569G(FH) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |

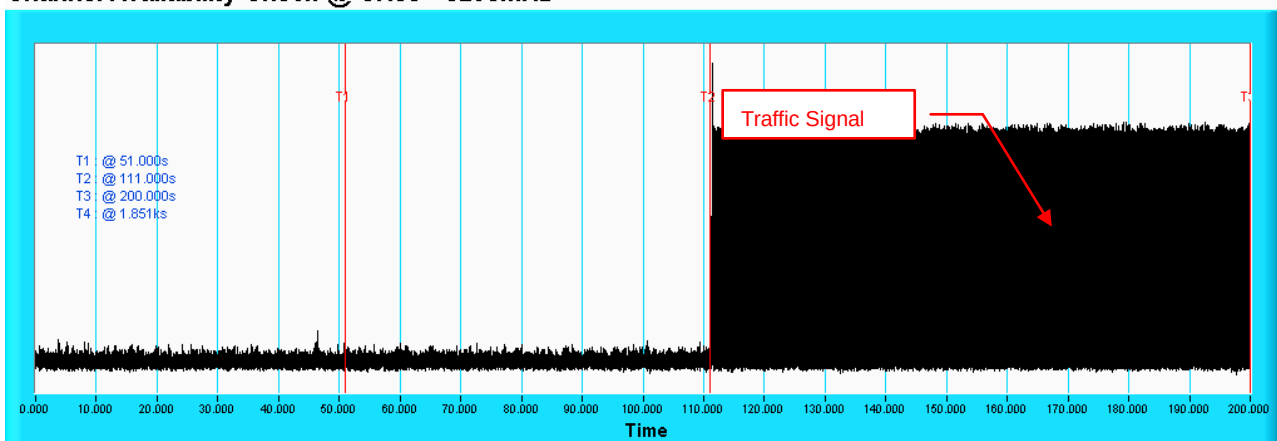
### 6.2.3 Channel Availability Check Time

If the EUT successfully detected the radar burst, it should be observed as the EUT has no transmissions occurred until the EUT starts transmitting on another channel.

| Timing of Radar Signal | Observation |                   |
|------------------------|-------------|-------------------|
|                        | EUT         | Spectrum Analyzer |
| Within 1 to 6 second   | Detected    | No transmissions  |
| Within 54 to 60 second | Detected    | No transmissions  |

#### Initial Channel Availability Check Time

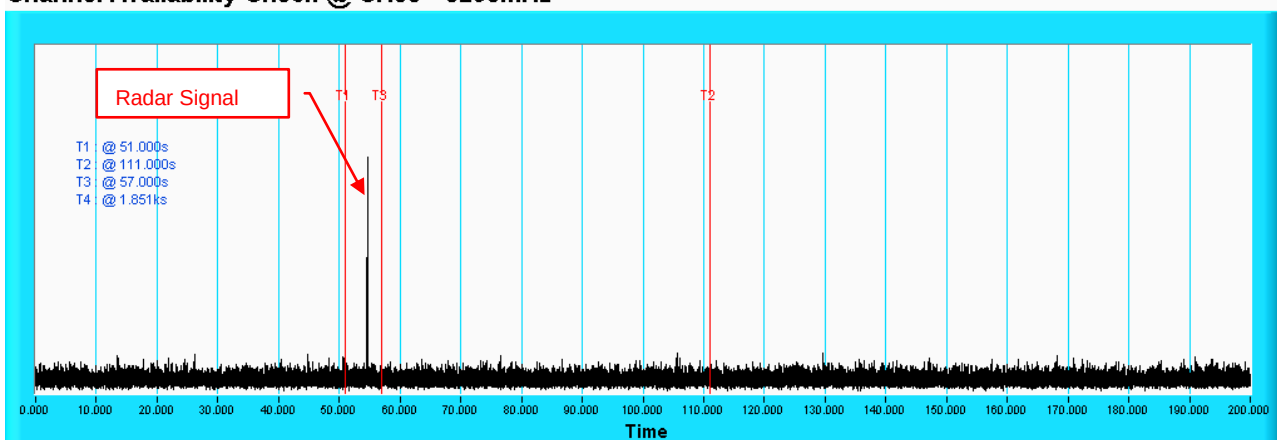
##### Channel Availability Check @ CH58 - 5290MHz



**NOTE:** T1 denotes the end of power-up time period is 51<sup>th</sup> second. T2 denotes the end of Channel Availability Check time is 111<sup>th</sup> second. Channel Availability Check time is equal to ( T2 – T1) 60 seconds.

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

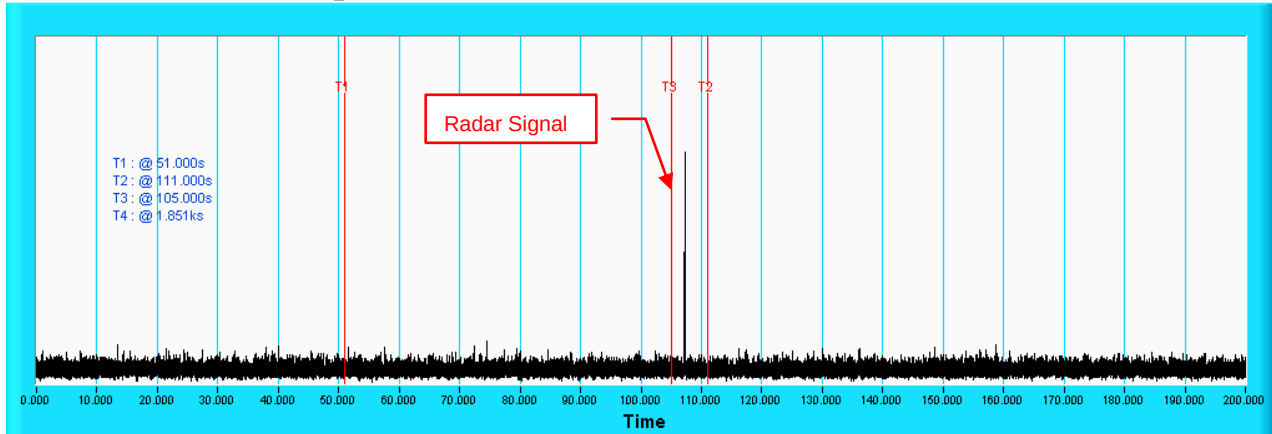
##### Channel Availability Check @ CH58 - 5290MHz



**NOTE:** T1 denotes the end of power up time period is 51<sup>th</sup> second. T3 denotes 57<sup>th</sup> second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T2 denotes the 111<sup>th</sup> second.

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

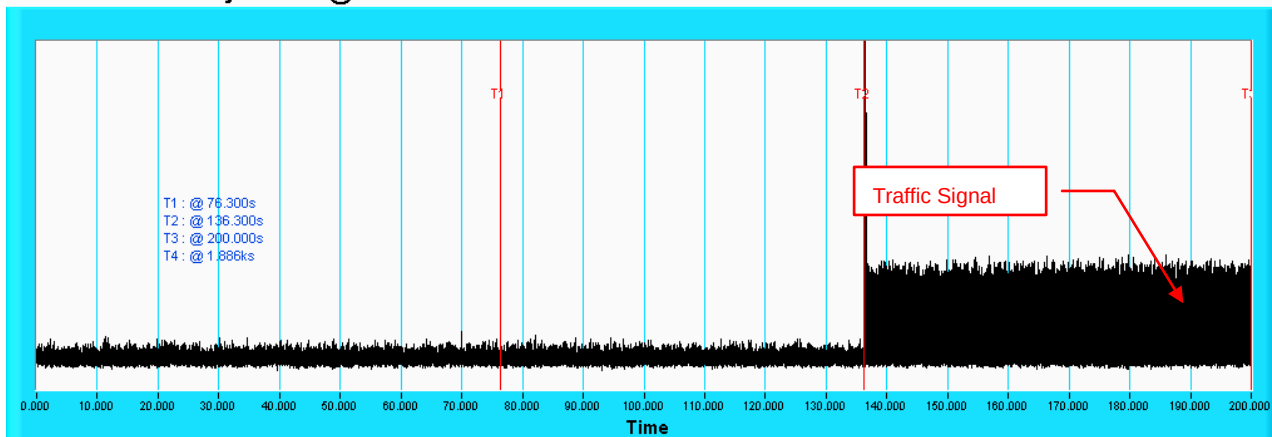
### Channel Availability Check @ CH58 - 5290MHz



**NOTE:** T1 denotes the end of power up time period is 51<sup>th</sup> second. T3 denotes 105<sup>th</sup> second and the radar burst was commenced within 54<sup>th</sup> second to 60<sup>th</sup> second window starting from the end of power-up sequence. T2 denotes the 111<sup>th</sup> second.

## Initial Channel Availability Check Time

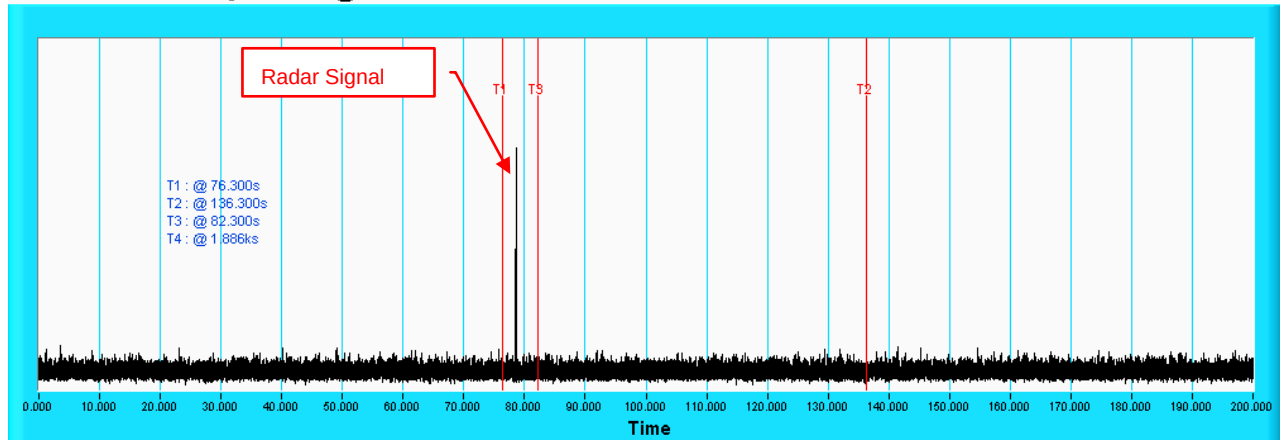
### Channel Availability Check @ CH106 - 5530MHz



**NOTE:** T1 denotes the end of power-up time period is 76.3<sup>th</sup> second. T2 denotes the end of Channel Availability Check time is 136.3<sup>th</sup> second. Channel Availability Check time is equal to ( T2 – T1) 60 seconds.

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

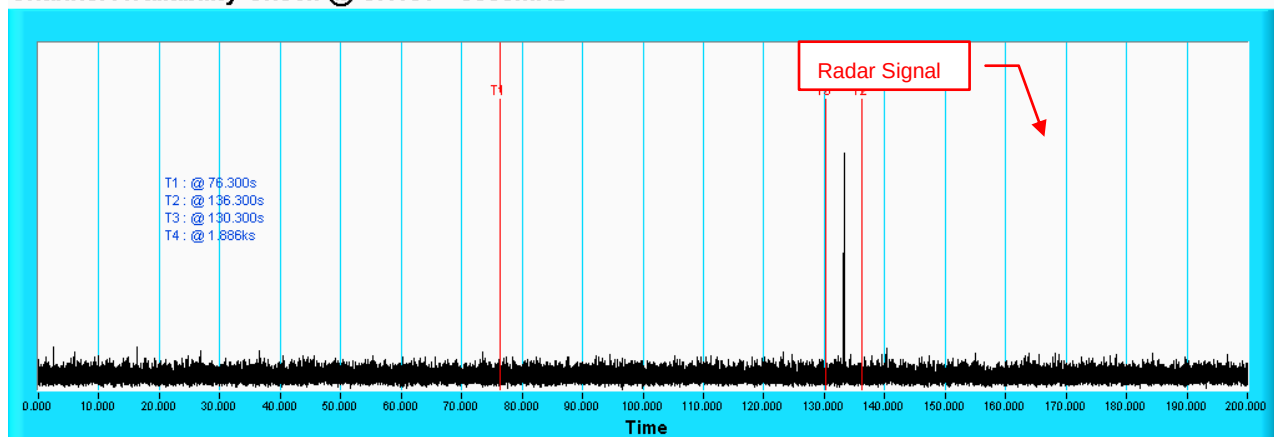
### Channel Availability Check @ CH106 - 5530MHz



**NOTE:** T1 denotes the end of power up time period is 76.3<sup>th</sup> second. T3 denotes 82.3<sup>th</sup> second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T2 denotes the 136.3<sup>th</sup> second.

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

### Channel Availability Check @ CH106 - 5530MHz



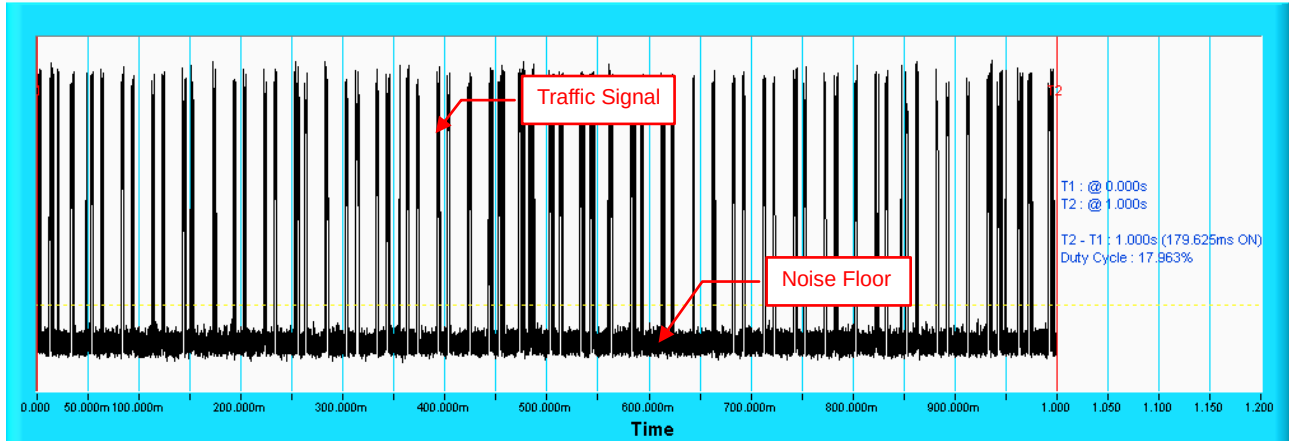
**NOTE:** T1 denotes the end of power up time period is 76.3<sup>th</sup> second. T3 denotes 136.3<sup>th</sup> second and the radar burst was commenced within 54<sup>th</sup> second to 60<sup>th</sup> second window starting from the end of power-up sequence. T2 denotes the 130.3<sup>th</sup> second.

## 6.2.4 Channel Closing Transmission and Channel Move Time

### Wireless Traffic Loading

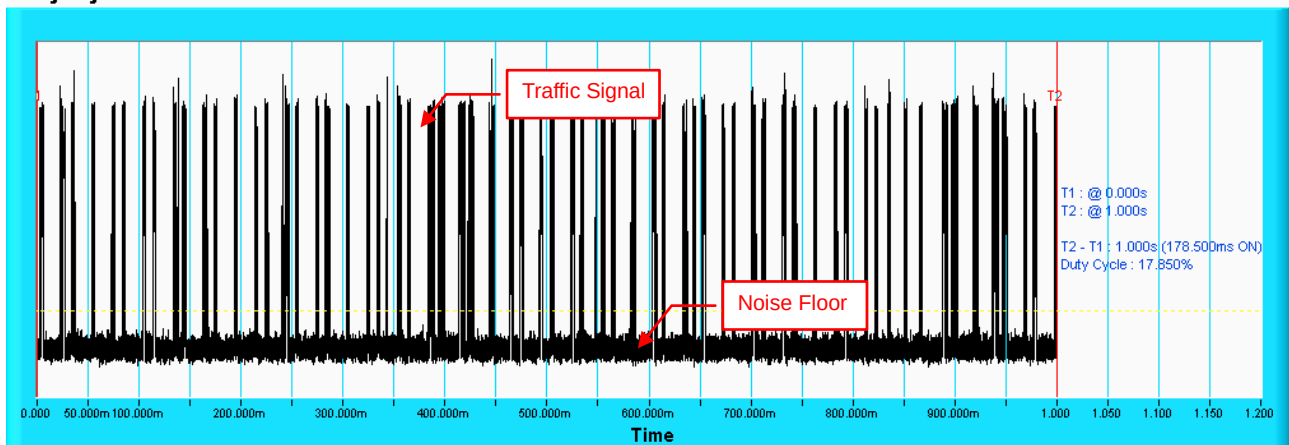
#### 802.11ac (VHT20)

##### Duty Cycle



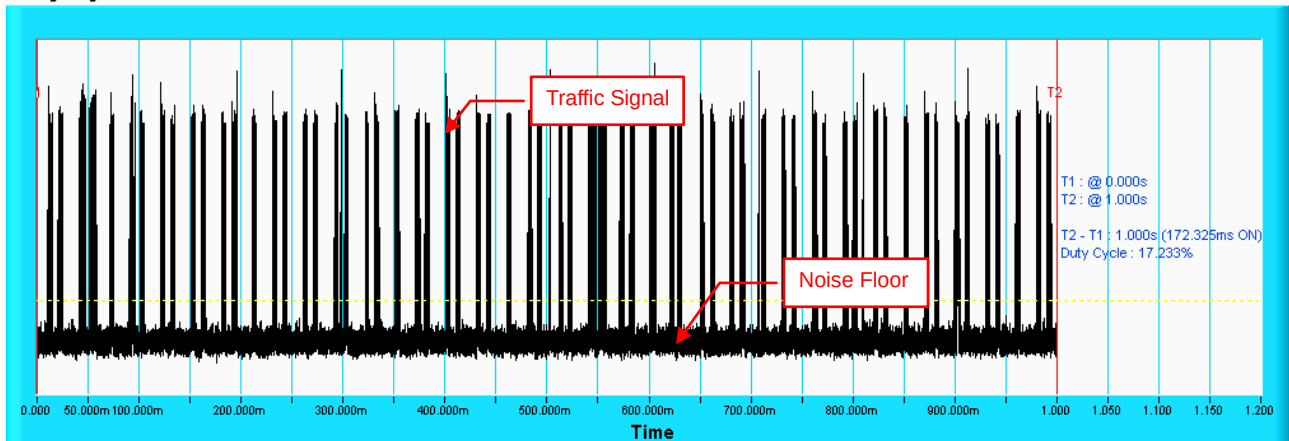
#### 802.11ac (VHT40)

##### Duty Cycle



#### 802.11ac (VHT80)

##### Duty Cycle



### 802.11ac (VHT20) CH60

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                    | PRI (μsec)                                                                                                                                                             | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>-----<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A | $\text{Roundup} \left\{ \begin{array}{l} \left( \frac{1}{360} \right) \cdot \\ \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \end{array} \right\}$ | 18               | 30                      | 83.3                                   |
| 2                           | 1-5                                                                                                                                                                                                                                                                   | 150-230                                                                                                                                                                | 23-29            | 30                      | 80                                     |
| 3                           | 6-10                                                                                                                                                                                                                                                                  | 200-500                                                                                                                                                                | 16-18            | 30                      | 86.7                                   |
| 4                           | 11-20                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                                                | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                  | 120                     | 83.3                                   |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 83.3                                   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 90                                     |



# 802.11ac (VHT20) CH100

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                    | PRI (μsec)                                                                                                                                                             | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>-----<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A | $\text{Roundup} \left\{ \begin{array}{l} \left( \frac{1}{360} \right) \cdot \\ \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \end{array} \right\}$ | 18               | 30                      | 86.7                                   |
| 2                           | 1-5                                                                                                                                                                                                                                                                   | 150-230                                                                                                                                                                | 23-29            | 30                      | 93.3                                   |
| 3                           | 6-10                                                                                                                                                                                                                                                                  | 200-500                                                                                                                                                                | 16-18            | 30                      | 90                                     |
| 4                           | 11-20                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                                                | 12-16            | 30                      | 90                                     |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                  | 120                     | 90                                     |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 90                                     |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 86.7                                   |

**802.11ac (VHT40)CH62**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                    | PRI (μsec)                                                                                                                                          | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>-----<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A | $\left\{ \begin{array}{l} \frac{1}{360} \\ \text{Roundup} \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right\} \end{array} \right\}$ | 18               | 30                      | 80                                     |
| 2                           | 1-5                                                                                                                                                                                                                                                                   | 150-230                                                                                                                                             | 23-29            | 30                      | 86.7                                   |
| 3                           | 6-10                                                                                                                                                                                                                                                                  | 200-500                                                                                                                                             | 16-18            | 30                      | 83.3                                   |
| 4                           | 11-20                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                             | 12-16            | 30                      | 86.7                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                       |                                                                                                                                                     |                  | 120                     | 84.2                                   |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 86.7                                   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 90                                     |

**802.11ac (VHT40)CH102**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                    | PRI (μsec)                                                                                                                                          | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>-----<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A | $\left\{ \begin{array}{l} \frac{1}{360} \\ \text{Roundup} \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right\} \end{array} \right\}$ | 18               | 30                      | 90                                     |
| 2                           | 1-5                                                                                                                                                                                                                                                                   | 150-230                                                                                                                                             | 23-29            | 30                      | 86.7                                   |
| 3                           | 6-10                                                                                                                                                                                                                                                                  | 200-500                                                                                                                                             | 16-18            | 30                      | 93.3                                   |
| 4                           | 11-20                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                             | 12-16            | 30                      | 90                                     |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                       |                                                                                                                                                     |                  | 120                     | 90                                     |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 86.7                                   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 93.3                                   |

# 802.11ac (VHT80)CH58

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                                   | PRI (μsec)                                                                                                                             | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \right\}$ | 18               | 30                      | 93.3                                   |
| 2                           | 1-5                                                                                                                                                                                                                                                                                  | 150-230                                                                                                                                | 23-29            | 30                      | 86.7                                   |
| 3                           | 6-10                                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                | 16-18            | 30                      | 80                                     |
| 4                           | 11-20                                                                                                                                                                                                                                                                                | 200-500                                                                                                                                | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                  | 120                     | 85.8                                   |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 83.3                                   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 93.3                                   |



# 802.11ac (VHT80)CH106

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                                   | PRI (μsec)                                                                                                                             | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \right\}$ | 18               | 30                      | 86.7                                   |
| 2                           | 1-5                                                                                                                                                                                                                                                                                  | 150-230                                                                                                                                | 23-29            | 30                      | 90                                     |
| 3                           | 6-10                                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                | 16-18            | 30                      | 86.7                                   |
| 4                           | 11-20                                                                                                                                                                                                                                                                                | 200-500                                                                                                                                | 12-16            | 30                      | 80                                     |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                  | 120                     | 85.8                                   |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 90                                     |

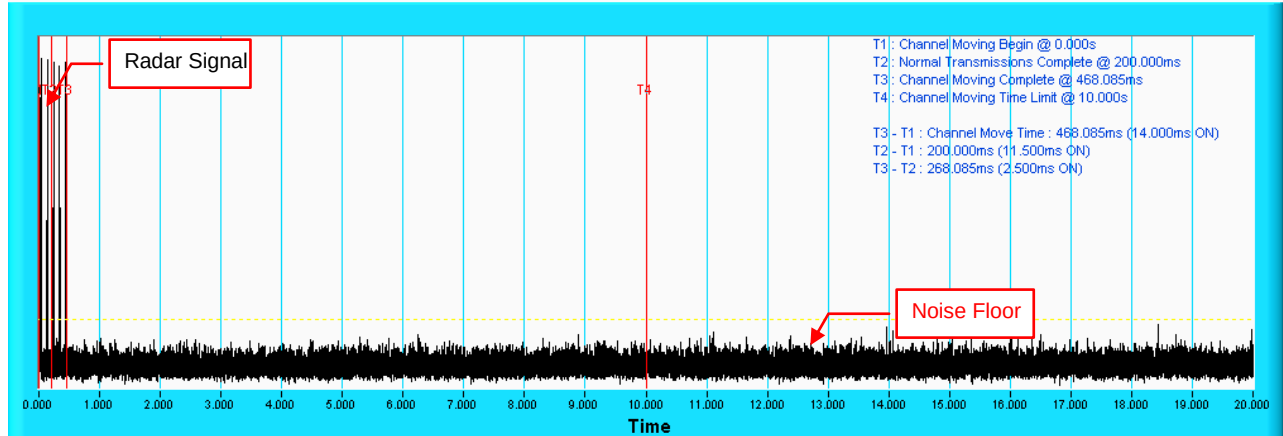
Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 86.7                                   |

## Radar signal 0

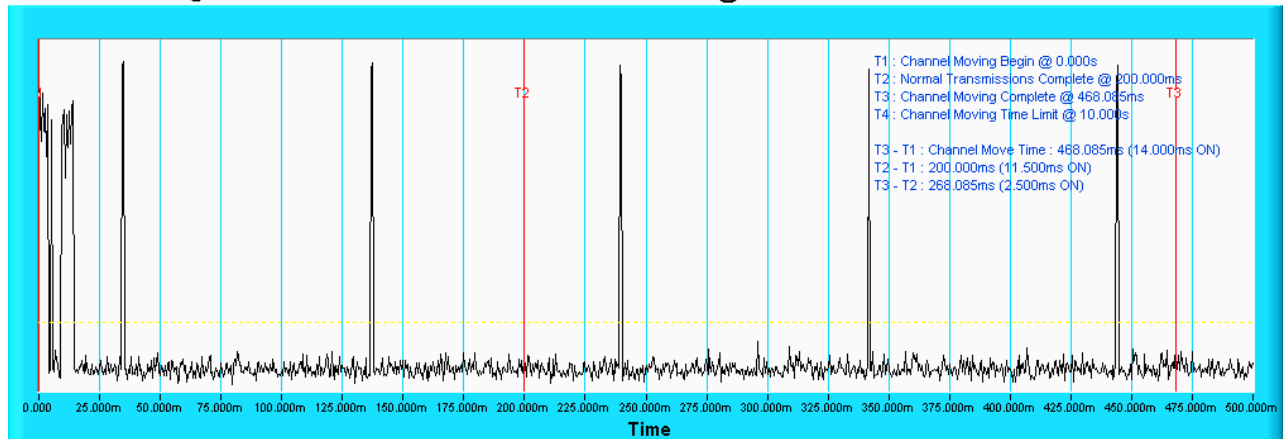
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz

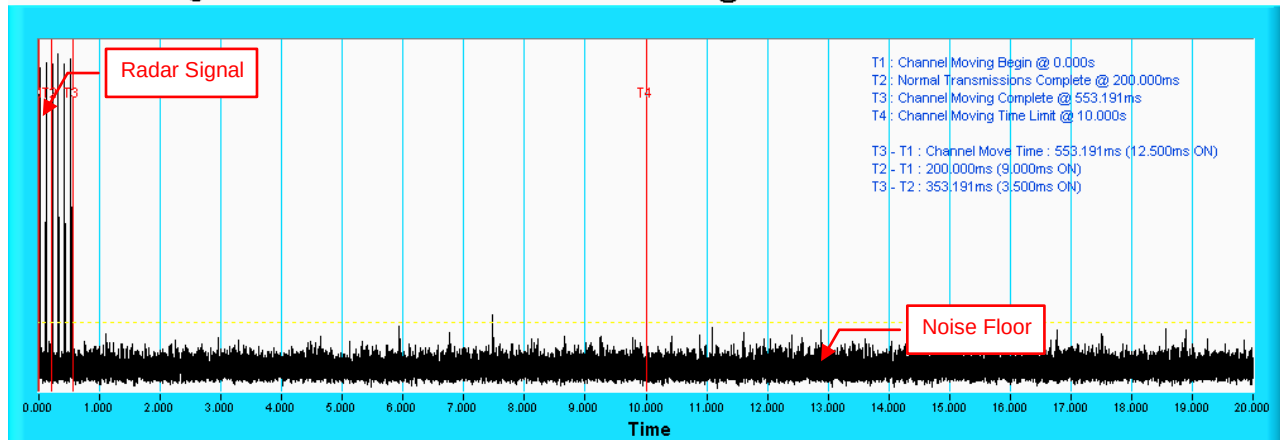


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 1

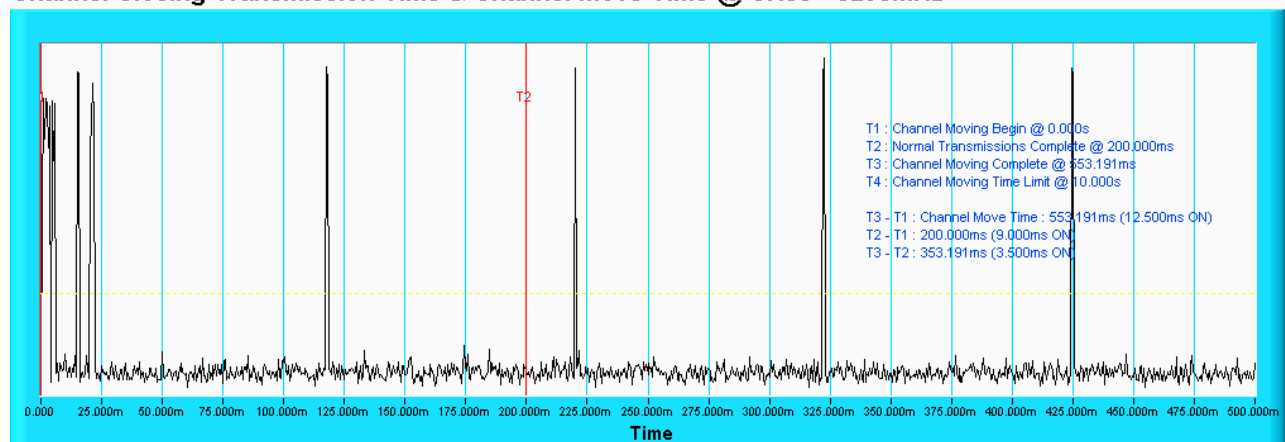
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz

