

## DFS Test Report

**Report No.:** RF150826C05L-1

**FCC ID:** PY315100319

**Test Model:** R7800

**Received Date:** Apr. 24, 2019

**Test Date:** May 30, 2019

**Issued Date:** May 31, 2019

**Applicant:** NETGEAR, INC.

**Address:** 1033 McCarthy Blvd., Milpitas, CA 95035, USA

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration /** 788550 / TW0003  
**Designation Number:**



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### Release Control Record

| Issue No.      | Description      | Date Issued  |
|----------------|------------------|--------------|
| RF150826C05L-1 | Original release | May 31, 2019 |

## 1 Certificate of Conformity

**Product:** Nighthawk X4S AC2600 Smart WiFi Router

**Brand:** NETGEAR

**Test Model:** R7800

**Sample Status:** Engineering sample

**Applicant:** NETGEAR, INC.

**Test Date:** May 30, 2019

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

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

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 RF characteristics under the conditions specified in this report.

**Prepared by :**

  
Polly Chien / Specialist

**Date:**

May 31, 2019

**Approved by :**

  
Bruce Chen / Project Engineer

**Date:**

May 31, 2019

## 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 |
|------------------|---------------------------|
|                  | 5470~5725MHz              |
| Master           | ✓                         |
| Slave            | ✓                         |

### 2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

| No. | Product                                | Test Model No. | Software/Firmware Version |
|-----|----------------------------------------|----------------|---------------------------|
| 1   | Nighthawk X4S AC2600 Smart WiFi Router | R7800          | V1.0.1.30-csu4-20190515   |

Note: This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to BV CPS report no. RF150826C05A-1. The difference compared with the original report is adding Ch144, Ch142 and Ch138 test data for 5.650GHz to 5.725GHz. Therefore, test items for Ch144, Ch142 and Ch138 had been tested in this report. Please refer to the original report for other test data.

### 2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

| Ant. Type | Connector Type | Antenna Gain (dBi) |          |          |
|-----------|----------------|--------------------|----------|----------|
|           |                | 5690 MHz           | 5710 MHz | 5720 MHz |
| Dipole    | RSMA           | 1.51               | 1.61     | 1.51     |

For directional gain:

5690MHz: Directional gain = 1.51dBi + 10log(4) = 7.53dBi

5710MHz: Directional gain = 1.61dBi + 10log(4) = 7.63dBi

5720MHz: Directional gain = 1.51dBi + 10log(4) = 7.53dBi

## 2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

### CDD Mode

#### 802.11a

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 19.82              | 95.933            |

#### 802.11n HT20

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 20.30              | 107.233           |

#### 802.11n HT40

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 22.32              | 170.631           |

#### 802.11ac VHT80

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 21.95              | 156.699           |

## Beamforming Mode

### 802.11n HT20

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 20.30              | 107.233           |

### 802.11n HT40

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 22.32              | 170.631           |

### 802.11ac VHT80

| Frequency Band<br>(MHz) | Max. Power         |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 21.95              | 156.699           |

## 2.5 EUT Maximum E.I.R.P. Power

Table 5: The EIRP Output Power List

### CDD Mode

#### 802.11a

| Frequency Band<br>(MHz) | Max. EIRP Power    |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 21.33              | 135.831           |

#### 802.11n HT20

| Frequency Band<br>(MHz) | Max. EIRP Power    |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 21.81              | 151.705           |

#### 802.11n HT40

| Frequency Band<br>(MHz) | Max. EIRP Power    |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 23.83              | 241.546           |

#### 802.11ac VHT80

| Frequency Band<br>(MHz) | Max. EIRP Power    |                   |
|-------------------------|--------------------|-------------------|
|                         | Output Power (dBm) | Output Power (mW) |
| 5470~5725               | 23.46              | 221.820           |



## Beamforming Mode

### 802.11n HT20

| Frequency Band (MHz) | Max. EIRP Power    |                   |
|----------------------|--------------------|-------------------|
|                      | Output Power (dBm) | Output Power (mW) |
| 5470~5725            | 27.83              | 606.736           |

### 802.11n HT40

| Frequency Band (MHz) | Max. EIRP Power    |                   |
|----------------------|--------------------|-------------------|
|                      | Output Power (dBm) | Output Power (mW) |
| 5470~5725            | 29.95              | 988.553           |

### 802.11ac VHT80

| Frequency Band (MHz) | Max. EIRP Power    |                   |
|----------------------|--------------------|-------------------|
|                      | Output Power (dBm) | Output Power (mW) |
| 5470~5725            | 29.48              | 887.156           |

## 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.

Maximum EIRP of this device is **988.553mW** which greater than 500mW, therefore it's require TPC function.

The UUT can adjust a transmitter's output power based on the signal level present at the receiver. TPC is auto controlled by software

| TPC | E.I.R.P | FCC 15.407(h)(1)                                                            |
|-----|---------|-----------------------------------------------------------------------------|
| √   | > 500mW | The TPC mechanism is required for system with an E.I.R.P. of above 500mW    |
|     | < 500mW | The TPC mechanism is not required for system with an E.I.R.P. of less 500mW |

## 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: Per KDB 905462 D03 UNII Clients 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<br>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<br>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                  | <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> | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 60%                                        | 30                       |
| 2                           | 1-5                | 150-230                                                                                                                                                                                                                                                                              | 23-29                                                                                                                                | 60%                                        | 30                       |
| 3                           | 6-10               | 200-500                                                                                                                                                                                                                                                                              | 16-18                                                                                                                                | 60%                                        | 30                       |
| 4                           | 11-20              | 200-500                                                                                                                                                                                                                                                                              | 12-16                                                                                                                                | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                                                                                                                                                      |                                                                                                                                      | 80%                                        | 120                      |

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.    | Brand           | Date Of Calibration | Due Date Of Calibration |
|----------------------------|--------------|-----------------|---------------------|-------------------------|
| Spectrum analyzer          | ESR          | R&S             | Mar. 06, 2019       | Mar. 05, 2020           |
| Signal generator           | MXG          | KEYSIGHT        | Dec. 24, 2018       | Dec. 23, 2019           |
| Horn antenna               | BBHA 9120 D  | Schwarzbeck     | Nov. 25, 2018       | Nov. 24, 2019           |
| RF coaxial cable           | SUCOFLEX 104 | HUBER<br>SUHNER | Aug. 23, 2018       | Aug. 22, 2019           |

### 4.2 Description of Support Units

Table 14: Support Unit Information.

| No. | Product | Brand   | Model No. | FCC ID      |
|-----|---------|---------|-----------|-------------|
| 1   | iPhone  | APPLE   | A1897     | BCG-E3174A  |
| 2   | Router  | NETGEAR | R7800     | PY315100319 |

Note:

1. This device No.1 was functioned as a ☐Master ☒Slave device during the DFS test.
2. This device No.2 was functioned as a ☒Master ☐Slave device during the DFS test.
- 3.

Table 15: Software/Firmware Information.

| No. | Product | Brand | Model No. | Software/Firmware Version |
|-----|---------|-------|-----------|---------------------------|
| 1   | iPhone  | APPLE | A1897     | 1.03.06                   |
| 2   | Router  | R7800 | R7800     | V1.0.2.36                 |

Note:

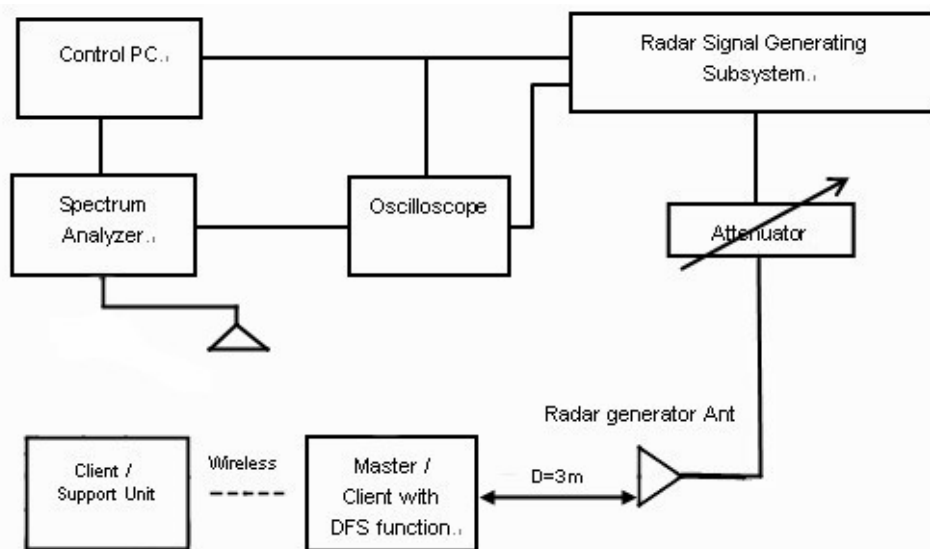
1. This device No.1 was functioned as a ☐Master ☒Slave device during the DFS test.
2. This device No.2 was functioned as a ☒Master ☐Slave device during the DFS test.

## 5 Test Procedure

### 5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. 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



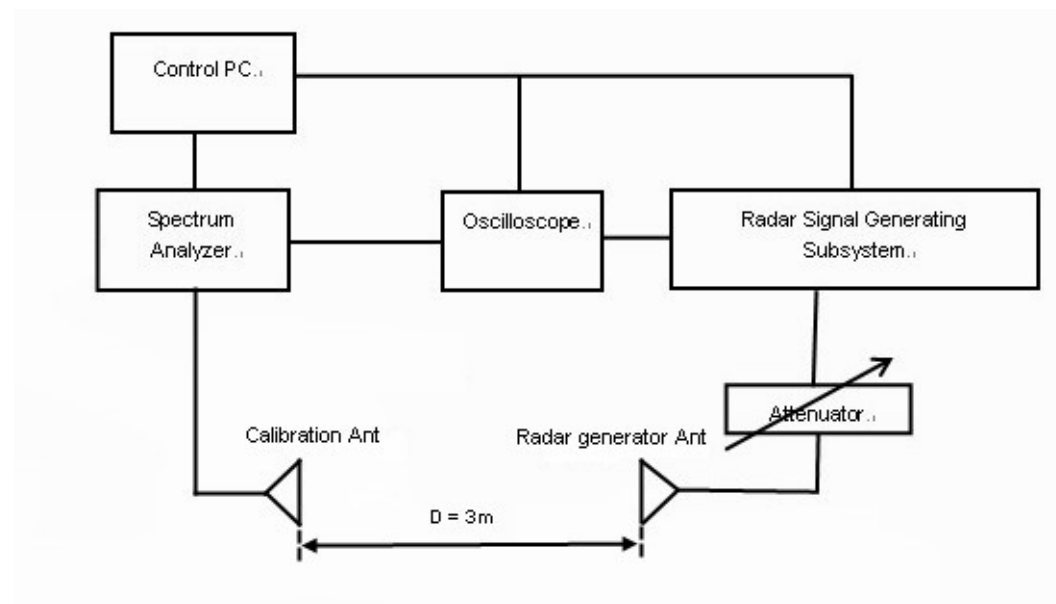
System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

|   |                                                                                                                                                                            |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | 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.                                                                 |
| V | 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 5690MHz, 5710MHz and 5720 MHz. 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. The calibrated detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

### Radiated Setup Configuration of Calibration of DFS Detection Threshold Level



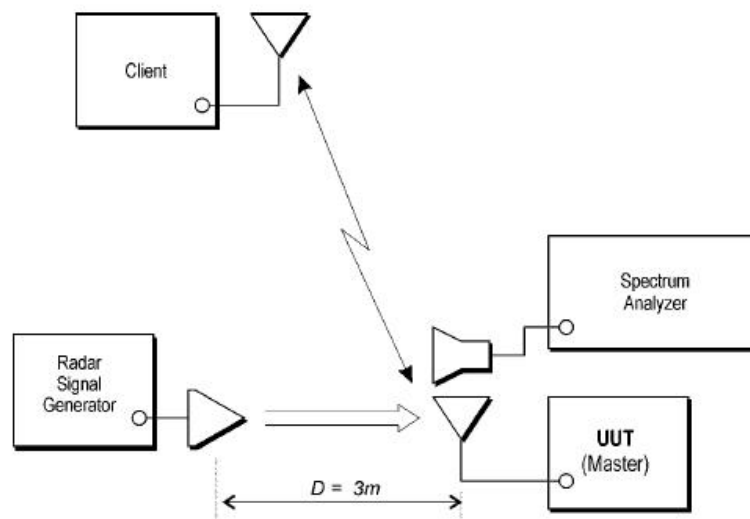
## 5.3 Deviation from Test Standard

No deviation.



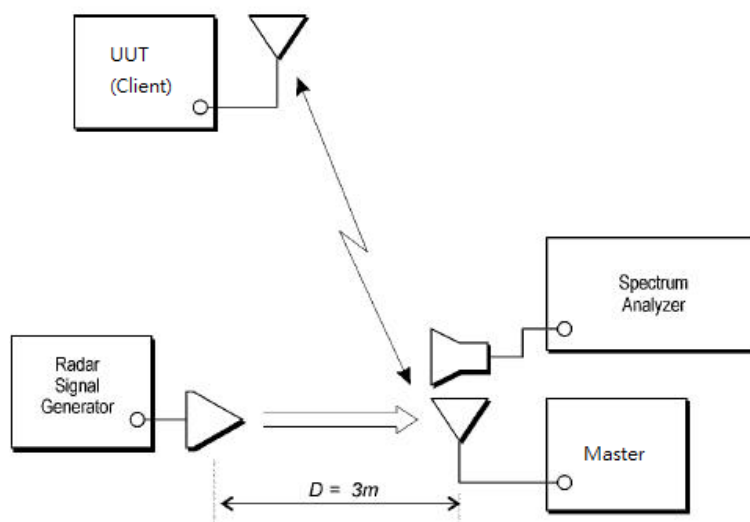
## 5.4 Radiated Test Setup Configuration

### 5.4.1 Master Mode



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

### 5.4.2 Client Mode



## 6 Test Results

### 6.1 Summary of Test Results for Master mode

| Clause | Test Parameter                    | Remarks    | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable | Pass      |
| 15.407 | U-NII Detection Bandwidth         | 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 | Uniform Spreading                 | Applicable | Pass      |

### 6.2 Summary of Test Results for Slave mode

| Clause | Test Parameter                    | Remarks        | Pass/Fail |
|--------|-----------------------------------|----------------|-----------|
| 15.407 | DFS Detection Threshold           | Not Applicable | NA        |
| 15.407 | Channel Availability Check Time   | Not Applicable | NA        |
| 15.407 | Channel Move Time                 | Applicable     | Pass      |
| 15.407 | Channel Closing Transmission Time | Applicable     | Pass      |
| 15.407 | Non- Occupancy Period             | Applicable     | Pass      |
| 15.407 | Uniform Spreading                 | Not Applicable | NA        |
| 15.407 | U-NII Detection Bandwidth         | Not Applicable | NA        |
| 15.407 | Non-associated test               | Applicable     | Pass      |
| 15.407 | Non-Co-Channel test               | Applicable     | Pass      |

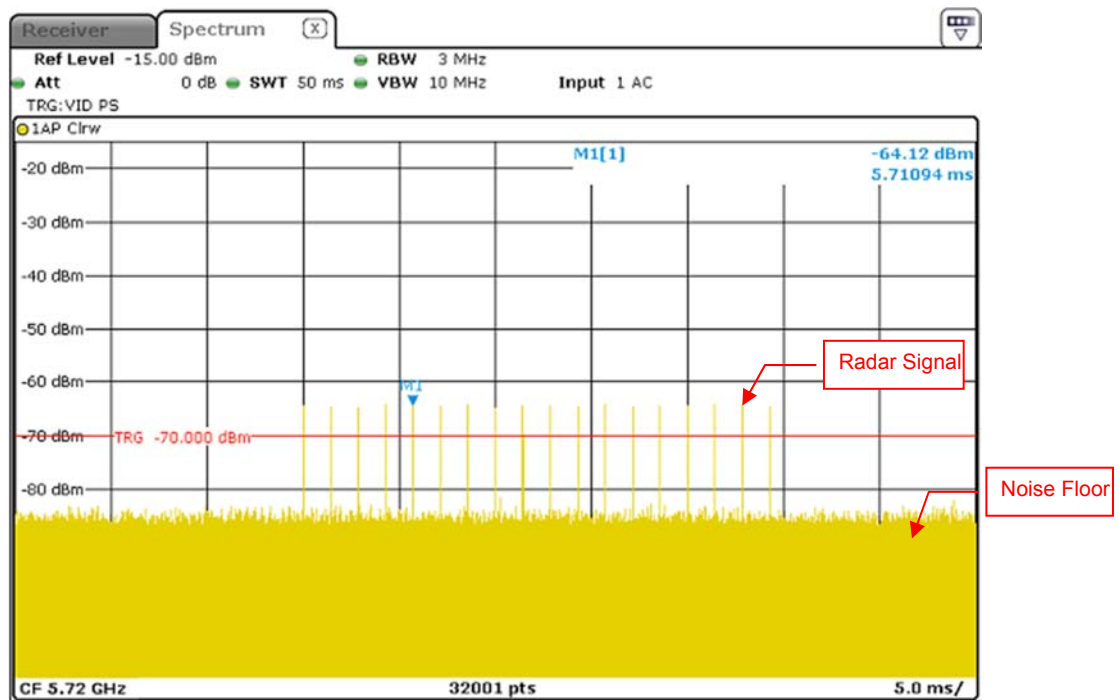
## 6.3 Test Results

### 6.3.1 Test Mode: Device Operating In Master Mode

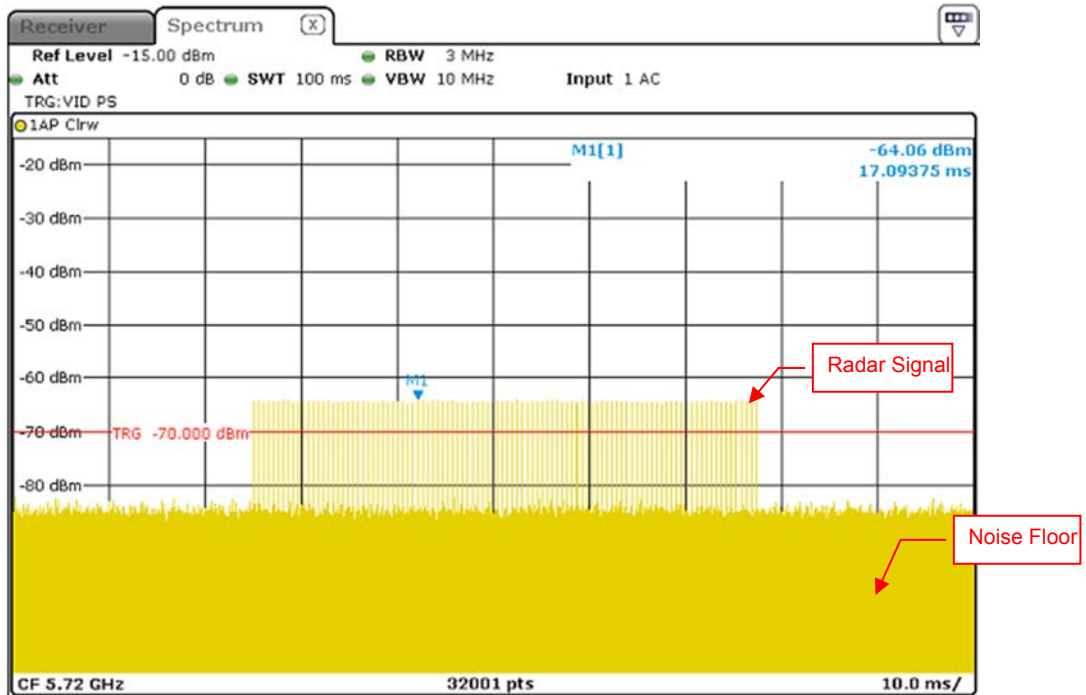
The radar test waveforms are injected into the Master.

#### DFS Detection Threshold

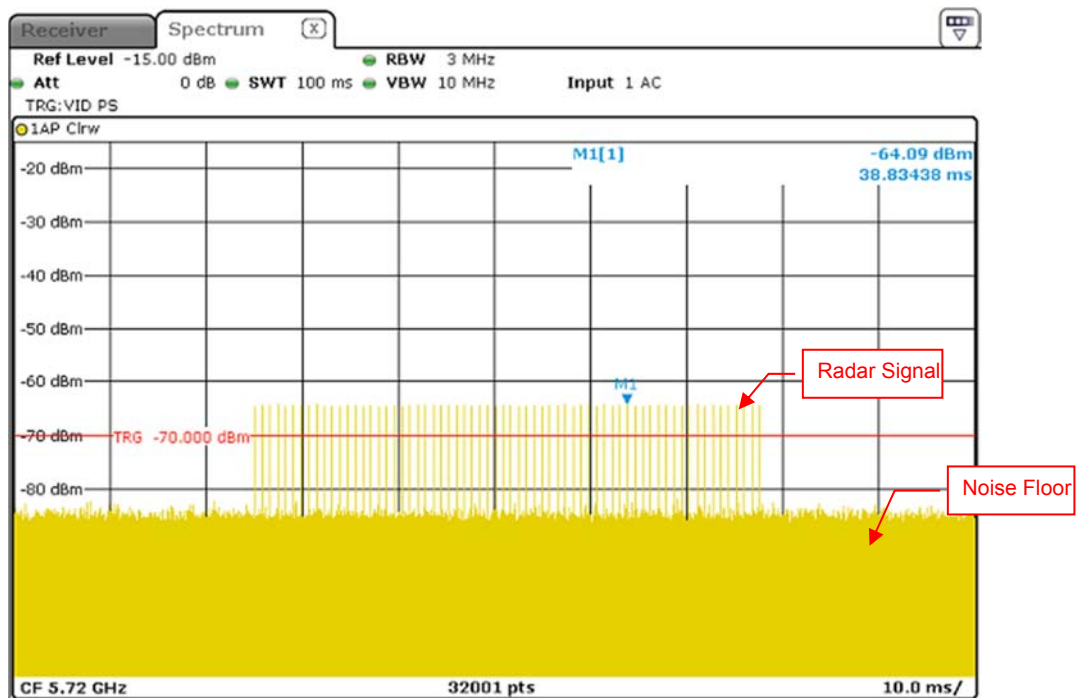
For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64 dBm. The tested level is lower than required level hence it provides margin to the limit.



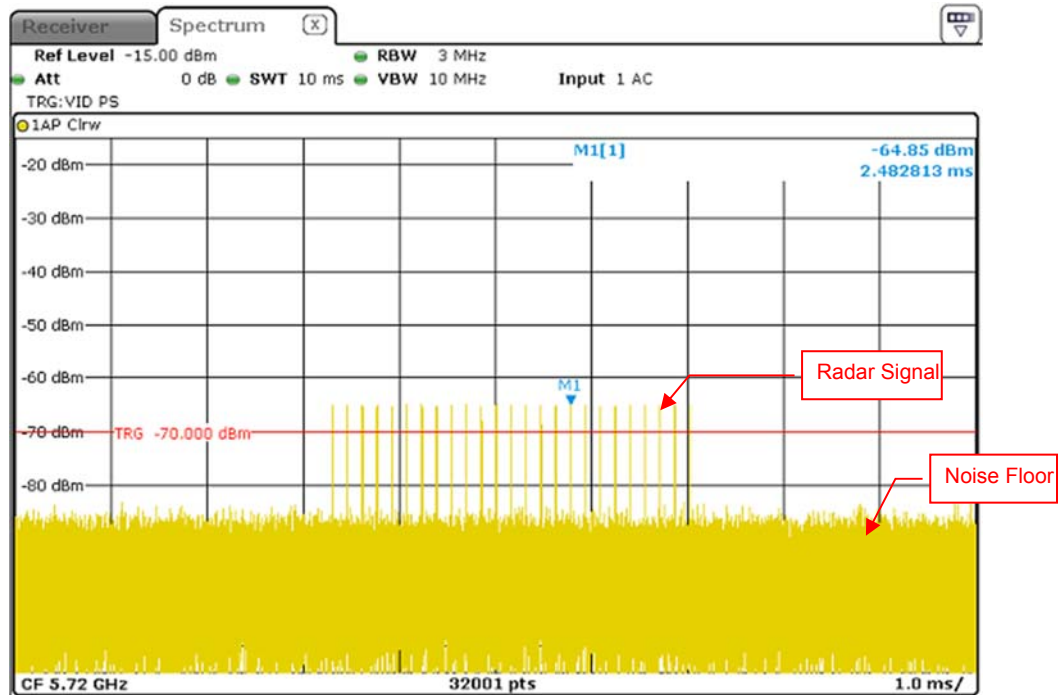
Radar Signal 0



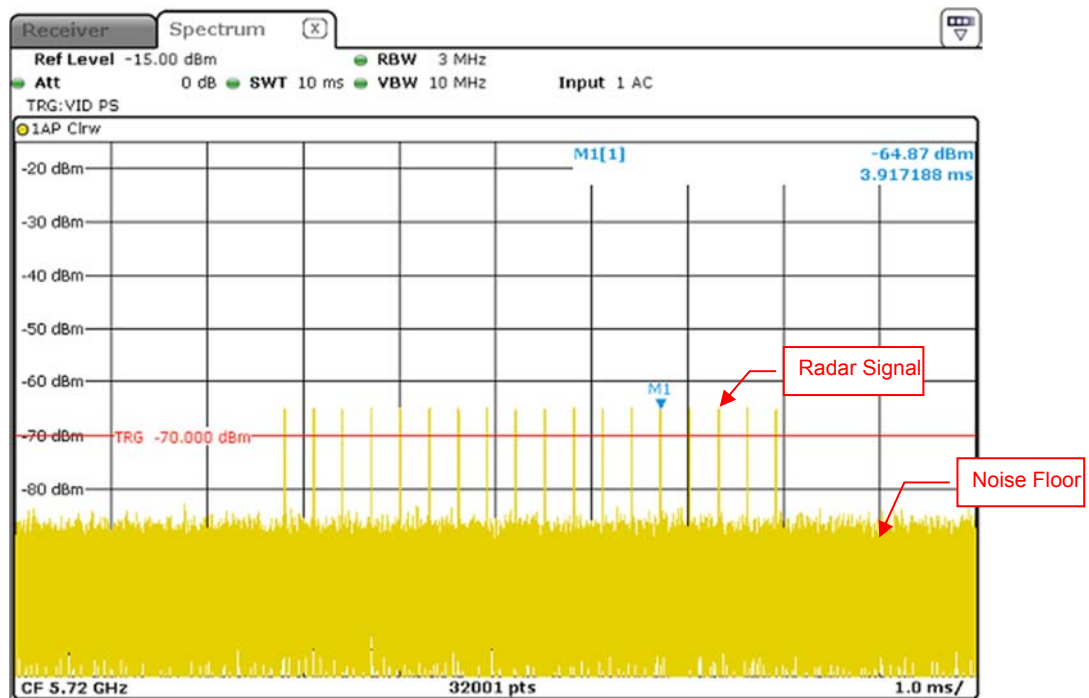
Radar Signal 1 (Test A)



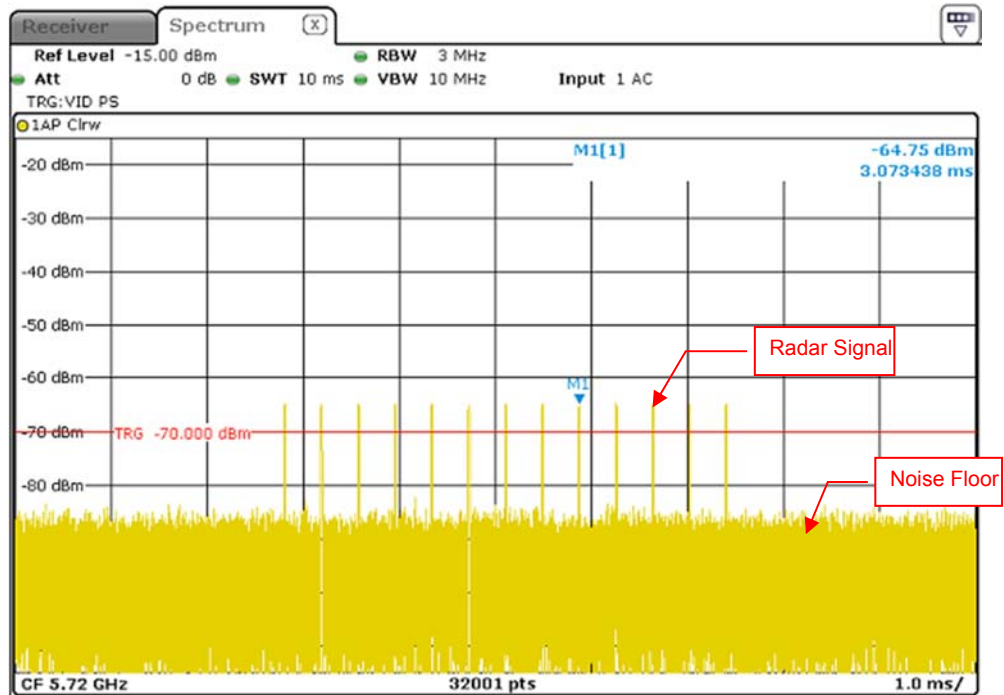
Radar Signal 1 (Test B)