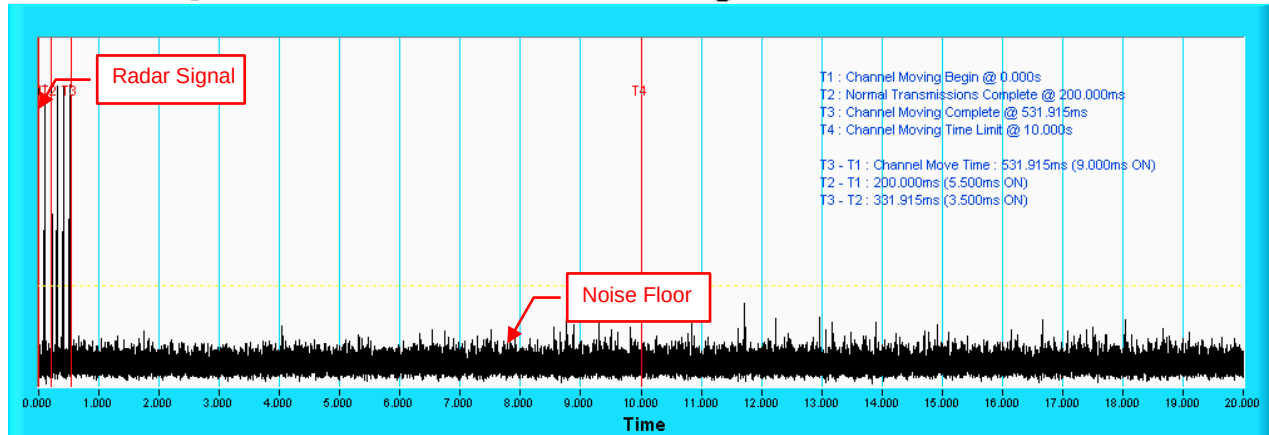


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 2

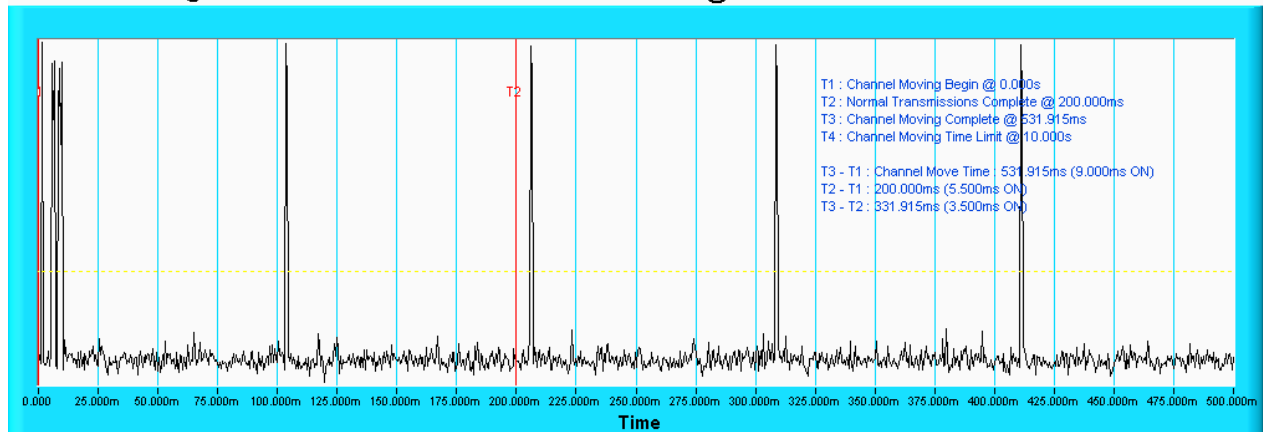
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz

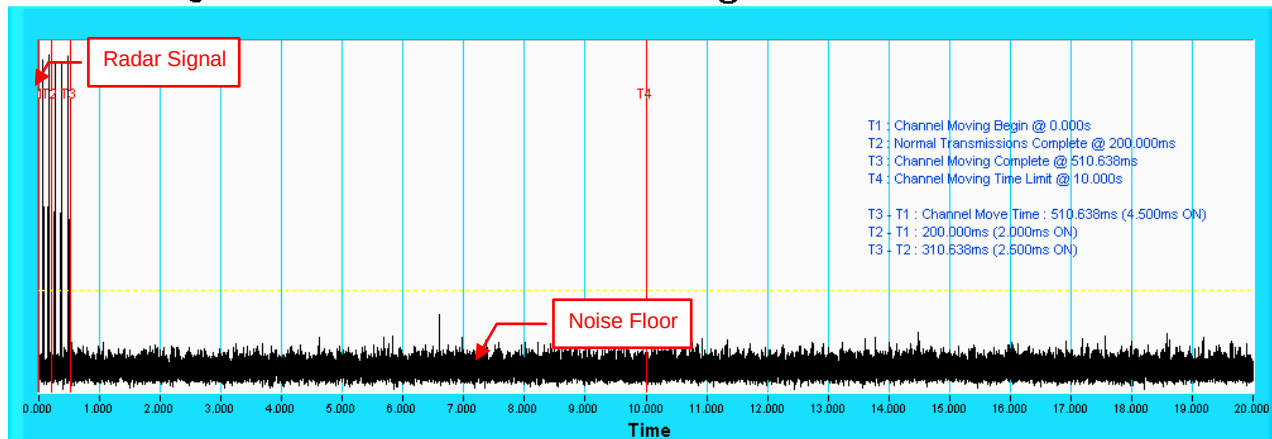


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 3

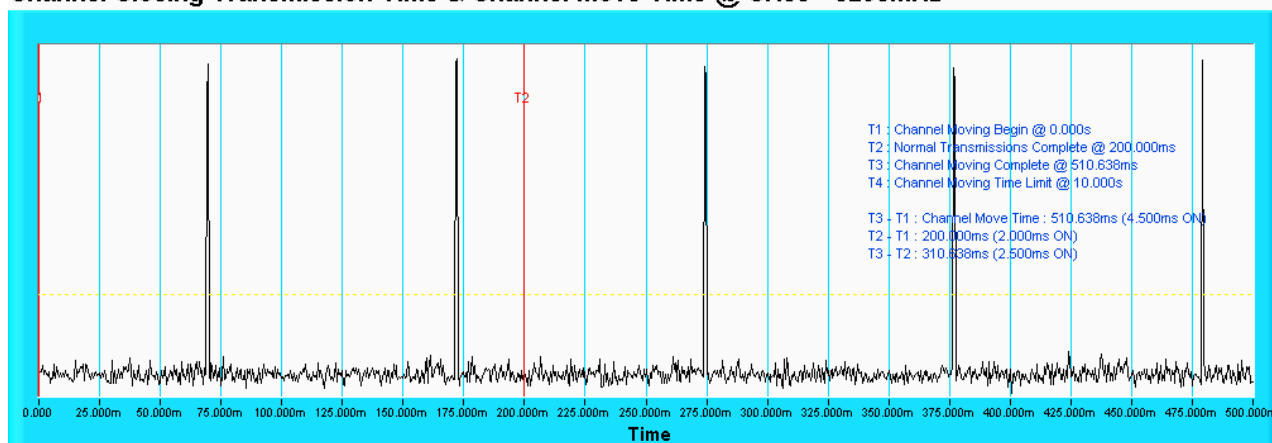
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz

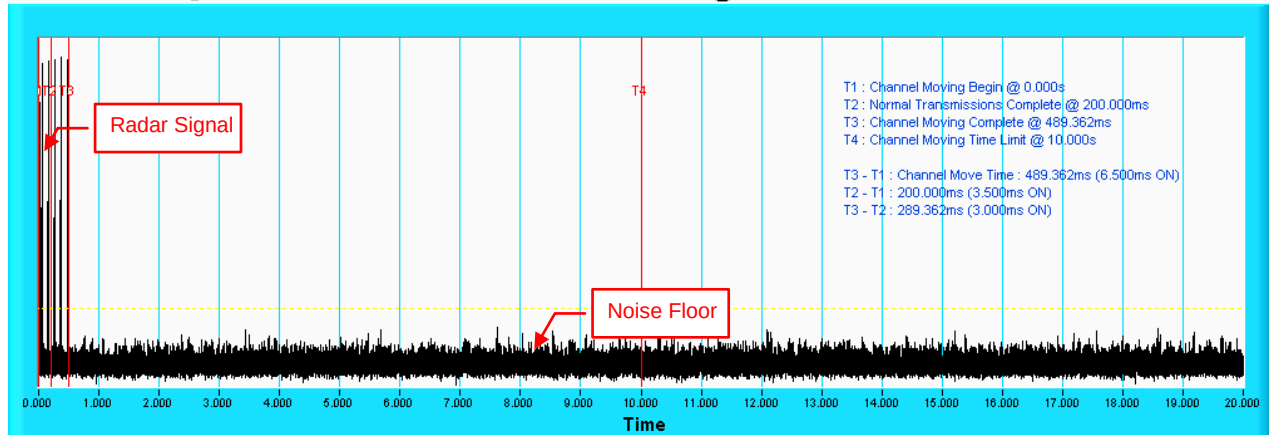


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 4

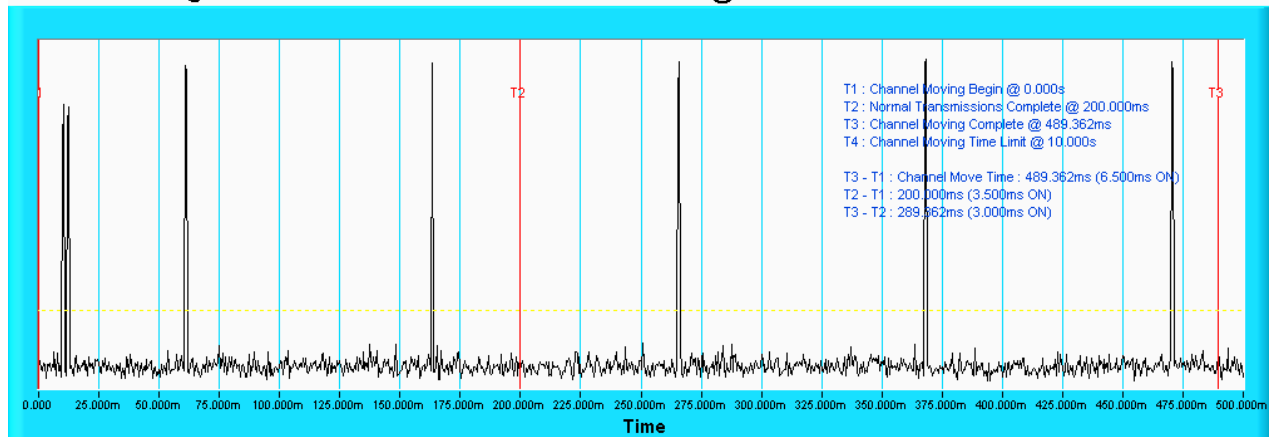
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH58 - 5290MHz

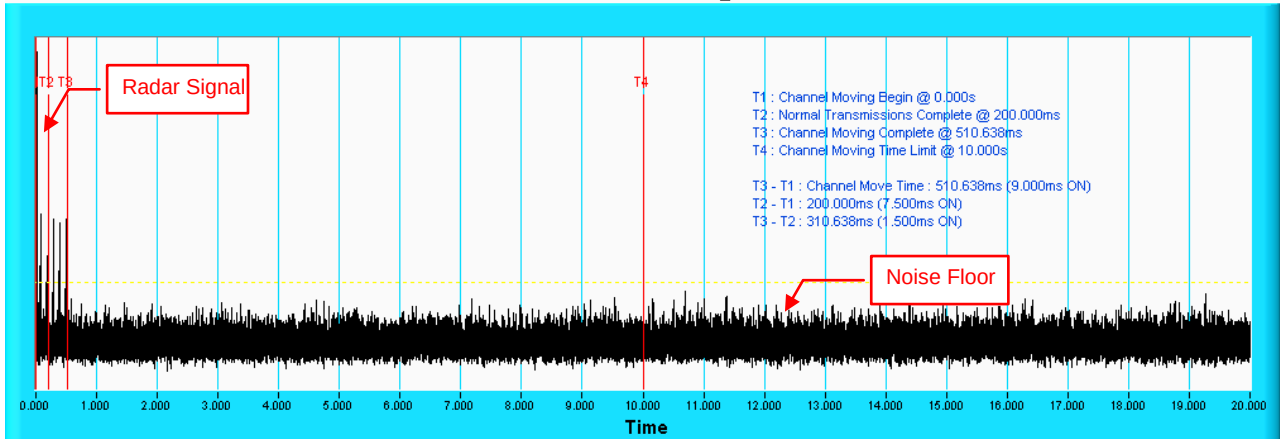


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 0

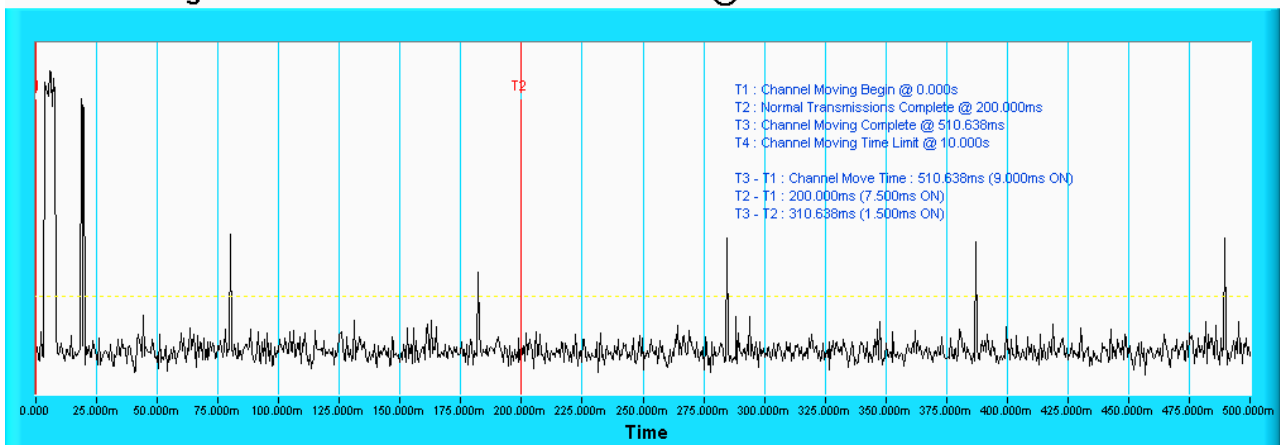
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



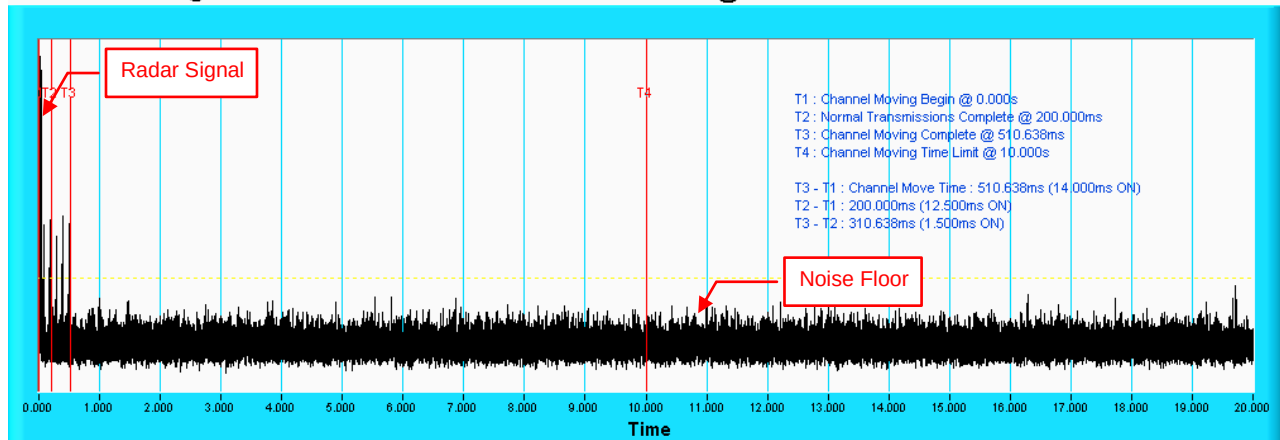
**NOTE:** Zoom in of the first 500ms after radar signal applied.



## Radar signal 1

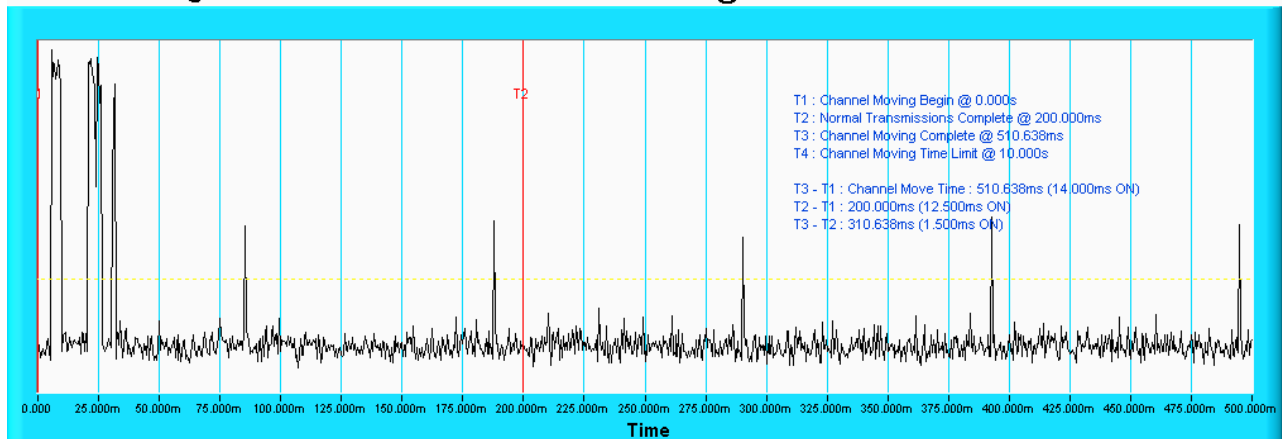
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz

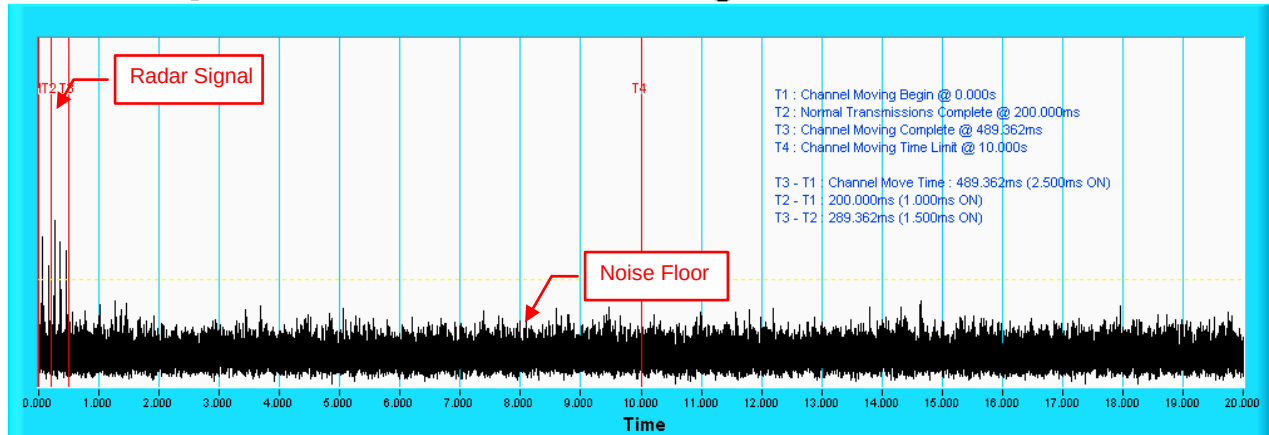


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 2

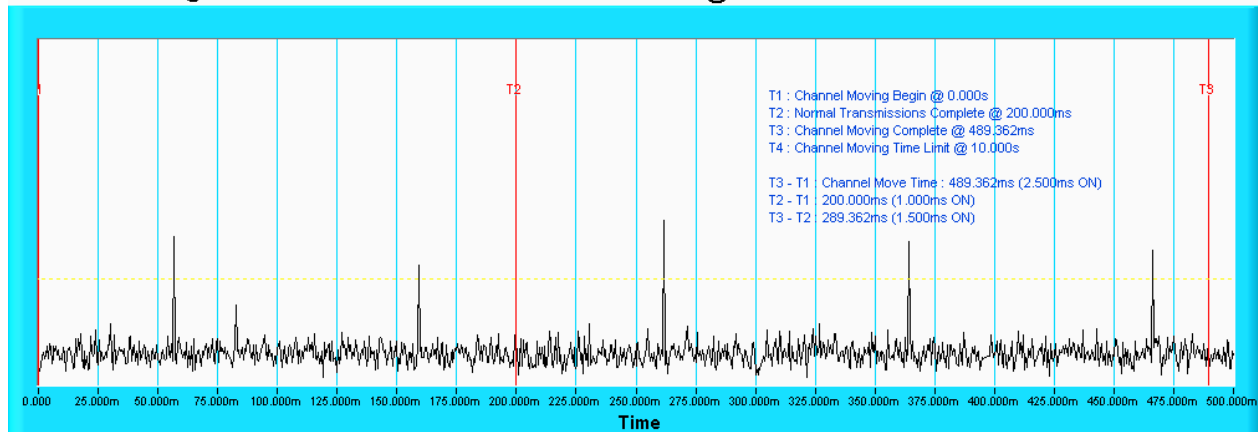
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz

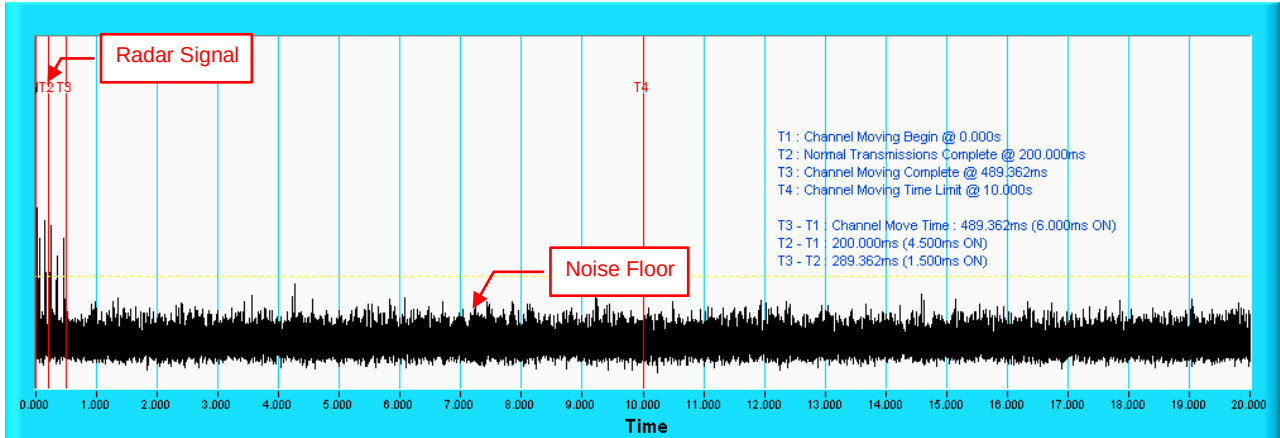


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 3

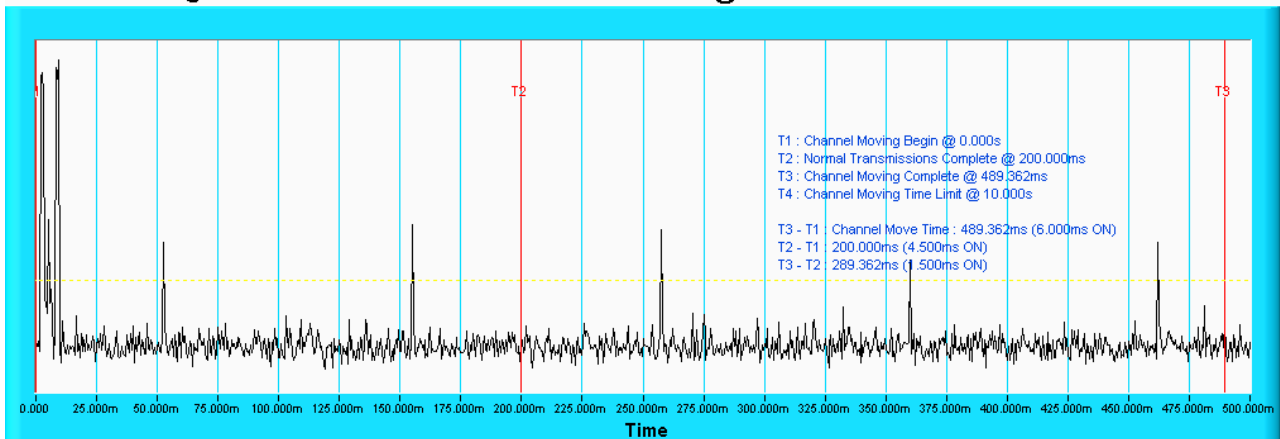
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz