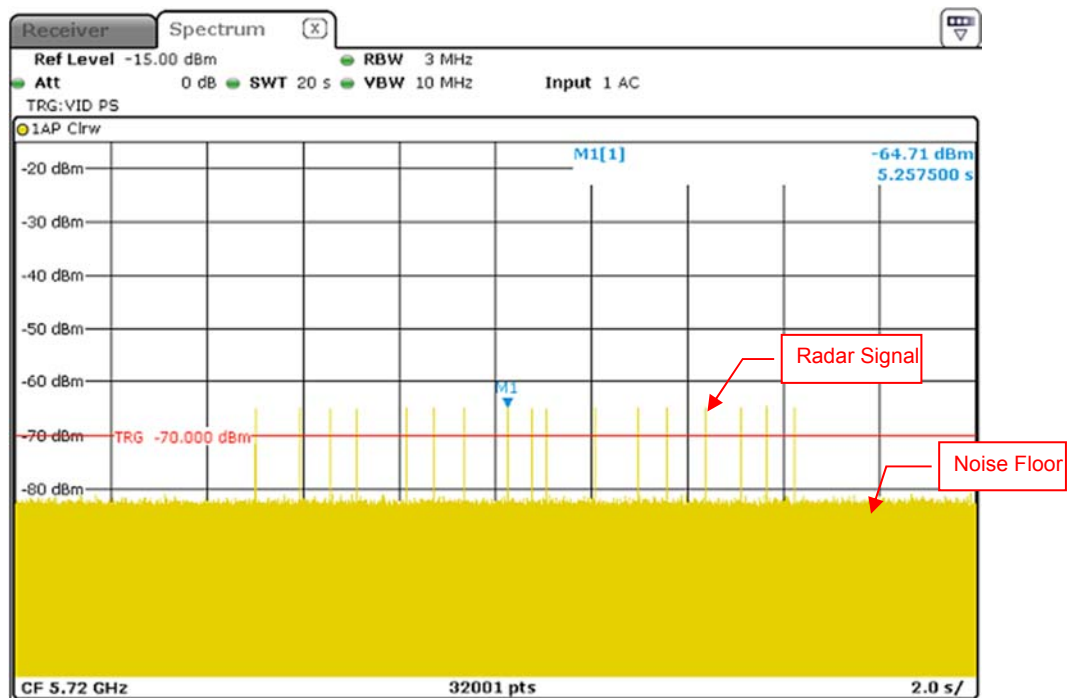
Radar Signal 2



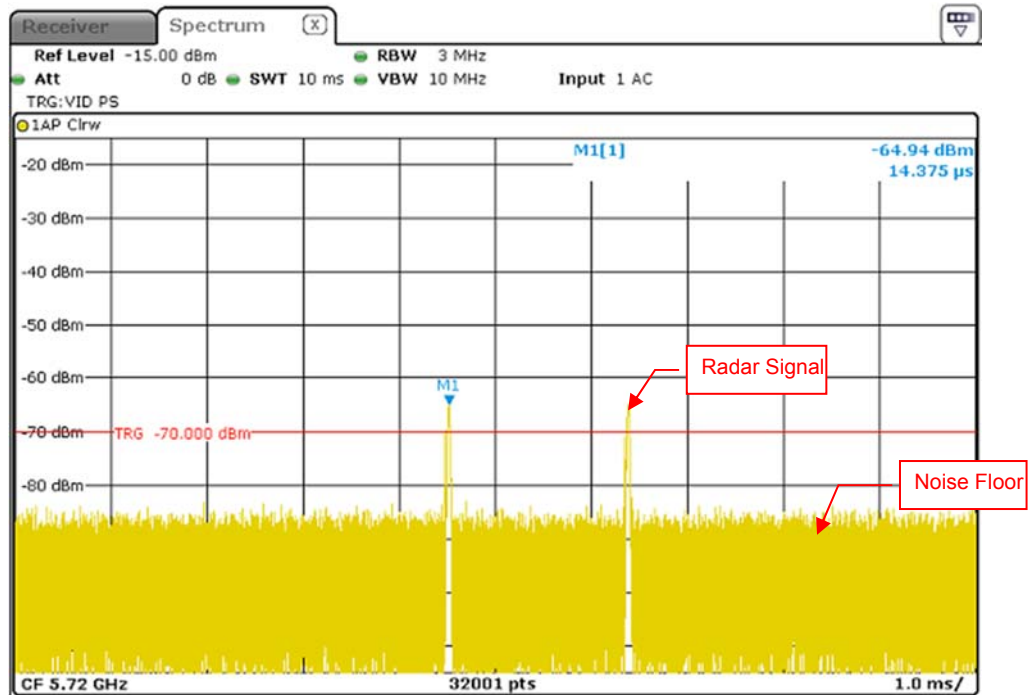
Radar Signal 3



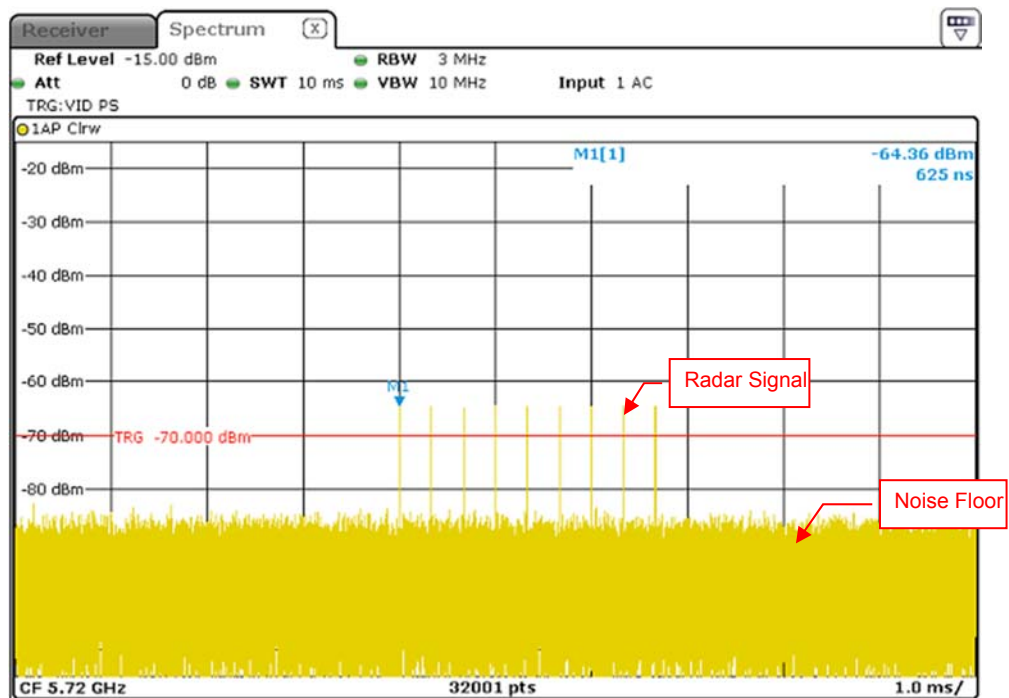
Radar Signal 4



Radar Signal 5



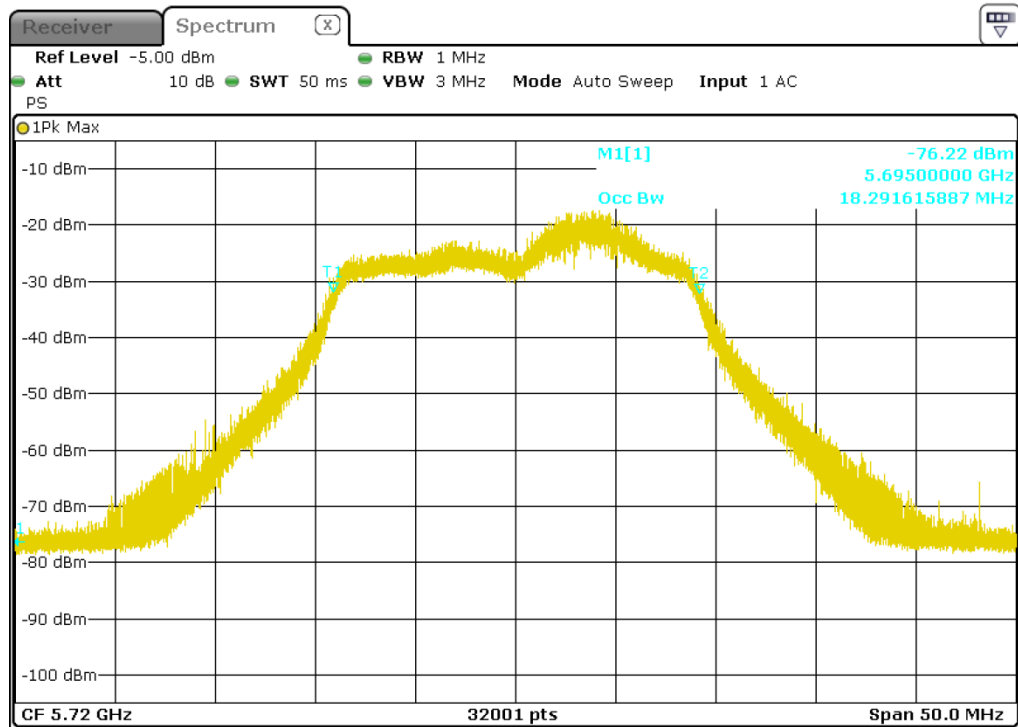
Single Burst of Radar Signal 5



Radar Signal 6

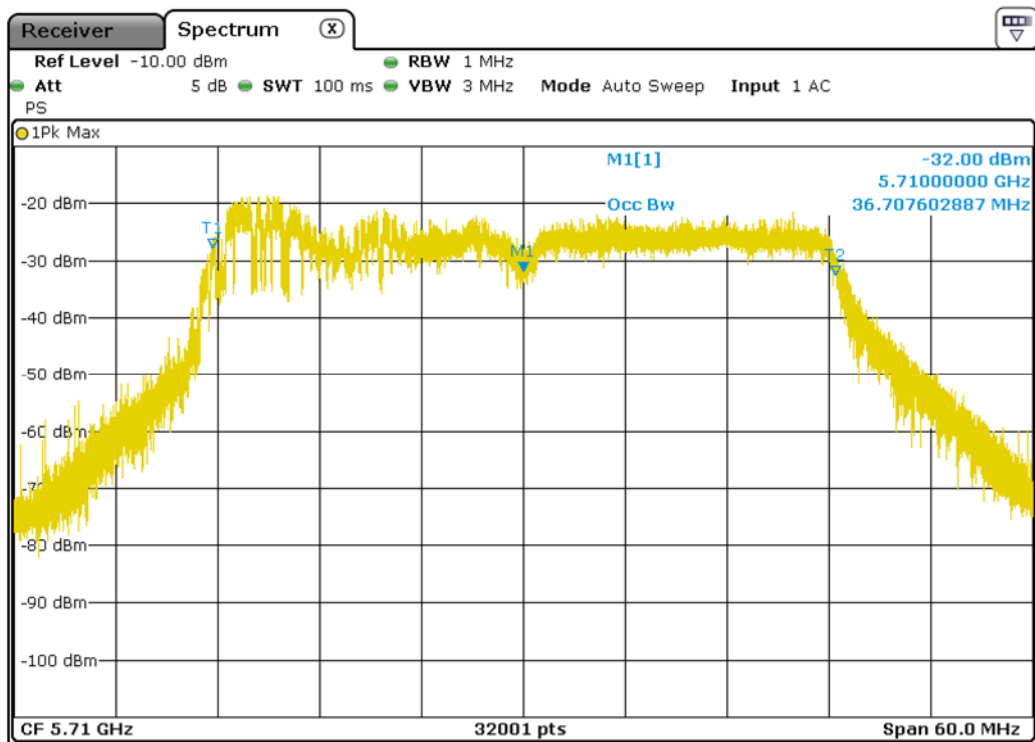
### 6.3.2 U-NII Detection Bandwidth

#### IEEE 802.11n HT20



U-NII 99% Channel bandwidth

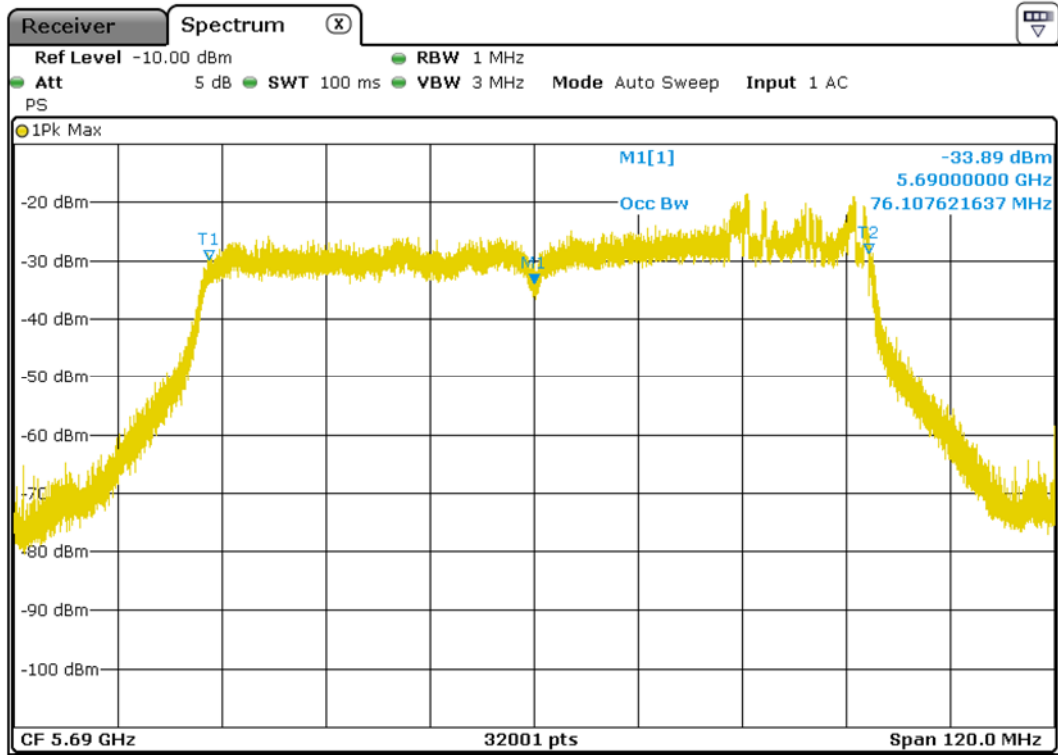
#### IEEE 802.11n HT40



U-NII 99% Channel bandwidth



# IEEE 802.11ac VHT80



U-NII 99% Channel bandwidth

# Detection Bandwidth Test - IEEE 802.11n HT20

Radar Type 0

EUT Frequency: 5720MHz

EUT 99% Power bandwidth: 18.29MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 18.29MHz

Detection bandwidth (5729(FH) – 5710(FL)) : 19MHz

Test Result : Pass

| Radar Frequency (MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5709                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |
| 5710 (FL)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5711                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5712                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5713                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5714                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5715                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5716                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5717                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5718                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5719                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5720                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5721                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5722                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5723                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5724                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5725                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5726                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5727                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5728                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5729 (FH)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5730                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - IEEE 802.11n HT40

Radar Type 0

EUT Frequency: 5710MHz

EUT 99% Power bandwidth: 36.7MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.7MHz

Detection bandwidth (5730(FH) – 5690(FL)) : 40MHz

Test Result : Pass

| Radar Frequency (MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5689                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |
| 5690 (FL)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5691                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5692                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5693                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5694                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5695                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5696                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5697                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5698                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5699                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5700                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5701                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5702                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5703                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5704                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5705                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5706                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5707                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5708                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5709                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5710                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5711                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5712                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5713                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5714                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5715                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5716                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5717                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5718                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5719                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5720                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5721                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5722                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5723                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5724                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5725                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5726                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5727                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5728                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5729                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5730 (FH)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5531                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - IEEE 802.11ac VHT80

Radar Type 0

EUT Frequency: 5690MHz

EUT 99% Power bandwidth: 76.1MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 76.1MHz

Detection bandwidth (5730(FH) – 5650(FL)) : 80MHz

Test Result : Pass

| Radar Frequency (MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5649                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |
| 5650 (FL)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5651                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5652                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5653                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5654                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5655                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5656                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5657                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5658                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5659                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5660                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5661                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5662                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5663                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5664                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5665                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5666                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5667                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5668                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5669                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5670                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5671                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5672                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5673                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5674                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5675                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5676                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5677                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5678                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5679                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5680                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5681                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5682                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5683                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5684                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5685                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5686                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5687                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5688                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5689                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5690                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5691                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5692                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5693                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |

|           |     |     |     |     |     |     |     |     |     |     |       |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 5694      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5695      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5696      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5697      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5698      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5699      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5700      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5701      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5702      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5703      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5704      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5705      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5706      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5707      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5708      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5709      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5710      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5711      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5712      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5713      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5714      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5715      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5716      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5717      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5718      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5719      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5720      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5721      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5722      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5723      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5724      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5725      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5726      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5727      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5728      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5729      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5730 (FH) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5731      | No  | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0   |

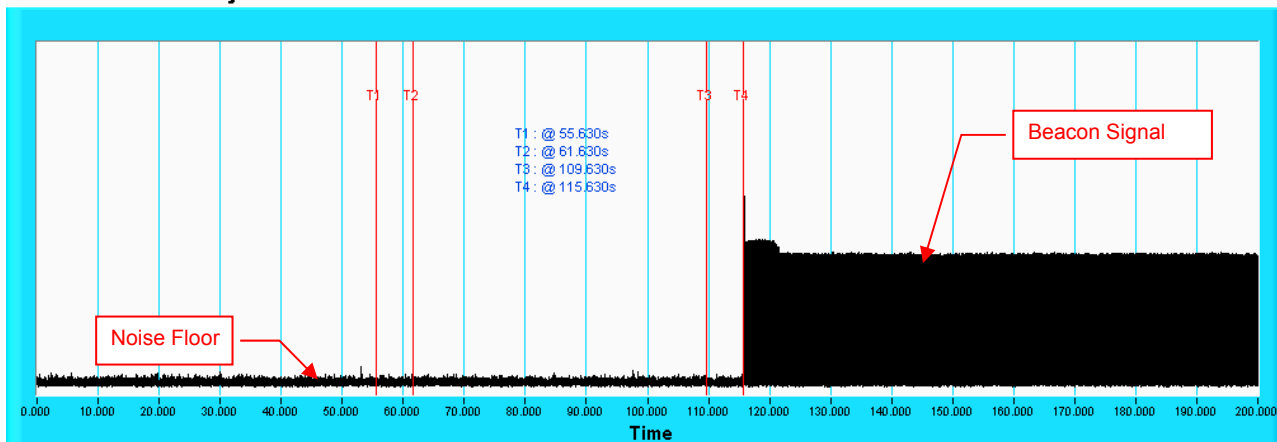
### 6.1.1 Channel Availability Check Time

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

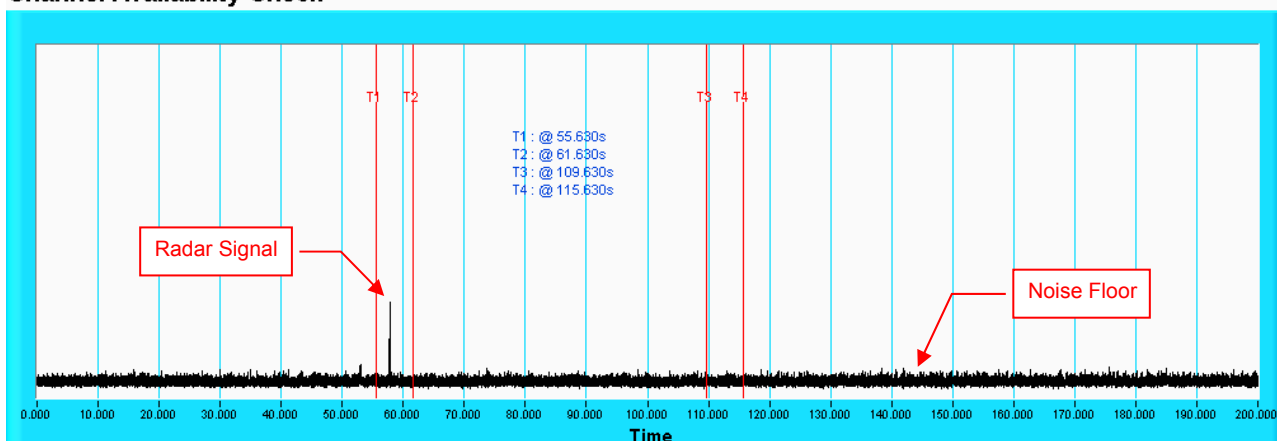
### Channel Availability Check



Note: T1 denotes the end of power-up time period is 55.63<sup>th</sup> second. T4 denotes the end of Channel Availability Check time is 115.63<sup>th</sup> second. Channel Availability Check time is equal to ( T4 – T1 ) 60 seconds.

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

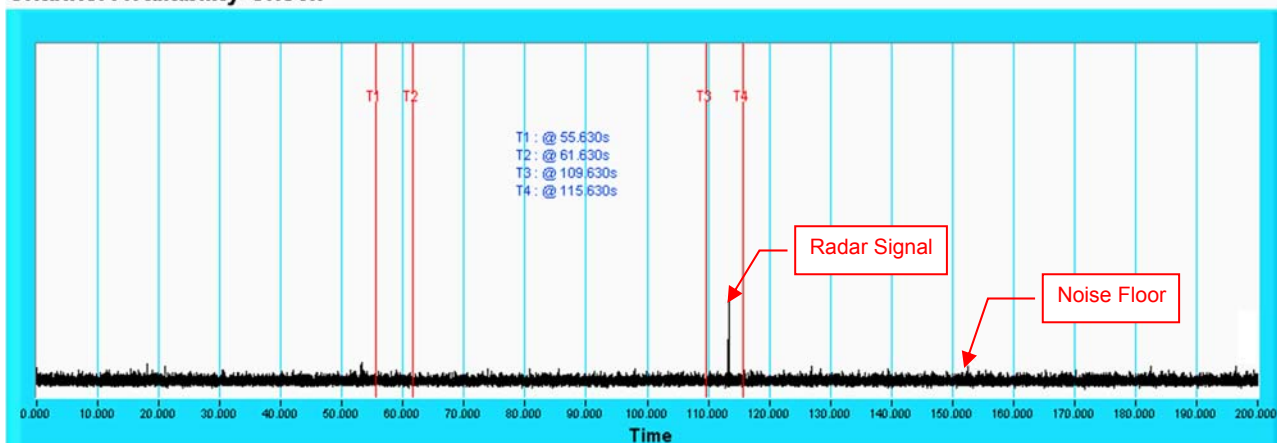
### Channel Availability Check



Note: T1 denotes the end of power up time period is 55.63<sup>th</sup> second. T2 denotes 61.63<sup>th</sup> second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 115.63<sup>th</sup> second.

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

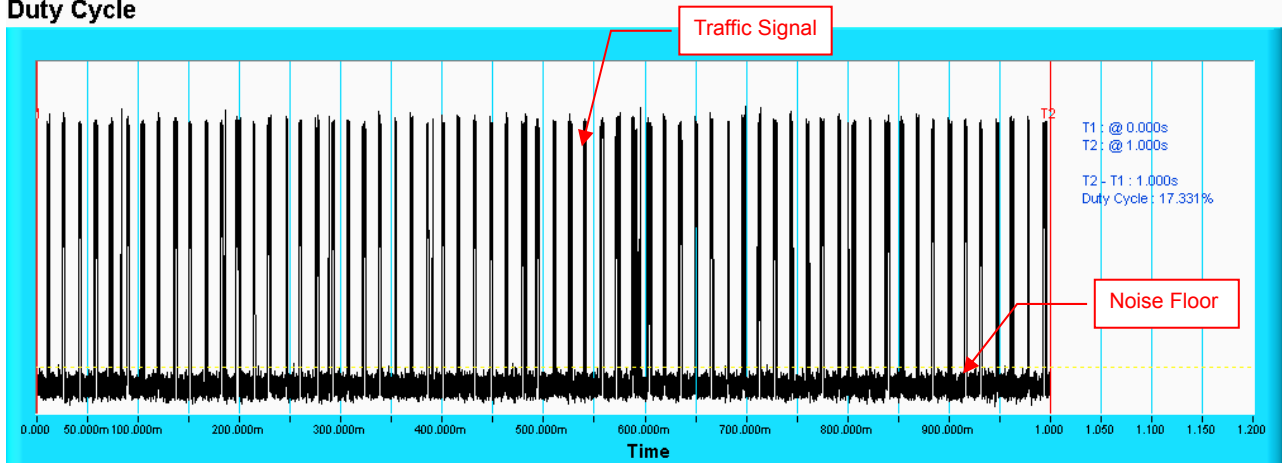
### Channel Availability Check



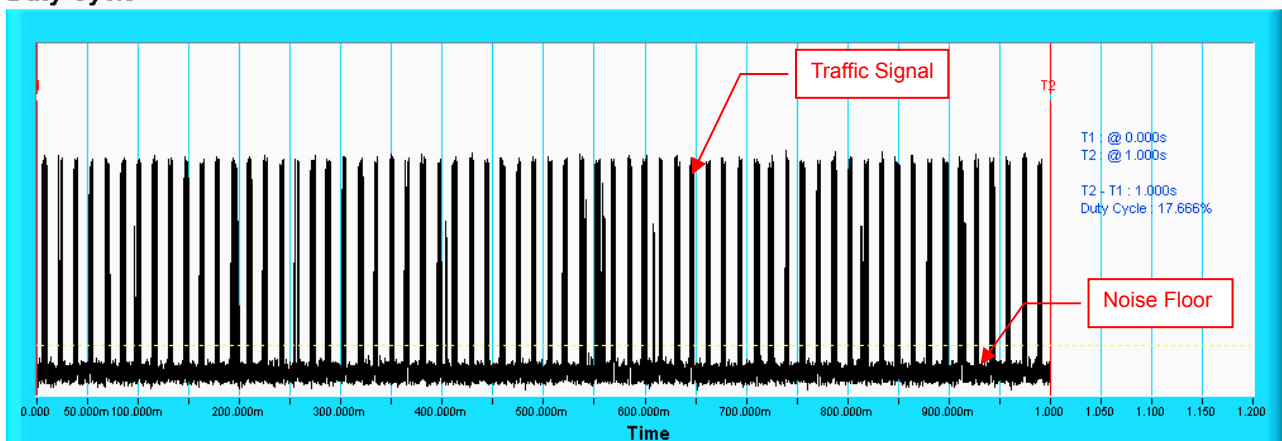
Note: T1 denotes the end of power up time period is 55.63<sup>th</sup> second. T3 denotes 109.63<sup>th</sup> second and the radar burst was commenced within 54<sup>th</sup> second to 60<sup>th</sup> second window starting from the end of power-up sequence. T4 denotes the 115.63<sup>th</sup> second.

## 6.1.2 Channel Closing Transmission and Channel Move Time

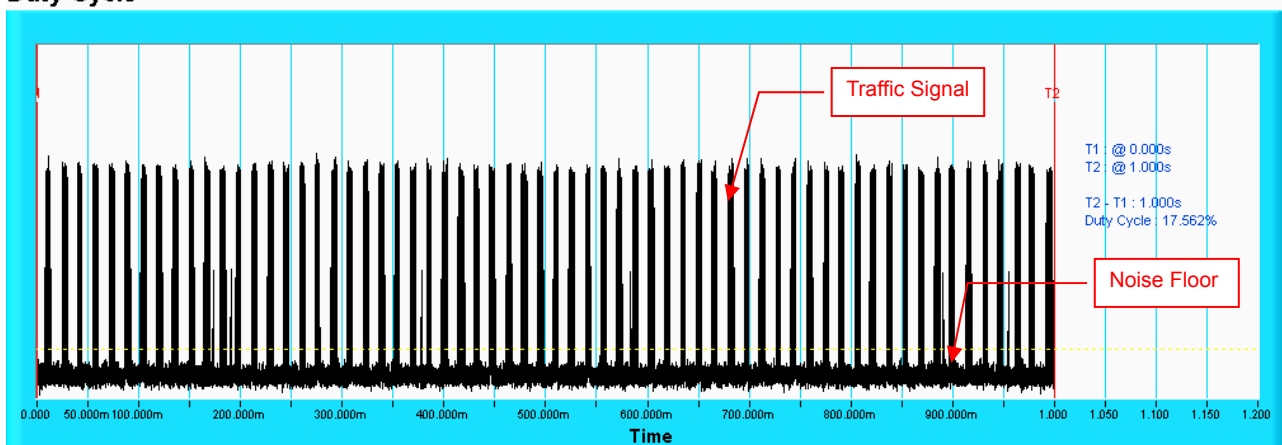
Wireless Traffic Loading  
IEEE 802.11n HT20  
Duty Cycle



IEEE 802.11n HT40  
Duty Cycle



IEEE 802.11ac VHT80  
Duty Cycle





# EEE 802.11n HT20

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                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | Roundup $\left\{ \left\lceil \frac{1}{360} \right\rceil \cdot \left\lceil \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\rceil \right\}$ | 30                       | 90                                     |
|                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                                                                   |                          |                                        |
| 2                           | 1-5                | 150-230                                                                                                                                                       | 23-29                                                                                                                                             | 30                       | 80                                     |
| 3                           | 6-10               | 200-500                                                                                                                                                       | 16-18                                                                                                                                             | 30                       | 86.67                                  |
| 4                           | 11-20              | 200-500                                                                                                                                                       | 12-16                                                                                                                                             | 30                       | 80                                     |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                               |                                                                                                                                                   | 120                      | 84.16                                  |

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                      | 100                                    |

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                      | 96.7                                   |

# IEEE 802.11n HT40

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                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | Roundup $\left\{ \frac{1}{360} \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 30                       | 100                                    |
|                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                                |                          |                                        |
| 2                           | 1-5                | 150-230                                                                                                                                                       | 23-29                                                                                                          | 30                       | 93.33                                  |
| 3                           | 6-10               | 200-500                                                                                                                                                       | 16-18                                                                                                          | 30                       | 86.67                                  |
| 4                           | 11-20              | 200-500                                                                                                                                                       | 12-16                                                                                                          | 30                       | 80                                     |
| 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                      | 96.7                                   |

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                      | 100                                    |

# IEEE 802.11ac VHT80

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                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | Roundup $\left\{ \frac{1}{360} \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 30                       | 100                                    |
|                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                                |                          |                                        |
| 2                           | 1-5                | 150-230                                                                                                                                                       | 23-29                                                                                                          | 30                       | 76.67                                  |
| 3                           | 6-10               | 200-500                                                                                                                                                       | 16-18                                                                                                          | 30                       | 80                                     |
| 4                           | 11-20              | 200-500                                                                                                                                                       | 12-16                                                                                                          | 30                       | 83.33                                  |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                               |                                                                                                                | 120                      | 84.99                                  |

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                      | 100                                    |

Table 3: Frequency Hopping Radar Test Waveform

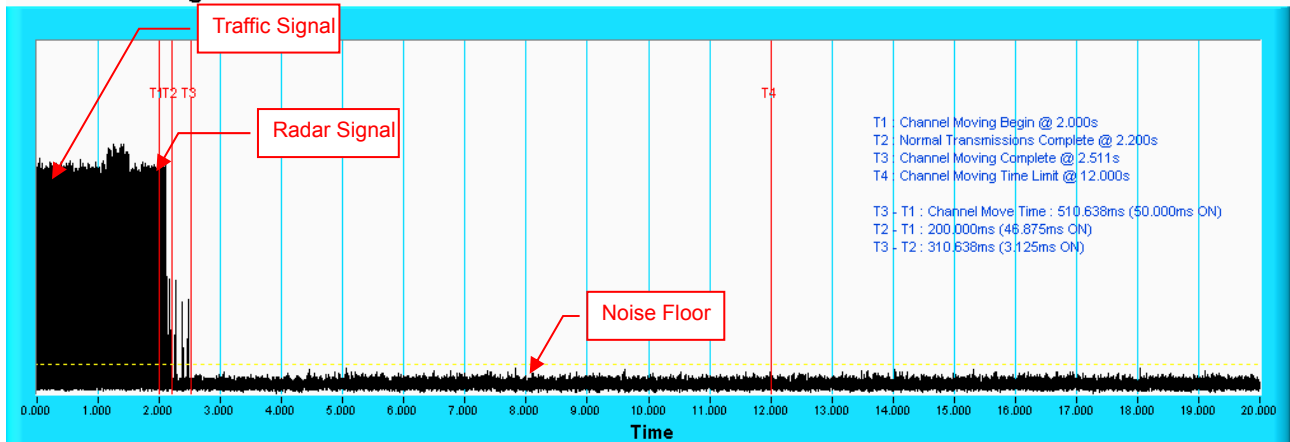
| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 100                                    |

## Master Mode

Radar signal 0

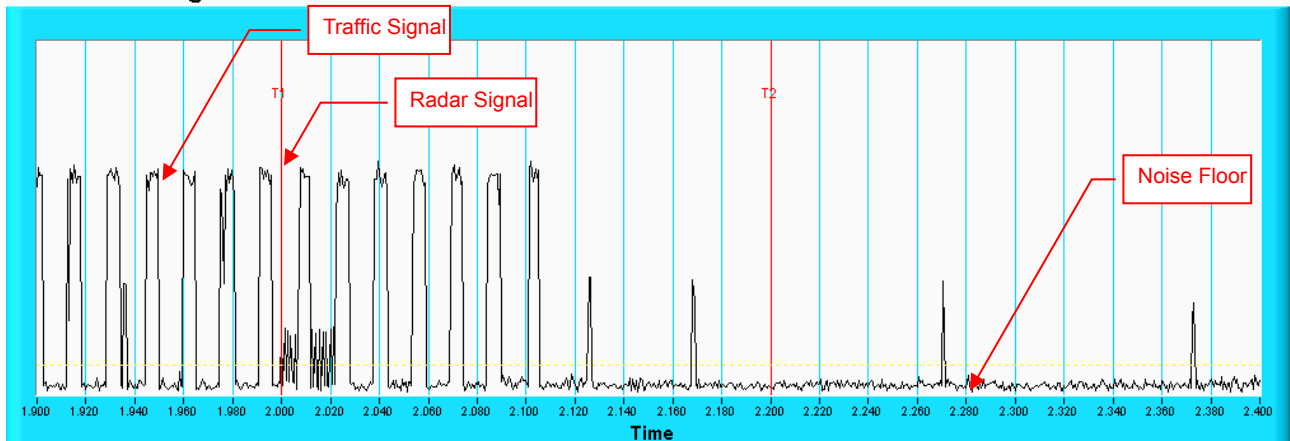
IEEE 802.11ac VHT80

### Channel Closing Transmission Time & Channel Move Time



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.

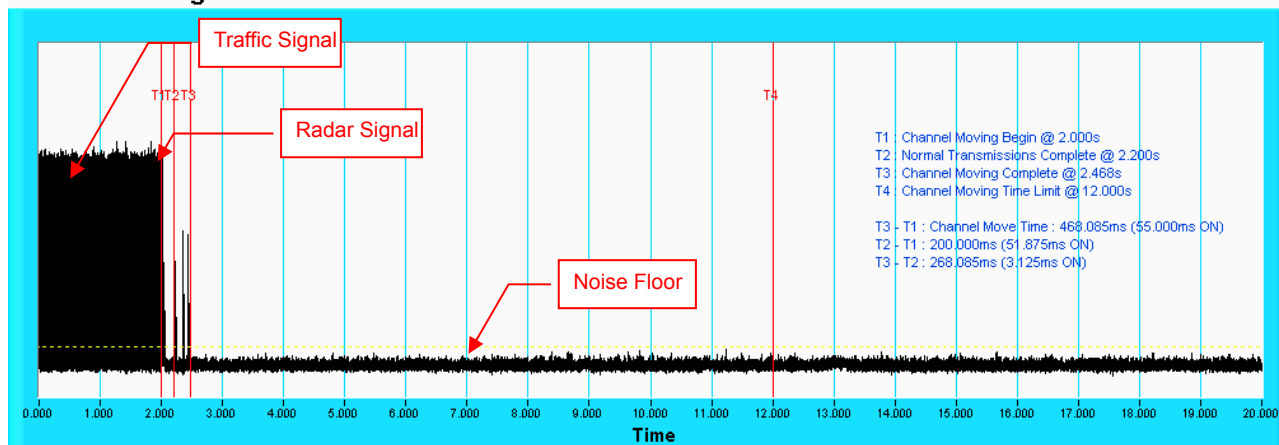
### Channel Closing Transmission Time & Channel Move Time



Note: Zoom-in of the first 500ms after radar signal applied.

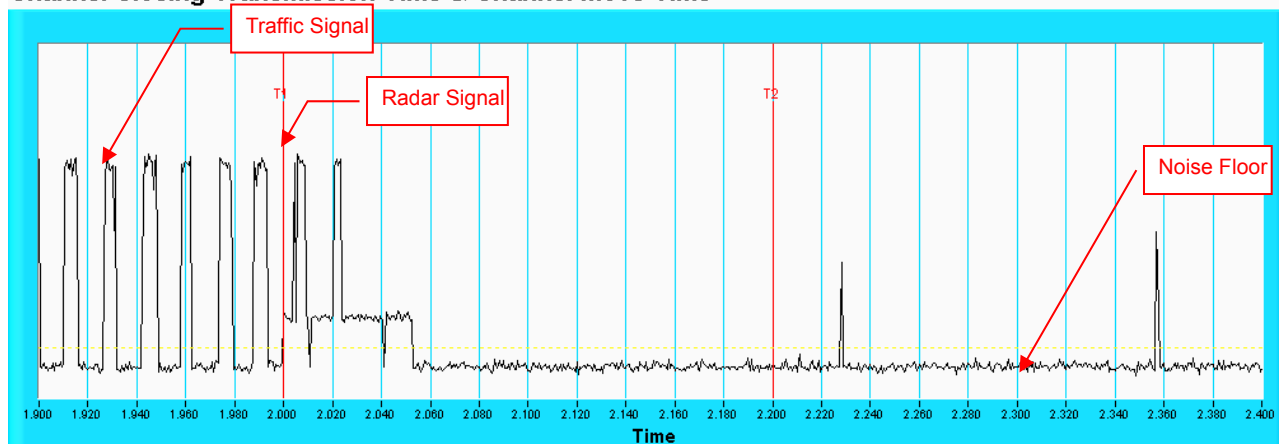
# **Radar signal 1** **IEEE 802.11ac VHT80**

## **Channel Closing Transmission Time & Channel Move Time**



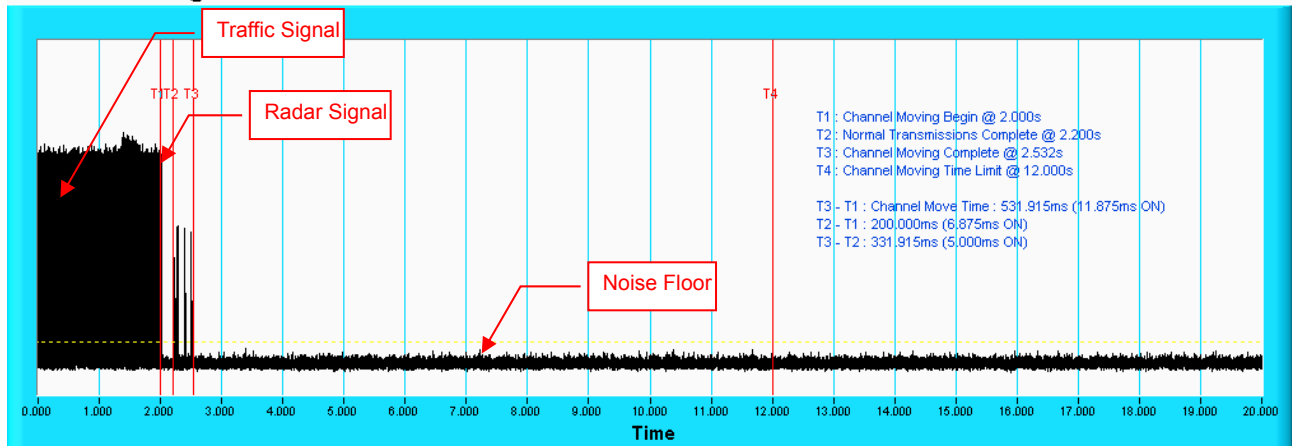
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

## **Channel Closing Transmission Time & Channel Move Time**



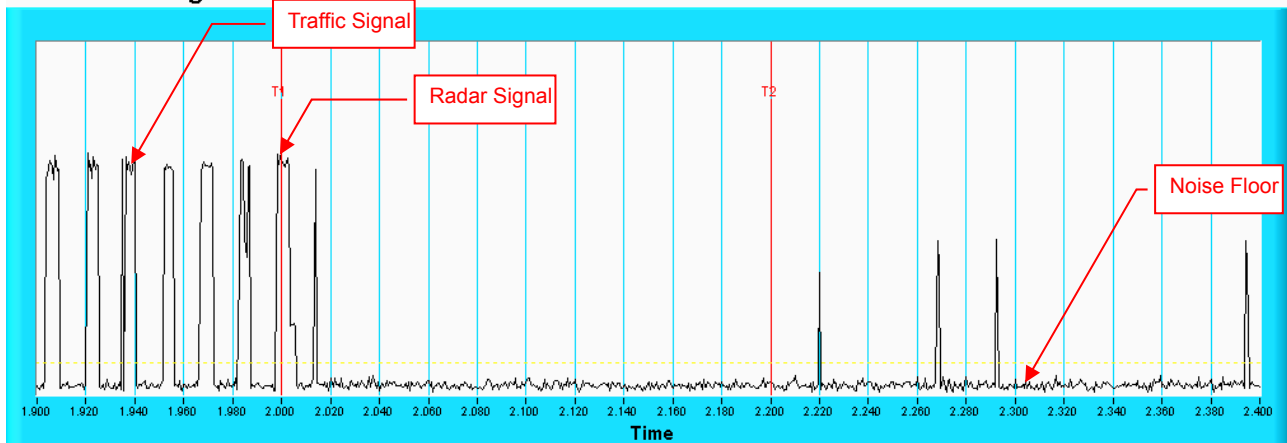
Note: Zoom-in of the first 500ms after radar signal applied.

**Radar signal 2**  
**IEEE 802.11ac VHT80**  
**Channel Closing Transmission Time & Channel Move Time**



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**

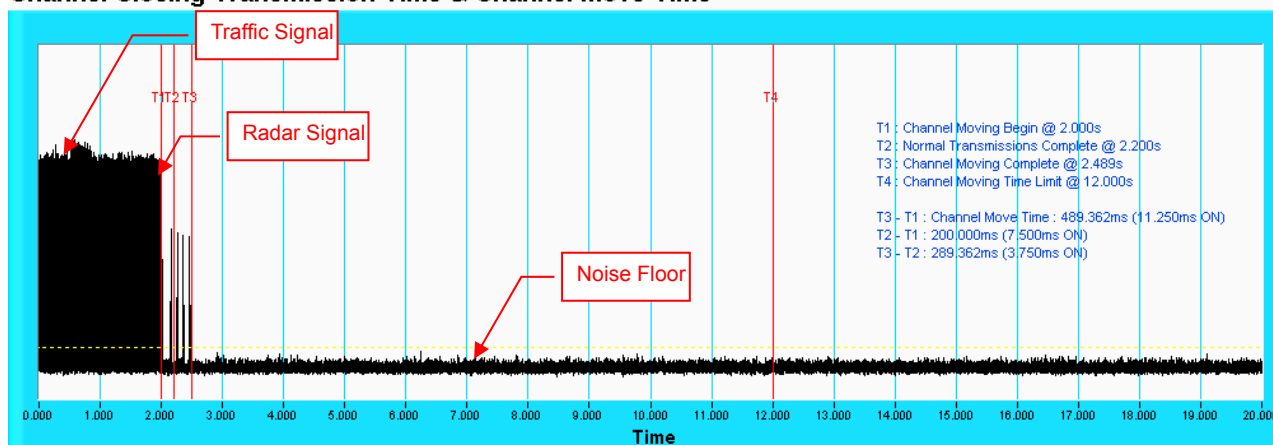


Note: Zoom-in of the first 500ms after radar signal applied.

### Radar signal 3

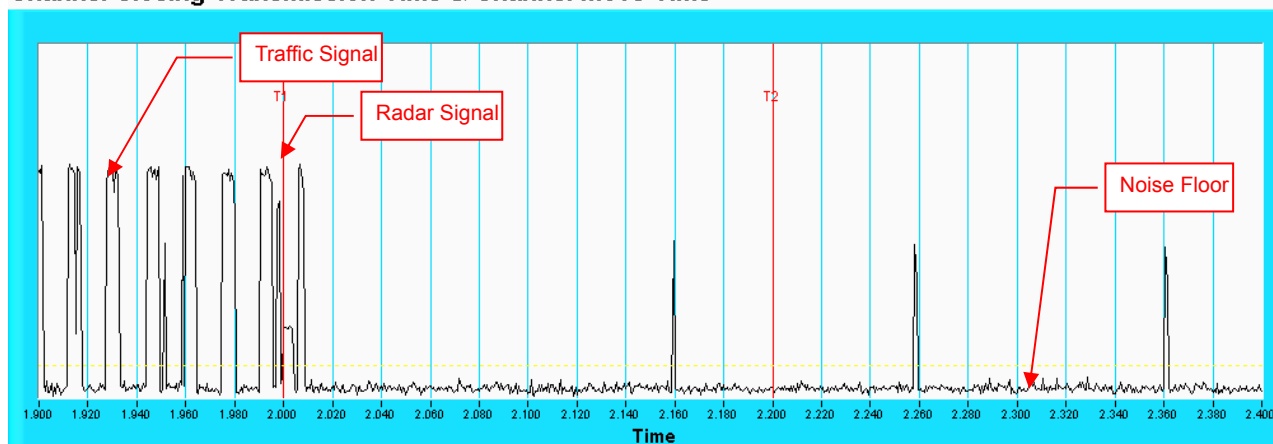
IEEE 802.11ac VHT80

#### Channel Closing Transmission Time & Channel Move Time



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.

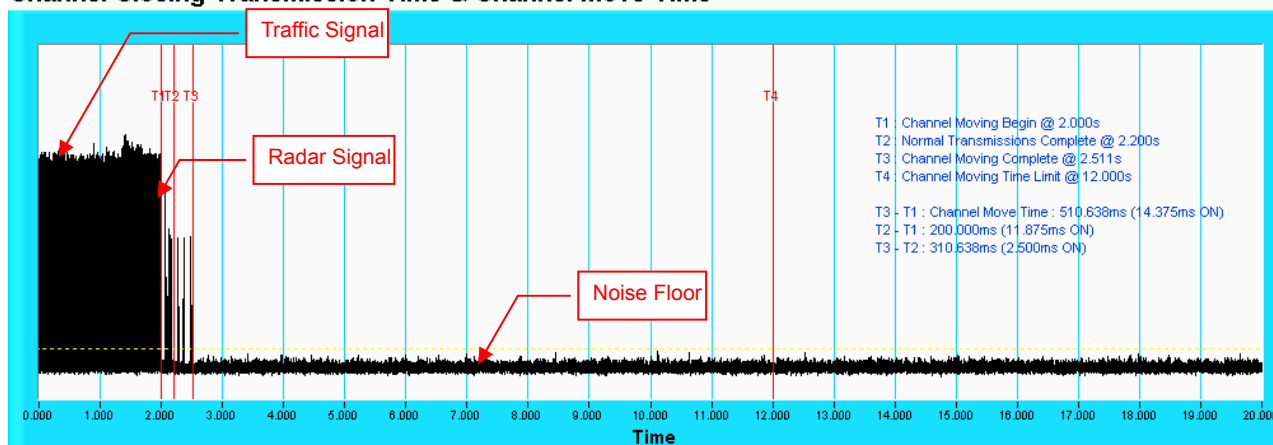
#### Channel Closing Transmission Time & Channel Move Time



Note: Room-in of the first 500ms after radar signal applied.

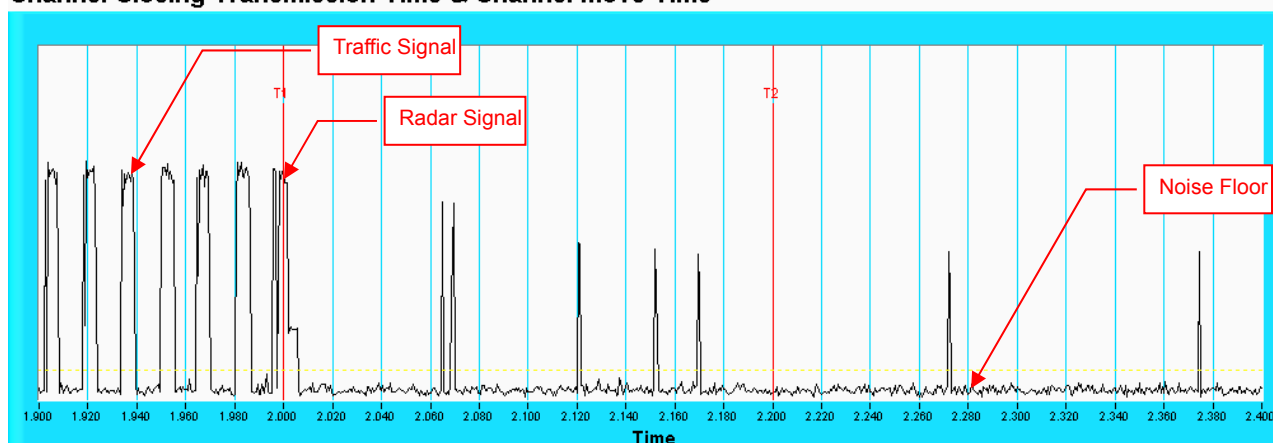
# Radar signal 4 IEEE 802.11ac VHT80

## Channel Closing Transmission Time & Channel Move Time



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



Note: Room-in of the first 500ms after radar signal applied.