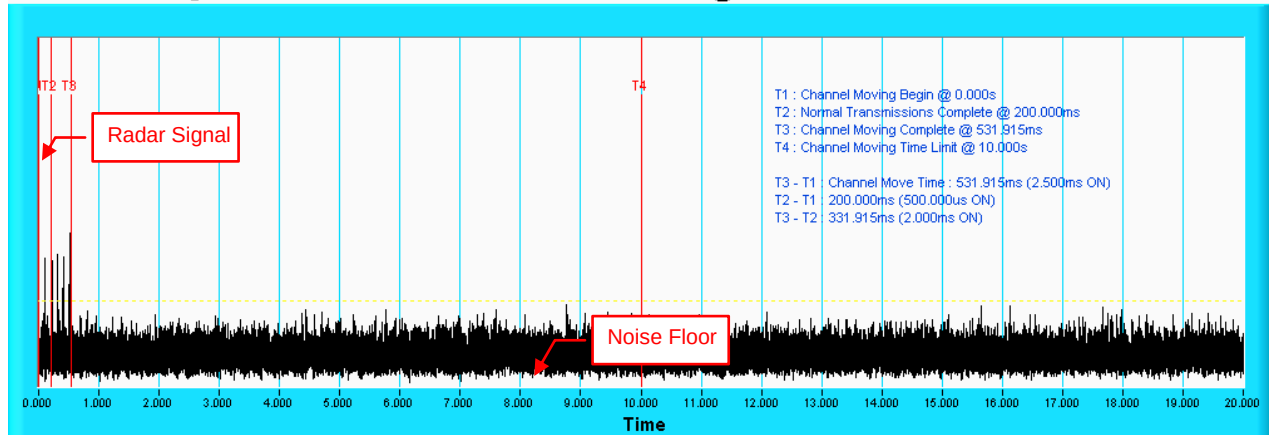


**NOTE:** Zoom in of the first 500ms after radar signal applied.

## Radar signal 4

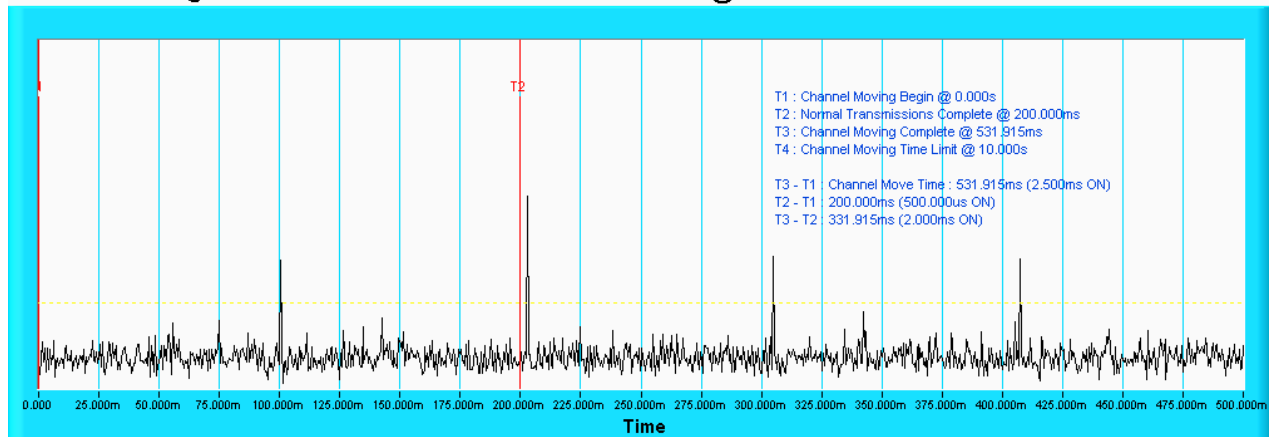
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time @ CH106 - 5530MHz



**NOTE:** Zoom in of the first 500ms after radar signal applied.

## 802.11ac (VHT20)CH60

### Type 1 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|----------------------|---------------------------------------------|------------------------------------------------|------------------|------------------------------------------|-----------|
| 1       | 5300                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 2       | 5304                 | 21                                          | 1089                                           | 58               | 918                                      | No        |
| 3       | 5298                 | 14                                          | 1285                                           | 68               | 778                                      | Yes       |
| 4       | 5298                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 5       | 5306                 | 10                                          | 1433                                           | 76               | 698                                      | Yes       |
| 6       | 5299                 | 13                                          | 1319                                           | 70               | 758                                      | Yes       |
| 7       | 5301                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 8       | 5308                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 9       | 5296                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 10      | 5303                 | 3                                           | 1792                                           | 95               | 558                                      | No        |
| 11      | 5305                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 12      | 5304                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 13      | 5299                 | 17                                          | 1193                                           | 63               | 838                                      | Yes       |
| 14      | 5306                 | 18                                          | 1166                                           | 62               | 858                                      | Yes       |
| 15      | 5299                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 16      | 5293                 |                                             | 1524                                           | 81               | 656                                      | No        |
| 17      | 5301                 |                                             | 749.6                                          | 40               | 1334                                     | Yes       |
| 18      | 5298                 |                                             | 1812                                           | 96               | 552                                      | Yes       |
| 19      | 5301                 |                                             | 660.5                                          | 35               | 1514                                     | No        |
| 20      | 5304                 |                                             | 364.2                                          | 20               | 2746                                     | Yes       |
| 21      | 5308                 |                                             | 960.6                                          | 51               | 1041                                     | Yes       |
| 22      | 5302                 |                                             | 344.1                                          | 19               | 2906                                     | Yes       |
| 23      | 5303                 |                                             | 421.2                                          | 23               | 2374                                     | No        |
| 24      | 5300                 |                                             | 751.3                                          | 40               | 1331                                     | Yes       |
| 25      | 5294                 |                                             | 513.3                                          | 28               | 1948                                     | Yes       |
| 26      | 5297                 |                                             | 1027                                           | 55               | 974                                      | Yes       |
| 27      | 5297                 |                                             | 409.3                                          | 22               | 2443                                     | Yes       |
| 28      | 5293                 |                                             | 557.4                                          | 30               | 1794                                     | Yes       |
| 29      | 5306                 |                                             | 874.1                                          | 47               | 1144                                     | Yes       |
| 30      | 5303                 |                                             | 473.5                                          | 25               | 2112                                     | Yes       |

Detection Rate: 83.3 %

**802.11ac (VHT20)CH60**
**Type 2 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5300                 | 28               | 4.2             | 228     | Yes       |
| 2       | 5309                 | 24               | 1.6             | 202     | No        |
| 3       | 5308                 | 24               | 1.9             | 193     | Yes       |
| 4       | 5294                 | 29               | 4.6             | 189     | Yes       |
| 5       | 5303                 | 26               | 3               | 167     | Yes       |
| 6       | 5298                 | 25               | 2.6             | 180     | Yes       |
| 7       | 5296                 | 23               | 1.4             | 165     | Yes       |
| 8       | 5295                 | 29               | 5               | 190     | Yes       |
| 9       | 5307                 | 23               | 1.2             | 168     | Yes       |
| 10      | 5297                 | 26               | 3               | 224     | Yes       |
| 11      | 5302                 | 27               | 3.9             | 187     | Yes       |
| 12      | 5293                 | 29               | 5               | 171     | No        |
| 13      | 5300                 | 28               | 4.3             | 223     | Yes       |
| 14      | 5295                 | 26               | 2.9             | 216     | Yes       |
| 15      | 5297                 | 26               | 2.9             | 219     | Yes       |
| 16      | 5293                 | 27               | 3.6             | 169     | Yes       |
| 17      | 5300                 | 25               | 2.5             | 199     | No        |
| 18      | 5294                 | 26               | 3               | 151     | Yes       |
| 19      | 5294                 | 25               | 2.4             | 198     | Yes       |
| 20      | 5307                 | 29               | 5               | 207     | Yes       |
| 21      | 5296                 | 23               | 1.5             | 162     | No        |
| 22      | 5305                 | 29               | 5               | 161     | No        |
| 23      | 5295                 | 24               | 1.8             | 194     | Yes       |
| 24      | 5307                 | 28               | 4.1             | 178     | No        |
| 25      | 5306                 | 24               | 1.6             | 170     | Yes       |
| 26      | 5291                 | 27               | 3.4             | 195     | Yes       |
| 27      | 5300                 | 25               | 2.7             | 212     | Yes       |
| 28      | 5302                 | 24               | 1.7             | 196     | Yes       |
| 29      | 5307                 | 26               | 2.8             | 217     | Yes       |
| 30      | 5302                 | 24               | 1.8             | 183     | Yes       |

Detection Rate: 80 %

**802.11ac (VHT20) CH60**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5300                 | 18               | 9.2             | 258     | Yes       |
| 2       | 5301                 | 16               | 6.6             | 493     | Yes       |
| 3       | 5292                 | 16               | 6.9             | 359     | Yes       |
| 4       | 5293                 | 18               | 9.6             | 397     | No        |
| 5       | 5305                 | 17               | 8               | 355     | Yes       |
| 6       | 5301                 | 17               | 7.6             | 428     | Yes       |
| 7       | 5296                 | 16               | 6.4             | 271     | Yes       |
| 8       | 5296                 | 18               | 10              | 371     | Yes       |
| 9       | 5306                 | 16               | 6.2             | 430     | No        |
| 10      | 5303                 | 17               | 8               | 272     | Yes       |
| 11      | 5309                 | 18               | 8.9             | 202     | Yes       |
| 12      | 5297                 | 18               | 10              | 264     | Yes       |
| 13      | 5308                 | 18               | 9.3             | 207     | Yes       |
| 14      | 5297                 | 17               | 7.9             | 456     | Yes       |
| 15      | 5300                 | 17               | 7.9             | 291     | Yes       |
| 16      | 5298                 | 17               | 8.6             | 411     | Yes       |
| 17      | 5291                 | 17               | 7.5             | 368     | Yes       |
| 18      | 5295                 | 17               | 8               | 241     | Yes       |
| 19      | 5308                 | 17               | 7.4             | 467     | Yes       |
| 20      | 5303                 | 18               | 10              | 339     | Yes       |
| 21      | 5301                 | 16               | 6.5             | 500     | Yes       |
| 22      | 5295                 | 18               | 10              | 358     | No        |
| 23      | 5304                 | 16               | 6.8             | 251     | Yes       |
| 24      | 5293                 | 18               | 9.1             | 230     | Yes       |
| 25      | 5298                 | 16               | 6.6             | 285     | Yes       |
| 26      | 5303                 | 17               | 8.4             | 426     | Yes       |
| 27      | 5304                 | 17               | 7.7             | 350     | Yes       |
| 28      | 5294                 | 16               | 6.7             | 434     | Yes       |
| 29      | 5303                 | 17               | 7.8             | 491     | No        |
| 30      | 5292                 | 16               | 6.8             | 438     | Yes       |

Detection Rate: 86.7 %

**802.11ac (VHT20) CH60**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5300                 | 15               | 18.1            | 258     | Yes       |
| 2       | 5293                 | 12               | 12.3            | 493     | Yes       |
| 3       | 5298                 | 13               | 13.2            | 359     | No        |
| 4       | 5298                 | 16               | 19.1            | 397     | Yes       |
| 5       | 5307                 | 14               | 15.4            | 355     | Yes       |
| 6       | 5299                 | 14               | 14.6            | 428     | Yes       |
| 7       | 5295                 | 12               | 11.9            | 271     | No        |
| 8       | 5295                 | 16               | 19.9            | 371     | Yes       |
| 9       | 5303                 | 12               | 11.6            | 430     | Yes       |
| 10      | 5293                 | 14               | 15.4            | 272     | Yes       |
| 11      | 5293                 | 15               | 17.4            | 202     | Yes       |
| 12      | 5305                 | 16               | 19.9            | 264     | Yes       |
| 13      | 5304                 | 16               | 18.4            | 207     | Yes       |
| 14      | 5308                 | 14               | 15.3            | 456     | Yes       |
| 15      | 5302                 | 14               | 15.3            | 291     | Yes       |
| 16      | 5292                 | 15               | 16.8            | 411     | Yes       |
| 17      | 5296                 | 13               | 14.3            | 368     | Yes       |
| 18      | 5308                 | 14               | 15.5            | 241     | Yes       |
| 19      | 5292                 | 13               | 14.2            | 467     | Yes       |
| 20      | 5294                 | 16               | 20              | 339     | Yes       |
| 21      | 5292                 | 12               | 12.2            | 500     | Yes       |
| 22      | 5309                 | 16               | 19.9            | 358     | Yes       |
| 23      | 5295                 | 13               | 12.9            | 251     | Yes       |
| 24      | 5306                 | 15               | 17.9            | 230     | No        |
| 25      | 5293                 | 12               | 12.3            | 285     | Yes       |
| 26      | 5298                 | 15               | 16.5            | 426     | Yes       |
| 27      | 5309                 | 14               | 14.8            | 350     | Yes       |
| 28      | 5296                 | 12               | 12.6            | 434     | Yes       |
| 29      | 5298                 | 14               | 15.1            | 491     | No        |
| 30      | 5293                 | 13               | 12.9            | 438     | No        |

Detection Rate: 83.3 %



## 802.11ac (VHT20) CH60

| Type 5 Radar Statistical Performances |                          |                             |                  |                        |
|---------------------------------------|--------------------------|-----------------------------|------------------|------------------------|
| Trial #                               | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection              |
| 1                                     | 17                       | 5300                        | LP_Signal_01     | Yes                    |
| 2                                     | 7                        | 5300                        | LP_Signal_02     | Yes                    |
| 3                                     | 8                        | 5300                        | LP_Signal_03     | Yes                    |
| 4                                     | 19                       | 5300                        | LP_Signal_04     | Yes                    |
| 5                                     | 12                       | 5300                        | LP_Signal_05     | No                     |
| 6                                     | 11                       | 5300                        | LP_Signal_06     | Yes                    |
| 7                                     | 6                        | 5300                        | LP_Signal_07     | Yes                    |
| 8                                     | 20                       | 5300                        | LP_Signal_08     | Yes                    |
| 9                                     | 6                        | 5300                        | LP_Signal_09     | No                     |
| 10                                    | 12                       | 5300                        | LP_Signal_10     | Yes                    |
| 11                                    | 16                       | 5297                        | LP_Signal_11     | Yes                    |
| 12                                    | 20                       | 5299                        | LP_Signal_12     | Yes                    |
| 13                                    | 18                       | 5298                        | LP_Signal_13     | Yes                    |
| 14                                    | 12                       | 5296                        | LP_Signal_14     | No                     |
| 15                                    | 12                       | 5296                        | LP_Signal_15     | Yes                    |
| 16                                    | 15                       | 5297                        | LP_Signal_16     | Yes                    |
| 17                                    | 10                       | 5295                        | LP_Signal_17     | Yes                    |
| 18                                    | 12                       | 5296                        | LP_Signal_18     | Yes                    |
| 19                                    | 10                       | 5295                        | LP_Signal_19     | Yes                    |
| 20                                    | 20                       | 5299                        | LP_Signal_20     | Yes                    |
| 21                                    | 7                        | 5306                        | LP_Signal_21     | Yes                    |
| 22                                    | 20                       | 5301                        | LP_Signal_22     | Yes                    |
| 23                                    | 8                        | 5306                        | LP_Signal_23     | No                     |
| 24                                    | 17                       | 5302                        | LP_Signal_24     | No                     |
| 25                                    | 7                        | 5306                        | LP_Signal_25     | Yes                    |
| 26                                    | 14                       | 5303                        | LP_Signal_26     | Yes                    |
| 27                                    | 11                       | 5305                        | LP_Signal_27     | Yes                    |
| 28                                    | 7                        | 5306                        | LP_Signal_28     | Yes                    |
| 29                                    | 12                       | 5304                        | LP_Signal_29     | Yes                    |
| 30                                    | 8                        | 5306                        | LP_Signal_30     | Yes                    |
|                                       |                          |                             |                  | Detection Rate: 83.3 % |

The Long Pulse Radar pattern shown in Appendix A.1

## 802.11ac (VHT20) CH60

### Type 6 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | No        |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | No        |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | No        |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | Yes       |

Detection Rate: 90 %

## 802.11ac (VHT20) CH60

| Type 6 Radar Statistical Performances |                                 |                      |
|---------------------------------------|---------------------------------|----------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection            |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                  |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                  |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                  |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                  |
| 5                                     | HOP_FREQ_SEQ_05                 | Yes                  |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                  |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                  |
| 8                                     | HOP_FREQ_SEQ_08                 | No                   |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                  |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                  |
| 11                                    | HOP_FREQ_SEQ_11                 | No                   |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                  |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                  |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                  |
| 15                                    | HOP_FREQ_SEQ_15                 | No                   |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                  |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                  |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                  |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                  |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                  |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                  |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                  |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                  |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                  |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                  |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                  |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                  |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                  |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                  |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                  |
|                                       |                                 | Detection Rate: 90 % |

The Frequency Hopping Radar pattern shown in Appendix A.2

# 802.11ac (VHT20)CH100

| Type 1 Radar Statistical Performances |                      |                                             |                                                |                  |                                          |           |
|---------------------------------------|----------------------|---------------------------------------------|------------------------------------------------|------------------|------------------------------------------|-----------|
| Trial #                               | Test Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
| 1                                     | 5500                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 2                                     | 5502                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 3                                     | 5492                 | 14                                          | 1285                                           | 68               | 778                                      | Yes       |
| 4                                     | 5508                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 5                                     | 5492                 | 10                                          | 1433                                           | 76               | 698                                      | Yes       |
| 6                                     | 5502                 | 13                                          | 1319                                           | 70               | 758                                      | No        |
| 7                                     | 5500                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 8                                     | 5504                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 9                                     | 5491                 | 11                                          | 1393                                           | 74               | 718                                      | No        |
| 10                                    | 5508                 | 3                                           | 1792                                           | 95               | 558                                      | Yes       |
| 11                                    | 5498                 | 22                                          | 1066                                           | 57               | 938                                      | No        |
| 12                                    | 5504                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 13                                    | 5504                 | 17                                          | 1193                                           | 63               | 838                                      | Yes       |
| 14                                    | 5494                 | 18                                          | 1166                                           | 62               | 858                                      | Yes       |
| 15                                    | 5503                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 16                                    | 5501                 |                                             | 1524                                           | 81               | 656                                      | Yes       |
| 17                                    | 5498                 |                                             | 749.6                                          | 40               | 1334                                     | Yes       |
| 18                                    | 5503                 |                                             | 1812                                           | 96               | 552                                      | Yes       |
| 19                                    | 5493                 |                                             | 660.5                                          | 35               | 1514                                     | Yes       |
| 20                                    | 5503                 |                                             | 364.2                                          | 20               | 2746                                     | Yes       |
| 21                                    | 5504                 |                                             | 960.6                                          | 51               | 1041                                     | Yes       |
| 22                                    | 5491                 |                                             | 344.1                                          | 19               | 2906                                     | Yes       |
| 23                                    | 5494                 |                                             | 421.2                                          | 23               | 2374                                     | Yes       |
| 24                                    | 5507                 |                                             | 751.3                                          | 40               | 1331                                     | Yes       |
| 25                                    | 5502                 |                                             | 513.3                                          | 28               | 1948                                     | Yes       |
| 26                                    | 5507                 |                                             | 1027                                           | 55               | 974                                      | Yes       |
| 27                                    | 5503                 |                                             | 409.3                                          | 22               | 2443                                     | Yes       |
| 28                                    | 5494                 |                                             | 557.4                                          | 30               | 1794                                     | No        |
| 29                                    | 5507                 |                                             | 874.1                                          | 47               | 1144                                     | Yes       |
| 30                                    | 5502                 |                                             | 473.5                                          | 25               | 2112                                     | Yes       |
| Detection Rate: 86.7 %                |                      |                                             |                                                |                  |                                          |           |

# 802.11ac (VHT20)CH100

## Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                 | 28               | 4.2             | 228     | Yes       |
| 2       | 5508                 | 24               | 1.6             | 202     | Yes       |
| 3       | 5508                 | 24               | 1.9             | 193     | Yes       |
| 4       | 5495                 | 29               | 4.6             | 189     | Yes       |
| 5       | 5505                 | 26               | 3               | 167     | Yes       |
| 6       | 5508                 | 25               | 2.6             | 180     | Yes       |
| 7       | 5503                 | 23               | 1.4             | 165     | Yes       |
| 8       | 5493                 | 29               | 5               | 190     | Yes       |
| 9       | 5498                 | 23               | 1.2             | 168     | Yes       |
| 10      | 5504                 | 26               | 3               | 224     | Yes       |
| 11      | 5494                 | 27               | 3.9             | 187     | Yes       |
| 12      | 5494                 | 29               | 5               | 171     | Yes       |
| 13      | 5504                 | 28               | 4.3             | 223     | Yes       |
| 14      | 5502                 | 26               | 2.9             | 216     | Yes       |
| 15      | 5506                 | 26               | 2.9             | 219     | Yes       |
| 16      | 5492                 | 27               | 3.6             | 169     | Yes       |
| 17      | 5506                 | 25               | 2.5             | 199     | No        |
| 18      | 5499                 | 26               | 3               | 151     | Yes       |
| 19      | 5504                 | 25               | 2.4             | 198     | Yes       |
| 20      | 5502                 | 29               | 5               | 207     | Yes       |
| 21      | 5502                 | 23               | 1.5             | 162     | Yes       |
| 22      | 5508                 | 29               | 5               | 161     | Yes       |
| 23      | 5496                 | 24               | 1.8             | 194     | Yes       |
| 24      | 5507                 | 28               | 4.1             | 178     | Yes       |
| 25      | 5499                 | 24               | 1.6             | 170     | Yes       |
| 26      | 5501                 | 27               | 3.4             | 195     | Yes       |
| 27      | 5501                 | 25               | 2.7             | 212     | Yes       |
| 28      | 5495                 | 24               | 1.7             | 196     | No        |
| 29      | 5492                 | 26               | 2.8             | 217     | Yes       |
| 30      | 5497                 | 24               | 1.8             | 183     | Yes       |

Detection Rate: 93.3 %

# 802.11ac (VHT20) CH100

## Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5500                 | 18               | 9.2             | 258     | Yes       |
| 2       | 5495                 | 16               | 6.6             | 493     | No        |
| 3       | 5504                 | 16               | 6.9             | 359     | Yes       |
| 4       | 5508                 | 18               | 9.6             | 397     | Yes       |
| 5       | 5505                 | 17               | 8               | 355     | Yes       |
| 6       | 5501                 | 17               | 7.6             | 428     | No        |
| 7       | 5499                 | 16               | 6.4             | 271     | Yes       |
| 8       | 5496                 | 18               | 10              | 371     | No        |
| 9       | 5507                 | 16               | 6.2             | 430     | Yes       |
| 10      | 5503                 | 17               | 8               | 272     | Yes       |
| 11      | 5491                 | 18               | 8.9             | 202     | Yes       |
| 12      | 5491                 | 18               | 10              | 264     | Yes       |
| 13      | 5494                 | 18               | 9.3             | 207     | Yes       |
| 14      | 5509                 | 17               | 7.9             | 456     | Yes       |
| 15      | 5500                 | 17               | 7.9             | 291     | Yes       |
| 16      | 5503                 | 17               | 8.6             | 411     | Yes       |
| 17      | 5503                 | 17               | 7.5             | 368     | Yes       |
| 18      | 5507                 | 17               | 8               | 241     | Yes       |
| 19      | 5509                 | 17               | 7.4             | 467     | Yes       |
| 20      | 5506                 | 18               | 10              | 339     | Yes       |
| 21      | 5499                 | 16               | 6.5             | 500     | Yes       |
| 22      | 5495                 | 18               | 10              | 358     | Yes       |
| 23      | 5495                 | 16               | 6.8             | 251     | Yes       |
| 24      | 5505                 | 18               | 9.1             | 230     | Yes       |
| 25      | 5504                 | 16               | 6.6             | 285     | Yes       |
| 26      | 5496                 | 17               | 8.4             | 426     | Yes       |
| 27      | 5497                 | 17               | 7.7             | 350     | Yes       |
| 28      | 5499                 | 16               | 6.7             | 434     | Yes       |
| 29      | 5492                 | 17               | 7.8             | 491     | Yes       |
| 30      | 5500                 | 16               | 6.8             | 438     | Yes       |

Detection Rate: 90 %

# 802.11ac (VHT20) CH100

| Type 4 Radar Statistical Performances |                      |                  |                 |         |           |
|---------------------------------------|----------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
| 1                                     | 5500                 | 15               | 18.1            | 258     | Yes       |
| 2                                     | 5492                 | 12               | 12.3            | 493     | Yes       |
| 3                                     | 5494                 | 13               | 13.2            | 359     | Yes       |
| 4                                     | 5497                 | 16               | 19.1            | 397     | Yes       |
| 5                                     | 5506                 | 14               | 15.4            | 355     | Yes       |
| 6                                     | 5502                 | 14               | 14.6            | 428     | Yes       |
| 7                                     | 5502                 | 12               | 11.9            | 271     | Yes       |
| 8                                     | 5503                 | 16               | 19.9            | 371     | Yes       |
| 9                                     | 5503                 | 12               | 11.6            | 430     | No        |
| 10                                    | 5497                 | 14               | 15.4            | 272     | Yes       |
| 11                                    | 5493                 | 15               | 17.4            | 202     | Yes       |
| 12                                    | 5502                 | 16               | 19.9            | 264     | Yes       |
| 13                                    | 5498                 | 16               | 18.4            | 207     | Yes       |
| 14                                    | 5498                 | 14               | 15.3            | 456     | Yes       |
| 15                                    | 5507                 | 14               | 15.3            | 291     | Yes       |
| 16                                    | 5495                 | 15               | 16.8            | 411     | Yes       |
| 17                                    | 5507                 | 13               | 14.3            | 368     | Yes       |
| 18                                    | 5497                 | 14               | 15.5            | 241     | Yes       |
| 19                                    | 5503                 | 13               | 14.2            | 467     | Yes       |
| 20                                    | 5503                 | 16               | 20              | 339     | Yes       |
| 21                                    | 5494                 | 12               | 12.2            | 500     | No        |
| 22                                    | 5497                 | 16               | 19.9            | 358     | Yes       |
| 23                                    | 5508                 | 13               | 12.9            | 251     | Yes       |
| 24                                    | 5505                 | 15               | 17.9            | 230     | Yes       |
| 25                                    | 5492                 | 12               | 12.3            | 285     | Yes       |
| 26                                    | 5500                 | 15               | 16.5            | 426     | No        |
| 27                                    | 5499                 | 14               | 14.8            | 350     | Yes       |
| 28                                    | 5507                 | 12               | 12.6            | 434     | Yes       |
| 29                                    | 5508                 | 14               | 15.1            | 491     | Yes       |
| 30                                    | 5507                 | 13               | 12.9            | 438     | Yes       |
| Detection Rate: 90 %                  |                      |                  |                 |         |           |

## 802.11ac (VHT20) CH100

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 17                       | 5500                        | LP_Signal_01     | No        |
| 2       | 7                        | 5500                        | LP_Signal_02     | Yes       |
| 3       | 8                        | 5500                        | LP_Signal_03     | Yes       |
| 4       | 19                       | 5500                        | LP_Signal_04     | Yes       |
| 5       | 12                       | 5500                        | LP_Signal_05     | Yes       |
| 6       | 11                       | 5500                        | LP_Signal_06     | Yes       |
| 7       | 6                        | 5500                        | LP_Signal_07     | Yes       |
| 8       | 20                       | 5500                        | LP_Signal_08     | Yes       |
| 9       | 6                        | 5500                        | LP_Signal_09     | Yes       |
| 10      | 12                       | 5500                        | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497                        | LP_Signal_11     | Yes       |
| 12      | 20                       | 5499                        | LP_Signal_12     | Yes       |
| 13      | 18                       | 5498                        | LP_Signal_13     | No        |
| 14      | 12                       | 5496                        | LP_Signal_14     | Yes       |
| 15      | 12                       | 5496                        | LP_Signal_15     | Yes       |
| 16      | 15                       | 5497                        | LP_Signal_16     | Yes       |
| 17      | 10                       | 5495                        | LP_Signal_17     | Yes       |
| 18      | 12                       | 5496                        | LP_Signal_18     | Yes       |
| 19      | 10                       | 5495                        | LP_Signal_19     | Yes       |
| 20      | 20                       | 5499                        | LP_Signal_20     | Yes       |
| 21      | 7                        | 5506                        | LP_Signal_21     | Yes       |
| 22      | 20                       | 5501                        | LP_Signal_22     | Yes       |
| 23      | 8                        | 5506                        | LP_Signal_23     | Yes       |
| 24      | 17                       | 5502                        | LP_Signal_24     | Yes       |
| 25      | 7                        | 5506                        | LP_Signal_25     | Yes       |
| 26      | 14                       | 5503                        | LP_Signal_26     | No        |
| 27      | 11                       | 5505                        | LP_Signal_27     | Yes       |
| 28      | 7                        | 5506                        | LP_Signal_28     | Yes       |
| 29      | 12                       | 5504                        | LP_Signal_29     | Yes       |
| 30      | 8                        | 5506                        | LP_Signal_30     | Yes       |

Detection Rate: 90 %

The Long Pulse Radar pattern shown in Appendix A.1



**802.11ac (VHT20) CH100**
**Type 6 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | No        |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | No        |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | No        |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | No        |
| 30      | 9                | 1               | 333.3   | Yes       |

Detection Rate: 86.7 %

## 802.11ac (VHT20) CH100

| Type 6 Radar Statistical Performances |                                 |                        |
|---------------------------------------|---------------------------------|------------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection              |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                    |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                    |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                    |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                    |
| 5                                     | HOP_FREQ_SEQ_05                 | No                     |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                    |
| 7                                     | HOP_FREQ_SEQ_07                 | No                     |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                    |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                    |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                    |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                    |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                    |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                    |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                    |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                    |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                    |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                    |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                    |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                    |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                    |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                    |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                    |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                    |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                    |
| 25                                    | HOP_FREQ_SEQ_25                 | No                     |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                    |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                    |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                    |
| 29                                    | HOP_FREQ_SEQ_29                 | No                     |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                    |
|                                       |                                 | Detection Rate: 86.7 % |

The Frequency Hopping Radar pattern shown in Appendix A.2

## 802.11ac (VHT40)CH62

### Type 1 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|----------------------|---------------------------------------------|------------------------------------------------|------------------|------------------------------------------|-----------|
| 1       | 5310                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 2       | 5320                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 3       | 5300                 | 14                                          | 1285                                           | 68               | 778                                      | Yes       |
| 4       | 5325                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 5       | 5321                 | 10                                          | 1433                                           | 76               | 698                                      | Yes       |
| 6       | 5324                 | 13                                          | 1319                                           | 70               | 758                                      | No        |
| 7       | 5327                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 8       | 5303                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 9       | 5293                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 10      | 5298                 | 3                                           | 1792                                           | 95               | 558                                      | No        |
| 11      | 5292                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 12      | 5316                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 13      | 5299                 | 17                                          | 1193                                           | 63               | 838                                      | Yes       |
| 14      | 5313                 | 18                                          | 1166                                           | 62               | 858                                      | Yes       |
| 15      | 5327                 | 9                                           | 1475                                           | 78               | 678                                      | No        |
| 16      | 5294                 |                                             | 1524                                           | 81               | 656                                      | Yes       |
| 17      | 5318                 |                                             | 749.6                                          | 40               | 1334                                     | Yes       |
| 18      | 5295                 |                                             | 1812                                           | 96               | 552                                      | Yes       |
| 19      | 5309                 |                                             | 660.5                                          | 35               | 1514                                     | Yes       |
| 20      | 5312                 |                                             | 364.2                                          | 20               | 2746                                     | No        |
| 21      | 5305                 |                                             | 960.6                                          | 51               | 1041                                     | No        |
| 22      | 5320                 |                                             | 344.1                                          | 19               | 2906                                     | Yes       |
| 23      | 5293                 |                                             | 421.2                                          | 23               | 2374                                     | Yes       |
| 24      | 5310                 |                                             | 751.3                                          | 40               | 1331                                     | Yes       |
| 25      | 5297                 |                                             | 513.3                                          | 28               | 1948                                     | Yes       |
| 26      | 5310                 |                                             | 1027                                           | 55               | 974                                      | Yes       |
| 27      | 5323                 |                                             | 409.3                                          | 22               | 2443                                     | Yes       |
| 28      | 5326                 |                                             | 557.4                                          | 30               | 1794                                     | Yes       |
| 29      | 5316                 |                                             | 874.1                                          | 47               | 1144                                     | No        |
| 30      | 5321                 |                                             | 473.5                                          | 25               | 2112                                     | Yes       |

Detection Rate: 80 %

**802.11ac (VHT40)CH62**
**Type 2 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5310                 | 28               | 4.2             | 228     | Yes       |
| 2       | 5320                 | 24               | 1.6             | 202     | Yes       |
| 3       | 5300                 | 24               | 1.9             | 193     | Yes       |
| 4       | 5318                 | 29               | 4.6             | 189     | Yes       |
| 5       | 5298                 | 26               | 3               | 167     | No        |
| 6       | 5302                 | 25               | 2.6             | 180     | Yes       |
| 7       | 5307                 | 23               | 1.4             | 165     | Yes       |
| 8       | 5328                 | 29               | 5               | 190     | Yes       |
| 9       | 5311                 | 23               | 1.2             | 168     | No        |
| 10      | 5325                 | 26               | 3               | 224     | Yes       |
| 11      | 5293                 | 27               | 3.9             | 187     | No        |
| 12      | 5299                 | 29               | 5               | 171     | Yes       |
| 13      | 5292                 | 28               | 4.3             | 223     | Yes       |
| 14      | 5304                 | 26               | 2.9             | 216     | Yes       |
| 15      | 5306                 | 26               | 2.9             | 219     | Yes       |
| 16      | 5296                 | 27               | 3.6             | 169     | Yes       |
| 17      | 5297                 | 25               | 2.5             | 199     | Yes       |
| 18      | 5296                 | 26               | 3               | 151     | Yes       |
| 19      | 5309                 | 25               | 2.4             | 198     | Yes       |
| 20      | 5309                 | 29               | 5               | 207     | Yes       |
| 21      | 5308                 | 23               | 1.5             | 162     | Yes       |
| 22      | 5321                 | 29               | 5               | 161     | Yes       |
| 23      | 5295                 | 24               | 1.8             | 194     | No        |
| 24      | 5321                 | 28               | 4.1             | 178     | Yes       |
| 25      | 5327                 | 24               | 1.6             | 170     | Yes       |
| 26      | 5297                 | 27               | 3.4             | 195     | Yes       |
| 27      | 5307                 | 25               | 2.7             | 212     | Yes       |
| 28      | 5324                 | 24               | 1.7             | 196     | Yes       |
| 29      | 5310                 | 26               | 2.8             | 217     | Yes       |
| 30      | 5293                 | 24               | 1.8             | 183     | Yes       |

Detection Rate: 86.7 %

**802.11ac (VHT40)CH62**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5310                 | 18               | 9.2             | 258     | No        |
| 2       | 5320                 | 16               | 6.6             | 493     | Yes       |
| 3       | 5300                 | 16               | 6.9             | 359     | Yes       |
| 4       | 5322                 | 18               | 9.6             | 397     | No        |
| 5       | 5305                 | 17               | 8               | 355     | Yes       |
| 6       | 5305                 | 17               | 7.6             | 428     | No        |
| 7       | 5305                 | 16               | 6.4             | 271     | No        |
| 8       | 5311                 | 18               | 10              | 371     | Yes       |
| 9       | 5326                 | 16               | 6.2             | 430     | Yes       |
| 10      | 5316                 | 17               | 8               | 272     | Yes       |
| 11      | 5301                 | 18               | 8.9             | 202     | Yes       |
| 12      | 5292                 | 18               | 10              | 264     | Yes       |
| 13      | 5322                 | 18               | 9.3             | 207     | Yes       |
| 14      | 5317                 | 17               | 7.9             | 456     | Yes       |
| 15      | 5315                 | 17               | 7.9             | 291     | Yes       |
| 16      | 5326                 | 17               | 8.6             | 411     | Yes       |
| 17      | 5301                 | 17               | 7.5             | 368     | No        |
| 18      | 5325                 | 17               | 8               | 241     | Yes       |
| 19      | 5325                 | 17               | 7.4             | 467     | Yes       |
| 20      | 5311                 | 18               | 10              | 339     | Yes       |
| 21      | 5323                 | 16               | 6.5             | 500     | Yes       |
| 22      | 5323                 | 18               | 10              | 358     | Yes       |
| 23      | 5307                 | 16               | 6.8             | 251     | Yes       |
| 24      | 5302                 | 18               | 9.1             | 230     | Yes       |
| 25      | 5292                 | 16               | 6.6             | 285     | Yes       |
| 26      | 5304                 | 17               | 8.4             | 426     | Yes       |
| 27      | 5293                 | 17               | 7.7             | 350     | Yes       |
| 28      | 5296                 | 16               | 6.7             | 434     | Yes       |
| 29      | 5309                 | 17               | 7.8             | 491     | Yes       |
| 30      | 5327                 | 16               | 6.8             | 438     | Yes       |

Detection Rate: 83.3 %

**802.11ac (VHT40)CH62**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5310                 | 15               | 18.1            | 258     | Yes       |
| 2       | 5320                 | 12               | 12.3            | 493     | Yes       |
| 3       | 5300                 | 13               | 13.2            | 359     | Yes       |
| 4       | 5294                 | 16               | 19.1            | 397     | Yes       |
| 5       | 5305                 | 14               | 15.4            | 355     | Yes       |
| 6       | 5299                 | 14               | 14.6            | 428     | Yes       |
| 7       | 5313                 | 12               | 11.9            | 271     | Yes       |
| 8       | 5309                 | 16               | 19.9            | 371     | Yes       |
| 9       | 5304                 | 12               | 11.6            | 430     | No        |
| 10      | 5308                 | 14               | 15.4            | 272     | Yes       |
| 11      | 5293                 | 15               | 17.4            | 202     | No        |
| 12      | 5294                 | 16               | 19.9            | 264     | Yes       |
| 13      | 5305                 | 16               | 18.4            | 207     | No        |
| 14      | 5316                 | 14               | 15.3            | 456     | Yes       |
| 15      | 5294                 | 14               | 15.3            | 291     | Yes       |
| 16      | 5308                 | 15               | 16.8            | 411     | Yes       |
| 17      | 5293                 | 13               | 14.3            | 368     | Yes       |
| 18      | 5306                 | 14               | 15.5            | 241     | Yes       |
| 19      | 5301                 | 13               | 14.2            | 467     | Yes       |
| 20      | 5319                 | 16               | 20              | 339     | Yes       |
| 21      | 5295                 | 12               | 12.2            | 500     | Yes       |
| 22      | 5325                 | 16               | 19.9            | 358     | Yes       |
| 23      | 5298                 | 13               | 12.9            | 251     | Yes       |
| 24      | 5297                 | 15               | 17.9            | 230     | Yes       |
| 25      | 5323                 | 12               | 12.3            | 285     | Yes       |
| 26      | 5325                 | 15               | 16.5            | 426     | No        |
| 27      | 5298                 | 14               | 14.8            | 350     | Yes       |
| 28      | 5322                 | 12               | 12.6            | 434     | Yes       |
| 29      | 5328                 | 14               | 15.1            | 491     | Yes       |
| 30      | 5325                 | 13               | 12.9            | 438     | Yes       |

Detection Rate: 86.7 %

## 802.11ac (VHT40)CH62

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 17                       | 5310                        | LP_Signal_01     | Yes       |
| 2       | 7                        | 5310                        | LP_Signal_02     | Yes       |
| 3       | 8                        | 5310                        | LP_Signal_03     | Yes       |
| 4       | 19                       | 5310                        | LP_Signal_04     | No        |
| 5       | 12                       | 5310                        | LP_Signal_05     | Yes       |
| 6       | 11                       | 5310                        | LP_Signal_06     | Yes       |
| 7       | 6                        | 5310                        | LP_Signal_07     | Yes       |
| 8       | 20                       | 5310                        | LP_Signal_08     | Yes       |
| 9       | 6                        | 5310                        | LP_Signal_09     | Yes       |
| 10      | 12                       | 5310                        | LP_Signal_10     | Yes       |
| 11      | 16                       | 5297                        | LP_Signal_11     | Yes       |
| 12      | 20                       | 5299                        | LP_Signal_12     | No        |
| 13      | 18                       | 5298                        | LP_Signal_13     | Yes       |
| 14      | 12                       | 5296                        | LP_Signal_14     | Yes       |
| 15      | 12                       | 5296                        | LP_Signal_15     | Yes       |
| 16      | 15                       | 5297                        | LP_Signal_16     | Yes       |
| 17      | 10                       | 5295                        | LP_Signal_17     | Yes       |
| 18      | 12                       | 5296                        | LP_Signal_18     | Yes       |
| 19      | 10                       | 5295                        | LP_Signal_19     | No        |
| 20      | 20                       | 5299                        | LP_Signal_20     | Yes       |
| 21      | 7                        | 5326                        | LP_Signal_21     | Yes       |
| 22      | 20                       | 5321                        | LP_Signal_22     | Yes       |
| 23      | 8                        | 5326                        | LP_Signal_23     | Yes       |
| 24      | 17                       | 5322                        | LP_Signal_24     | Yes       |
| 25      | 7                        | 5326                        | LP_Signal_25     | Yes       |
| 26      | 14                       | 5323                        | LP_Signal_26     | Yes       |
| 27      | 11                       | 5325                        | LP_Signal_27     | No        |
| 28      | 7                        | 5326                        | LP_Signal_28     | Yes       |
| 29      | 12                       | 5324                        | LP_Signal_29     | Yes       |
| 30      | 8                        | 5326                        | LP_Signal_30     | Yes       |

Detection Rate: 86.7 %

The Long Pulse Radar pattern shown in Appendix A.1

**802.11ac (VHT40)CH62**
**Type 6 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | No        |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | No        |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | No        |

Detection Rate: 90 %



**802.11ac (VHT40)CH62**

| Type 6 Radar Statistical Performances |                                 |                      |
|---------------------------------------|---------------------------------|----------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection            |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                  |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                  |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                  |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                  |
| 5                                     | HOP_FREQ_SEQ_05                 | No                   |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                  |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                  |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                  |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                  |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                  |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                  |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                  |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                  |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                  |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                  |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                  |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                  |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                  |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                  |
| 20                                    | HOP_FREQ_SEQ_20                 | No                   |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                  |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                  |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                  |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                  |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                  |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                  |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                  |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                  |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                  |
| 30                                    | HOP_FREQ_SEQ_30                 | No                   |
|                                       |                                 | Detection Rate: 90 % |

The Frequency Hopping Radar pattern shown in Appendix A.2

**802.11ac (VHT40)CH102**
**Type 1 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|----------------------|---------------------------------------------|------------------------------------------------|------------------|------------------------------------------|-----------|
| 1       | 5510                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 2       | 5520                 | 21                                          | 1089                                           | 58               | 918                                      | No        |
| 3       | 5500                 | 14                                          | 1285                                           | 68               | 778                                      | Yes       |
| 4       | 5495                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 5       | 5514                 | 10                                          | 1433                                           | 76               | 698                                      | Yes       |
| 6       | 5507                 | 13                                          | 1319                                           | 70               | 758                                      | Yes       |
| 7       | 5507                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 8       | 5511                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 9       | 5526                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 10      | 5492                 | 3                                           | 1792                                           | 95               | 558                                      | Yes       |
| 11      | 5518                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 12      | 5496                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 13      | 5527                 | 17                                          | 1193                                           | 63               | 838                                      | Yes       |
| 14      | 5520                 | 18                                          | 1166                                           | 62               | 858                                      | Yes       |
| 15      | 5500                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 16      | 5493                 |                                             | 1524                                           | 81               | 656                                      | Yes       |
| 17      | 5520                 |                                             | 749.6                                          | 40               | 1334                                     | Yes       |
| 18      | 5526                 |                                             | 1812                                           | 96               | 552                                      | Yes       |
| 19      | 5500                 |                                             | 660.5                                          | 35               | 1514                                     | Yes       |
| 20      | 5505                 |                                             | 364.2                                          | 20               | 2746                                     | No        |
| 21      | 5522                 |                                             | 960.6                                          | 51               | 1041                                     | Yes       |
| 22      | 5498                 |                                             | 344.1                                          | 19               | 2906                                     | Yes       |
| 23      | 5502                 |                                             | 421.2                                          | 23               | 2374                                     | Yes       |
| 24      | 5514                 |                                             | 751.3                                          | 40               | 1331                                     | Yes       |
| 25      | 5511                 |                                             | 513.3                                          | 28               | 1948                                     | Yes       |
| 26      | 5515                 |                                             | 1027                                           | 55               | 974                                      | Yes       |
| 27      | 5505                 |                                             | 409.3                                          | 22               | 2443                                     | No        |
| 28      | 5523                 |                                             | 557.4                                          | 30               | 1794                                     | Yes       |
| 29      | 5526                 |                                             | 874.1                                          | 47               | 1144                                     | Yes       |
| 30      | 5526                 |                                             | 473.5                                          | 25               | 2112                                     | Yes       |

Detection Rate: 90 %

# 802.11ac (VHT40)CH102

## Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                 | 28               | 4.2             | 228     | Yes       |
| 2       | 5520                 | 24               | 1.6             | 202     | Yes       |
| 3       | 5500                 | 24               | 1.9             | 193     | Yes       |
| 4       | 5528                 | 29               | 4.6             | 189     | Yes       |
| 5       | 5502                 | 26               | 3               | 167     | Yes       |
| 6       | 5515                 | 25               | 2.6             | 180     | Yes       |
| 7       | 5496                 | 23               | 1.4             | 165     | Yes       |
| 8       | 5516                 | 29               | 5               | 190     | Yes       |
| 9       | 5511                 | 23               | 1.2             | 168     | Yes       |
| 10      | 5517                 | 26               | 3               | 224     | No        |
| 11      | 5518                 | 27               | 3.9             | 187     | Yes       |
| 12      | 5498                 | 29               | 5               | 171     | Yes       |
| 13      | 5523                 | 28               | 4.3             | 223     | Yes       |
| 14      | 5514                 | 26               | 2.9             | 216     | Yes       |
| 15      | 5527                 | 26               | 2.9             | 219     | Yes       |
| 16      | 5516                 | 27               | 3.6             | 169     | Yes       |
| 17      | 5517                 | 25               | 2.5             | 199     | Yes       |
| 18      | 5520                 | 26               | 3               | 151     | Yes       |
| 19      | 5506                 | 25               | 2.4             | 198     | No        |
| 20      | 5518                 | 29               | 5               | 207     | No        |
| 21      | 5503                 | 23               | 1.5             | 162     | Yes       |
| 22      | 5507                 | 29               | 5               | 161     | Yes       |
| 23      | 5527                 | 24               | 1.8             | 194     | Yes       |
| 24      | 5520                 | 28               | 4.1             | 178     | Yes       |
| 25      | 5527                 | 24               | 1.6             | 170     | Yes       |
| 26      | 5526                 | 27               | 3.4             | 195     | Yes       |
| 27      | 5504                 | 25               | 2.7             | 212     | Yes       |
| 28      | 5526                 | 24               | 1.7             | 196     | No        |
| 29      | 5507                 | 26               | 2.8             | 217     | Yes       |
| 30      | 5492                 | 24               | 1.8             | 183     | Yes       |

Detection Rate: 86.7 %

## 802.11ac (VHT40)CH102

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                 | 18               | 9.2             | 258     | Yes       |
| 2       | 5520                 | 16               | 6.6             | 493     | Yes       |
| 3       | 5500                 | 16               | 6.9             | 359     | Yes       |
| 4       | 5492                 | 18               | 9.6             | 397     | Yes       |
| 5       | 5506                 | 17               | 8               | 355     | Yes       |
| 6       | 5496                 | 17               | 7.6             | 428     | Yes       |
| 7       | 5514                 | 16               | 6.4             | 271     | Yes       |
| 8       | 5499                 | 18               | 10              | 371     | Yes       |
| 9       | 5522                 | 16               | 6.2             | 430     | Yes       |
| 10      | 5497                 | 17               | 8               | 272     | No        |
| 11      | 5524                 | 18               | 8.9             | 202     | Yes       |
| 12      | 5508                 | 18               | 10              | 264     | Yes       |
| 13      | 5514                 | 18               | 9.3             | 207     | Yes       |
| 14      | 5517                 | 17               | 7.9             | 456     | Yes       |
| 15      | 5521                 | 17               | 7.9             | 291     | Yes       |
| 16      | 5502                 | 17               | 8.6             | 411     | No        |
| 17      | 5517                 | 17               | 7.5             | 368     | Yes       |
| 18      | 5502                 | 17               | 8               | 241     | Yes       |
| 19      | 5514                 | 17               | 7.4             | 467     | Yes       |
| 20      | 5521                 | 18               | 10              | 339     | Yes       |
| 21      | 5510                 | 16               | 6.5             | 500     | Yes       |
| 22      | 5521                 | 18               | 10              | 358     | Yes       |
| 23      | 5515                 | 16               | 6.8             | 251     | Yes       |
| 24      | 5518                 | 18               | 9.1             | 230     | Yes       |
| 25      | 5504                 | 16               | 6.6             | 285     | Yes       |
| 26      | 5509                 | 17               | 8.4             | 426     | Yes       |
| 27      | 5517                 | 17               | 7.7             | 350     | Yes       |
| 28      | 5508                 | 16               | 6.7             | 434     | Yes       |
| 29      | 5496                 | 17               | 7.8             | 491     | Yes       |
| 30      | 5511                 | 16               | 6.8             | 438     | Yes       |

Detection Rate: 93.3 %

**802.11ac (VHT40)CH102**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5510                 | 15               | 18.1            | 258     | Yes       |
| 2       | 5520                 | 12               | 12.3            | 493     | Yes       |
| 3       | 5500                 | 13               | 13.2            | 359     | Yes       |
| 4       | 5527                 | 16               | 19.1            | 397     | Yes       |
| 5       | 5503                 | 14               | 15.4            | 355     | Yes       |
| 6       | 5528                 | 14               | 14.6            | 428     | Yes       |
| 7       | 5501                 | 12               | 11.9            | 271     | Yes       |
| 8       | 5506                 | 16               | 19.9            | 371     | Yes       |
| 9       | 5505                 | 12               | 11.6            | 430     | Yes       |
| 10      | 5515                 | 14               | 15.4            | 272     | Yes       |
| 11      | 5504                 | 15               | 17.4            | 202     | Yes       |
| 12      | 5524                 | 16               | 19.9            | 264     | Yes       |
| 13      | 5497                 | 16               | 18.4            | 207     | No        |
| 14      | 5511                 | 14               | 15.3            | 456     | Yes       |
| 15      | 5498                 | 14               | 15.3            | 291     | Yes       |
| 16      | 5525                 | 15               | 16.8            | 411     | Yes       |
| 17      | 5500                 | 13               | 14.3            | 368     | Yes       |
| 18      | 5498                 | 14               | 15.5            | 241     | Yes       |
| 19      | 5525                 | 13               | 14.2            | 467     | Yes       |
| 20      | 5507                 | 16               | 20              | 339     | Yes       |
| 21      | 5502                 | 12               | 12.2            | 500     | No        |
| 22      | 5521                 | 16               | 19.9            | 358     | Yes       |
| 23      | 5524                 | 13               | 12.9            | 251     | Yes       |
| 24      | 5513                 | 15               | 17.9            | 230     | Yes       |
| 25      | 5528                 | 12               | 12.3            | 285     | Yes       |
| 26      | 5521                 | 15               | 16.5            | 426     | No        |
| 27      | 5494                 | 14               | 14.8            | 350     | Yes       |
| 28      | 5515                 | 12               | 12.6            | 434     | Yes       |
| 29      | 5513                 | 14               | 15.1            | 491     | Yes       |
| 30      | 5503                 | 13               | 12.9            | 438     | Yes       |

Detection Rate: 90 %

## 802.11ac (VHT40)CH102

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 17                       | 5510                        | LP_Signal_01     | No        |
| 2       | 7                        | 5510                        | LP_Signal_02     | Yes       |
| 3       | 8                        | 5510                        | LP_Signal_03     | Yes       |
| 4       | 19                       | 5510                        | LP_Signal_04     | Yes       |
| 5       | 12                       | 5510                        | LP_Signal_05     | Yes       |
| 6       | 11                       | 5510                        | LP_Signal_06     | Yes       |
| 7       | 6                        | 5510                        | LP_Signal_07     | Yes       |
| 8       | 20                       | 5510                        | LP_Signal_08     | Yes       |
| 9       | 6                        | 5510                        | LP_Signal_09     | Yes       |
| 10      | 12                       | 5510                        | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497                        | LP_Signal_11     | Yes       |
| 12      | 20                       | 5499                        | LP_Signal_12     | Yes       |
| 13      | 18                       | 5498                        | LP_Signal_13     | Yes       |
| 14      | 12                       | 5496                        | LP_Signal_14     | Yes       |
| 15      | 12                       | 5496                        | LP_Signal_15     | No        |
| 16      | 15                       | 5497                        | LP_Signal_16     | Yes       |
| 17      | 10                       | 5495                        | LP_Signal_17     | Yes       |
| 18      | 12                       | 5496                        | LP_Signal_18     | Yes       |
| 19      | 10                       | 5495                        | LP_Signal_19     | Yes       |
| 20      | 20                       | 5499                        | LP_Signal_20     | Yes       |
| 21      | 7                        | 5526                        | LP_Signal_21     | Yes       |
| 22      | 20                       | 5521                        | LP_Signal_22     | No        |
| 23      | 8                        | 5526                        | LP_Signal_23     | Yes       |
| 24      | 17                       | 5522                        | LP_Signal_24     | Yes       |
| 25      | 7                        | 5526                        | LP_Signal_25     | No        |
| 26      | 14                       | 5523                        | LP_Signal_26     | Yes       |
| 27      | 11                       | 5525                        | LP_Signal_27     | Yes       |
| 28      | 7                        | 5526                        | LP_Signal_28     | Yes       |
| 29      | 12                       | 5524                        | LP_Signal_29     | Yes       |
| 30      | 8                        | 5526                        | LP_Signal_30     | Yes       |

Detection Rate: 86.7 %

The Long Pulse Radar pattern shown in Appendix A.1

## 802.11ac (VHT40)CH102

### Type 6 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | No        |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | No        |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | Yes       |

Detection Rate: 93.3 %

**802.11ac (VHT40)CH102**

| Type 6 Radar Statistical Performances |                                 |                        |
|---------------------------------------|---------------------------------|------------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection              |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                    |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                    |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                    |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                    |
| 5                                     | HOP_FREQ_SEQ_05                 | Yes                    |
| 6                                     | HOP_FREQ_SEQ_06                 | No                     |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                    |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                    |
| 9                                     | HOP_FREQ_SEQ_09                 | No                     |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                    |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                    |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                    |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                    |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                    |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                    |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                    |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                    |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                    |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                    |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                    |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                    |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                    |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                    |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                    |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                    |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                    |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                    |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                    |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                    |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                    |
|                                       |                                 | Detection Rate: 93.3 % |

The Frequency Hopping Radar pattern shown in Appendix A.2



**802.11ac (VHT80)CH58**
**Type 1 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|----------------------|---------------------------------------------|------------------------------------------------|------------------|------------------------------------------|-----------|
| 1       | 5290                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 2       | 5300                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 3       | 5320                 | 14                                          | 1285                                           | 68               | 778                                      | No        |
| 4       | 5280                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 5       | 5260                 | 10                                          | 1433                                           | 76               | 698                                      | No        |
| 6       | 5309                 | 13                                          | 1319                                           | 70               | 758                                      | Yes       |
| 7       | 5312                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 8       | 5277                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 9       | 5254                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 10      | 5317                 | 3                                           | 1792                                           | 95               | 558                                      | Yes       |
| 11      | 5263                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 12      | 5323                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 13      | 5277                 | 17                                          | 1193                                           | 63               | 838                                      | Yes       |
| 14      | 5276                 | 18                                          | 1166                                           | 62               | 858                                      | Yes       |
| 15      | 5310                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 16      | 5280                 |                                             | 1524                                           | 81               | 656                                      | Yes       |
| 17      | 5322                 |                                             | 749.6                                          | 40               | 1334                                     | Yes       |
| 18      | 5297                 |                                             | 1812                                           | 96               | 552                                      | Yes       |
| 19      | 5294                 |                                             | 660.5                                          | 35               | 1514                                     | Yes       |
| 20      | 5305                 |                                             | 364.2                                          | 20               | 2746                                     | Yes       |
| 21      | 5261                 |                                             | 960.6                                          | 51               | 1041                                     | Yes       |
| 22      | 5266                 |                                             | 344.1                                          | 19               | 2906                                     | Yes       |
| 23      | 5270                 |                                             | 421.2                                          | 23               | 2374                                     | Yes       |
| 24      | 5286                 |                                             | 751.3                                          | 40               | 1331                                     | Yes       |
| 25      | 5254                 |                                             | 513.3                                          | 28               | 1948                                     | Yes       |
| 26      | 5275                 |                                             | 1027                                           | 55               | 974                                      | Yes       |
| 27      | 5294                 |                                             | 409.3                                          | 22               | 2443                                     | Yes       |
| 28      | 5254                 |                                             | 557.4                                          | 30               | 1794                                     | Yes       |
| 29      | 5272                 |                                             | 874.1                                          | 47               | 1144                                     | Yes       |
| 30      | 5298                 |                                             | 473.5                                          | 25               | 2112                                     | Yes       |

Detection Rate: 93.3 %

# 802.11ac (VHT80)CH58

## Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5290                 | 28               | 4.2             | 228     | Yes       |
| 2       | 5300                 | 24               | 1.6             | 202     | Yes       |
| 3       | 5320                 | 24               | 1.9             | 193     | No        |
| 4       | 5280                 | 29               | 4.6             | 189     | Yes       |
| 5       | 5260                 | 26               | 3               | 167     | Yes       |
| 6       | 5306                 | 25               | 2.6             | 180     | Yes       |
| 7       | 5288                 | 23               | 1.4             | 165     | Yes       |
| 8       | 5296                 | 29               | 5               | 190     | Yes       |
| 9       | 5327                 | 23               | 1.2             | 168     | Yes       |
| 10      | 5306                 | 26               | 3               | 224     | Yes       |
| 11      | 5309                 | 27               | 3.9             | 187     | Yes       |
| 12      | 5319                 | 29               | 5               | 171     | Yes       |
| 13      | 5263                 | 28               | 4.3             | 223     | Yes       |
| 14      | 5320                 | 26               | 2.9             | 216     | Yes       |
| 15      | 5309                 | 26               | 2.9             | 219     | Yes       |
| 16      | 5266                 | 27               | 3.6             | 169     | Yes       |
| 17      | 5305                 | 25               | 2.5             | 199     | No        |
| 18      | 5271                 | 26               | 3               | 151     | Yes       |
| 19      | 5289                 | 25               | 2.4             | 198     | Yes       |
| 20      | 5290                 | 29               | 5               | 207     | Yes       |
| 21      | 5322                 | 23               | 1.5             | 162     | Yes       |
| 22      | 5262                 | 29               | 5               | 161     | Yes       |
| 23      | 5272                 | 24               | 1.8             | 194     | No        |
| 24      | 5316                 | 28               | 4.1             | 178     | Yes       |
| 25      | 5260                 | 24               | 1.6             | 170     | Yes       |
| 26      | 5287                 | 27               | 3.4             | 195     | No        |
| 27      | 5300                 | 25               | 2.7             | 212     | Yes       |
| 28      | 5268                 | 24               | 1.7             | 196     | Yes       |
| 29      | 5298                 | 26               | 2.8             | 217     | Yes       |
| 30      | 5261                 | 24               | 1.8             | 183     | Yes       |