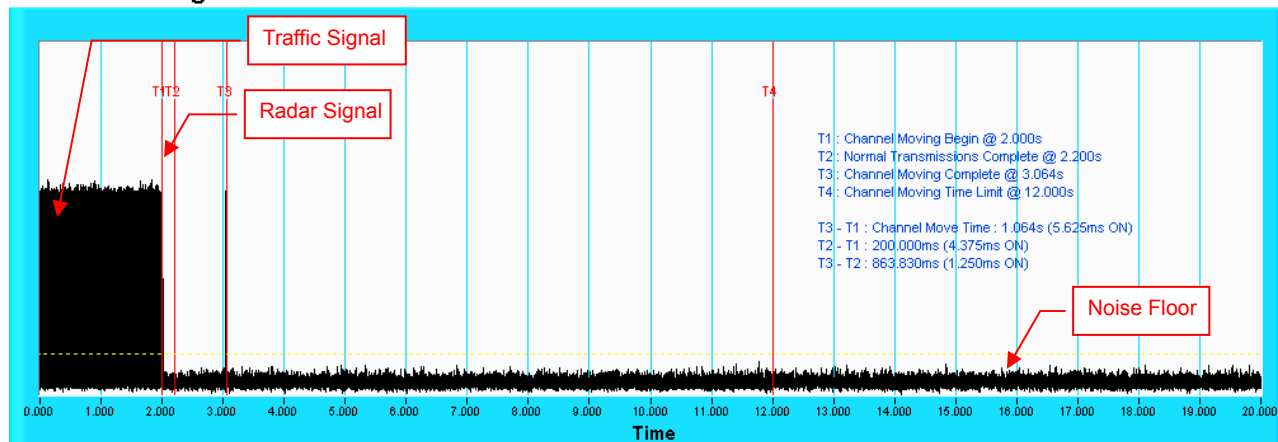


## Client Mode

Radar Signal 0

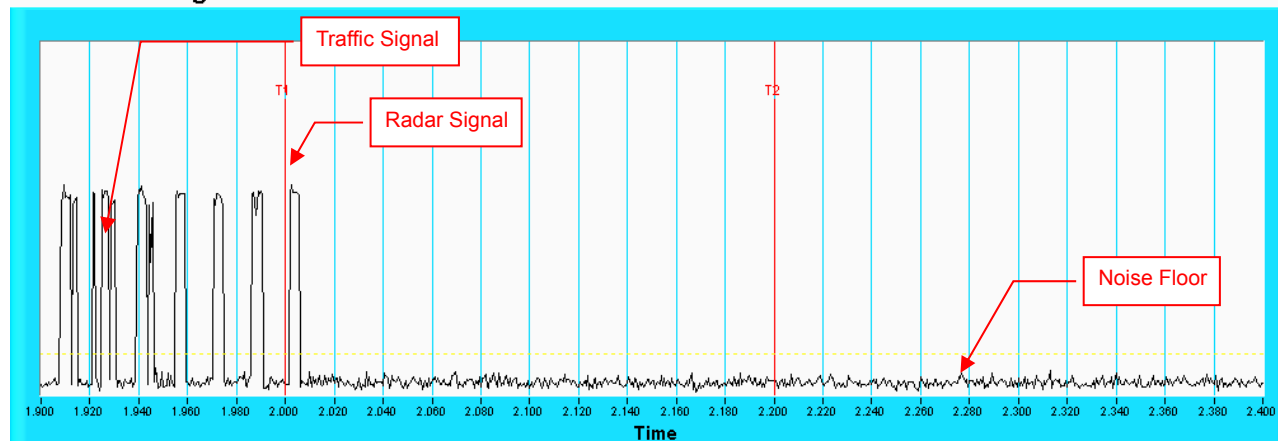
802.11n HT20

### Channel Closing Transmission Time & Channel Move Time



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

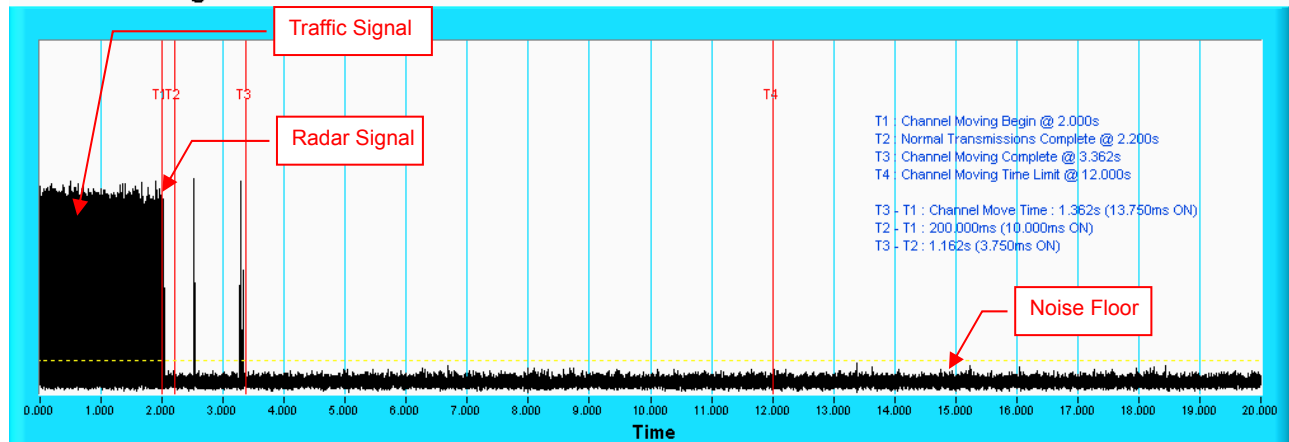


Note: Room-in of the first 500ms after radar signal applied.

## Radar Signal 0

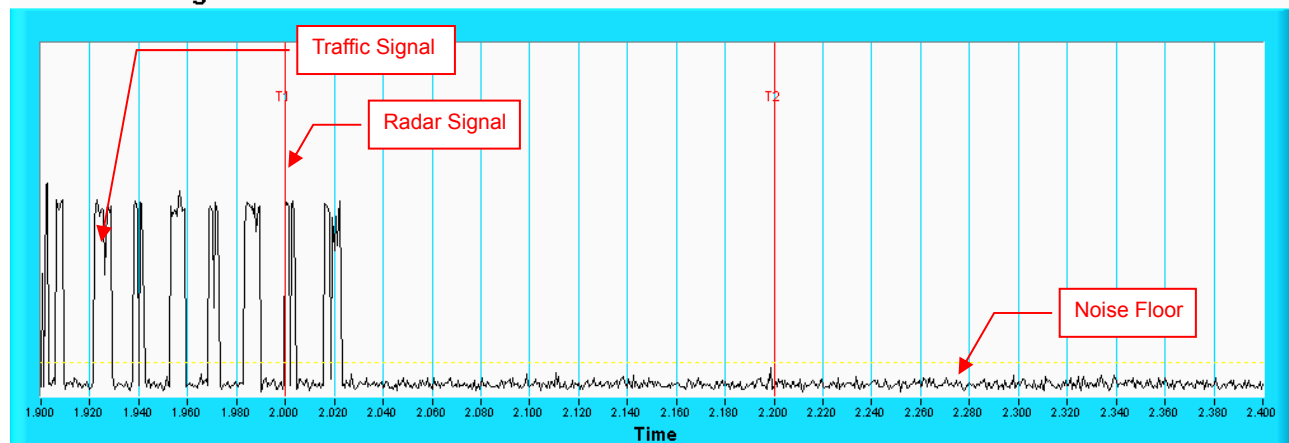
802.11n HT40

### Channel Closing Transmission Time & Channel Move Time



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.

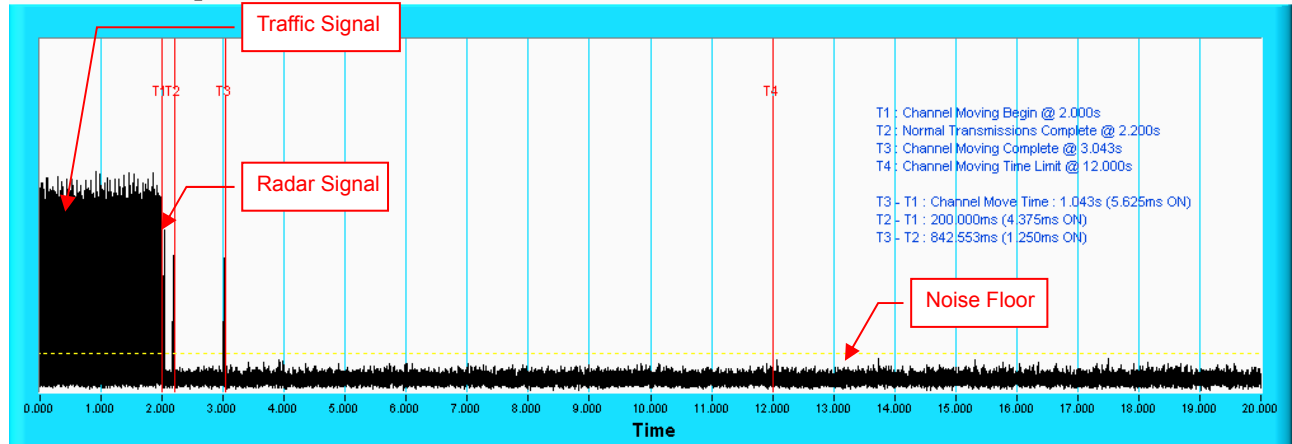
### Channel Closing Transmission Time & Channel Move Time



Note: Room-in of the first 500ms after radar signal applied.

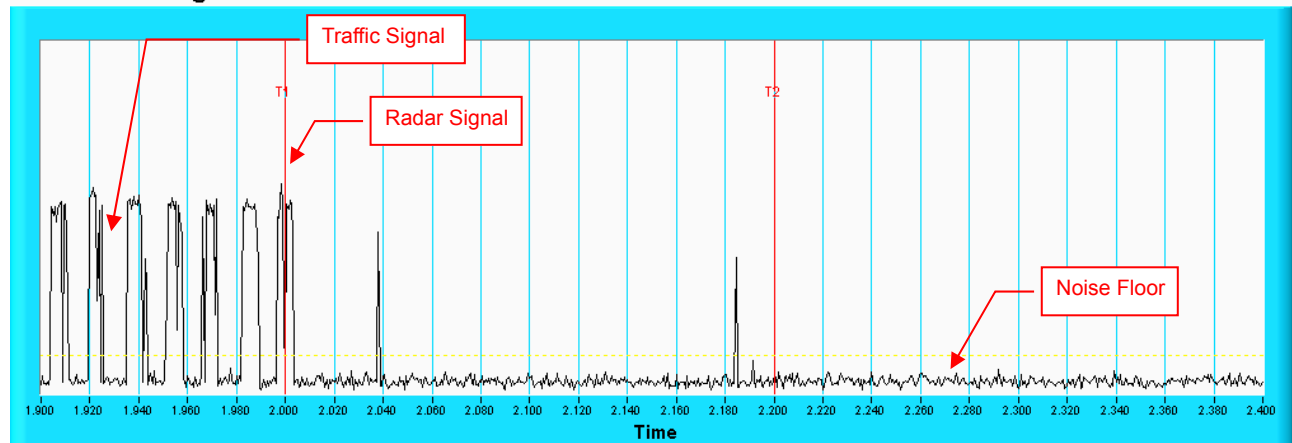
## Radar Signal 0 802.11ac VHT80

### Channel Closing Transmission Time & Channel Move Time



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



Note: Room-in of the first 500ms after radar signal applied.

## 802.11n (HT20)

| 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                                     | 5721                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5717                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5730                 | 4                                           | 1730                                           | 92               | 578                                      | No        |
| 4                                     | 5711                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5                                     | 5728                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5715                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5713                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5722                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5714                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10                                    | 5719                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5725                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5727                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5718                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5710                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5729                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5720                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5726                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5716                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5724                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5723                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5712                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5727                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5714                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5716                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5710                 |                                             | 508.9                                          | 27               | 1965                                     | No        |
| 26                                    | 5712                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5728                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5730                 |                                             | 786.8                                          | 42               | 1271                                     | No        |
| 29                                    | 5717                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5729                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |
| Detection Rate: 90 %                  |                      |                                             |                                                |                  |                                          |           |

## 802.11n (HT20)

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5722                 | 26               | 3.2             | 179     | Yes       |
| 2       | 5712                 | 23               | 1.1             | 207     | Yes       |
| 3       | 5728                 | 24               | 2.1             | 230     | Yes       |
| 4       | 5714                 | 29               | 4.8             | 200     | Yes       |
| 5       | 5724                 | 28               | 3.9             | 214     | Yes       |
| 6       | 5725                 | 26               | 2.9             | 222     | Yes       |
| 7       | 5716                 | 26               | 3.2             | 204     | No        |
| 8       | 5723                 | 25               | 2.5             | 192     | Yes       |
| 9       | 5718                 | 26               | 3.1             | 164     | Yes       |
| 10      | 5710                 | 23               | 1.2             | 156     | No        |
| 11      | 5721                 | 27               | 3.9             | 210     | Yes       |
| 12      | 5726                 | 29               | 4.6             | 201     | Yes       |
| 13      | 5711                 | 26               | 3.2             | 162     | Yes       |
| 14      | 5719                 | 25               | 2.2             | 197     | Yes       |
| 15      | 5717                 | 29               | 4.5             | 163     | Yes       |
| 16      | 5720                 | 26               | 3               | 203     | Yes       |
| 17      | 5713                 | 29               | 5               | 168     | Yes       |
| 18      | 5715                 | 25               | 2.4             | 217     | Yes       |
| 19      | 5727                 | 26               | 2.9             | 191     | Yes       |
| 20      | 5729                 | 25               | 2.3             | 166     | No        |
| 21      | 5730                 | 27               | 3.7             | 150     | No        |
| 22      | 5716                 | 25               | 2.2             | 176     | Yes       |
| 23      | 5729                 | 29               | 4.9             | 195     | Yes       |
| 24      | 5728                 | 26               | 2.9             | 202     | No        |
| 25      | 5727                 | 25               | 2.5             | 178     | Yes       |
| 26      | 5714                 | 23               | 1.1             | 206     | Yes       |
| 27      | 5730                 | 27               | 3.8             | 155     | No        |
| 28      | 5721                 | 29               | 4.7             | 157     | Yes       |
| 29      | 5712                 | 25               | 2.4             | 224     | Yes       |
| 30      | 5718                 | 28               | 4.2             | 159     | Yes       |

Detection Rate: 80 %

## 802.11n (HT20)

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5717                 | 17               | 8.2             | 355     | Yes       |
| 2       | 5728                 | 16               | 6.1             | 487     | Yes       |
| 3       | 5714                 | 16               | 7.1             | 344     | No        |
| 4       | 5713                 | 18               | 9.8             | 288     | No        |
| 5       | 5726                 | 18               | 8.9             | 230     | Yes       |
| 6       | 5715                 | 17               | 7.9             | 432     | Yes       |
| 7       | 5727                 | 17               | 8.2             | 207     | Yes       |
| 8       | 5716                 | 17               | 7.5             | 443     | Yes       |
| 9       | 5718                 | 17               | 8.1             | 439     | Yes       |
| 10      | 5719                 | 16               | 6.2             | 223     | Yes       |
| 11      | 5721                 | 18               | 8.9             | 208     | Yes       |
| 12      | 5712                 | 18               | 9.6             | 463     | Yes       |
| 13      | 5710                 | 17               | 8.2             | 441     | Yes       |
| 14      | 5730                 | 16               | 7.2             | 323     | No        |
| 15      | 5720                 | 18               | 9.5             | 297     | Yes       |
| 16      | 5711                 | 17               | 8               | 412     | Yes       |
| 17      | 5722                 | 18               | 10              | 324     | Yes       |
| 18      | 5724                 | 17               | 7.4             | 271     | Yes       |
| 19      | 5723                 | 17               | 7.9             | 349     | Yes       |
| 20      | 5729                 | 16               | 7.3             | 409     | Yes       |
| 21      | 5725                 | 18               | 8.7             | 373     | Yes       |
| 22      | 5714                 | 16               | 7.2             | 254     | Yes       |
| 23      | 5711                 | 18               | 9.9             | 274     | Yes       |
| 24      | 5712                 | 17               | 7.9             | 278     | Yes       |
| 25      | 5713                 | 17               | 7.5             | 317     | Yes       |
| 26      | 5722                 | 16               | 6.1             | 260     | Yes       |
| 27      | 5724                 | 18               | 8.8             | 211     | Yes       |
| 28      | 5727                 | 18               | 9.7             | 272     | Yes       |
| 29      | 5715                 | 17               | 7.4             | 264     | Yes       |
| 30      | 5716                 | 18               | 9.2             | 284     | No        |

Detection Rate: 86.67 %

# 802.11n (HT20)

## Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5714                 | 14               | 16              | 355     | Yes       |
| 2       | 5728                 | 12               | 11.3            | 487     | Yes       |
| 3       | 5721                 | 13               | 13.5            | 344     | No        |
| 4       | 5727                 | 16               | 19.4            | 288     | Yes       |
| 5       | 5730                 | 15               | 17.5            | 230     | No        |
| 6       | 5716                 | 14               | 15.3            | 432     | No        |
| 7       | 5713                 | 14               | 15.9            | 207     | Yes       |
| 8       | 5722                 | 13               | 14.3            | 443     | Yes       |
| 9       | 5723                 | 14               | 15.8            | 439     | Yes       |
| 10      | 5710                 | 12               | 11.5            | 223     | Yes       |
| 11      | 5718                 | 15               | 17.4            | 208     | No        |
| 12      | 5724                 | 16               | 19              | 463     | Yes       |
| 13      | 5720                 | 14               | 16              | 441     | No        |
| 14      | 5729                 | 13               | 13.8            | 323     | Yes       |
| 15      | 5715                 | 16               | 18.9            | 297     | Yes       |
| 16      | 5717                 | 14               | 15.5            | 412     | Yes       |
| 17      | 5726                 | 16               | 19.9            | 324     | Yes       |
| 18      | 5719                 | 13               | 14.1            | 271     | Yes       |
| 19      | 5725                 | 14               | 15.2            | 349     | Yes       |
| 20      | 5712                 | 13               | 13.8            | 409     | Yes       |
| 21      | 5711                 | 15               | 17.1            | 373     | Yes       |
| 22      | 5718                 | 13               | 13.8            | 254     | Yes       |
| 23      | 5711                 | 16               | 19.8            | 274     | Yes       |
| 24      | 5730                 | 14               | 15.3            | 278     | No        |
| 25      | 5727                 | 13               | 14.5            | 317     | Yes       |
| 26      | 5726                 | 12               | 11.3            | 260     | Yes       |
| 27      | 5715                 | 15               | 17.3            | 211     | Yes       |
| 28      | 5716                 | 16               | 19.2            | 272     | Yes       |
| 29      | 5712                 | 13               | 14.2            | 264     | Yes       |
| 30      | 5723                 | 15               | 18.2            | 284     | Yes       |