Detection Rate: 86.7 %

**802.11ac (VHT80)CH58**
**Type 3 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5290                 | 18               | 9.2             | 258     | No        |
| 2       | 5300                 | 16               | 6.6             | 493     | Yes       |
| 3       | 5320                 | 16               | 6.9             | 359     | Yes       |
| 4       | 5280                 | 18               | 9.6             | 397     | Yes       |
| 5       | 5260                 | 17               | 8               | 355     | Yes       |
| 6       | 5311                 | 17               | 7.6             | 428     | Yes       |
| 7       | 5290                 | 16               | 6.4             | 271     | Yes       |
| 8       | 5311                 | 18               | 10              | 371     | No        |
| 9       | 5276                 | 16               | 6.2             | 430     | Yes       |
| 10      | 5325                 | 17               | 8               | 272     | Yes       |
| 11      | 5282                 | 18               | 8.9             | 202     | No        |
| 12      | 5283                 | 18               | 10              | 264     | Yes       |
| 13      | 5267                 | 18               | 9.3             | 207     | Yes       |
| 14      | 5314                 | 17               | 7.9             | 456     | Yes       |
| 15      | 5280                 | 17               | 7.9             | 291     | Yes       |
| 16      | 5284                 | 17               | 8.6             | 411     | Yes       |
| 17      | 5315                 | 17               | 7.5             | 368     | Yes       |
| 18      | 5309                 | 17               | 8               | 241     | Yes       |
| 19      | 5320                 | 17               | 7.4             | 467     | Yes       |
| 20      | 5266                 | 18               | 10              | 339     | Yes       |
| 21      | 5302                 | 16               | 6.5             | 500     | Yes       |
| 22      | 5326                 | 18               | 10              | 358     | No        |
| 23      | 5317                 | 16               | 6.8             | 251     | No        |
| 24      | 5279                 | 18               | 9.1             | 230     | Yes       |
| 25      | 5275                 | 16               | 6.6             | 285     | Yes       |
| 26      | 5258                 | 17               | 8.4             | 426     | Yes       |
| 27      | 5268                 | 17               | 7.7             | 350     | Yes       |
| 28      | 5259                 | 16               | 6.7             | 434     | Yes       |
| 29      | 5256                 | 17               | 7.8             | 491     | No        |
| 30      | 5323                 | 16               | 6.8             | 438     | Yes       |

Detection Rate: 80 %

**802.11ac (VHT80)CH58**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5290                 | 15               | 18.1            | 258     | Yes       |
| 2       | 5300                 | 12               | 12.3            | 493     | Yes       |
| 3       | 5320                 | 13               | 13.2            | 359     | Yes       |
| 4       | 5280                 | 16               | 19.1            | 397     | Yes       |
| 5       | 5260                 | 14               | 15.4            | 355     | No        |
| 6       | 5271                 | 14               | 14.6            | 428     | Yes       |
| 7       | 5300                 | 12               | 11.9            | 271     | Yes       |
| 8       | 5283                 | 16               | 19.9            | 371     | No        |
| 9       | 5307                 | 12               | 11.6            | 430     | Yes       |
| 10      | 5318                 | 14               | 15.4            | 272     | Yes       |
| 11      | 5325                 | 15               | 17.4            | 202     | Yes       |
| 12      | 5291                 | 16               | 19.9            | 264     | Yes       |
| 13      | 5324                 | 16               | 18.4            | 207     | Yes       |
| 14      | 5286                 | 14               | 15.3            | 456     | Yes       |
| 15      | 5312                 | 14               | 15.3            | 291     | No        |
| 16      | 5257                 | 15               | 16.8            | 411     | Yes       |
| 17      | 5327                 | 13               | 14.3            | 368     | Yes       |
| 18      | 5269                 | 14               | 15.5            | 241     | No        |
| 19      | 5295                 | 13               | 14.2            | 467     | Yes       |
| 20      | 5304                 | 16               | 20              | 339     | Yes       |
| 21      | 5291                 | 12               | 12.2            | 500     | Yes       |
| 22      | 5321                 | 16               | 19.9            | 358     | Yes       |
| 23      | 5304                 | 13               | 12.9            | 251     | Yes       |
| 24      | 5321                 | 15               | 17.9            | 230     | Yes       |
| 25      | 5269                 | 12               | 12.3            | 285     | No        |
| 26      | 5312                 | 15               | 16.5            | 426     | Yes       |
| 27      | 5287                 | 14               | 14.8            | 350     | Yes       |
| 28      | 5278                 | 12               | 12.6            | 434     | Yes       |
| 29      | 5277                 | 14               | 15.1            | 491     | Yes       |
| 30      | 5281                 | 13               | 12.9            | 438     | Yes       |

Detection Rate: 83.3 %

## 802.11ac (VHT80)CH58

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 17                       | 5290                        | LP_Signal_01     | Yes       |
| 2       | 7                        | 5290                        | LP_Signal_02     | Yes       |
| 3       | 8                        | 5290                        | LP_Signal_03     | Yes       |
| 4       | 19                       | 5290                        | LP_Signal_04     | Yes       |
| 5       | 12                       | 5290                        | LP_Signal_05     | Yes       |
| 6       | 11                       | 5290                        | LP_Signal_06     | Yes       |
| 7       | 6                        | 5290                        | LP_Signal_07     | Yes       |
| 8       | 20                       | 5290                        | LP_Signal_08     | Yes       |
| 9       | 6                        | 5290                        | LP_Signal_09     | Yes       |
| 10      | 12                       | 5290                        | LP_Signal_10     | Yes       |
| 11      | 16                       | 5258                        | LP_Signal_11     | Yes       |
| 12      | 20                       | 5260                        | LP_Signal_12     | Yes       |
| 13      | 18                       | 5259                        | LP_Signal_13     | No        |
| 14      | 12                       | 5257                        | LP_Signal_14     | Yes       |
| 15      | 12                       | 5257                        | LP_Signal_15     | Yes       |
| 16      | 15                       | 5258                        | LP_Signal_16     | Yes       |
| 17      | 10                       | 5256                        | LP_Signal_17     | Yes       |
| 18      | 12                       | 5257                        | LP_Signal_18     | No        |
| 19      | 10                       | 5256                        | LP_Signal_19     | Yes       |
| 20      | 20                       | 5260                        | LP_Signal_20     | Yes       |
| 21      | 7                        | 5325                        | LP_Signal_21     | Yes       |
| 22      | 20                       | 5320                        | LP_Signal_22     | No        |
| 23      | 8                        | 5325                        | LP_Signal_23     | Yes       |
| 24      | 17                       | 5321                        | LP_Signal_24     | No        |
| 25      | 7                        | 5325                        | LP_Signal_25     | Yes       |
| 26      | 14                       | 5322                        | LP_Signal_26     | Yes       |
| 27      | 11                       | 5324                        | LP_Signal_27     | Yes       |
| 28      | 7                        | 5325                        | LP_Signal_28     | No        |
| 29      | 12                       | 5323                        | LP_Signal_29     | Yes       |
| 30      | 8                        | 5325                        | LP_Signal_30     | Yes       |

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Appendix A.1

**802.11ac (VHT80)CH58**
**Type 6 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | No        |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | Yes       |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | Yes       |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | Yes       |
| 23      | 9                | 1               | 333.3   | No        |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | Yes       |

Detection Rate: 93.3%

## 802.11ac (VHT80)CH58

### Type 6 Radar Statistical Performances

| Trial # | Hopping Frequency Sequence Name | Detection              |
|---------|---------------------------------|------------------------|
| 1       | HOP_FREQ_SEQ_01                 | No                     |
| 2       | HOP_FREQ_SEQ_02                 | Yes                    |
| 3       | HOP_FREQ_SEQ_03                 | Yes                    |
| 4       | HOP_FREQ_SEQ_04                 | Yes                    |
| 5       | HOP_FREQ_SEQ_05                 | Yes                    |
| 6       | HOP_FREQ_SEQ_06                 | Yes                    |
| 7       | HOP_FREQ_SEQ_07                 | Yes                    |
| 8       | HOP_FREQ_SEQ_08                 | Yes                    |
| 9       | HOP_FREQ_SEQ_09                 | Yes                    |
| 10      | HOP_FREQ_SEQ_10                 | Yes                    |
| 11      | HOP_FREQ_SEQ_11                 | Yes                    |
| 12      | HOP_FREQ_SEQ_12                 | Yes                    |
| 13      | HOP_FREQ_SEQ_13                 | Yes                    |
| 14      | HOP_FREQ_SEQ_14                 | Yes                    |
| 15      | HOP_FREQ_SEQ_15                 | Yes                    |
| 16      | HOP_FREQ_SEQ_16                 | Yes                    |
| 17      | HOP_FREQ_SEQ_17                 | Yes                    |
| 18      | HOP_FREQ_SEQ_18                 | Yes                    |
| 19      | HOP_FREQ_SEQ_19                 | Yes                    |
| 20      | HOP_FREQ_SEQ_20                 | Yes                    |
| 21      | HOP_FREQ_SEQ_21                 | Yes                    |
| 22      | HOP_FREQ_SEQ_22                 | Yes                    |
| 23      | HOP_FREQ_SEQ_23                 | No                     |
| 24      | HOP_FREQ_SEQ_24                 | Yes                    |
| 25      | HOP_FREQ_SEQ_25                 | Yes                    |
| 26      | HOP_FREQ_SEQ_26                 | Yes                    |
| 27      | HOP_FREQ_SEQ_27                 | Yes                    |
| 28      | HOP_FREQ_SEQ_28                 | Yes                    |
| 29      | HOP_FREQ_SEQ_29                 | Yes                    |
| 30      | HOP_FREQ_SEQ_30                 | Yes                    |
|         |                                 | Detection Rate: 93.3 % |

The Frequency Hopping Radar pattern shown in Appendix A.2

**802.11ac (VHT80)CH106**
**Type 1 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulse Repetition Frequency Number (1 to 23) | Pulse Repetition Frequency (Pulse per seconds) | Pulses per Burst | Pulse Repetition Interval (microseconds) | Detection |
|---------|----------------------|---------------------------------------------|------------------------------------------------|------------------|------------------------------------------|-----------|
| 1       | 5530                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 2       | 5540                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 3       | 5560                 | 14                                          | 1285                                           | 68               | 778                                      | Yes       |
| 4       | 5520                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 5       | 5500                 | 10                                          | 1433                                           | 76               | 698                                      | Yes       |
| 6       | 5531                 | 13                                          | 1319                                           | 70               | 758                                      | Yes       |
| 7       | 5501                 | 16                                          | 1223                                           | 65               | 818                                      | No        |
| 8       | 5556                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 9       | 5494                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 10      | 5551                 | 3                                           | 1792                                           | 95               | 558                                      | Yes       |
| 11      | 5543                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 12      | 5493                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 13      | 5562                 | 17                                          | 1193                                           | 63               | 838                                      | No        |
| 14      | 5495                 | 18                                          | 1166                                           | 62               | 858                                      | Yes       |
| 15      | 5520                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 16      | 5539                 |                                             | 1524                                           | 81               | 656                                      | No        |
| 17      | 5530                 |                                             | 749.6                                          | 40               | 1334                                     | Yes       |
| 18      | 5516                 |                                             | 1812                                           | 96               | 552                                      | No        |
| 19      | 5548                 |                                             | 660.5                                          | 35               | 1514                                     | Yes       |
| 20      | 5508                 |                                             | 364.2                                          | 20               | 2746                                     | Yes       |
| 21      | 5524                 |                                             | 960.6                                          | 51               | 1041                                     | Yes       |
| 22      | 5561                 |                                             | 344.1                                          | 19               | 2906                                     | Yes       |
| 23      | 5496                 |                                             | 421.2                                          | 23               | 2374                                     | Yes       |
| 24      | 5518                 |                                             | 751.3                                          | 40               | 1331                                     | Yes       |
| 25      | 5503                 |                                             | 513.3                                          | 28               | 1948                                     | Yes       |
| 26      | 5512                 |                                             | 1027                                           | 55               | 974                                      | Yes       |
| 27      | 5544                 |                                             | 409.3                                          | 22               | 2443                                     | Yes       |
| 28      | 5497                 |                                             | 557.4                                          | 30               | 1794                                     | Yes       |
| 29      | 5541                 |                                             | 874.1                                          | 47               | 1144                                     | Yes       |
| 30      | 5567                 |                                             | 473.5                                          | 25               | 2112                                     | Yes       |

Detection Rate: 86.7 %



**802.11ac (VHT80)CH106**
**Type 2 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                 | 28               | 4.2             | 228     | Yes       |
| 2       | 5540                 | 24               | 1.6             | 202     | Yes       |
| 3       | 5560                 | 24               | 1.9             | 193     | Yes       |
| 4       | 5520                 | 29               | 4.6             | 189     | Yes       |
| 5       | 5500                 | 26               | 3               | 167     | Yes       |
| 6       | 5567                 | 25               | 2.6             | 180     | Yes       |
| 7       | 5511                 | 23               | 1.4             | 165     | Yes       |
| 8       | 5550                 | 29               | 5               | 190     | No        |
| 9       | 5564                 | 23               | 1.2             | 168     | Yes       |
| 10      | 5563                 | 26               | 3               | 224     | Yes       |
| 11      | 5551                 | 27               | 3.9             | 187     | No        |
| 12      | 5533                 | 29               | 5               | 171     | Yes       |
| 13      | 5525                 | 28               | 4.3             | 223     | Yes       |
| 14      | 5493                 | 26               | 2.9             | 216     | Yes       |
| 15      | 5541                 | 26               | 2.9             | 219     | Yes       |
| 16      | 5531                 | 27               | 3.6             | 169     | Yes       |
| 17      | 5551                 | 25               | 2.5             | 199     | Yes       |
| 18      | 5546                 | 26               | 3               | 151     | Yes       |
| 19      | 5559                 | 25               | 2.4             | 198     | Yes       |
| 20      | 5563                 | 29               | 5               | 207     | No        |
| 21      | 5493                 | 23               | 1.5             | 162     | Yes       |
| 22      | 5521                 | 29               | 5               | 161     | Yes       |
| 23      | 5512                 | 24               | 1.8             | 194     | Yes       |
| 24      | 5554                 | 28               | 4.1             | 178     | Yes       |
| 25      | 5529                 | 24               | 1.6             | 170     | Yes       |
| 26      | 5543                 | 27               | 3.4             | 195     | Yes       |
| 27      | 5546                 | 25               | 2.7             | 212     | Yes       |
| 28      | 5565                 | 24               | 1.7             | 196     | Yes       |
| 29      | 5495                 | 26               | 2.8             | 217     | Yes       |
| 30      | 5494                 | 24               | 1.8             | 183     | Yes       |

Detection Rate: 90 %

## 802.11ac (VHT80)CH106

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                 | 18               | 9.2             | 258     | Yes       |
| 2       | 5540                 | 16               | 6.6             | 493     | Yes       |
| 3       | 5560                 | 16               | 6.9             | 359     | Yes       |
| 4       | 5520                 | 18               | 9.6             | 397     | Yes       |
| 5       | 5500                 | 17               | 8               | 355     | Yes       |
| 6       | 5555                 | 17               | 7.6             | 428     | Yes       |
| 7       | 5557                 | 16               | 6.4             | 271     | No        |
| 8       | 5539                 | 18               | 10              | 371     | Yes       |
| 9       | 5547                 | 16               | 6.2             | 430     | Yes       |
| 10      | 5516                 | 17               | 8               | 272     | Yes       |
| 11      | 5564                 | 18               | 8.9             | 202     | No        |
| 12      | 5523                 | 18               | 10              | 264     | Yes       |
| 13      | 5564                 | 18               | 9.3             | 207     | Yes       |
| 14      | 5561                 | 17               | 7.9             | 456     | Yes       |
| 15      | 5520                 | 17               | 7.9             | 291     | No        |
| 16      | 5547                 | 17               | 8.6             | 411     | Yes       |
| 17      | 5563                 | 17               | 7.5             | 368     | Yes       |
| 18      | 5567                 | 17               | 8               | 241     | Yes       |
| 19      | 5552                 | 17               | 7.4             | 467     | Yes       |
| 20      | 5505                 | 18               | 10              | 339     | No        |
| 21      | 5552                 | 16               | 6.5             | 500     | Yes       |
| 22      | 5566                 | 18               | 10              | 358     | Yes       |
| 23      | 5516                 | 16               | 6.8             | 251     | Yes       |
| 24      | 5526                 | 18               | 9.1             | 230     | Yes       |
| 25      | 5503                 | 16               | 6.6             | 285     | Yes       |
| 26      | 5541                 | 17               | 8.4             | 426     | Yes       |
| 27      | 5493                 | 17               | 7.7             | 350     | Yes       |
| 28      | 5540                 | 16               | 6.7             | 434     | Yes       |
| 29      | 5507                 | 17               | 7.8             | 491     | Yes       |
| 30      | 5528                 | 16               | 6.8             | 438     | Yes       |

Detection Rate: 86.7 %

**802.11ac (VHT80)CH106**
**Type 4 Radar Statistical Performances**

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5530                 | 15               | 18.1            | 258     | Yes       |
| 2       | 5540                 | 12               | 12.3            | 493     | Yes       |
| 3       | 5560                 | 13               | 13.2            | 359     | Yes       |
| 4       | 5520                 | 16               | 19.1            | 397     | Yes       |
| 5       | 5500                 | 14               | 15.4            | 355     | Yes       |
| 6       | 5519                 | 14               | 14.6            | 428     | Yes       |
| 7       | 5557                 | 12               | 11.9            | 271     | Yes       |
| 8       | 5495                 | 16               | 19.9            | 371     | No        |
| 9       | 5531                 | 12               | 11.6            | 430     | Yes       |
| 10      | 5552                 | 14               | 15.4            | 272     | Yes       |
| 11      | 5530                 | 15               | 17.4            | 202     | Yes       |
| 12      | 5540                 | 16               | 19.9            | 264     | Yes       |
| 13      | 5522                 | 16               | 18.4            | 207     | Yes       |
| 14      | 5551                 | 14               | 15.3            | 456     | Yes       |
| 15      | 5497                 | 14               | 15.3            | 291     | Yes       |
| 16      | 5553                 | 15               | 16.8            | 411     | No        |
| 17      | 5550                 | 13               | 14.3            | 368     | Yes       |
| 18      | 5529                 | 14               | 15.5            | 241     | Yes       |
| 19      | 5526                 | 13               | 14.2            | 467     | No        |
| 20      | 5498                 | 16               | 20              | 339     | Yes       |
| 21      | 5499                 | 12               | 12.2            | 500     | Yes       |
| 22      | 5516                 | 16               | 19.9            | 358     | Yes       |
| 23      | 5514                 | 13               | 12.9            | 251     | Yes       |
| 24      | 5563                 | 15               | 17.9            | 230     | No        |
| 25      | 5566                 | 12               | 12.3            | 285     | Yes       |
| 26      | 5543                 | 15               | 16.5            | 426     | No        |
| 27      | 5496                 | 14               | 14.8            | 350     | Yes       |
| 28      | 5493                 | 12               | 12.6            | 434     | Yes       |
| 29      | 5551                 | 14               | 15.1            | 491     | Yes       |
| 30      | 5522                 | 13               | 12.9            | 438     | No        |

Detection Rate: 80 %

## 802.11ac (VHT80)CH106

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 17                       | 5530                        | LP_Signal_01     | Yes       |
| 2       | 7                        | 5530                        | LP_Signal_02     | Yes       |
| 3       | 8                        | 5530                        | LP_Signal_03     | Yes       |
| 4       | 19                       | 5530                        | LP_Signal_04     | Yes       |
| 5       | 12                       | 5530                        | LP_Signal_05     | No        |
| 6       | 11                       | 5530                        | LP_Signal_06     | Yes       |
| 7       | 6                        | 5530                        | LP_Signal_07     | No        |
| 8       | 20                       | 5530                        | LP_Signal_08     | Yes       |
| 9       | 6                        | 5530                        | LP_Signal_09     | Yes       |
| 10      | 12                       | 5530                        | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497                        | LP_Signal_11     | Yes       |
| 12      | 20                       | 5499                        | LP_Signal_12     | Yes       |
| 13      | 18                       | 5498                        | LP_Signal_13     | Yes       |
| 14      | 12                       | 5498                        | LP_Signal_14     | Yes       |
| 15      | 12                       | 5498                        | LP_Signal_15     | Yes       |
| 16      | 15                       | 5497                        | LP_Signal_16     | No        |
| 17      | 10                       | 5495                        | LP_Signal_17     | Yes       |
| 18      | 12                       | 5496                        | LP_Signal_18     | Yes       |
| 19      | 10                       | 5495                        | LP_Signal_19     | Yes       |
| 20      | 20                       | 5499                        | LP_Signal_20     | Yes       |
| 21      | 7                        | 5566                        | LP_Signal_21     | Yes       |
| 22      | 20                       | 5561                        | LP_Signal_22     | Yes       |
| 23      | 8                        | 5566                        | LP_Signal_23     | Yes       |
| 24      | 17                       | 5562                        | LP_Signal_24     | Yes       |
| 25      | 7                        | 5566                        | LP_Signal_25     | Yes       |
| 26      | 14                       | 5563                        | LP_Signal_26     | Yes       |
| 27      | 11                       | 5565                        | LP_Signal_27     | Yes       |
| 28      | 7                        | 5566                        | LP_Signal_28     | Yes       |
| 29      | 12                       | 5564                        | LP_Signal_29     | Yes       |
| 30      | 8                        | 5566                        | LP_Signal_30     | Yes       |

Detection Rate: 90 %

The Long Pulse Radar pattern shown in Appendix A.1

**802.11ac (VHT80)CH106**
**Type 6 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 9                | 1               | 333.3   | Yes       |
| 2       | 9                | 1               | 333.3   | Yes       |
| 3       | 9                | 1               | 333.3   | Yes       |
| 4       | 9                | 1               | 333.3   | Yes       |
| 5       | 9                | 1               | 333.3   | Yes       |
| 6       | 9                | 1               | 333.3   | Yes       |
| 7       | 9                | 1               | 333.3   | Yes       |
| 8       | 9                | 1               | 333.3   | Yes       |
| 9       | 9                | 1               | 333.3   | Yes       |
| 10      | 9                | 1               | 333.3   | Yes       |
| 11      | 9                | 1               | 333.3   | No        |
| 12      | 9                | 1               | 333.3   | Yes       |
| 13      | 9                | 1               | 333.3   | Yes       |
| 14      | 9                | 1               | 333.3   | Yes       |
| 15      | 9                | 1               | 333.3   | Yes       |
| 16      | 9                | 1               | 333.3   | No        |
| 17      | 9                | 1               | 333.3   | Yes       |
| 18      | 9                | 1               | 333.3   | Yes       |
| 19      | 9                | 1               | 333.3   | Yes       |
| 20      | 9                | 1               | 333.3   | Yes       |
| 21      | 9                | 1               | 333.3   | Yes       |
| 22      | 9                | 1               | 333.3   | No        |
| 23      | 9                | 1               | 333.3   | Yes       |
| 24      | 9                | 1               | 333.3   | Yes       |
| 25      | 9                | 1               | 333.3   | Yes       |
| 26      | 9                | 1               | 333.3   | Yes       |
| 27      | 9                | 1               | 333.3   | Yes       |
| 28      | 9                | 1               | 333.3   | Yes       |
| 29      | 9                | 1               | 333.3   | Yes       |
| 30      | 9                | 1               | 333.3   | No        |

Detection Rate: 86.7%

## 802.11ac (VHT80)CH106

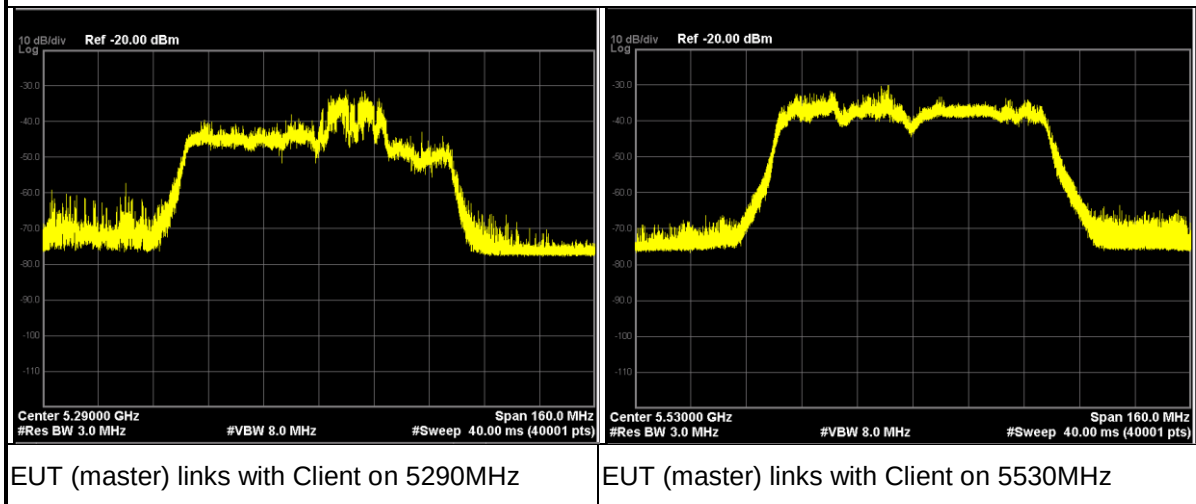
### Type 6 Radar Statistical Performances

| Trial # | Hopping Frequency Sequence Name | Detection              |
|---------|---------------------------------|------------------------|
| 1       | HOP_FREQ_SEQ_01                 | Yes                    |
| 2       | HOP_FREQ_SEQ_02                 | Yes                    |
| 3       | HOP_FREQ_SEQ_03                 | Yes                    |
| 4       | HOP_FREQ_SEQ_04                 | Yes                    |
| 5       | HOP_FREQ_SEQ_05                 | Yes                    |
| 6       | HOP_FREQ_SEQ_06                 | Yes                    |
| 7       | HOP_FREQ_SEQ_07                 | Yes                    |
| 8       | HOP_FREQ_SEQ_08                 | Yes                    |
| 9       | HOP_FREQ_SEQ_09                 | Yes                    |
| 10      | HOP_FREQ_SEQ_10                 | Yes                    |
| 11      | HOP_FREQ_SEQ_11                 | No                     |
| 12      | HOP_FREQ_SEQ_12                 | Yes                    |
| 13      | HOP_FREQ_SEQ_13                 | Yes                    |
| 14      | HOP_FREQ_SEQ_14                 | Yes                    |
| 15      | HOP_FREQ_SEQ_15                 | Yes                    |
| 16      | HOP_FREQ_SEQ_16                 | No                     |
| 17      | HOP_FREQ_SEQ_17                 | Yes                    |
| 18      | HOP_FREQ_SEQ_18                 | Yes                    |
| 19      | HOP_FREQ_SEQ_19                 | Yes                    |
| 20      | HOP_FREQ_SEQ_20                 | Yes                    |
| 21      | HOP_FREQ_SEQ_21                 | Yes                    |
| 22      | HOP_FREQ_SEQ_22                 | No                     |
| 23      | HOP_FREQ_SEQ_23                 | Yes                    |
| 24      | HOP_FREQ_SEQ_24                 | Yes                    |
| 25      | HOP_FREQ_SEQ_25                 | Yes                    |
| 26      | HOP_FREQ_SEQ_26                 | Yes                    |
| 27      | HOP_FREQ_SEQ_27                 | Yes                    |
| 28      | HOP_FREQ_SEQ_28                 | Yes                    |
| 29      | HOP_FREQ_SEQ_29                 | Yes                    |
| 30      | HOP_FREQ_SEQ_30                 | No                     |
|         |                                 | Detection Rate: 86.7 % |

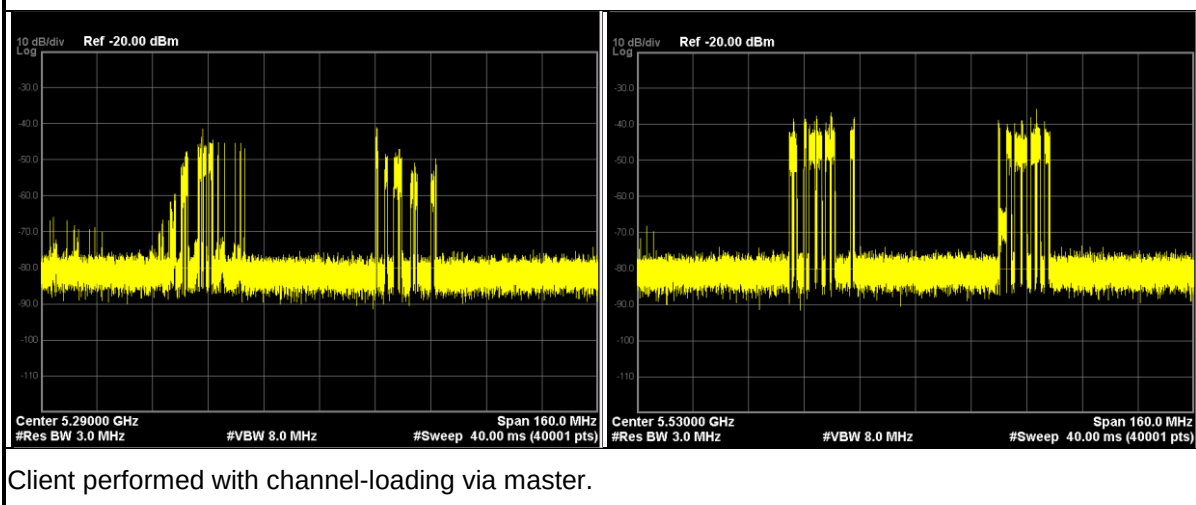
The Frequency Hopping Radar pattern shown in Appendix A.2

## 6.2.5 Non- Occupancy Period

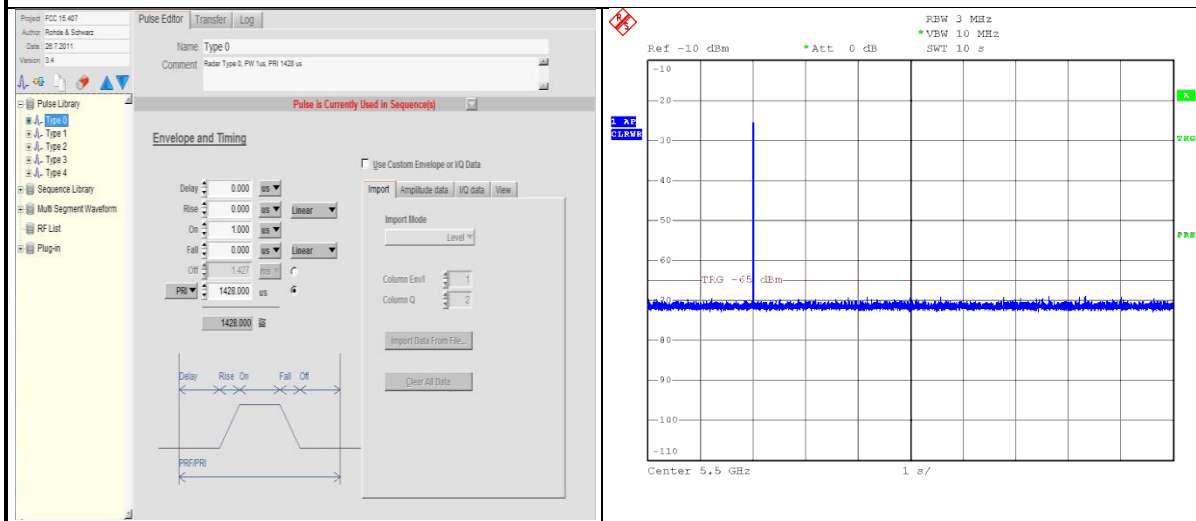
1) Test results demonstrating an associated client link is established with the master on a test frequency.



2) The master and DFS-certified client device are associated, and system testing will be performed with channel-loading for a non-occupancy period test.



3). The device transmits one type of radar as specified in the DFS Order.



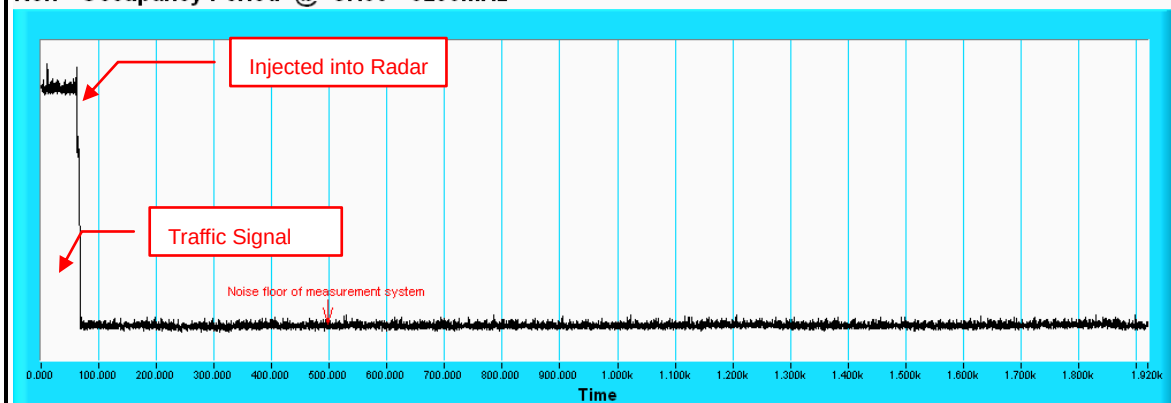
Radar 0 is used to test during DFS testing.

4) The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes;

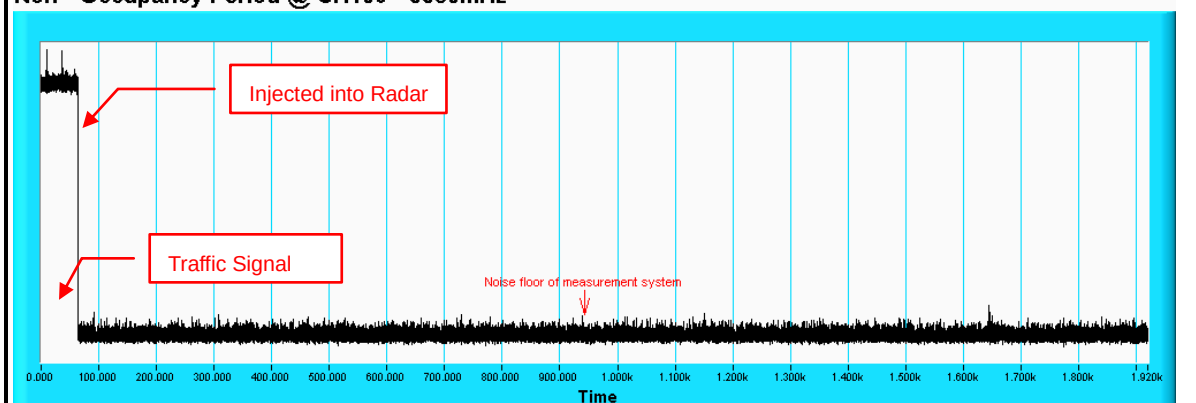
Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear;

5)An analyzer plot that contains a single 30-minute sweep on the original test frequency.

**Non - Occupancy Period @ CH58 - 5290MHz**



**Non - Occupancy Period @ CH106 - 5530MHz**





## 7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

The address and road map of all our labs can be found in our web site also.

## 8. APPENDIX-A

### RADAR TEST SIGNAL

#### A.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 89.4            | 1750       | 1823       | 1091       |
| 2     | 1                | 17          | 57.6            | 1831       | -          | -          |
| 3     | 1                | 17          | 62.1            | 1839       | -          | -          |
| 4     | 3                | 17          | 94.8            | 1258       | 1771       | 1217       |
| 5     | 2                | 17          | 74.7            | 1246       | 1854       | -          |
| 6     | 2                | 17          | 70.3            | 1286       | 1132       | -          |
| 7     | 1                | 17          | 55.3            | 1409       | -          | -          |
| 8     | 3                | 17          | 99.3            | 1879       | 1810       | 1391       |
| 9     | 1                | 17          | 53.5            | 1673       | -          | -          |
| 10    | 2                | 17          | 74.6            | 1448       | 1969       | -          |
| 11    | 3                | 17          | 85.5            | 1999       | 1087       | 1140       |
| 12    | 3                | 17          | 99.3            | 1602       | 1435       | 1376       |
| 13    | 3                | 17          | 91              | 1211       | 1374       | 1783       |
| 14    | 2                | 17          | 73.8            | 1924       | 1124       | -          |
| 15    | 2                | 17          | 74.1            | 1641       | 1247       | -          |
| 16    | 2                | 17          | 82.2            | 1904       | 1345       | -          |
| 17    | 2                | 17          | 68.6            | 1168       | 1844       | -          |
| 18    | 2                | 17          | 74.8            | 1444       | 1778       | -          |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 67.7            | 1691       | 1157       | -          |
| 2     | 3                | 7           | 99.8            | 1097       | 1766       | 1178       |
| 3     | 1                | 7           | 56.9            | 1188       | -          | -          |
| 4     | 3                | 7           | 99.1            | 1208       | 1655       | 1974       |
| 5     | 1                | 7           | 60.8            | 1480       | -          | -          |
| 6     | 3                | 7           | 88.3            | 1272       | 1863       | 1474       |
| 7     | 1                | 7           | 57.5            | 1911       | -          | -          |
| 8     | 2                | 7           | 80.3            | 1455       | 1881       | -          |
| 9     | 2                | 7           | 71.4            | 1137       | 1241       | 0          |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 8           | 58.9            | 1295       | -          | -          |
| 2     | 2                | 8           | 72.6            | 1375       | 1213       | -          |
| 3     | 1                | 8           | 60.7            | 1039       | -          | -          |
| 4     | 2                | 8           | 70.8            | 1230       | 1064       | -          |
| 5     | 1                | 8           | 51.9            | 1025       | -          | -          |
| 6     | 2                | 8           | 67.5            | 1895       | 1802       | -          |
| 7     | 2                | 8           | 80.8            | 1550       | 1533       | -          |
| 8     | 2                | 8           | 68.6            | 1525       | 1221       | -          |
| 9     | 3                | 8           | 92.4            | 1651       | 1985       | 1505       |
| 10    | 3                | 8           | 87              | 1671       | 1451       | 1643       |
| 11    | 2                | 8           | 70.9            | 1439       | 1724       | -          |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 19          | 81.2            | 1922       | 1020       | -          |
| 2     | 1                | 19          | 57.6            | 1677       | -          | -          |
| 3     | 3                | 19          | 84.9            | 1073       | 1244       | 1949       |
| 4     | 2                | 19          | 83.1            | 1935       | 1174       | -          |
| 5     | 2                | 19          | 71.1            | 1542       | 1560       | -          |
| 6     | 1                | 19          | 55.1            | 1790       | -          | -          |
| 7     | 1                | 19          | 54.4            | 1396       | -          | -          |
| 8     | 3                | 19          | 90.6            | 1035       | 1886       | 1980       |
| 9     | 3                | 19          | 92.2            | 1950       | 1759       | 1163       |
| 10    | 3                | 19          | 92.5            | 1108       | 1661       | 1358       |
| 11    | 2                | 19          | 79.5            | 1441       | 1957       | -          |
| 12    | 2                | 19          | 76.3            | 1259       | 1876       | -          |
| 13    | 1                | 19          | 65.7            | 1880       | -          | -          |
| 14    | 3                | 19          | 99.4            | 1971       | 1493       | 1004       |
| 15    | 3                | 19          | 89.5            | 1238       | 1700       | 1581       |
| 16    | 2                | 19          | 79.1            | 1906       | 1546       | -          |
| 17    | 1                | 19          | 60              | 1019       | -          | -          |
| 18    | 3                | 19          | 90.3            | 1808       | 1034       | 1199       |
| 19    | 3                | 19          | 96.8            | 1869       | 1993       | 1967       |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 73.8            | 1686       | 1255       | -          |
| 2     | 3                | 12          | 87.2            | 1201       | 1621       | 1693       |
| 3     | 3                | 12          | 94.4            | 1503       | 1529       | 1431       |
| 4     | 3                | 12          | 99              | 1308       | 1366       | 1481       |
| 5     | 3                | 12          | 96.5            | 1318       | 1418       | 1452       |
| 6     | 2                | 12          | 76.6            | 1695       | 1170       | -          |
| 7     | 3                | 12          | 92.8            | 1304       | 1113       | 1835       |
| 8     | 1                | 12          | 53.8            | 1068       | -          | -          |
| 9     | 3                | 12          | 83.6            | 1384       | 1593       | 1212       |
| 10    | 2                | 12          | 81.8            | 1395       | 1768       | -          |
| 11    | 1                | 12          | 60.2            | 1129       | -          | -          |
| 12    | 1                | 12          | 55.1            | 1045       | -          | -          |
| 13    | 2                | 12          | 81.8            | 1984       | 1703       | -          |
| 14    | 3                | 12          | 95.3            | 1992       | 1828       | 1932       |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 11          | 97.7            | 1350       | 1354       | 1424       |
| 2     | 3                | 11          | 93.6            | 1779       | 1273       | 1540       |
| 3     | 1                | 11          | 60              | 1065       | -          | -          |
| 4     | 1                | 11          | 64.8            | 1956       | -          | -          |
| 5     | 2                | 11          | 73.9            | 1390       | 1794       | -          |
| 6     | 2                | 11          | 77.9            | 1670       | 1206       | -          |
| 7     | 1                | 11          | 55.7            | 1942       | -          | -          |
| 8     | 3                | 11          | 83.9            | 1105       | 1853       | 1440       |
| 9     | 2                | 11          | 66.9            | 1819       | 1281       | -          |
| 10    | 3                | 11          | 88.2            | 1734       | 1361       | 1371       |
| 11    | 2                | 11          | 79              | 1400       | 1522       | -          |
| 12    | 2                | 11          | 79.4            | 1516       | 1031       | -          |
| 13    | 3                | 11          | 96.4            | 1328       | 1845       | 1833       |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 6           | 95.1            | 1436       | 1883       | 1146       |
| 2     | 2                | 6           | 71.5            | 1669       | 1952       | -          |
| 3     | 1                | 6           | 62.5            | 1309       | -          | -          |
| 4     | 3                | 6           | 88.5            | 1797       | 1846       | 1528       |
| 5     | 2                | 6           | 70.7            | 1976       | 1714       | -          |
| 6     | 2                | 6           | 78.3            | 1943       | 1873       | -          |
| 7     | 3                | 6           | 95.6            | 1763       | 1887       | 1977       |
| 8     | 1                | 6           | 63.1            | 1434       | -          | -          |
| 9     | 3                | 6           | 83.7            | 1069       | 1236       | 1277       |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 86.9            | 1257       | 1010       | 1287       |
| 2     | 1                | 20          | 58.7            | 1628       | -          | -          |
| 3     | 3                | 20          | 88.4            | 1800       | 1214       | 1234       |
| 4     | 1                | 20          | 56.4            | 1340       | -          | -          |
| 5     | 2                | 20          | 78.4            | 1792       | 1243       | -          |
| 6     | 1                | 20          | 51.3            | 1416       | -          | -          |
| 7     | 2                | 20          | 70.8            | 1645       | 1975       | -          |
| 8     | 1                | 20          | 58.8            | 1755       | -          | -          |
| 9     | 2                | 20          | 82              | 1476       | 1356       | -          |
| 10    | 3                | 20          | 87.3            | 1650       | 1941       | 1834       |
| 11    | 3                | 20          | 97.8            | 1898       | 1608       | 1523       |
| 12    | 2                | 20          | 81.1            | 1696       | 1870       | -          |
| 13    | 2                | 20          | 68.1            | 1652       | 1323       | -          |
| 14    | 1                | 20          | 55.7            | 1814       | -          | -          |
| 15    | 2                | 20          | 79.4            | 1078       | 1527       | -          |
| 16    | 1                | 20          | 64.2            | 1667       | -          | -          |
| 17    | 3                | 20          | 86.2            | 1052       | 1038       | 1690       |
| 18    | 1                | 20          | 62.3            | 1494       | -          | -          |
| 19    | 3                | 20          | 91.1            | 1885       | 1460       | 1013       |
| 20    | 3                | 20          | 89.9            | 1603       | 1592       | 1239       |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 6           | 70.2            | 1773       | 1471       | -          |
| 2     | 1                | 6           | 56.2            | 1180       | -          | -          |
| 3     | 2                | 6           | 69.9            | 1042       | 1393       | -          |
| 4     | 2                | 6           | 67              | 1569       | 1594       | -          |
| 5     | 2                | 6           | 80.3            | 1292       | 1588       | -          |
| 6     | 3                | 6           | 97.8            | 1338       | 1678       | 1114       |
| 7     | 2                | 6           | 82.3            | 1803       | 1185       | -          |
| 8     | 2                | 6           | 71.1            | 1564       | 1164       | -          |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 12          | 93.3            | 1781       | 1456       | 1265       |
| 2     | 3                | 12          | 89.5            | 1276       | 1002       | 1998       |
| 3     | 2                | 12          | 76.9            | 1607       | 1538       | -          |
| 4     | 3                | 12          | 86.2            | 1261       | 1890       | 1231       |
| 5     | 2                | 12          | 82.1            | 1559       | 1369       | -          |
| 6     | 1                | 12          | 63.9            | 1752       | -          | -          |
| 7     | 1                | 12          | 56.7            | 1225       | -          | -          |
| 8     | 1                | 12          | 51.3            | 1183       | -          | -          |
| 9     | 2                | 12          | 76.5            | 1498       | 1486       | -          |
| 10    | 2                | 12          | 67.4            | 1235       | 1381       | -          |
| 11    | 3                | 12          | 99.6            | 1582       | 1629       | 1177       |
| 12    | 1                | 12          | 54.4            | 1983       | -          | -          |
| 13    | 1                | 12          | 63.1            | 1953       | -          | -          |
| 14    | 1                | 12          | 58.1            | 1075       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 16          | 56.2            | 1389       | -          | -          |
| 2     | 3                | 16          | 91.7            | 1227       | 1497       | 1722       |
| 3     | 2                | 16          | 81.7            | 1437       | 1561       | -          |
| 4     | 1                | 16          | 65.2            | 1001       | -          | -          |
| 5     | 2                | 16          | 76.9            | 1649       | 1267       | -          |
| 6     | 1                | 16          | 65.7            | 1962       | -          | -          |
| 7     | 2                | 16          | 83.1            | 1242       | 1536       | -          |
| 8     | 2                | 16          | 74.3            | 1972       | 1030       | -          |
| 9     | 3                | 16          | 84.6            | 1148       | 1675       | 1683       |
| 10    | 1                | 16          | 66              | 1398       | -          | -          |
| 11    | 1                | 16          | 54.4            | 1368       | -          | -          |
| 12    | 2                | 16          | 73.2            | 1692       | 1156       | -          |
| 13    | 1                | 16          | 63.5            | 1508       | -          | -          |
| 14    | 2                | 16          | 80.7            | 1506       | 1426       | -          |
| 15    | 3                | 16          | 88.8            | 1939       | 1738       | 1841       |
| 16    | 2                | 16          | 71.3            | 1430       | 1705       | -          |
| 17    | 2                | 16          | 76.2            | 1182       | 1708       | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 80.6            | 1716       | 1419       | -          |
| 2     | 2                | 20          | 69              | 1197       | 1349       | -          |
| 3     | 3                | 20          | 99.8            | 1300       | 1756       | 1712       |
| 4     | 1                | 20          | 65.5            | 1028       | -          | -          |
| 5     | 3                | 20          | 92.5            | 1857       | 1534       | 1544       |
| 6     | 1                | 20          | 60.4            | 1640       | -          | -          |
| 7     | 1                | 20          | 61.5            | 1761       | -          | -          |
| 8     | 3                | 20          | 99              | 1457       | 1908       | 1599       |
| 9     | 1                | 20          | 54.1            | 1487       | -          | -          |
| 10    | 3                | 20          | 99.1            | 1720       | 1314       | 1945       |
| 11    | 2                | 20          | 78              | 1155       | 1829       | -          |
| 12    | 3                | 20          | 87.8            | 1812       | 1617       | 1159       |
| 13    | 2                | 20          | 68.8            | 1458       | 1438       | -          |
| 14    | 1                | 20          | 62.7            | 1672       | -          | -          |
| 15    | 3                | 20          | 86.7            | 1618       | 1422       | 1224       |
| 16    | 2                | 20          | 76.8            | 1056       | 1934       | -          |
| 17    | 1                | 20          | 62              | 1006       | -          | -          |
| 18    | 1                | 20          | 50              | 1884       | -          | -          |
| 19    | 2                | 20          | 78.2            | 1330       | 1630       | -          |
| 20    | 3                | 20          | 85.3            | 1464       | 1955       | 1960       |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 18          | 65              | 1066       | -          | -          |
| 2     | 2                | 18          | 70.8            | 1929       | 1636       | -          |
| 3     | 1                | 18          | 66.5            | 1094       | -          | -          |
| 4     | 3                | 18          | 88              | 1855       | 1252       | 1111       |
| 5     | 2                | 18          | 69              | 1290       | 1859       | -          |
| 6     | 1                | 18          | 54.9            | 1551       | -          | -          |
| 7     | 1                | 18          | 60.8            | 2000       | -          | -          |
| 8     | 2                | 18          | 81.8            | 1585       | 1864       | -          |
| 9     | 1                | 18          | 58.8            | 1130       | -          | -          |
| 10    | 1                | 18          | 50.4            | 1169       | -          | -          |
| 11    | 2                | 18          | 76              | 1325       | 1445       | -          |
| 12    | 1                | 18          | 62.6            | 1530       | -          | -          |
| 13    | 1                | 18          | 55.1            | 1851       | -          | -          |
| 14    | 3                | 18          | 91.2            | 1181       | 1302       | 1966       |
| 15    | 2                | 18          | 68.9            | 1348       | 1355       | -          |
| 16    | 3                | 18          | 85.4            | 1537       | 1758       | 1109       |
| 17    | 1                | 18          | 63.4            | 1011       | -          | -          |
| 18    | 3                | 18          | 92.7            | 1122       | 1333       | 1584       |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 63.7            | 1830       | -          | -          |
| 2     | 2                | 12          | 81.3            | 1110       | 1746       | -          |
| 3     | 2                | 12          | 70.2            | 1334       | 1187       | -          |
| 4     | 1                | 12          | 66.3            | 1587       | -          | -          |
| 5     | 2                | 12          | 72.8            | 1578       | 1745       | -          |
| 6     | 2                | 12          | 66.7            | 1694       | 1931       | -          |
| 7     | 1                | 12          | 55.1            | 1284       | -          | -          |
| 8     | 3                | 12          | 86.5            | 1089       | 1490       | 1762       |
| 9     | 1                | 12          | 65.7            | 1084       | -          | -          |
| 10    | 1                | 12          | 53.2            | 1268       | -          | -          |
| 11    | 2                | 12          | 67.8            | 1625       | 1411       | -          |
| 12    | 3                | 12          | 96.5            | 1576       | 1799       | 1233       |
| 13    | 1                | 12          | 51.4            | 1373       | -          | -          |
| 14    | 2                | 12          | 80.7            | 1098       | 1849       | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 60.5            | 1668       | -          | -          |
| 2     | 3                | 12          | 86              | 1786       | 1666       | 1266       |
| 3     | 1                | 12          | 61.2            | 1228       | -          | -          |
| 4     | 1                | 12          | 59.8            | 1204       | -          | -          |
| 5     | 1                | 12          | 52.5            | 1021       | -          | -          |
| 6     | 1                | 12          | 61.7            | 1634       | -          | -          |
| 7     | 3                | 12          | 96.5            | 1741       | 1875       | 1296       |
| 8     | 3                | 12          | 87.6            | 1093       | 1250       | 1172       |
| 9     | 3                | 12          | 99.6            | 1215       | 1813       | 1820       |
| 10    | 2                | 12          | 79.7            | 1327       | 1512       | -          |
| 11    | 3                | 12          | 90.2            | 1589       | 1145       | 1082       |
| 12    | 1                | 12          | 53.7            | 1136       | -          | -          |
| 13    | 2                | 12          | 73              | 1706       | 1526       | -          |
| 14    | 1                | 12          | 65.4            | 1420       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 15          | 82.6            | 1347       | 1485       | -          |
| 2     | 2                | 15          | 77.6            | 1312       | 1500       | -          |
| 3     | 3                | 15          | 93.8            | 1062       | 1005       | 1749       |
| 4     | 1                | 15          | 51.3            | 1809       | -          | -          |
| 5     | 1                | 15          | 63.4            | 1699       | -          | -          |
| 6     | 2                | 15          | 69.4            | 1606       | 1219       | -          |
| 7     | 3                | 15          | 86.3            | 1102       | 1878       | 1728       |
| 8     | 3                | 15          | 97              | 1192       | 1858       | 1772       |
| 9     | 1                | 15          | 65.1            | 1363       | -          | -          |
| 10    | 3                | 15          | 98.8            | 1083       | 1567       | 1961       |
| 11    | 3                | 15          | 98.1            | 1473       | 1271       | 1263       |
| 12    | 3                | 15          | 99.9            | 1780       | 1871       | 1249       |
| 13    | 2                | 15          | 82.9            | 1785       | 1081       | -          |
| 14    | 2                | 15          | 82.5            | 1501       | 1921       | -          |
| 15    | 3                | 15          | 89.2            | 1767       | 1357       | 1479       |
| 16    | 1                | 15          | 57.5            | 1891       | -          | -          |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 63.9            | 1331       | -          | -          |
| 2     | 1                | 10          | 62.4            | 1897       | -          | -          |
| 3     | 3                | 10          | 99.1            | 1769       | 1832       | 1647       |
| 4     | 3                | 10          | 95.4            | 1991       | 1085       | 1937       |
| 5     | 1                | 10          | 52              | 1029       | -          | -          |
| 6     | 2                | 10          | 69.1            | 1637       | 1611       | -          |
| 7     | 2                | 10          | 80              | 1447       | 1685       | -          |
| 8     | 1                | 10          | 59.1            | 1635       | -          | -          |
| 9     | 2                | 10          | 82.8            | 1134       | 1080       | -          |
| 10    | 1                | 10          | 51.6            | 1138       | -          | -          |
| 11    | 3                | 10          | 96.2            | 1165       | 1754       | 1269       |
| 12    | 2                | 10          | 76.1            | 1406       | 1818       | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 81.7            | 1946       | 1868       | -          |
| 2     | 3                | 12          | 90.5            | 1414       | 1453       | 1305       |
| 3     | 2                | 12          | 76.2            | 2000       | 1852       | -          |
| 4     | 2                | 12          | 69.1            | 1351       | 1071       | -          |
| 5     | 3                | 12          | 93.7            | 1865       | 1196       | 1782       |
| 6     | 3                | 12          | 89.7            | 1429       | 1948       | 1402       |
| 7     | 1                | 12          | 53.9            | 1070       | -          | -          |
| 8     | 3                | 12          | 88.2            | 1632       | 1940       | 1689       |
| 9     | 1                | 12          | 59.4            | 1733       | -          | -          |
| 10    | 1                | 12          | 66.4            | 1285       | -          | -          |
| 11    | 2                | 12          | 83              | 1321       | 1591       | -          |
| 12    | 2                | 12          | 82              | 1912       | 1012       | -          |
| 13    | 3                | 12          | 94.4            | 1698       | 1784       | 1303       |
| 14    | 1                | 12          | 63.6            | 1175       | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 10          | 70.9            | 1736       | 1367       | -          |
| 2     | 1                | 10          | 62.4            | 1193       | -          | -          |
| 3     | 1                | 10          | 61.8            | 1596       | -          | -          |
| 4     | 1                | 10          | 52.6            | 1646       | -          | -          |
| 5     | 2                | 10          | 78.9            | 1049       | 1639       | -          |
| 6     | 1                | 10          | 63.9            | 1679       | -          | -          |
| 7     | 3                | 10          | 98.5            | 1627       | 1731       | 1442       |
| 8     | 3                | 10          | 92              | 1294       | 1547       | 1119       |
| 9     | 1                | 10          | 65.8            | 1386       | -          | -          |
| 10    | 2                | 10          | 77.7            | 1987       | 1964       | -          |
| 11    | 1                | 10          | 54.6            | 1553       | -          | -          |
| 12    | 2                | 10          | 77.7            | 1171       | 1413       | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 20          | 63.4            | 1899       | -          | -          |
| 2     | 1                | 20          | 63.5            | 1633       | -          | -          |
| 3     | 3                | 20          | 97.6            | 1815       | 1198       | 1488       |
| 4     | 3                | 20          | 84.7            | 1626       | 1026       | 1326       |
| 5     | 2                | 20          | 68.5            | 1469       | 1684       | -          |
| 6     | 1                | 20          | 61.8            | 1408       | -          | -          |
| 7     | 2                | 20          | 73.2            | 1735       | 1125       | -          |
| 8     | 1                | 20          | 60.2            | 1468       | -          | -          |
| 9     | 1                | 20          | 65.2            | 1519       | -          | -          |
| 10    | 2                | 20          | 74.6            | 1954       | 1654       | -          |
| 11    | 2                | 20          | 72.6            | 1394       | 1096       | -          |
| 12    | 2                | 20          | 78.9            | 1343       | 1843       | -          |
| 13    | 1                | 20          | 56.2            | 1003       | -          | -          |
| 14    | 3                | 20          | 93.2            | 1433       | 1299       | 1324       |
| 15    | 2                | 20          | 78.6            | 1404       | 1539       | -          |
| 16    | 1                | 20          | 50.9            | 1570       | -          | -          |
| 17    | 3                | 20          | 98.2            | 1346       | 1179       | 1510       |
| 18    | 3                | 20          | 97.5            | 1616       | 1360       | 1710       |
| 19    | 2                | 20          | 79.5            | 1822       | 1721       | -          |
| 20    | 2                | 20          | 67              | 1554       | 1237       | -          |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 7           | 51              | 1893       | -          | -          |
| 2     | 3                | 7           | 88.5            | 1270       | 1664       | 1623       |
| 3     | 3                | 7           | 98.2            | 1979       | 1826       | 1128       |
| 4     | 2                | 7           | 67.5            | 1417       | 1586       | -          |
| 5     | 3                | 7           | 97.4            | 1642       | 1121       | 1770       |
| 6     | 2                | 7           | 80.2            | 1816       | 1060       | -          |
| 7     | 2                | 7           | 72.8            | 1619       | 1203       | -          |
| 8     | 2                | 7           | 82.2            | 1499       | 1848       | -          |
| 9     | 2                | 7           | 77.6            | 1562       | 1573       | -          |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 89.8            | 1742       | 1968       | 1036       |
| 2     | 2                | 20          | 74.7            | 1850       | 1306       | -          |
| 3     | 3                | 20          | 98.5            | 1123       | 1336       | 1791       |
| 4     | 1                | 20          | 64.4            | 1740       | -          | -          |
| 5     | 1                | 20          | 66              | 1000       | -          | -          |
| 6     | 2                | 20          | 76.3            | 1521       | 1928       | -          |
| 7     | 3                | 20          | 90.4            | 1764       | 1383       | 1726       |
| 8     | 3                | 20          | 90.6            | 1896       | 1653       | 1697       |
| 9     | 2                | 20          | 74.8            | 1995       | 1938       | -          |
| 10    | 3                | 20          | 98              | 1251       | 1520       | 1725       |
| 11    | 2                | 20          | 71.2            | 1775       | 1240       | -          |
| 12    | 1                | 20          | 58.8            | 1195       | -          | -          |
| 13    | 3                | 20          | 84.1            | 1475       | 1472       | 1590       |
| 14    | 3                | 20          | 98.4            | 1274       | 1282       | 1918       |
| 15    | 3                | 20          | 96.4            | 1131       | 1739       | 1009       |
| 16    | 3                | 20          | 89.9            | 1484       | 1283       | 1412       |
| 17    | 2                | 20          | 82.9            | 1729       | 1571       | -          |
| 18    | 3                | 20          | 96.5            | 1978       | 1478       | 1555       |
| 19    | 3                | 20          | 85.7            | 1872       | 1737       | 1847       |
| 20    | 3                | 20          | 85.4            | 1387       | 1151       | 1531       |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 8           | 97.6            | 1568       | 1676       | 1023       |
| 2     | 3                | 8           | 93.9            | 1407       | 1682       | 1209       |
| 3     | 2                | 8           | 68.3            | 1807       | 1365       | -          |
| 4     | 3                | 8           | 98.3            | 1107       | 1882       | 1524       |
| 5     | 3                | 8           | 87.6            | 1557       | 1342       | 1910       |
| 6     | 2                | 8           | 76.6            | 1033       | 1048       | -          |
| 7     | 2                | 8           | 74.9            | 1101       | 1443       | -          |
| 8     | 1                | 8           | 65.3            | 1341       | -          | -          |
| 9     | 2                | 8           | 80              | 1220       | 1015       | -          |
| 10    | 3                | 8           | 87.4            | 1765       | 1316       | 1377       |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 88.4            | 1279       | 1317       | 1150       |
| 2     | 3                | 17          | 89.1            | 1288       | 1660       | 1789       |
| 3     | 3                | 17          | 91              | 1385       | 1988       | 1461       |
| 4     | 2                | 17          | 82.6            | 1915       | 1059       | -          |
| 5     | 2                | 17          | 75.5            | 1662       | 1982       | -          |
| 6     | 3                | 17          | 99.9            | 1222       | 1796       | 1717       |
| 7     | 2                | 17          | 74.1            | 1877       | 1917       | -          |
| 8     | 1                | 17          | 64.5            | 1380       | -          | -          |
| 9     | 3                | 17          | 90.3            | 1032       | 1613       | 1191       |
| 10    | 2                | 17          | 66.9            | 1158       | 1930       | -          |
| 11    | 3                | 17          | 88.2            | 1753       | 1399       | 1507       |
| 12    | 1                | 17          | 60.4            | 1307       | -          | -          |
| 13    | 2                | 17          | 73.3            | 1152       | 1543       | -          |
| 14    | 3                | 17          | 99.6            | 1207       | 1491       | 1297       |
| 15    | 1                | 17          | 58.2            | 1024       | -          | -          |
| 16    | 1                | 17          | 58.2            | 1925       | -          | -          |
| 17    | 2                | 17          | 66.9            | 1994       | 1090       | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 7           | 90.1            | 1465       | 1459       | 1862       |
| 2     | 1                | 7           | 51.8            | 1730       | -          | -          |
| 3     | 2                | 7           | 77.7            | 1874       | 1388       | -          |
| 4     | 1                | 7           | 64.4            | 1401       | -          | -          |
| 5     | 3                | 7           | 83.7            | 1517       | 1861       | 1612       |
| 6     | 3                | 7           | 87.1            | 1981       | 1161       | 1541       |
| 7     | 3                | 7           | 96.9            | 1143       | 1757       | 1115       |
| 8     | 2                | 7           | 80.1            | 1232       | 1574       | -          |
| 9     | 3                | 7           | 95.9            | 1051       | 1202       | 1344       |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 14          | 56.4            | 1379       | -          | -          |
| 2     | 1                | 14          | 50.2            | 1827       | -          | -          |
| 3     | 2                | 14          | 76.8            | 1189       | 1788       | -          |
| 4     | 3                | 14          | 89.4            | 1713       | 1774       | 1743       |
| 5     | 1                | 14          | 51.3            | 1926       | -          | -          |
| 6     | 2                | 14          | 75              | 1958       | 1194       | -          |
| 7     | 1                | 14          | 60.5            | 1631       | -          | -          |
| 8     | 3                | 14          | 87.5            | 1483       | 1825       | 1329       |
| 9     | 1                | 14          | 59.6            | 1495       | -          | -          |
| 10    | 2                | 14          | 82.2            | 1604       | 1421       | -          |
| 11    | 2                | 14          | 67.8            | 1139       | 1482       | -          |
| 12    | 1                | 14          | 51.5            | 1018       | -          | -          |
| 13    | 2                | 14          | 72.9            | 1135       | 1332       | -          |
| 14    | 3                | 14          | 96.5            | 1116       | 1291       | 1665       |
| 15    | 1                | 14          | 65.7            | 1256       | -          | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 11          | 68.4            | 1210       | 1254       | -          |
| 2     | 1                | 11          | 56.2            | 1106       | -          | -          |
| 3     | 2                | 11          | 68.7            | 1989       | 1167       | -          |
| 4     | 3                | 11          | 97.2            | 1963       | 1037       | 1860       |
| 5     | 3                | 11          | 87.1            | 1120       | 1335       | 1563       |
| 6     | 2                | 11          | 70.6            | 1298       | 1502       | -          |
| 7     | 2                | 11          | 68.7            | 1747       | 1446       | -          |
| 8     | 3                | 11          | 90              | 1315       | 1072       | 1226       |
| 9     | 2                | 11          | 79.4            | 1577       | 1311       | -          |
| 10    | 1                | 11          | 59.6            | 1176       | -          | -          |
| 11    | 3                | 11          | 84.9            | 1027       | 1727       | 1260       |
| 12    | 1                | 11          | 63.5            | 1605       | -          | -          |
| 13    | 1                | 11          | 52.3            | 1702       | -          | -          |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 72.9            | 1622       | 1104       | -          |
| 2     | 1                | 7           | 54.6            | 1609       | -          | -          |
| 3     | 1                | 7           | 51.9            | 1707       | -          | -          |
| 4     | 3                | 7           | 94.2            | 1173       | 1515       | 1688       |
| 5     | 1                | 7           | 52.5            | 1077       | -          | -          |
| 6     | 2                | 7           | 79.6            | 1054       | 1245       | -          |
| 7     | 3                | 7           | 93.5            | 1575       | 1141       | 1046       |
| 8     | 2                | 7           | 73.9            | 1718       | 1638       | -          |
| 9     | 3                | 7           | 87.7            | 1126       | 1462       | 1310       |
| 10    | 1                | 7           | 50.8            | 1154       | -          | -          |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 65.6            | 1074       | -          | -          |
| 2     | 1                | 12          | 63.2            | 1477       | -          | -          |
| 3     | 3                | 12          | 99.9            | 1053       | 1805       | 1657       |
| 4     | 3                | 12          | 85.8            | 1293       | 1680       | 1184       |
| 5     | 3                | 12          | 90              | 1200       | 1511       | 1127       |
| 6     | 2                | 12          | 76.1            | 1017       | 1133       | -          |
| 7     | 3                | 12          | 90.4            | 1043       | 1088       | 1362       |
| 8     | 1                | 12          | 65.4            | 1610       | -          | -          |
| 9     | 2                | 12          | 67.1            | 1824       | 1410       | -          |
| 10    | 1                | 12          | 55.3            | 1278       | -          | -          |
| 11    | 1                | 12          | 61.9            | 1403       | -          | -          |
| 12    | 3                | 12          | 96.1            | 1923       | 1216       | 1744       |
| 13    | 2                | 12          | 77.5            | 1558       | 1253       | -          |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 8           | 68.4            | 1190       | 1907       | -          |
| 2     | 3                | 8           | 99.7            | 1996       | 1806       | 1079       |
| 3     | 3                | 8           | 93              | 1777       | 1092       | 1337       |
| 4     | 2                | 8           | 75.3            | 1548       | 1583       | -          |
| 5     | 3                | 8           | 87.7            | 1715       | 1889       | 1470       |
| 6     | 1                | 8           | 60.2            | 1008       | -          | -          |
| 7     | 3                | 8           | 97.5            | 1658       | 1514       | 1748       |
| 8     | 2                | 8           | 79.7            | 1532       | 1793       | -          |
| 9     | 1                | 8           | 66.4            | 1014       | -          | -          |
| 10    | 1                | 8           | 61.4            | 1322       | -          | -          |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