Detection Rate: 80 %

## 802.11n (HT20)

| Type 5 Radar Statistical Performances |                          |                            |                  |                       |
|---------------------------------------|--------------------------|----------------------------|------------------|-----------------------|
| Trial #                               | Minimum Chirp Width(MHz) | ChirpCenter Frequency(MHz) | Test Signal Name | Detection             |
| 1                                     | 15                       | 5720.0                     | LP_Signal_01     | Yes                   |
| 2                                     | 14                       | 5720.0                     | LP_Signal_02     | Yes                   |
| 3                                     | 7                        | 5720.0                     | LP_Signal_03     | Yes                   |
| 4                                     | 11                       | 5720.0                     | LP_Signal_04     | Yes                   |
| 5                                     | 20                       | 5720.0                     | LP_Signal_05     | Yes                   |
| 6                                     | 15                       | 5720.0                     | LP_Signal_06     | Yes                   |
| 7                                     | 8                        | 5720.0                     | LP_Signal_07     | Yes                   |
| 8                                     | 16                       | 5720.0                     | LP_Signal_08     | Yes                   |
| 9                                     | 19                       | 5720.0                     | LP_Signal_09     | Yes                   |
| 10                                    | 19                       | 5720.0                     | LP_Signal_10     | Yes                   |
| 11                                    | 16                       | 5717.1                     | LP_Signal_11     | Yes                   |
| 12                                    | 19                       | 5718.3                     | LP_Signal_12     | Yes                   |
| 13                                    | 13                       | 5715.9                     | LP_Signal_13     | Yes                   |
| 14                                    | 10                       | 5714.7                     | LP_Signal_14     | Yes                   |
| 15                                    | 18                       | 5717.9                     | LP_Signal_15     | Yes                   |
| 16                                    | 12                       | 5715.5                     | LP_Signal_16     | Yes                   |
| 17                                    | 20                       | 5718.7                     | LP_Signal_17     | Yes                   |
| 18                                    | 10                       | 5714.7                     | LP_Signal_18     | Yes                   |
| 19                                    | 12                       | 5715.5                     | LP_Signal_19     | Yes                   |
| 20                                    | 10                       | 5714.7                     | LP_Signal_20     | Yes                   |
| 21                                    | 15                       | 5723.2                     | LP_Signal_21     | Yes                   |
| 22                                    | 9                        | 5725.0                     | LP_Signal_22     | Yes                   |
| 23                                    | 20                       | 5712.2                     | LP_Signal_23     | Yes                   |
| 24                                    | 12                       | 5724.4                     | LP_Signal_24     | Yes                   |
| 25                                    | 11                       | 5724.8                     | LP_Signal_25     | Yes                   |
| 26                                    | 5                        | 5725.0                     | LP_Signal_26     | Yes                   |
| 27                                    | 16                       | 5722.8                     | LP_Signal_27     | Yes                   |
| 28                                    | 19                       | 5721.6                     | LP_Signal_28     | Yes                   |
| 29                                    | 10                       | 5725.0                     | LP_Signal_29     | Yes                   |
| 30                                    | 17                       | 5722.4                     | LP_Signal_30     | Yes                   |
|                                       |                          |                            |                  | Detection Rate: 100 % |

The Long Pulse Radar pattern shown in AppendixA.1



## 802.11n (HT20)

### 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   | 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   | 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   | 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: 96.67 %

## 802.11n (HT20)

| 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                 | 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                 | 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                 | 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: 96.67 % |

The Frequency Hopping Radar pattern shown in AppendixA.2

**802.11n (HT40)**
**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       | 5694                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2       | 5715                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3       | 5707                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4       | 5721                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5       | 5702                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6       | 5725                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7       | 5699                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8       | 5711                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9       | 5693                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10      | 5708                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11      | 5691                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12      | 5726                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13      | 5729                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14      | 5704                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15      | 5723                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16      | 5720                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17      | 5719                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18      | 5695                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19      | 5727                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20      | 5724                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21      | 5705                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22      | 5722                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23      | 5716                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24      | 5714                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25      | 5696                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26      | 5713                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27      | 5717                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28      | 5706                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29      | 5692                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30      | 5712                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |

Detection Rate: 100%

## 802.11n (HT40)

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5704                 | 29               | 4.9             | 210     | Yes       |
| 2       | 5711                 | 24               | 1.7             | 178     | Yes       |
| 3       | 5715                 | 25               | 2.1             | 173     | Yes       |
| 4       | 5701                 | 28               | 4               | 222     | Yes       |
| 5       | 5695                 | 27               | 3.6             | 219     | Yes       |
| 6       | 5724                 | 29               | 5               | 212     | Yes       |
| 7       | 5727                 | 29               | 4.9             | 176     | Yes       |
| 8       | 5706                 | 23               | 1.1             | 199     | Yes       |
| 9       | 5722                 | 23               | 1.2             | 162     | Yes       |
| 10      | 5705                 | 29               | 4.5             | 220     | Yes       |
| 11      | 5709                 | 29               | 5               | 229     | Yes       |
| 12      | 5710                 | 29               | 5               | 214     | Yes       |
| 13      | 5699                 | 25               | 2.4             | 153     | Yes       |
| 14      | 5729                 | 28               | 4.1             | 197     | Yes       |
| 15      | 5719                 | 24               | 2               | 211     | Yes       |
| 16      | 5697                 | 29               | 4.6             | 190     | Yes       |
| 17      | 5713                 | 23               | 1               | 213     | No        |
| 18      | 5720                 | 25               | 2.4             | 218     | Yes       |
| 19      | 5709                 | 26               | 3.2             | 215     | Yes       |
| 20      | 5696                 | 26               | 3.1             | 157     | Yes       |
| 21      | 5694                 | 25               | 2.7             | 168     | Yes       |
| 22      | 5716                 | 25               | 2.6             | 227     | Yes       |
| 23      | 5707                 | 24               | 2               | 171     | Yes       |
| 24      | 5698                 | 23               | 1.1             | 158     | Yes       |
| 25      | 5702                 | 23               | 1               | 167     | Yes       |
| 26      | 5691                 | 29               | 4.9             | 150     | Yes       |
| 27      | 5708                 | 29               | 4.8             | 191     | Yes       |
| 28      | 5718                 | 25               | 2.3             | 159     | No        |
| 29      | 5717                 | 28               | 4.3             | 226     | Yes       |
| 30      | 5726                 | 26               | 3.3             | 208     | Yes       |

Detection Rate: 93.33 %

## 802.11n (HT40)

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5716                 | 18               | 9.9             | 235     | Yes       |
| 2       | 5694                 | 16               | 6.7             | 357     | Yes       |
| 3       | 5693                 | 16               | 7.1             | 333     | No        |
| 4       | 5720                 | 18               | 9               | 242     | Yes       |
| 5       | 5709                 | 17               | 8.6             | 397     | Yes       |
| 6       | 5696                 | 18               | 10              | 302     | Yes       |
| 7       | 5718                 | 18               | 9.9             | 203     | Yes       |
| 8       | 5705                 | 16               | 6.1             | 428     | Yes       |
| 9       | 5699                 | 16               | 6.2             | 335     | Yes       |
| 10      | 5712                 | 18               | 9.5             | 240     | Yes       |
| 11      | 5704                 | 18               | 10              | 224     | Yes       |
| 12      | 5700                 | 18               | 10              | 410     | Yes       |
| 13      | 5701                 | 17               | 7.4             | 359     | Yes       |
| 14      | 5717                 | 18               | 9.1             | 269     | Yes       |
| 15      | 5698                 | 16               | 7               | 250     | No        |
| 16      | 5713                 | 18               | 9.6             | 247     | No        |
| 17      | 5727                 | 16               | 6               | 222     | Yes       |
| 18      | 5691                 | 17               | 7.4             | 424     | Yes       |
| 19      | 5721                 | 17               | 8.2             | 393     | Yes       |
| 20      | 5723                 | 17               | 8.1             | 382     | Yes       |
| 21      | 5710                 | 17               | 7.7             | 486     | Yes       |
| 22      | 5714                 | 17               | 7.6             | 480     | Yes       |
| 23      | 5726                 | 16               | 7               | 360     | Yes       |
| 24      | 5697                 | 16               | 6.1             | 297     | Yes       |
| 25      | 5703                 | 16               | 6               | 265     | Yes       |
| 26      | 5722                 | 18               | 9.9             | 263     | Yes       |
| 27      | 5728                 | 18               | 9.8             | 324     | No        |
| 28      | 5725                 | 17               | 7.3             | 386     | Yes       |
| 29      | 5702                 | 18               | 9.3             | 311     | Yes       |
| 30      | 5692                 | 17               | 8.3             | 378     | Yes       |

Detection Rate: 86.67 %

# 802.11n (HT40))

## Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5719                 | 16               | 19.7            | 235     | Yes       |
| 2       | 5702                 | 12               | 12.7            | 357     | Yes       |
| 3       | 5729                 | 13               | 13.6            | 333     | Yes       |
| 4       | 5696                 | 15               | 17.7            | 242     | Yes       |
| 5       | 5711                 | 15               | 16.8            | 397     | Yes       |
| 6       | 5706                 | 16               | 20              | 302     | No        |
| 7       | 5701                 | 16               | 19.7            | 203     | Yes       |
| 8       | 5715                 | 12               | 11.3            | 428     | No        |
| 9       | 5698                 | 12               | 11.5            | 335     | Yes       |
| 10      | 5700                 | 16               | 18.8            | 240     | Yes       |
| 11      | 5728                 | 16               | 20              | 224     | Yes       |
| 12      | 5694                 | 16               | 20              | 410     | Yes       |
| 13      | 5697                 | 13               | 14.2            | 359     | Yes       |
| 14      | 5707                 | 15               | 18              | 269     | No        |
| 15      | 5716                 | 13               | 13.3            | 250     | Yes       |
| 16      | 5693                 | 16               | 19              | 247     | Yes       |
| 17      | 5709                 | 12               | 11.1            | 222     | No        |
| 18      | 5725                 | 13               | 14.2            | 424     | Yes       |
| 19      | 5695                 | 14               | 15.9            | 393     | No        |
| 20      | 5721                 | 14               | 15.8            | 382     | Yes       |
| 21      | 5704                 | 14               | 14.8            | 486     | Yes       |
| 22      | 5712                 | 13               | 14.6            | 480     | Yes       |
| 23      | 5718                 | 13               | 13.2            | 360     | Yes       |
| 24      | 5720                 | 12               | 11.3            | 297     | Yes       |
| 25      | 5691                 | 12               | 11              | 265     | Yes       |
| 26      | 5727                 | 16               | 19.6            | 263     | Yes       |
| 27      | 5717                 | 16               | 19.6            | 324     | Yes       |
| 28      | 5710                 | 13               | 14              | 386     | Yes       |
| 29      | 5722                 | 16               | 18.3            | 311     | Yes       |
| 30      | 5705                 | 14               | 16.1            | 378     | No        |

Detection Rate: 80 %

## 802.11n (HT40)

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | ChirpCenter Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|----------------------------|------------------|-----------|
| 1       | 6                        | 5710.0                     | LP_Signal_01     | Yes       |
| 2       | 18                       | 5710.0                     | LP_Signal_02     | Yes       |
| 3       | 7                        | 5710.0                     | LP_Signal_03     | Yes       |
| 4       | 20                       | 5710.0                     | LP_Signal_04     | Yes       |
| 5       | 12                       | 5710.0                     | LP_Signal_05     | Yes       |
| 6       | 15                       | 5710.0                     | LP_Signal_06     | Yes       |
| 7       | 14                       | 5710.0                     | LP_Signal_07     | Yes       |
| 8       | 19                       | 5710.0                     | LP_Signal_08     | Yes       |
| 9       | 5                        | 5710.0                     | LP_Signal_09     | No        |
| 10      | 6                        | 5710.0                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5697.9                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5699.1                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5696.7                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5695.5                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5698.7                     | LP_Signal_15     | Yes       |
| 16      | 12                       | 5696.3                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5699.5                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5695.5                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5696.3                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5695.5                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5722.5                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5724.9                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5720.5                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5723.7                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5714.1                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5725.0                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5722.1                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5720.9                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5724.5                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5721.7                     | LP_Signal_30     | Yes       |

Detection Rate: 96.67 %

The Long Pulse Radar pattern shown in AppendixA.1

## 802.11n (HT40)

### 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   | 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: 100 %



## 802.11n (HT40)

| 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                 | 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: 100 % |

The Frequency Hopping Radar pattern shown in AppendixA.2

# 802.11ac (VHT80)

## 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       | 5707                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2       | 5676                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3       | 5683                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4       | 5706                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5       | 5669                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6       | 5673                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7       | 5668                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8       | 5675                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9       | 5665                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10      | 5708                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11      | 5715                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12      | 5662                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13      | 5709                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14      | 5661                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15      | 5681                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16      | 5654                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17      | 5667                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18      | 5680                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19      | 5678                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20      | 5670                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21      | 5671                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22      | 5659                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23      | 5692                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24      | 5685                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25      | 5674                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26      | 5722                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27      | 5700                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28      | 5699                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29      | 5716                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30      | 5657                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |

Detection Rate: 100 %

# 802.11ac (VHT80)

## Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5672                 | 23               | 1.3             | 228     | Yes       |
| 2       | 5701                 | 26               | 3.2             | 172     | Yes       |
| 3       | 5711                 | 27               | 3.9             | 212     | No        |
| 4       | 5680                 | 24               | 1.9             | 213     | No        |
| 5       | 5689                 | 27               | 3.6             | 150     | Yes       |
| 6       | 5679                 | 26               | 3.3             | 158     | No        |
| 7       | 5702                 | 29               | 4.9             | 210     | Yes       |
| 8       | 5675                 | 23               | 1.3             | 223     | Yes       |
| 9       | 5722                 | 29               | 4.9             | 152     | Yes       |
| 10      | 5682                 | 27               | 3.3             | 190     | Yes       |
| 11      | 5661                 | 25               | 2.7             | 203     | Yes       |
| 12      | 5660                 | 29               | 5               | 227     | Yes       |
| 13      | 5663                 | 26               | 3.3             | 196     | Yes       |
| 14      | 5683                 | 28               | 4.4             | 198     | Yes       |
| 15      | 5659                 | 24               | 1.9             | 161     | Yes       |
| 16      | 5677                 | 27               | 3.6             | 226     | Yes       |
| 17      | 5664                 | 26               | 2.8             | 181     | No        |
| 18      | 5651                 | 25               | 2.5             | 167     | Yes       |
| 19      | 5657                 | 23               | 1.3             | 178     | Yes       |
| 20      | 5717                 | 25               | 2.4             | 187     | No        |
| 21      | 5709                 | 29               | 4.8             | 153     | Yes       |
| 22      | 5686                 | 27               | 3.5             | 201     | Yes       |
| 23      | 5705                 | 23               | 1.3             | 166     | Yes       |
| 24      | 5684                 | 29               | 4.8             | 155     | No        |
| 25      | 5715                 | 28               | 4.3             | 221     | No        |
| 26      | 5699                 | 26               | 3.2             | 191     | Yes       |
| 27      | 5714                 | 24               | 1.7             | 192     | Yes       |
| 28      | 5654                 | 23               | 1.2             | 164     | Yes       |
| 29      | 5676                 | 25               | 2.4             | 154     | Yes       |
| 30      | 5666                 | 29               | 5               | 207     | Yes       |

Detection Rate: 76.67 %

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

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5670                 | 16               | 6.3             | 403     | No        |
| 2       | 5701                 | 17               | 8.2             | 313     | Yes       |
| 3       | 5703                 | 18               | 8.9             | 214     | Yes       |
| 4       | 5668                 | 16               | 6.9             | 262     | Yes       |
| 5       | 5711                 | 17               | 8.6             | 273     | Yes       |
| 6       | 5690                 | 17               | 8.3             | 470     | Yes       |
| 7       | 5709                 | 18               | 9.9             | 453     | No        |
| 8       | 5725                 | 16               | 6.3             | 378     | Yes       |
| 9       | 5659                 | 18               | 9.9             | 483     | Yes       |
| 10      | 5691                 | 17               | 8.3             | 317     | Yes       |
| 11      | 5675                 | 17               | 7.7             | 385     | No        |
| 12      | 5660                 | 18               | 10              | 275     | Yes       |
| 13      | 5704                 | 17               | 8.3             | 497     | Yes       |
| 14      | 5717                 | 18               | 9.4             | 420     | Yes       |
| 15      | 5716                 | 16               | 6.9             | 366     | Yes       |
| 16      | 5678                 | 17               | 8.6             | 414     | Yes       |
| 17      | 5694                 | 17               | 7.8             | 444     | Yes       |
| 18      | 5667                 | 17               | 7.5             | 427     | Yes       |
| 19      | 5713                 | 16               | 6.3             | 338     | Yes       |
| 20      | 5724                 | 17               | 7.4             | 436     | No        |
| 21      | 5715                 | 18               | 9.8             | 265     | Yes       |
| 22      | 5665                 | 17               | 8.5             | 451     | Yes       |
| 23      | 5699                 | 16               | 6.3             | 274     | No        |
| 24      | 5681                 | 18               | 9.8             | 417     | Yes       |
| 25      | 5677                 | 18               | 9.3             | 330     | Yes       |
| 26      | 5676                 | 17               | 8.2             | 472     | Yes       |
| 27      | 5671                 | 16               | 6.7             | 333     | No        |
| 28      | 5672                 | 16               | 6.2             | 377     | Yes       |
| 29      | 5723                 | 17               | 7.4             | 394     | Yes       |
| 30      | 5679                 | 18               | 10              | 296     | Yes       |

Detection Rate: 80 %

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

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5654                 | 12               | 11.7            | 403     | Yes       |
| 2       | 5685                 | 14               | 15.9            | 313     | Yes       |
| 3       | 5672                 | 15               | 17.4            | 214     | Yes       |
| 4       | 5651                 | 13               | 13.2            | 262     | No        |
| 5       | 5674                 | 15               | 16.8            | 273     | Yes       |
| 6       | 5656                 | 14               | 16.1            | 470     | Yes       |
| 7       | 5711                 | 16               | 19.8            | 453     | Yes       |
| 8       | 5700                 | 12               | 11.7            | 378     | Yes       |
| 9       | 5707                 | 16               | 19.8            | 483     | Yes       |
| 10      | 5660                 | 14               | 16.2            | 317     | Yes       |
| 11      | 5652                 | 14               | 14.8            | 385     | Yes       |
| 12      | 5705                 | 16               | 19.9            | 275     | Yes       |
| 13      | 5699                 | 14               | 16.1            | 497     | Yes       |
| 14      | 5664                 | 16               | 18.6            | 420     | Yes       |
| 15      | 5665                 | 13               | 13.2            | 366     | Yes       |
| 16      | 5666                 | 15               | 16.9            | 414     | Yes       |
| 17      | 5722                 | 14               | 15              | 444     | No        |
| 18      | 5668                 | 13               | 14.4            | 427     | Yes       |
| 19      | 5655                 | 12               | 11.7            | 338     | No        |
| 20      | 5694                 | 13               | 14.2            | 436     | Yes       |
| 21      | 5713                 | 16               | 19.6            | 265     | Yes       |
| 22      | 5653                 | 15               | 16.5            | 451     | Yes       |
| 23      | 5701                 | 12               | 11.7            | 274     | No        |
| 24      | 5686                 | 16               | 19.4            | 417     | Yes       |
| 25      | 5659                 | 16               | 18.3            | 330     | Yes       |
| 26      | 5676                 | 14               | 15.9            | 472     | Yes       |
| 27      | 5689                 | 12               | 12.5            | 333     | No        |
| 28      | 5697                 | 12               | 11.5            | 377     | Yes       |
| 29      | 5669                 | 13               | 14.2            | 394     | Yes       |
| 30      | 5667                 | 16               | 19.8            | 296     | Yes       |

Detection Rate: 83.33 %

## 802.11ac (VHT80)

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | ChirpCenter Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|----------------------------|------------------|-----------|
| 1       | 12                       | 5690.0                     | LP_Signal_01     | Yes       |
| 2       | 13                       | 5690.0                     | LP_Signal_02     | Yes       |
| 3       | 18                       | 5690.0                     | LP_Signal_03     | Yes       |
| 4       | 13                       | 5690.0                     | LP_Signal_04     | Yes       |
| 5       | 15                       | 5690.0                     | LP_Signal_05     | Yes       |
| 6       | 12                       | 5690.0                     | LP_Signal_06     | Yes       |
| 7       | 18                       | 5690.0                     | LP_Signal_07     | Yes       |
| 8       | 12                       | 5690.0                     | LP_Signal_08     | Yes       |
| 9       | 6                        | 5690.0                     | LP_Signal_09     | Yes       |
| 10      | 10                       | 5690.0                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5658.1                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5659.3                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5656.9                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5665.7                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5658.9                     | LP_Signal_15     | Yes       |
| 16      | 12                       | 5656.5                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5659.7                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5655.7                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5656.5                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5655.7                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5722.2                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5724.6                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5720.2                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5723.4                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5723.8                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5725.0                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5721.8                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5720.6                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5724.2                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5721.4                     | LP_Signal_30     | Yes       |