## A.2 The Frequency Hopping Radar pattern

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |      |      |      |      |      |
|--------------------------------------------------|------|------|------|------|------|
| Frequency (MHz)                                  | 0    | 1    | 2    | 3    | 4    |
| 0                                                | 5385 | 5718 | 5545 | 5371 | 5537 |
| 5                                                | 5323 | 5519 | 5588 | 5621 | 5549 |
| 10                                               | 5327 | 5659 | 5489 | 5570 | 5584 |
| 15                                               | 5336 | 5311 | 5303 | 5647 | 5458 |
| 20                                               | 5612 | 5354 | 5716 | 5479 | 5348 |
| 25                                               | 5438 | 5337 | 5335 | 5574 | 5601 |
| 30                                               | 5265 | 5713 | 5577 | 5653 | 5715 |
| 35                                               | 5307 | 5432 | 5674 | 5562 | 5506 |
| 40                                               | 5306 | 5258 | 5345 | 5631 | 5632 |
| 45                                               | 5514 | 5320 | 5568 | 5696 | 5628 |
| 50                                               | 5602 | 5428 | 5708 | 5378 | 5349 |
| 55                                               | 5413 | 5273 | 5446 | 5333 | 5531 |
| 60                                               | 5264 | 5367 | 5534 | 5339 | 5332 |
| 65                                               | 5561 | 5580 | 5624 | 5251 | 5459 |
| 70                                               | 5563 | 5391 | 5402 | 5701 | 5259 |
| 75                                               | 5618 | 5573 | 5538 | 5271 | 5364 |
| 80                                               | 5328 | 5353 | 5252 | 5496 | 5670 |
| 85                                               | 5684 | 5305 | 5269 | 5463 | 5520 |
| 90                                               | 5597 | 5719 | 5325 | 5539 | 5639 |
| 95                                               | 5550 | 5678 | 5465 | 5552 | 5664 |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 |      |      |      |      |      |
|--------------------------------------------------|------|------|------|------|------|
| Frequency (MHz)                                  | 0    | 1    | 2    | 3    | 4    |
| 0                                                | 5543 | 5482 | 5481 | 5435 | 5282 |
| 5                                                | 5365 | 5541 | 5566 | 5309 | 5281 |
| 10                                               | 5636 | 5448 | 5530 | 5290 | 5605 |
| 15                                               | 5424 | 5438 | 5406 | 5692 | 5650 |
| 20                                               | 5620 | 5423 | 5279 | 5471 | 5321 |
| 25                                               | 5704 | 5664 | 5538 | 5678 | 5635 |
| 30                                               | 5307 | 5699 | 5534 | 5393 | 5489 |
| 35                                               | 5505 | 5474 | 5358 | 5695 | 5572 |
| 40                                               | 5428 | 5286 | 5396 | 5629 | 5346 |
| 45                                               | 5437 | 5626 | 5274 | 5418 | 5381 |
| 50                                               | 5604 | 5284 | 5467 | 5550 | 5357 |
| 55                                               | 5461 | 5400 | 5426 | 5253 | 5710 |
| 60                                               | 5399 | 5639 | 5484 | 5623 | 5350 |
| 65                                               | 5675 | 5398 | 5298 | 5283 | 5680 |
| 70                                               | 5720 | 5718 | 5422 | 5514 | 5705 |
| 75                                               | 5711 | 5708 | 5568 | 5277 | 5359 |
| 80                                               | 5272 | 5464 | 5651 | 5305 | 5580 |
| 85                                               | 5684 | 5312 | 5459 | 5715 | 5402 |
| 90                                               | 5337 | 5601 | 5370 | 5445 | 5649 |
| 95                                               | 5472 | 5654 | 5660 | 5672 | 5420 |



Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_03

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5323 | 5721 | 5417 | 5596 | 5599 |
| 5               | 5504 | 5466 | 5641 | 5472 | 5585 |
| 10              | 5567 | 5712 | 5571 | 5485 | 5626 |
| 15              | 5415 | 5565 | 5509 | 5262 | 5367 |
| 20              | 5628 | 5589 | 5695 | 5560 | 5294 |
| 25              | 5592 | 5613 | 5266 | 5404 | 5669 |
| 30              | 5446 | 5588 | 5491 | 5511 | 5325 |
| 35              | 5381 | 5629 | 5434 | 5609 | 5411 |
| 40              | 5608 | 5699 | 5636 | 5275 | 5658 |
| 45              | 5520 | 5587 | 5327 | 5683 | 5257 |
| 50              | 5305 | 5335 | 5556 | 5373 | 5679 |
| 55              | 5552 | 5616 | 5547 | 5584 | 5528 |
| 60              | 5389 | 5704 | 5471 | 5310 | 5569 |
| 65              | 5648 | 5624 | 5605 | 5553 | 5483 |
| 70              | 5467 | 5706 | 5649 | 5490 | 5664 |
| 75              | 5680 | 5542 | 5689 | 5488 | 5678 |
| 80              | 5533 | 5523 | 5677 | 5281 | 5651 |
| 85              | 5719 | 5543 | 5409 | 5330 | 5657 |
| 90              | 5405 | 5690 | 5436 | 5694 | 5715 |
| 95              | 5425 | 5526 | 5644 | 5575 | 5377 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_04

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5578 | 5582 | 5353 | 5282 | 5344 |
| 5               | 5546 | 5488 | 5716 | 5635 | 5317 |
| 10              | 5498 | 5501 | 5612 | 5583 | 5647 |
| 15              | 5503 | 5692 | 5515 | 5685 | 5559 |
| 20              | 5539 | 5658 | 5636 | 5552 | 5267 |
| 25              | 5480 | 5465 | 5469 | 5508 | 5703 |
| 30              | 5574 | 5448 | 5251 | 5415 | 5523 |
| 35              | 5277 | 5569 | 5522 | 5587 | 5620 |
| 40              | 5347 | 5691 | 5637 | 5401 | 5623 |
| 45              | 5638 | 5603 | 5645 | 5380 | 5570 |
| 50              | 5608 | 5481 | 5386 | 5671 | 5265 |
| 55              | 5686 | 5331 | 5366 | 5555 | 5657 |
| 60              | 5554 | 5271 | 5400 | 5611 | 5374 |
| 65              | 5573 | 5373 | 5340 | 5445 | 5286 |
| 70              | 5314 | 5346 | 5466 | 5649 | 5591 |
| 75              | 5588 | 5670 | 5590 | 5495 | 5674 |
| 80              | 5476 | 5561 | 5601 | 5517 | 5284 |
| 85              | 5333 | 5318 | 5479 | 5419 | 5257 |
| 90              | 5510 | 5542 | 5572 | 5678 | 5672 |
| 95              | 5375 | 5621 | 5410 | 5504 | 5500 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_05

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5358 | 5346 | 5289 | 5443 | 5661 |
| 5               | 5588 | 5413 | 5316 | 5701 | 5524 |
| 10              | 5332 | 5290 | 5653 | 5303 | 5668 |
| 15              | 5591 | 5722 | 5618 | 5255 | 5276 |
| 20              | 5547 | 5349 | 5674 | 5641 | 5715 |
| 25              | 5271 | 5414 | 5672 | 5612 | 5262 |
| 30              | 5530 | 5463 | 5405 | 5466 | 5567 |
| 35              | 5343 | 5416 | 5660 | 5318 | 5362 |
| 40              | 5534 | 5299 | 5575 | 5544 | 5620 |
| 45              | 5511 | 5686 | 5703 | 5433 | 5360 |
| 50              | 5484 | 5657 | 5437 | 5356 | 5494 |
| 55              | 5470 | 5453 | 5640 | 5521 | 5563 |
| 60              | 5526 | 5311 | 5719 | 5691 | 5707 |
| 65              | 5558 | 5522 | 5409 | 5647 | 5467 |
| 70              | 5708 | 5300 | 5347 | 5345 | 5582 |
| 75              | 5711 | 5256 | 5651 | 5420 | 5326 |
| 80              | 5570 | 5279 | 5671 | 5457 | 5403 |
| 85              | 5566 | 5696 | 5385 | 5335 | 5581 |
| 90              | 5675 | 5260 | 5324 | 5407 | 5361 |
| 95              | 5431 | 5274 | 5535 | 5440 | 5551 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_06

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5613 | 5585 | 5700 | 5604 | 5406 |
| 5               | 5630 | 5435 | 5391 | 5389 | 5353 |
| 10              | 5263 | 5554 | 5694 | 5498 | 5689 |
| 15              | 5679 | 5374 | 5721 | 5300 | 5468 |
| 20              | 5555 | 5418 | 5615 | 5633 | 5688 |
| 25              | 5634 | 5266 | 5303 | 5716 | 5296 |
| 30              | 5669 | 5352 | 5362 | 5681 | 5341 |
| 35              | 5541 | 5458 | 5276 | 5589 | 5515 |
| 40              | 5448 | 5500 | 5382 | 5513 | 5309 |
| 45              | 5714 | 5440 | 5598 | 5294 | 5664 |
| 50              | 5722 | 5358 | 5488 | 5445 | 5695 |
| 55              | 5414 | 5641 | 5594 | 5711 | 5497 |
| 60              | 5409 | 5636 | 5539 | 5360 | 5504 |
| 65              | 5398 | 5471 | 5510 | 5270 | 5305 |
| 70              | 5286 | 5449 | 5671 | 5321 | 5490 |
| 75              | 5356 | 5302 | 5632 | 5672 | 5339 |
| 80              | 5351 | 5443 | 5621 | 5668 | 5457 |
| 85              | 5342 | 5626 | 5413 | 5350 | 5289 |
| 90              | 5354 | 5425 | 5330 | 5441 | 5540 |
| 95              | 5291 | 5590 | 5575 | 5338 | 5530 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_07

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5296 | 5349 | 5636 | 5290 | 5723 |
| 5               | 5294 | 5457 | 5466 | 5552 | 5560 |
| 10              | 5669 | 5440 | 5260 | 5693 | 5710 |
| 15              | 5670 | 5501 | 5345 | 5660 | 5584 |
| 20              | 5556 | 5722 | 5661 | 5425 | 5593 |
| 25              | 5506 | 5330 | 5711 | 5338 | 5319 |
| 30              | 5324 | 5493 | 5361 | 5597 | 5367 |
| 35              | 5482 | 5668 | 5459 | 5339 | 5562 |
| 40              | 5451 | 5549 | 5272 | 5578 | 5377 |
| 45              | 5442 | 5512 | 5614 | 5534 | 5539 |
| 50              | 5518 | 5261 | 5354 | 5548 | 5426 |
| 55              | 5676 | 5371 | 5569 | 5574 | 5581 |
| 60              | 5283 | 5450 | 5599 | 5420 | 5384 |
| 65              | 5689 | 5402 | 5474 | 5369 | 5452 |
| 70              | 5423 | 5297 | 5500 | 5362 | 5476 |
| 75              | 5445 | 5613 | 5449 | 5607 | 5306 |
| 80              | 5568 | 5683 | 5360 | 5659 | 5589 |
| 85              | 5508 | 5340 | 5602 | 5590 | 5336 |
| 90              | 5378 | 5503 | 5649 | 5308 | 5645 |
| 95              | 5559 | 5412 | 5413 | 5563 | 5307 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_08

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5551 | 5588 | 5572 | 5451 | 5468 |
| 5               | 5336 | 5382 | 5541 | 5715 | 5292 |
| 10              | 5503 | 5704 | 5398 | 5413 | 5256 |
| 15              | 5283 | 5628 | 5452 | 5293 | 5377 |
| 20              | 5474 | 5653 | 5497 | 5714 | 5634 |
| 25              | 5313 | 5542 | 5709 | 5546 | 5364 |
| 30              | 5278 | 5702 | 5276 | 5539 | 5267 |
| 35              | 5656 | 5261 | 5458 | 5443 | 5373 |
| 40              | 5645 | 5314 | 5708 | 5676 | 5558 |
| 45              | 5460 | 5305 | 5495 | 5399 | 5490 |
| 50              | 5710 | 5590 | 5623 | 5341 | 5680 |
| 55              | 5502 | 5616 | 5342 | 5601 | 5264 |
| 60              | 5678 | 5584 | 5396 | 5422 | 5369 |
| 65              | 5420 | 5424 | 5672 | 5351 | 5355 |
| 70              | 5455 | 5272 | 5273 | 5459 | 5331 |
| 75              | 5499 | 5491 | 5594 | 5701 | 5559 |
| 80              | 5388 | 5674 | 5565 | 5403 | 5263 |
| 85              | 5501 | 5649 | 5700 | 5658 | 5294 |
| 90              | 5375 | 5416 | 5280 | 5412 | 5385 |
| 95              | 5661 | 5543 | 5609 | 5391 | 5615 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_09

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5331 | 5352 | 5508 | 5612 | 5310 |
| 5               | 5378 | 5404 | 5616 | 5403 | 5596 |
| 10              | 5434 | 5493 | 5439 | 5511 | 5277 |
| 15              | 5371 | 5658 | 5458 | 5338 | 5666 |
| 20              | 5482 | 5344 | 5535 | 5328 | 5704 |
| 25              | 5579 | 5394 | 5437 | 5650 | 5398 |
| 30              | 5417 | 5591 | 5708 | 5279 | 5419 |
| 35              | 5379 | 5303 | 5646 | 5549 | 5287 |
| 40              | 5589 | 5253 | 5705 | 5457 | 5441 |
| 45              | 5543 | 5266 | 5548 | 5664 | 5366 |
| 50              | 5411 | 5641 | 5334 | 5639 | 5527 |
| 55              | 5255 | 5456 | 5709 | 5692 | 5313 |
| 60              | 5429 | 5568 | 5607 | 5410 | 5623 |
| 65              | 5318 | 5359 | 5256 | 5564 | 5629 |
| 70              | 5715 | 5341 | 5555 | 5724 | 5321 |
| 75              | 5678 | 5619 | 5634 | 5575 | 5478 |
| 80              | 5572 | 5644 | 5363 | 5432 | 5562 |
| 85              | 5598 | 5263 | 5440 | 5526 | 5345 |
| 90              | 5711 | 5445 | 5349 | 5645 | 5295 |
| 95              | 5280 | 5624 | 5507 | 5273 | 5718 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_10

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5586 | 5591 | 5444 | 5676 | 5530 |
| 5               | 5420 | 5329 | 5691 | 5469 | 5328 |
| 10              | 5268 | 5282 | 5480 | 5706 | 5298 |
| 15              | 5459 | 5310 | 5561 | 5383 | 5393 |
| 20              | 5413 | 5476 | 5320 | 5677 | 5467 |
| 25              | 5343 | 5640 | 5279 | 5432 | 5577 |
| 30              | 5665 | 5494 | 5668 | 5674 | 5442 |
| 35              | 5262 | 5345 | 5274 | 5428 | 5433 |
| 40              | 5643 | 5697 | 5702 | 5437 | 5421 |
| 45              | 5626 | 5324 | 5601 | 5551 | 5620 |
| 50              | 5587 | 5692 | 5423 | 5365 | 5471 |
| 55              | 5346 | 5410 | 5424 | 5511 | 5284 |
| 60              | 5384 | 5594 | 5513 | 5439 | 5333 |
| 65              | 5385 | 5446 | 5267 | 5395 | 5466 |
| 70              | 5359 | 5335 | 5312 | 5327 | 5558 |
| 75              | 5445 | 5700 | 5280 | 5647 | 5264 |
| 80              | 5302 | 5653 | 5633 | 5682 | 5425 |
| 85              | 5527 | 5495 | 5559 | 5318 | 5641 |
| 90              | 5575 | 5512 | 5491 | 5299 | 5434 |
| 95              | 5610 | 5451 | 5404 | 5456 | 5608 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_11

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5269 | 5355 | 5380 | 5362 | 5372 |
| 5               | 5559 | 5351 | 5291 | 5632 | 5535 |
| 10              | 5674 | 5546 | 5521 | 5426 | 5319 |
| 15              | 5450 | 5437 | 5664 | 5331 | 5575 |
| 20              | 5401 | 5579 | 5417 | 5409 | 5650 |
| 25              | 5670 | 5271 | 5383 | 5466 | 5501 |
| 30              | 5622 | 5612 | 5345 | 5397 | 5581 |
| 35              | 5353 | 5713 | 5524 | 5687 | 5267 |
| 40              | 5516 | 5462 | 5321 | 5366 | 5709 |
| 45              | 5382 | 5654 | 5341 | 5496 | 5288 |
| 50              | 5268 | 5512 | 5663 | 5318 | 5534 |
| 55              | 5364 | 5614 | 5330 | 5633 | 5513 |
| 60              | 5284 | 5458 | 5634 | 5647 | 5691 |
| 65              | 5431 | 5298 | 5629 | 5613 | 5481 |
| 70              | 5410 | 5658 | 5294 | 5714 | 5616 |
| 75              | 5384 | 5348 | 5317 | 5681 | 5655 |
| 80              | 5556 | 5544 | 5599 | 5635 | 5704 |
| 85              | 5359 | 5350 | 5547 | 5254 | 5300 |
| 90              | 5457 | 5320 | 5312 | 5416 | 5473 |
| 95              | 5390 | 5592 | 5400 | 5609 | 5449 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_12