Detection Rate: 100 %

The Long Pulse Radar pattern shown in AppendixA.1

## 802.11ac (VHT80)

### 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   | 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: 100 %

## 802.11ac (VHT80)

| 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                 | 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: 100 % |

The Frequency Hopping Radar pattern shown in AppendixA.2



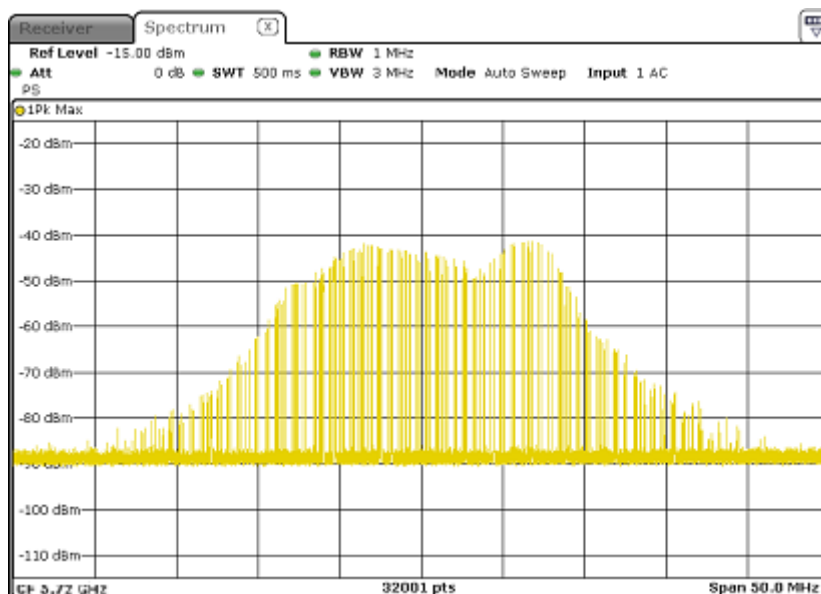
### 6.1.3 Non-Occupancy Period

#### Associate test:

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

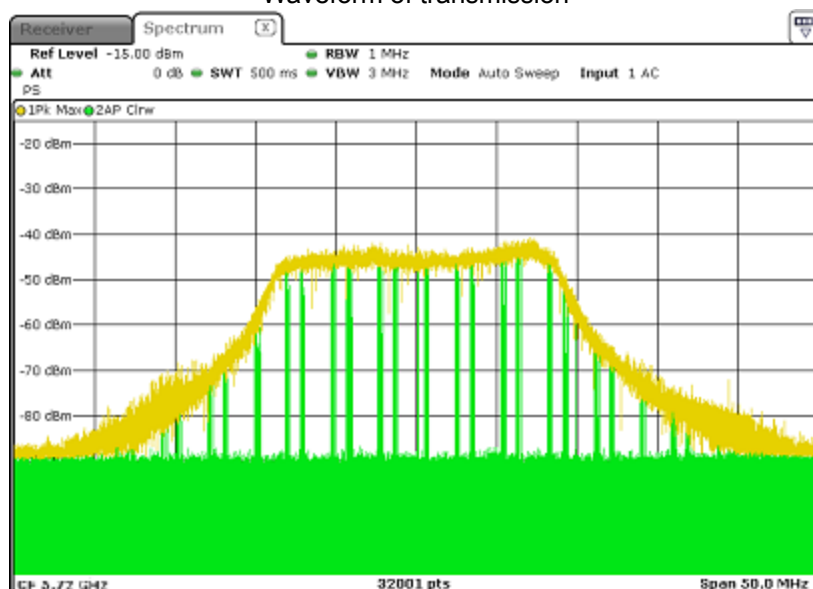
- 1) Client links with master on 5720MHz.

Waveform of EUT links up with Master



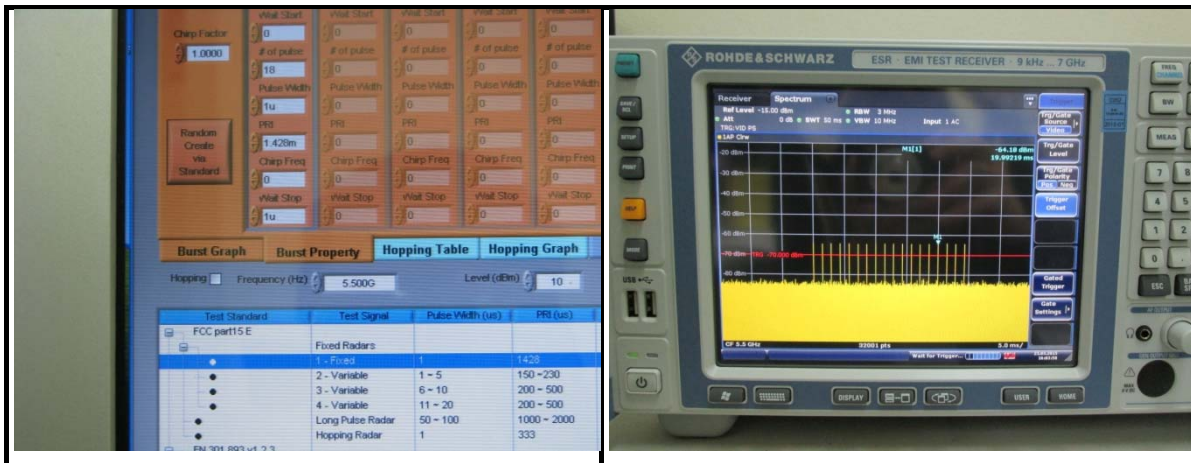
- 2) Client plays specified files via master.

Waveform of transmission



3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

### Radar 0



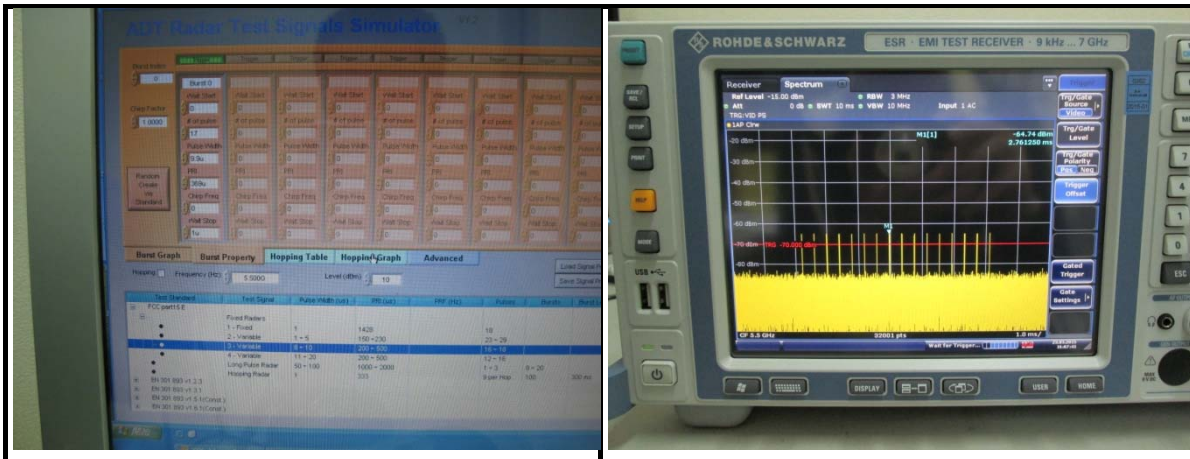
### Radar 1



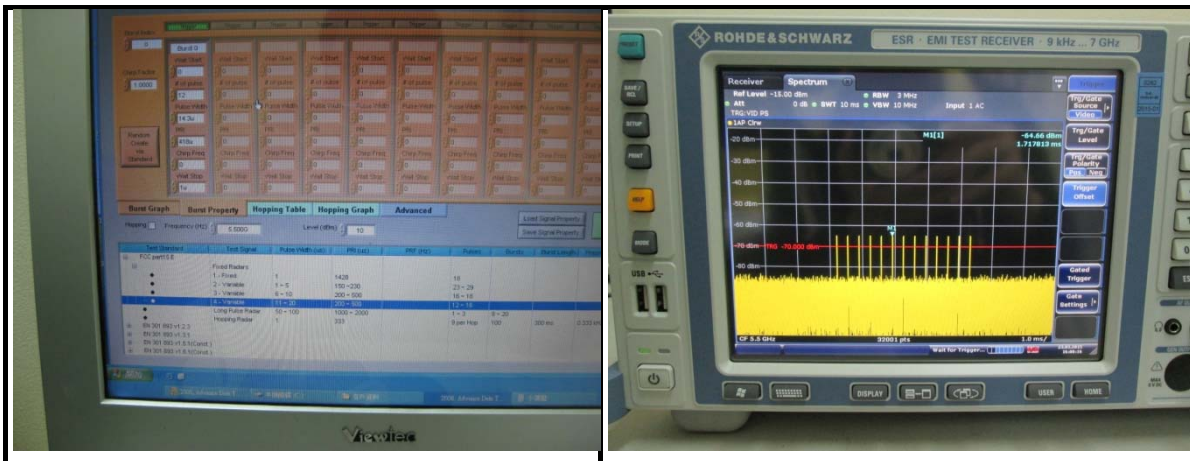
### Radar 2



Radar 3



Radar 4



Radar 5





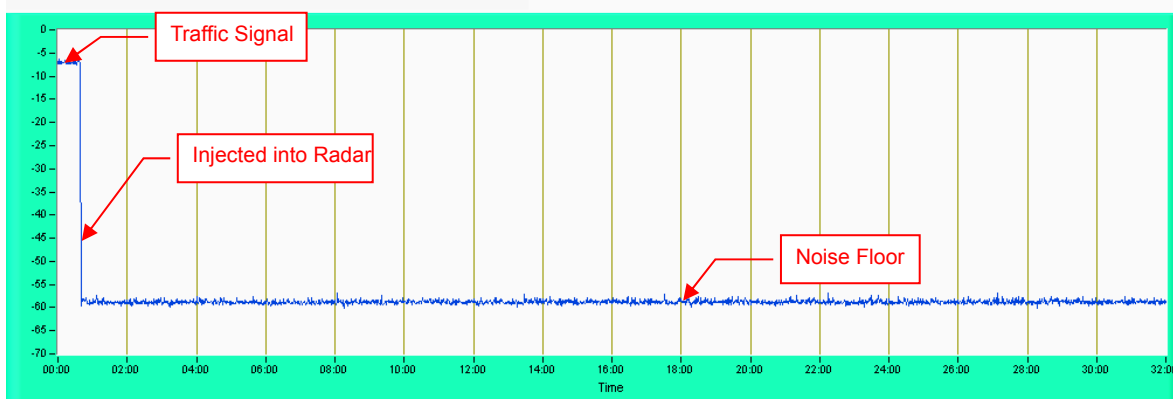
## Radar 6



4) 5720MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

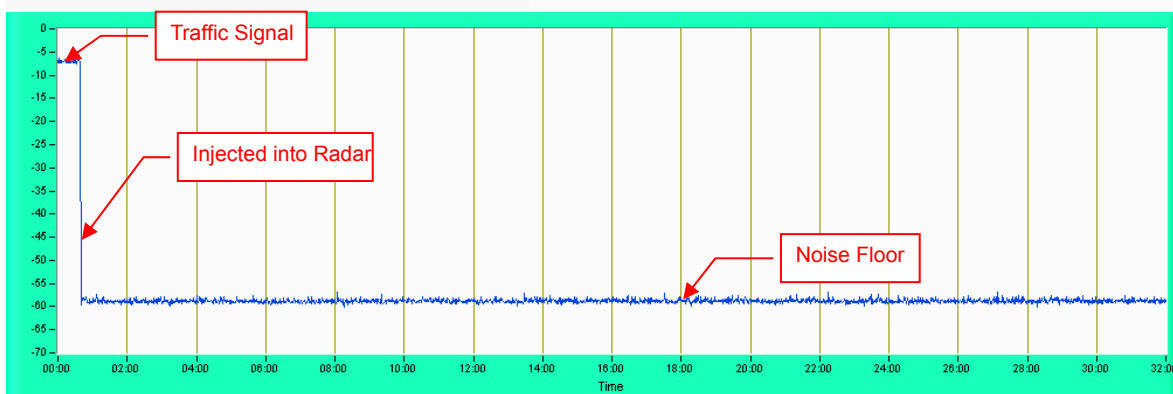
Plot of 30minutes period

### 802.11n HT20 (Master Mode)



Nte: Test setup are shown on Test setup photo.pdf

### 802.11n HT20 (Client Mode)

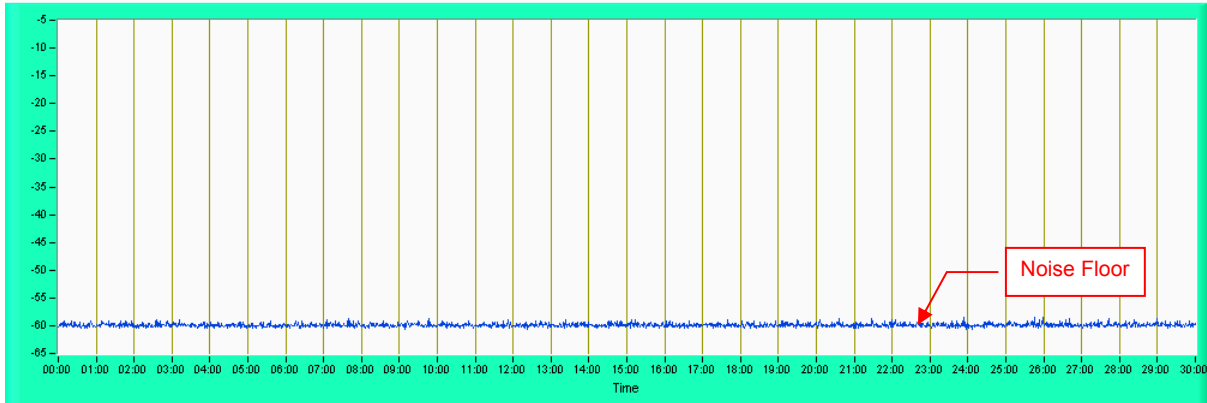


Nte: Test setup are shown on Test setup photo.pdf

#### 6.1.4 Non-Associated Test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.



## 7 Information of 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 FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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

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## 8 Appendix-A

### Radar Test Signal

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

##### 802.11n (HT20)

| Long Pulse Radar Test Signal     |                  |             |                 |            |            |            |
|----------------------------------|------------------|-------------|-----------------|------------|------------|------------|
| Test Signal Name: LP_Signal_01   |                  |             |                 |            |            |            |
| Number of Bursts in Trial: 15    |                  |             |                 |            |            |            |
| Chrip Center Frequency 5720.0MHz |                  |             |                 |            |            |            |
| Burst                            | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 1                                | 2                | 15          | 77.8            | 1665.0     | 1477.0     | -          |
| 2                                | 1                | 15          | 51.9            | 1074.0     | -          | -          |
| 3                                | 1                | 15          | 63.8            | 1584.0     | -          | -          |
| 4                                | 3                | 15          | 96.6            | 1682.0     | 1786.0     | 1843.0     |
| 5                                | 3                | 15          | 85.9            | 1795.0     | 1215.0     | 1729.0     |
| 6                                | 2                | 15          | 73.7            | 1198.0     | 1549.0     | -          |
| 7                                | 2                | 15          | 77.2            | 1837.0     | 1819.0     | -          |
| 8                                | 2                | 15          | 68.4            | 1587.0     | 1114.0     | -          |
| 9                                | 2                | 15          | 76.7            | 2000.0     | 1155.0     | -          |
| 10                               | 1                | 15          | 53.2            | 1147.0     | -          | -          |
| 11                               | 3                | 15          | 85.7            | 1433.0     | 1695.0     | 1394.0     |
| 12                               | 3                | 15          | 94.3            | 1670.0     | 1426.0     | 1935.0     |
| 13                               | 2                | 15          | 77.6            | 1294.0     | 1671.0     | -          |
| 14                               | 1                | 15          | 65.7            | 1512.0     | -          | -          |
| 15                               | 3                | 15          | 93.5            | 1444.0     | 1130.0     | 1468.0     |
| 16                               |                  |             |                 |            |            |            |
| 17                               |                  |             |                 |            |            |            |
| 18                               |                  |             |                 |            |            |            |
| 19                               |                  |             |                 |            |            |            |
| 20                               |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 14          | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 14          | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 14          | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 14          | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 14          | 65.9            | 1432.0     | -          | -          |
| 6     | 3                | 14          | 83.8            | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                | 14          | 65.5            | 1543.0     | -          | -          |
| 8     | 3                | 14          | 98.6            | 1548.0     | 1796.0     | 1728.0     |
| 9     |                  |             |                 |            |            |            |
| 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

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 7           | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 7           | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 7           | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 7           | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 7           | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 7           | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 7           | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 7           | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 7           | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 7           | 91.3            | 1961.0     | 1106.0     | 1001.0     |
| 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: 20

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 11          | 68.1            | 1339.0     | 1355.0     | -          |
| 2     | 1                | 11          | 58.7            | 1251.0     | -          | -          |
| 3     | 2                | 11          | 75.3            | 1136.0     | 1640.0     | -          |
| 4     | 1                | 11          | 56.4            | 1753.0     | -          | -          |
| 5     | 3                | 11          | 99.7            | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                | 11          | 57.7            | 1013.0     | -          | -          |
| 7     | 1                | 11          | 59.5            | 1072.0     | -          | -          |
| 8     | 2                | 11          | 80.0            | 1482.0     | 1369.0     | -          |
| 9     | 2                | 11          | 82.0            | 1993.0     | 1197.0     | -          |
| 10    | 2                | 11          | 82.8            | 1883.0     | 1005.0     | -          |
| 11    | 3                | 11          | 88.0            | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                | 11          | 93.2            | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                | 11          | 70.4            | 1526.0     | 1360.0     | -          |
| 14    | 3                | 11          | 95.3            | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                | 11          | 81.9            | 1690.0     | 1545.0     | -          |
| 16    | 3                | 11          | 98.5            | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                | 11          | 65.0            | 1767.0     | -          | -          |
| 18    | 3                | 11          | 85.4            | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                | 11          | 91.6            | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                | 11          | 67.3            | 1091.0     | 1218.0     | -          |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 17

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 20          | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 20          | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 20          | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 20          | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 20          | 83.9            | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                | 20          | 89.1            | 1240.0     | 1384.0     | 1939.0     |
| 8     | 2                | 20          | 81.8            | 1833.0     | 1676.0     | -          |
| 9     | 1                | 20          | 50.3            | 1075.0     | -          | -          |
| 10    | 3                | 20          | 87.1            | 1116.0     | 1996.0     | 1756.0     |
| 11    | 2                | 20          | 71.3            | 1225.0     | 1815.0     | -          |
| 12    | 3                | 20          | 97.5            | 1884.0     | 1465.0     | 1132.0     |
| 13    | 3                | 20          | 90.6            | 1561.0     | 1040.0     | 1354.0     |
| 14    | 3                | 20          | 86.3            | 1596.0     | 1183.0     | 1792.0     |
| 15    | 3                | 20          | 97.6            | 1365.0     | 1073.0     | 1361.0     |
| 16    | 3                | 20          | 84.7            | 1021.0     | 1718.0     | 1854.0     |
| 17    | 3                | 20          | 99.7            | 1150.0     | 1244.0     | 1988.0     |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 14