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5524 | 5594 | 5316 | 5523 | 5592 |
| 5               | 5601 | 5276 | 5366 | 5320 | 5267 |
| 10              | 5605 | 5432 | 5562 | 5621 | 5340 |
| 15              | 5538 | 5564 | 5292 | 5376 | 5409 |
| 20              | 5270 | 5455 | 5401 | 5623 | 5522 |
| 25              | 5474 | 5584 | 5500 | 5543 | 5355 |
| 30              | 5579 | 5352 | 5692 | 5720 | 5444 |
| 35              | 5509 | 5677 | 5581 | 5599 | 5519 |
| 40              | 5318 | 5673 | 5381 | 5317 | 5343 |
| 45              | 5610 | 5703 | 5372 | 5464 | 5319 |
| 50              | 5486 | 5262 | 5722 | 5329 | 5527 |
| 55              | 5604 | 5642 | 5449 | 5578 | 5460 |
| 60              | 5374 | 5470 | 5640 | 5370 | 5508 |
| 65              | 5521 | 5416 | 5553 | 5396 | 5661 |
| 70              | 5555 | 5488 | 5504 | 5491 | 5615 |
| 75              | 5662 | 5330 | 5462 | 5283 | 5718 |
| 80              | 5544 | 5598 | 5324 | 5304 | 5452 |
| 85              | 5465 | 5463 | 5354 | 5669 | 5525 |
| 90              | 5587 | 5445 | 5576 | 5298 | 5588 |
| 95              | 5552 | 5550 | 5466 | 5417 | 5566 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_13

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5304 | 5358 | 5252 | 5684 | 5434 |
| 5               | 5643 | 5298 | 5441 | 5483 | 5571 |
| 10              | 5439 | 5696 | 5603 | 5341 | 5361 |
| 15              | 5626 | 5691 | 5395 | 5421 | 5484 |
| 20              | 5320 | 5339 | 5396 | 5490 | 5596 |
| 25              | 5509 | 5471 | 5677 | 5688 | 5534 |
| 30              | 5682 | 5536 | 5567 | 5271 | 5415 |
| 35              | 5287 | 5535 | 5305 | 5355 | 5612 |
| 40              | 5420 | 5457 | 5370 | 5315 | 5602 |
| 45              | 5400 | 5401 | 5663 | 5493 | 5723 |
| 50              | 5543 | 5690 | 5309 | 5584 | 5435 |
| 55              | 5272 | 5519 | 5346 | 5575 | 5674 |
| 60              | 5614 | 5445 | 5410 | 5383 | 5671 |
| 65              | 5589 | 5406 | 5340 | 5316 | 5694 |
| 70              | 5625 | 5382 | 5286 | 5531 | 5632 |
| 75              | 5527 | 5537 | 5440 | 5718 | 5447 |
| 80              | 5306 | 5453 | 5525 | 5380 | 5658 |
| 85              | 5516 | 5667 | 5258 | 5568 | 5630 |
| 90              | 5566 | 5291 | 5551 | 5634 | 5604 |
| 95              | 5500 | 5657 | 5470 | 5655 | 5273 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_14

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5559 | 5597 | 5663 | 5370 | 5654 |
| 5               | 5685 | 5698 | 5516 | 5549 | 5303 |
| 10              | 5485 | 5644 | 5439 | 5382 | 5714 |
| 15              | 5721 | 5401 | 5466 | 5676 | 5328 |
| 20              | 5505 | 5337 | 5482 | 5569 | 5300 |
| 25              | 5323 | 5405 | 5317 | 5568 | 5724 |
| 30              | 5705 | 5493 | 5307 | 5520 | 5710 |
| 35              | 5426 | 5626 | 5673 | 5605 | 5526 |
| 40              | 5356 | 5387 | 5395 | 5610 | 5312 |
| 45              | 5434 | 5341 | 5483 | 5459 | 5716 |
| 50              | 5380 | 5502 | 5719 | 5421 | 5510 |
| 55              | 5528 | 5623 | 5701 | 5709 | 5640 |
| 60              | 5546 | 5304 | 5390 | 5339 | 5684 |
| 65              | 5266 | 5494 | 5538 | 5345 | 5550 |
| 70              | 5683 | 5497 | 5319 | 5368 | 5289 |
| 75              | 5694 | 5507 | 5591 | 5329 | 5647 |
| 80              | 5680 | 5577 | 5691 | 5453 | 5499 |
| 85              | 5611 | 5450 | 5720 | 5350 | 5621 |
| 90              | 5708 | 5632 | 5309 | 5470 | 5320 |
| 95              | 5572 | 5325 | 5336 | 5646 | 5555 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_15

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5339 | 5361 | 5599 | 5531 | 5496 |
| 5               | 5349 | 5720 | 5591 | 5712 | 5510 |
| 10              | 5301 | 5274 | 5685 | 5634 | 5403 |
| 15              | 5705 | 5373 | 5504 | 5414 | 5393 |
| 20              | 5336 | 5574 | 5375 | 5571 | 5542 |
| 25              | 5663 | 5272 | 5608 | 5421 | 5602 |
| 30              | 5291 | 5691 | 5450 | 5425 | 5672 |
| 35              | 5530 | 5565 | 5469 | 5283 | 5440 |
| 40              | 5670 | 5470 | 5333 | 5309 | 5363 |
| 45              | 5699 | 5566 | 5420 | 5294 | 5645 |
| 50              | 5378 | 5472 | 5490 | 5558 | 5424 |
| 55              | 5459 | 5457 | 5432 | 5646 | 5607 |
| 60              | 5687 | 5695 | 5487 | 5381 | 5382 |
| 65              | 5478 | 5678 | 5391 | 5451 | 5389 |
| 70              | 5543 | 5483 | 5550 | 5298 | 5292 |
| 75              | 5251 | 5371 | 5563 | 5280 | 5300 |
| 80              | 5529 | 5447 | 5350 | 5636 | 5681 |
| 85              | 5328 | 5500 | 5263 | 5589 | 5290 |
| 90              | 5485 | 5578 | 5359 | 5693 | 5638 |
| 95              | 5610 | 5625 | 5467 | 5331 | 5386 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_16

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5497 | 5600 | 5535 | 5692 | 5716 |
| 5               | 5391 | 5645 | 5666 | 5400 | 5339 |
| 10              | 5610 | 5538 | 5348 | 5354 | 5424 |
| 15              | 5318 | 5500 | 5607 | 5459 | 5585 |
| 20              | 5722 | 5265 | 5316 | 5563 | 5515 |
| 25              | 5454 | 5599 | 5714 | 5622 | 5539 |
| 30              | 5430 | 5580 | 5407 | 5640 | 5446 |
| 35              | 5253 | 5704 | 5436 | 5451 | 5509 |
| 40              | 5553 | 5649 | 5518 | 5403 | 5292 |
| 45              | 5679 | 5478 | 5347 | 5532 | 5254 |
| 50              | 5596 | 5523 | 5579 | 5631 | 5319 |
| 55              | 5427 | 5512 | 5517 | 5656 | 5586 |
| 60              | 5634 | 5377 | 5433 | 5255 | 5421 |
| 65              | 5417 | 5592 | 5273 | 5481 | 5560 |
| 70              | 5437 | 5392 | 5412 | 5394 | 5623 |
| 75              | 5673 | 5536 | 5367 | 5444 | 5635 |
| 80              | 5644 | 5520 | 5465 | 5314 | 5488 |
| 85              | 5650 | 5584 | 5296 | 5277 | 5665 |
| 90              | 5706 | 5462 | 5310 | 5489 | 5274 |
| 95              | 5315 | 5350 | 5694 | 5591 | 5344 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_17

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5277 | 5364 | 5471 | 5281 | 5558 |
| 5               | 5433 | 5667 | 5266 | 5563 | 5546 |
| 10              | 5541 | 5424 | 5389 | 5549 | 5445 |
| 15              | 5406 | 5627 | 5710 | 5504 | 5399 |
| 20              | 5255 | 5334 | 5257 | 5652 | 5488 |
| 25              | 5342 | 5548 | 5442 | 5251 | 5573 |
| 30              | 5472 | 5469 | 5380 | 5598 | 5271 |
| 35              | 5521 | 5536 | 5589 | 5365 | 5348 |
| 40              | 5258 | 5587 | 5283 | 5400 | 5599 |
| 45              | 5659 | 5322 | 5508 | 5297 | 5574 |
| 50              | 5668 | 5454 | 5641 | 5615 | 5466 |
| 55              | 5707 | 5475 | 5362 | 5715 | 5324 |
| 60              | 5310 | 5259 | 5676 | 5719 | 5385 |
| 65              | 5356 | 5640 | 5284 | 5632 | 5423 |
| 70              | 5395 | 5619 | 5338 | 5468 | 5614 |
| 75              | 5435 | 5537 | 5520 | 5686 | 5317 |
| 80              | 5531 | 5655 | 5441 | 5452 | 5631 |
| 85              | 5417 | 5704 | 5333 | 5268 | 5513 |
| 90              | 5340 | 5590 | 5330 | 5360 | 5401 |
| 95              | 5294 | 5720 | 5690 | 5289 | 5592 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_18

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5532 | 5603 | 5407 | 5442 | 5303 |
| 5               | 5572 | 5592 | 5341 | 5629 | 5278 |
| 10              | 5472 | 5688 | 5430 | 5269 | 5466 |
| 15              | 5494 | 5279 | 5338 | 5549 | 5591 |
| 20              | 5263 | 5500 | 5295 | 5644 | 5461 |
| 25              | 5705 | 5400 | 5645 | 5355 | 5607 |
| 30              | 5514 | 5455 | 5321 | 5595 | 5372 |
| 35              | 5271 | 5410 | 5612 | 5429 | 5364 |
| 40              | 5284 | 5525 | 5523 | 5397 | 5528 |
| 45              | 5639 | 5340 | 5594 | 5356 | 5684 |
| 50              | 5384 | 5473 | 5625 | 5379 | 5655 |
| 55              | 5585 | 5328 | 5420 | 5422 | 5294 |
| 60              | 5333 | 5369 | 5489 | 5267 | 5714 |
| 65              | 5657 | 5622 | 5445 | 5334 | 5392 |
| 70              | 5634 | 5435 | 5562 | 5326 | 5409 |
| 75              | 5495 | 5468 | 5314 | 5427 | 5486 |
| 80              | 5555 | 5583 | 5501 | 5652 | 5573 |
| 85              | 5695 | 5647 | 5631 | 5259 | 5667 |
| 90              | 5332 | 5676 | 5319 | 5286 | 5506 |
| 95              | 5505 | 5693 | 5717 | 5510 | 5311 |



Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_19

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5312 | 5464 | 5343 | 5603 | 5620 |
| 5               | 5614 | 5416 | 5317 | 5582 | 5306 |
| 10              | 5477 | 5471 | 5367 | 5487 | 5485 |
| 15              | 5309 | 5344 | 5497 | 5308 | 5649 |
| 20              | 5569 | 5711 | 5258 | 5434 | 5496 |
| 25              | 5252 | 5373 | 5459 | 5641 | 5653 |
| 30              | 5278 | 5713 | 5524 | 5566 | 5549 |
| 35              | 5703 | 5700 | 5517 | 5290 | 5598 |
| 40              | 5424 | 5463 | 5288 | 5394 | 5360 |
| 45              | 5619 | 5423 | 5555 | 5409 | 5474 |
| 50              | 5260 | 5676 | 5468 | 5478 | 5432 |
| 55              | 5516 | 5374 | 5612 | 5491 | 5682 |
| 60              | 5401 | 5276 | 5546 | 5483 | 5665 |
| 65              | 5268 | 5283 | 5428 | 5466 | 5327 |
| 70              | 5365 | 5398 | 5492 | 5498 | 5386 |
| 75              | 5455 | 5675 | 5251 | 5579 | 5429 |
| 80              | 5431 | 5354 | 5384 | 5403 | 5338 |
| 85              | 5534 | 5576 | 5273 | 5704 | 5670 |
| 90              | 5699 | 5301 | 5502 | 5522 | 5328 |
| 95              | 5355 | 5280 | 5631 | 5625 | 5323 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_20

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5470 | 5703 | 5279 | 5289 | 5365 |
| 5               | 5656 | 5539 | 5491 | 5480 | 5314 |
| 10              | 5712 | 5266 | 5512 | 5562 | 5508 |
| 15              | 5573 | 5436 | 5447 | 5542 | 5500 |
| 20              | 5657 | 5260 | 5652 | 5250 | 5407 |
| 25              | 5384 | 5676 | 5576 | 5660 | 5675 |
| 30              | 5695 | 5708 | 5710 | 5453 | 5298 |
| 35              | 5591 | 5416 | 5496 | 5670 | 5679 |
| 40              | 5437 | 5507 | 5401 | 5431 | 5391 |
| 45              | 5599 | 5506 | 5613 | 5462 | 5361 |
| 50              | 5611 | 5350 | 5252 | 5557 | 5301 |
| 55              | 5376 | 5704 | 5328 | 5327 | 5310 |
| 60              | 5653 | 5530 | 5441 | 5254 | 5378 |
| 65              | 5309 | 5469 | 5707 | 5367 | 5597 |
| 70              | 5546 | 5567 | 5478 | 5598 | 5641 |
| 75              | 5345 | 5424 | 5320 | 5297 | 5560 |
| 80              | 5681 | 5444 | 5610 | 5451 | 5466 |
| 85              | 5335 | 5515 | 5690 | 5619 | 5509 |
| 90              | 5324 | 5307 | 5524 | 5360 | 5705 |
| 95              | 5713 | 5631 | 5410 | 5264 | 5529 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_21

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5250 | 5467 | 5690 | 5450 | 5682 |
| 5               | 5698 | 5561 | 5566 | 5643 | 5521 |
| 10              | 5546 | 5530 | 5553 | 5282 | 5529 |
| 15              | 5661 | 5563 | 5550 | 5587 | 5692 |
| 20              | 5665 | 5329 | 5593 | 5339 | 5380 |
| 25              | 5650 | 5528 | 5289 | 5709 | 5262 |
| 30              | 5694 | 5667 | 5668 | 5584 | 5255 |
| 35              | 5507 | 5389 | 5445 | 5276 | 5687 |
| 40              | 5671 | 5485 | 5693 | 5579 | 5589 |
| 45              | 5515 | 5626 | 5390 | 5526 | 5303 |
| 50              | 5646 | 5599 | 5417 | 5517 | 5604 |
| 55              | 5624 | 5659 | 5606 | 5674 | 5685 |
| 60              | 5707 | 5557 | 5292 | 5656 | 5403 |
| 65              | 5508 | 5392 | 5349 | 5639 | 5464 |
| 70              | 5601 | 5393 | 5717 | 5304 | 5296 |
| 75              | 5440 | 5541 | 5361 | 5554 | 5391 |
| 80              | 5615 | 5332 | 5437 | 5357 | 5275 |
| 85              | 5336 | 5474 | 5278 | 5555 | 5722 |
| 90              | 5525 | 5711 | 5272 | 5644 | 5265 |
| 95              | 5459 | 5465 | 5723 | 5427 | 5486 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_22

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5505 | 5706 | 5626 | 5611 | 5427 |
| 5               | 5362 | 5486 | 5641 | 5709 | 5350 |
| 10              | 5477 | 5416 | 5594 | 5550 | 5274 |
| 15              | 5690 | 5653 | 5535 | 5409 | 5576 |
| 20              | 5495 | 5631 | 5331 | 5353 | 5538 |
| 25              | 5410 | 5393 | 5268 | 5401 | 5583 |
| 30              | 5624 | 5408 | 5699 | 5404 | 5394 |
| 35              | 5598 | 5660 | 5604 | 5590 | 5295 |
| 40              | 5277 | 5436 | 5482 | 5525 | 5462 |
| 45              | 5672 | 5632 | 5568 | 5513 | 5266 |
| 50              | 5702 | 5354 | 5357 | 5325 | 5642 |
| 55              | 5605 | 5711 | 5707 | 5423 | 5595 |
| 60              | 5313 | 5296 | 5619 | 5517 | 5533 |
| 65              | 5503 | 5493 | 5342 | 5718 | 5284 |
| 70              | 5627 | 5547 | 5701 | 5717 | 5693 |
| 75              | 5263 | 5265 | 5463 | 5522 | 5613 |
| 80              | 5664 | 5647 | 5304 | 5689 | 5329 |
| 85              | 5574 | 5340 | 5713 | 5431 | 5328 |
| 90              | 5542 | 5339 | 5684 | 5526 | 5476 |
| 95              | 5520 | 5422 | 5368 | 5446 | 5650 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_23

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5285 | 5470 | 5562 | 5297 | 5269 |
| 5               | 5404 | 5508 | 5716 | 5397 | 5557 |
| 10              | 5408 | 5680 | 5635 | 5672 | 5571 |
| 15              | 5265 | 5342 | 5281 | 5580 | 5601 |
| 20              | 5584 | 5661 | 5572 | 5420 | 5326 |
| 25              | 5329 | 5613 | 5497 | 5302 | 5443 |
| 30              | 5569 | 5581 | 5526 | 5376 | 5602 |
| 35              | 5533 | 5689 | 5456 | 5276 | 5518 |
| 40              | 5378 | 5690 | 5579 | 5479 | 5454 |
| 45              | 5442 | 5280 | 5621 | 5303 | 5617 |
| 50              | 5403 | 5405 | 5446 | 5623 | 5489 |
| 55              | 5696 | 5665 | 5325 | 5620 | 5469 |
| 60              | 5461 | 5546 | 5694 | 5554 | 5550 |
| 65              | 5430 | 5704 | 5566 | 5697 | 5612 |
| 70              | 5583 | 5629 | 5503 | 5390 | 5677 |
| 75              | 5428 | 5468 | 5277 | 5294 | 5718 |
| 80              | 5298 | 5307 | 5283 | 5380 | 5345 |
| 85              | 5386 | 5493 | 5575 | 5313 | 5320 |
| 90              | 5347 | 5638 | 5266 | 5270 | 5471 |
| 95              | 5693 | 5535 | 5384 | 5662 | 5664 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_24

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5540 | 5709 | 5498 | 5458 | 5489 |
| 5               | 5446 | 5433 | 5316 | 5560 | 5289 |
| 10              | 5717 | 5469 | 5298 | 5295 | 5592 |
| 15              | 5353 | 5372 | 5287 | 5625 | 5318 |
| 20              | 5255 | 5513 | 5412 | 5299 | 5692 |
| 25              | 5656 | 5341 | 5698 | 5336 | 5485 |
| 30              | 5538 | 5266 | 5422 | 5575 | 5305 |
| 35              | 5252 | 5526 | 5432 | 5365 | 5461 |
| 40              | 5531 | 5344 | 5476 | 5286 | 5363 |
| 45              | 5273 | 5577 | 5665 | 5493 | 5579 |
| 50              | 5456 | 5535 | 5409 | 5619 | 5515 |
| 55              | 5439 | 5440 | 5474 | 5626 | 5606 |
| 60              | 5278 | 5282 | 5492 | 5517 | 5503 |
| 65              | 5414 | 5285 | 5708 | 5477 | 5519 |
| 70              | 5329 | 5415 | 5548 | 5581 | 5703 |
| 75              | 5675 | 5484 | 5642 | 5312 | 5684 |
| 80              | 5340 | 5701 | 5718 | 5455 | 5261 |
| 85              | 5650 | 5334 | 5545 | 5351 | 5655 |
| 90              | 5668 | 5495 | 5510 | 5630 | 5297 |
| 95              | 5693 | 5704 | 5464 | 5268 | 5683 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_25

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5698 | 5473 | 5531 | 5522 | 5331 |
| 5               | 5488 | 5455 | 5391 | 5723 | 5593 |
| 10              | 5648 | 5258 | 5339 | 5490 | 5613 |
| 15              | 5441 | 5499 | 5390 | 5670 | 5607 |
| 20              | 5503 | 5421 | 5551 | 5501 | 5272 |
| 25              | 5580 | 5605 | 5544 | 5327 | 5370 |
| 30              | 5527 | 5347 | 5495 | 5481 | 5302 |
| 35              | 5620 | 5714 | 5493 | 5679 | 5443 |
| 40              | 5641 | 5469 | 5584 | 5690 | 5402 |
| 45              | 5446 | 5709 | 5630 | 5280 | 5507 |
| 50              | 5624 | 5269 | 5597 | 5573 | 5705 |
| 55              | 5411 | 5603 | 5316 | 5585 | 5583 |
| 60              | 5438 | 5718 | 5549 | 5353 | 5592 |
| 65              | 5716 | 5511 | 5646 | 5505 | 5332 |
| 70              | 5264 | 5524 | 5615 | 5453 | 5348 |
| 75              | 5343 | 5465 | 5419 | 5325 | 5699 |
| 80              | 5500 | 5684 | 5621 | 5394 | 5435 |
| 85              | 5288 | 5283 | 5710 | 5357 | 5689 |
| 90              | 5550 | 5685 | 5378 | 5591 | 5683 |
| 95              | 5369 | 5662 | 5363 | 5420 | 5502 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_26

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5478 | 5712 | 5467 | 5683 | 5551 |
| 5               | 5627 | 5380 | 5466 | 5411 | 5325 |
| 10              | 5579 | 5522 | 5685 | 5634 | 5529 |
| 15              | 5626 | 5493 | 5618 | 5324 | 5511 |
| 20              | 5490 | 5492 | 5720 | 5371 | 5457 |
| 25              | 5650 | 5431 | 5404 | 5666 | 5333 |
| 30              | 5452 | 5696 | 5440 | 5378 | 5584 |
| 35              | 5416 | 5357 | 5518 | 5724 | 5407 |
| 40              | 5349 | 5567 | 5619 | 5382 | 5292 |
| 45              | 5342 | 5623 | 5456 | 5558 | 5713 |
| 50              | 5470 | 5699 | 5310 | 5527 | 5420 |
| 55              | 5455 | 5257 | 5481 | 5496 | 5417 |
| 60              | 5506 | 5541 | 5498 | 5389 | 5327 |
| 65              | 5692 | 5718 | 5588 | 5335 | 5491 |
| 70              | 5500 | 5574 | 5422 | 5486 | 5446 |
| 75              | 5435 | 5721 | 5388 | 5563 | 5695 |
| 80              | 5501 | 5524 | 5711 | 5284 | 5483 |
| 85              | 5717 | 5273 | 5578 | 5400 | 5363 |
| 90              | 5723 | 5616 | 5641 | 5265 | 5362 |
| 95              | 5489 | 5565 | 5472 | 5482 | 5458 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_27

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5258 | 5476 | 5403 | 5369 | 5393 |
| 5               | 5669 | 5402 | 5541 | 5477 | 5532 |
| 10              | 5413 | 5408 | 5421 | 5405 | 5655 |
| 15              | 5520 | 5278 | 5596 | 5663 | 5516 |
| 20              | 5519 | 5656 | 5433 | 5582 | 5693 |
| 25              | 5259 | 5406 | 5378 | 5535 | 5438 |
| 30              | 5708 | 5697 | 5409 | 5339 | 5703 |
| 35              | 5638 | 5420 | 5675 | 5687 | 5607 |
| 40              | 5271 | 5454 | 5332 | 5345 | 5492 |
| 45              | 5564 | 5451 | 5362 | 5709 | 5350 |
| 50              | 5261 | 5499 | 5632 | 5609 | 5424 |
| 55              | 5293 | 5546 | 5498 | 5384 | 5610 |
| 60              | 5274 | 5256 | 5386 | 5646 | 5538 |
| 65              | 5724 | 5427 | 5267 | 5447 | 5328 |
| 70              | 5634 | 5495 | 5412 | 5574 | 5435 |
| 75              | 5340 | 5533 | 5294 | 5491 | 5351 |
| 80              | 5545 | 5502 | 5552 | 5626 | 5692 |
| 85              | 5696 | 5524 | 5553 | 5722 | 5344 |
| 90              | 5448 | 5521 | 5301 | 5565 | 5466 |
| 95              | 5660 | 5250 | 5658 | 5320 | 5346 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_28

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5513 | 5715 | 5339 | 5530 | 5613 |
| 5               | 5711 | 5327 | 5616 | 5640 | 5264 |
| 10              | 5344 | 5672 | 5462 | 5600 | 5676 |
| 15              | 5608 | 5405 | 5699 | 5708 | 5430 |
| 20              | 5250 | 5471 | 5574 | 5666 | 5525 |
| 25              | 5258 | 5581 | 5639 | 5472 | 5275 |
| 30              | 5586 | 5366 | 5554 | 5477 | 5458 |
| 35              | 5559 | 5291 | 5580 | 5285 | 5282 |
| 40              | 5293 | 5512 | 5283 | 5257 | 5561 |
| 45              | 5380 | 5720 | 5317 | 5311 | 5314 |
| 50              | 5494 | 5278 | 5333 | 5660 | 5591 |
| 55              | 5490 | 5686 | 5338 | 5325 | 5568 |
| 60              | 5702 | 5515 | 5336 | 5483 | 5653 |
| 65              | 5633 | 5373 | 5565 | 5396 | 5364 |
| 70              | 5369 | 5673 | 5298 | 5484 | 5560 |
| 75              | 5438 | 5664 | 5355 | 5492 | 5263 |
| 80              | 5611 | 5675 | 5505 | 5603 | 5558 |
| 85              | 5619 | 5689 | 5592 | 5416 | 5427 |
| 90              | 5307 | 5439 | 5316 | 5722 | 5294 |
| 95              | 5596 | 5255 | 5694 | 5262 | 5375 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_29

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5671 | 5479 | 5275 | 5691 | 5455 |
| 5               | 5278 | 5349 | 5328 | 5568 | 5461 |
| 10              | 5503 | 5698 | 5697 | 5696 | 5435 |
| 15              | 5705 | 5425 | 5438 | 5416 | 5412 |
| 20              | 5663 | 5639 | 5413 | 5585 | 5309 |
| 25              | 5365 | 5506 | 5414 | 5572 | 5323 |
| 30              | 5294 | 5629 | 5382 | 5376 | 5607 |
| 35              | 5595 | 5497 | 5558 | 5687 | 5700 |
| 40              | 5400 | 5369 | 5367 | 5284 | 5509 |
| 45              | 5711 | 5602 | 5337 | 5302 | 5292 |
| 50              | 5515 | 5387 | 5673 | 5644 | 5501 |
| 55              | 5428 | 5485 | 5556 | 5319 | 5291 |
| 60              | 5345 | 5676 | 5565 | 5576 | 5653 |
| 65              | 5546 | 5538 | 5513 | 5331 | 5451 |
| 70              | 5707 | 5256 | 5721 | 5486 | 5380 |
| 75              | 5668 | 5539 | 5308 | 5374 | 5589 |
| 80              | 5611 | 5330 | 5334 | 5270 | 5631 |
| 85              | 5281 | 5298 | 5542 | 5420 | 5478 |
| 90              | 5359 | 5371 | 5692 | 5430 | 5411 |
| 95              | 5280 | 5405 | 5306 | 5601 | 5646 |

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_30

| Frequency (MHz) | 0    | 1    | 2    | 3    | 4    |
|-----------------|------|------|------|------|------|
| 0               | 5451 | 5718 | 5686 | 5377 | 5675 |
| 5               | 5417 | 5274 | 5291 | 5491 | 5300 |
| 10              | 5584 | 5250 | 5544 | 5418 | 5309 |
| 15              | 5562 | 5333 | 5701 | 5617 | 5446 |
| 20              | 5485 | 5353 | 5655 | 5612 | 5679 |
| 25              | 5534 | 5512 | 5469 | 5540 | 5456 |
| 30              | 5461 | 5280 | 5509 | 5403 | 5476 |
| 35              | 5362 | 5473 | 5647 | 5688 | 5585 |
| 40              | 5678 | 5634 | 5262 | 5555 | 5616 |
| 45              | 5680 | 5483 | 5427 | 5323 | 5646 |
| 50              | 5505 | 5685 | 5287 | 5691 | 5615 |
| 55              | 5281 | 5490 | 5721 | 5608 | 5644 |
| 60              | 5676 | 5666 | 5470 | 5317 | 5382 |
| 65              | 5492 | 5294 | 5339 | 5411 | 5360 |
| 70              | 5379 | 5629 | 5541 | 5265 | 5307 |
| 75              | 5410 | 5579 | 5376 | 5389 | 5467 |
| 80              | 5632 | 5303 | 5320 | 5472 | 5437 |
| 85              | 5586 | 5331 | 5330 | 5273 | 5251 |
| 90              | 5624 | 5252 | 5315 | 5517 | 5484 |
| 95              | 5665 | 5716 | 5383 | 5395 | 5653 |

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