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 15          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 15          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 15          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 15          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 15          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 15          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 15          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 15          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 15          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 15          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 15          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 15          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 15          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 15          | 74.5            | 1264.0     | 1846.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 15

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 8           | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 8           | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 8           | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 8           | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 8           | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 8           | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 8           | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 8           | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 8           | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 8           | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 8           | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 8           | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 8           | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 8           | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 8           | 90.6            | 1233.0     | 1562.0     | 1887.0     |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 12

Chirp Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 16          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 16          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 16          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 16          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 16          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 16          | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 16          | 67.6            | 1175.0     | 1027.0     | -          |
| 8     | 2                | 16          | 75.7            | 1026.0     | 1871.0     | -          |
| 9     | 1                | 16          | 60.9            | 1798.0     | -          | -          |
| 10    | 1                | 16          | 64.2            | 1138.0     | -          | -          |
| 11    | 2                | 16          | 78.8            | 1784.0     | 1604.0     | -          |
| 12    | 3                | 16          | 87.5            | 1511.0     | 1712.0     | 1683.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 14

Chrip Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 19          | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 19          | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 19          | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 19          | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 19          | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 19          | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 19          | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 19          | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 19          | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 19          | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 19          | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 19          | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 19          | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 19          | 64.3            | 1937.0     | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chrip Center Frequency: 5720.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 19          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 19          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 19          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 19          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 19          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 19          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 19          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 19          | 95.4            | 1580.0     | 1555.0     | 1791.0     |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 17

Chirp Center Frequency: 5717.1MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |
| 4     | 1                | 16          | 66.2            | 1393.0     | -          | -          |
| 5     | 2                | 16          | 70.8            | 1968.0     | 1821.0     | -          |
| 6     | 1                | 16          | 52.3            | 1740.0     | -          | -          |
| 7     | 2                | 16          | 78.9            | 1308.0     | 1984.0     | -          |
| 8     | 2                | 16          | 70.9            | 1050.0     | 1358.0     | -          |
| 9     | 2                | 16          | 75.6            | 1437.0     | 1430.0     | -          |
| 10    | 1                | 16          | 59.1            | 1697.0     | -          | -          |
| 11    | 2                | 16          | 77.0            | 1397.0     | 1304.0     | -          |
| 12    | 2                | 16          | 67.9            | 1803.0     | 1083.0     | -          |
| 13    | 2                | 16          | 81.2            | 1720.0     | 1932.0     | -          |
| 14    | 2                | 16          | 78.7            | 1247.0     | 1121.0     | -          |
| 15    | 1                | 16          | 63.3            | 1634.0     | -          | -          |
| 16    | 2                | 16          | 68.9            | 1849.0     | 1423.0     | -          |
| 17    | 1                | 16          | 59.3            | 1093.0     | -          | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5718.3MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 98.9            | 1381.0     | 1680.0     | 1488.0     |
| 2     | 2                | 19          | 82.3            | 1716.0     | 1855.0     | -          |
| 3     | 3                | 19          | 86.7            | 1211.0     | 1400.0     | 1919.0     |
| 4     | 3                | 19          | 89.7            | 1861.0     | 1068.0     | 1282.0     |
| 5     | 3                | 19          | 98.6            | 1507.0     | 1194.0     | 1461.0     |
| 6     | 2                | 19          | 71.1            | 1921.0     | 1789.0     | -          |
| 7     | 1                | 19          | 55.9            | 1947.0     | -          | -          |
| 8     | 2                | 19          | 67.9            | 1350.0     | 1372.0     | -          |
| 9     | 3                | 19          | 84.4            | 1203.0     | 1107.0     | 1443.0     |
| 10    | 1                | 19          | 58.8            | 1715.0     | -          | -          |
| 11    | 1                | 19          | 65.6            | 1017.0     | -          | -          |
| 12    | 2                | 19          | 78.5            | 1911.0     | 1704.0     | -          |
| 13    | 2                | 19          | 82.3            | 1845.0     | 1686.0     | -          |
| 14    | 3                | 19          | 90.1            | 1938.0     | 1071.0     | 1266.0     |
| 15    | 3                | 19          | 90.2            | 1989.0     | 1089.0     | 1950.0     |
| 16    | 2                | 19          | 83.1            | 1943.0     | 1406.0     | -          |
| 17    | 1                | 19          | 58.8            | 1742.0     | -          | -          |
| 18    | 2                | 19          | 77.0            | 1187.0     | 1657.0     | -          |
| 19    | 1                | 19          | 55.0            | 1012.0     | -          | -          |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chirp Center Frequency: 5715.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 13          | 58.1            | 1929.0     | -          | -          |
| 2     | 1                | 13          | 52.1            | 1910.0     | -          | -          |
| 3     | 1                | 13          | 59.9            | 1971.0     | -          | -          |
| 4     | 1                | 13          | 60.2            | 1812.0     | -          | -          |
| 5     | 3                | 13          | 95.9            | 1399.0     | 1906.0     | 1608.0     |
| 6     | 2                | 13          | 79.9            | 1626.0     | 1859.0     | -          |
| 7     | 2                | 13          | 78.5            | 1238.0     | 1917.0     | -          |
| 8     | 1                | 13          | 53.8            | 1763.0     | -          | -          |
| 9     | 1                | 13          | 64.7            | 1800.0     | -          | -          |
| 10    | 1                | 13          | 61.4            | 1390.0     | -          | -          |
| 11    | 2                | 13          | 83.2            | 1692.0     | 1858.0     | -          |
| 12    | 3                | 13          | 84.7            | 1533.0     | 1677.0     | 1638.0     |
| 13    | 3                | 13          | 88.7            | 1703.0     | 1528.0     | 1058.0     |
| 14    | 2                | 13          | 78.3            | 1258.0     | 1951.0     | -          |
| 15    | 2                | 13          | 69.3            | 1731.0     | 1717.0     | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5714.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 10          | 75.3            | 1994.0     | 1612.0     | -          |
| 2     | 1                | 10          | 56.3            | 1456.0     | -          | -          |
| 3     | 2                | 10          | 67.7            | 1617.0     | 1185.0     | -          |
| 4     | 1                | 10          | 55.6            | 1337.0     | -          | -          |
| 5     | 2                | 10          | 75.2            | 1421.0     | 1267.0     | -          |
| 6     | 2                | 10          | 76.3            | 1359.0     | 1305.0     | -          |
| 7     | 3                | 10          | 85.7            | 1547.0     | 1362.0     | 1924.0     |
| 8     | 3                | 10          | 98.4            | 1873.0     | 1550.0     | 1249.0     |
| 9     | 3                | 10          | 86.4            | 1779.0     | 1439.0     | 1046.0     |
| 10    | 3                | 10          | 93.6            | 1059.0     | 1031.0     | 1452.0     |
| 11    | 1                | 10          | 63.3            | 1328.0     | -          | -          |
| 12    | 3                | 10          | 92.4            | 1412.0     | 1673.0     | 1322.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 19

Chirp Center Frequency: 5717.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 18          | 93.3            | 1983.0     | 1912.0     | 1535.0     |
| 2     | 2                | 18          | 69.1            | 1102.0     | 1794.0     | -          |
| 3     | 3                | 18          | 86.9            | 1044.0     | 1152.0     | 1148.0     |
| 4     | 3                | 18          | 84.9            | 1894.0     | 1948.0     | 1118.0     |
| 5     | 2                | 18          | 72.3            | 1094.0     | 1916.0     | -          |
| 6     | 1                | 18          | 51.7            | 1447.0     | -          | -          |
| 7     | 1                | 18          | 58.3            | 1429.0     | -          | -          |
| 8     | 1                | 18          | 60.8            | 1979.0     | -          | -          |
| 9     | 1                | 18          | 57.1            | 1641.0     | -          | -          |
| 10    | 3                | 18          | 88.9            | 1886.0     | 1964.0     | 1489.0     |
| 11    | 2                | 18          | 72.0            | 1909.0     | 1297.0     | -          |
| 12    | 3                | 18          | 90.9            | 1261.0     | 1566.0     | 1370.0     |
| 13    | 1                | 18          | 59.8            | 1552.0     | -          | -          |
| 14    | 2                | 18          | 70.0            | 1759.0     | 1291.0     | -          |
| 15    | 2                | 18          | 67.2            | 1625.0     | 1881.0     | -          |
| 16    | 3                | 18          | 91.2            | 1382.0     | 1832.0     | 1661.0     |
| 17    | 1                | 18          | 56.5            | 1483.0     | -          | -          |
| 18    | 1                | 18          | 51.2            | 1237.0     | -          | -          |
| 19    | 2                | 18          | 74.1            | 1471.0     | 1245.0     | -          |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chirp Center Frequency: 5715.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 76.9            | 1110.0     | 1140.0     | -          |
| 2     | 1                | 12          | 50.2            | 1316.0     | -          | -          |
| 3     | 1                | 12          | 62.9            | 1520.0     | -          | -          |
| 4     | 1                | 12          | 64.7            | 1902.0     | -          | -          |
| 5     | 3                | 12          | 83.8            | 1410.0     | 1097.0     | 1621.0     |
| 6     | 1                | 12          | 65.4            | 1944.0     | -          | -          |
| 7     | 1                | 12          | 53.2            | 1024.0     | -          | -          |
| 8     | 1                | 12          | 51.7            | 1603.0     | -          | -          |
| 9     | 2                | 12          | 78.7            | 1804.0     | 1168.0     | -          |
| 10    | 2                | 12          | 72.4            | 1030.0     | 1343.0     | -          |
| 11    | 1                | 12          | 53.8            | 1327.0     | -          | -          |
| 12    | 2                | 12          | 73.6            | 1524.0     | 1553.0     | -          |
| 13    | 2                | 12          | 66.7            | 1722.0     | 1122.0     | -          |
| 14    | 2                | 12          | 82.5            | 1404.0     | 1019.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

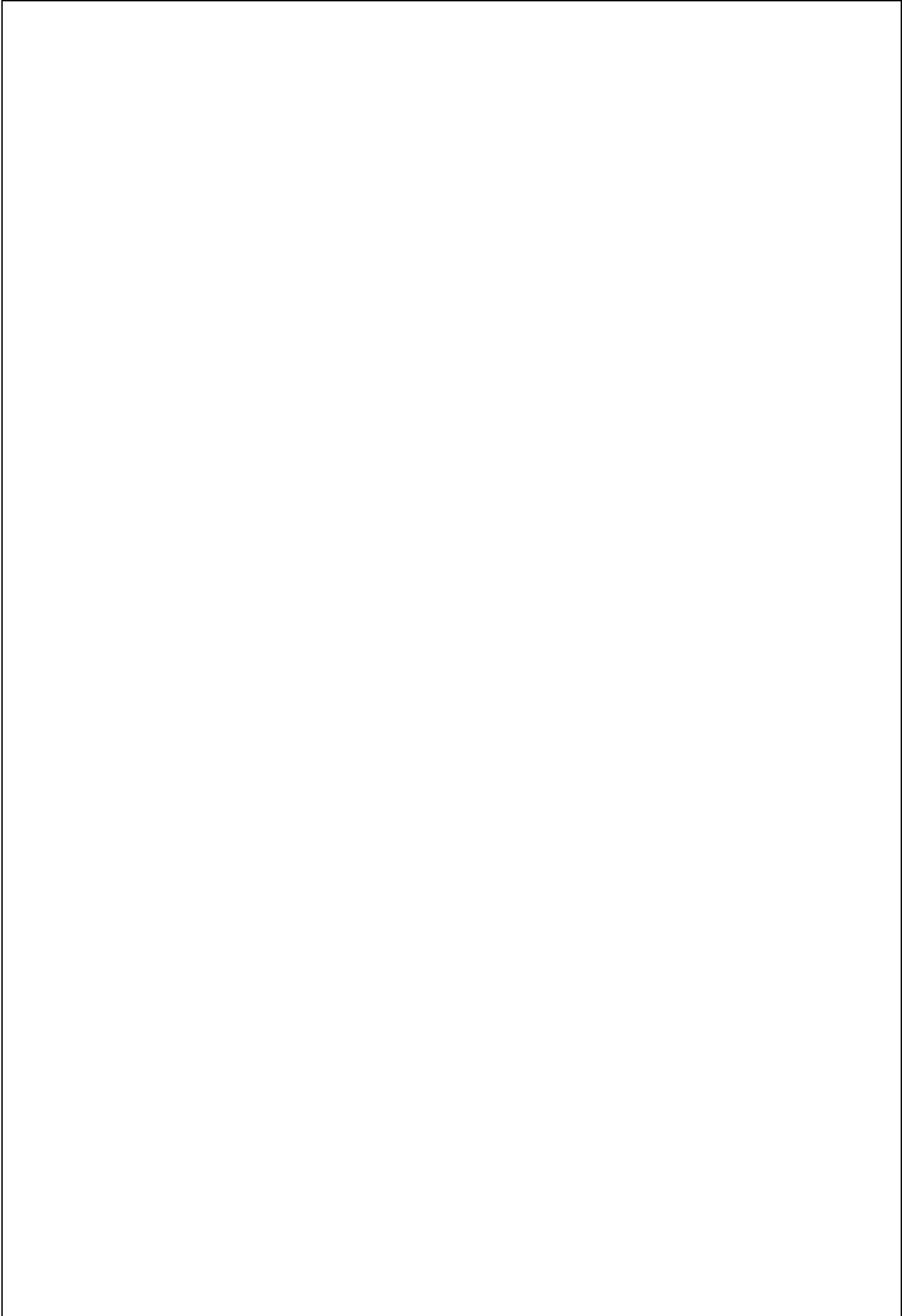
# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 20

Chirp Center Frequency: 5718.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 87.6            | 1565.0     | 1055.0     | 1840.0     |
| 2     | 3                | 20          | 85.2            | 1735.0     | 1541.0     | 1408.0     |
| 3     | 3                | 20          | 84.8            | 1534.0     | 1889.0     | 1463.0     |
| 4     | 2                | 20          | 77.9            | 1749.0     | 1460.0     | -          |
| 5     | 2                | 20          | 76.5            | 1518.0     | 1485.0     | -          |
| 6     | 1                | 20          | 60.9            | 1540.0     | -          | -          |
| 7     | 2                | 20          | 83.0            | 1080.0     | 1010.0     | -          |
| 8     | 2                | 20          | 80.4            | 1824.0     | 1752.0     | -          |
| 9     | 2                | 20          | 67.5            | 1764.0     | 1181.0     | -          |
| 10    | 1                | 20          | 62.1            | 1495.0     | -          | -          |
| 11    | 3                | 20          | 86.4            | 1773.0     | 1966.0     | 1263.0     |
| 12    | 3                | 20          | 84.3            | 1593.0     | 1188.0     | 1788.0     |
| 13    | 2                | 20          | 76.9            | 1226.0     | 1537.0     | -          |
| 14    | 3                | 20          | 95.8            | 1192.0     | 1298.0     | 1844.0     |
| 15    | 1                | 20          | 55.2            | 1644.0     | -          | -          |
| 16    | 1                | 20          | 59.0            | 1402.0     | -          | -          |
| 17    | 3                | 20          | 94.5            | 1296.0     | 1700.0     | 1283.0     |
| 18    | 3                | 20          | 91.9            | 1970.0     | 1978.0     | 1165.0     |
| 19    | 3                | 20          | 85.2            | 1732.0     | 1551.0     | 1189.0     |
| 20    | 2                | 20          | 69.5            | 1038.0     | 1224.0     | -          |





Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 12

Chirp Center Frequency: 5714.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 86.4            | 1259.0     | 1918.0     | 1455.0     |
| 2     | 3                | 10          | 92.2            | 1598.0     | 1719.0     | 1895.0     |
| 3     | 2                | 10          | 80.4            | 1816.0     | 1899.0     | -          |
| 4     | 1                | 10          | 54.3            | 1335.0     | -          | -          |
| 5     | 1                | 10          | 53.1            | 1303.0     | -          | -          |
| 6     | 2                | 10          | 69.4            | 1503.0     | 1546.0     | -          |
| 7     | 2                | 10          | 69.1            | 1279.0     | 1639.0     | -          |
| 8     | 3                | 10          | 100.0           | 1375.0     | 1438.0     | 1595.0     |
| 9     | 2                | 10          | 79.6            | 1239.0     | 1705.0     | -          |
| 10    | 3                | 10          | 88.4            | 1374.0     | 1579.0     | 1623.0     |
| 11    | 1                | 10          | 53.3            | 1016.0     | -          | -          |
| 12    | 1                | 10          | 65.3            | 1709.0     | -          | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chirp Center Frequency: 5715.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 55.3            | 1920.0     | -          | -          |
| 2     | 1                | 12          | 58.3            | 1797.0     | -          | -          |
| 3     | 2                | 12          | 72.3            | 1610.0     | 1039.0     | -          |
| 4     | 3                | 12          | 84.8            | 1131.0     | 1761.0     | 1721.0     |
| 5     | 2                | 12          | 82.5            | 1875.0     | 1431.0     | -          |
| 6     | 1                | 12          | 63.3            | 1095.0     | -          | -          |
| 7     | 2                | 12          | 80.0            | 1119.0     | 1913.0     | -          |
| 8     | 3                | 12          | 90.3            | 1660.0     | 1853.0     | 1123.0     |
| 9     | 3                | 12          | 91.1            | 1539.0     | 1783.0     | 1172.0     |
| 10    | 3                | 12          | 96.6            | 1525.0     | 1036.0     | 1385.0     |
| 11    | 2                | 12          | 82.7            | 1710.0     | 1990.0     | -          |
| 12    | 1                | 12          | 50.7            | 1234.0     | -          | -          |
| 13    | 2                | 12          | 78.4            | 1047.0     | 1109.0     | -          |
| 14    | 3                | 12          | 99.5            | 1299.0     | 1965.0     | 1869.0     |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_20  
 Number of Bursts in Trial: 12  
 Chrip Center Frequency: 5714.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 88.6            | 1501.0     | 1067.0     | 1927.0     |
| 2     | 1                | 10          | 57.4            | 1723.0     | -          | -          |
| 3     | 3                | 10          | 96.6            | 1086.0     | 1658.0     | 1324.0     |
| 4     | 2                | 10          | 69.7            | 1751.0     | 1945.0     | -          |
| 5     | 2                | 10          | 77.9            | 1642.0     | 1317.0     | -          |
| 6     | 1                | 10          | 62.0            | 1866.0     | -          | -          |
| 7     | 3                | 10          | 88.4            | 1997.0     | 1077.0     | 1366.0     |
| 8     | 3                | 10          | 97.3            | 1790.0     | 1896.0     | 1367.0     |
| 9     | 3                | 10          | 96.2            | 1391.0     | 1787.0     | 1672.0     |
| 10    | 3                | 10          | 95.4            | 1020.0     | 1892.0     | 1414.0     |
| 11    | 1                | 10          | 54.8            | 1084.0     | -          | -          |
| 12    | 2                | 10          | 80.4            | 1850.0     | 1436.0     | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5723.2MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 15          | 74.7            | 1619.0     | 1611.0     | -          |
| 2     | 1                | 15          | 57.1            | 1560.0     | -          | -          |
| 3     | 3                | 15          | 91.9            | 1392.0     | 1475.0     | 1276.0     |
| 4     | 2                | 15          | 83.1            | 1809.0     | 1772.0     | -          |
| 5     | 1                | 15          | 50.7            | 1003.0     | -          | -          |
| 6     | 2                | 15          | 79.2            | 1574.0     | 1600.0     | -          |
| 7     | 1                | 15          | 58.7            | 1186.0     | -          | -          |
| 8     | 2                | 15          | 71.0            | 1521.0     | 1567.0     | -          |
| 9     | 2                | 15          | 79.0            | 1777.0     | 1960.0     | -          |
| 10    | 2                | 15          | 68.5            | 1284.0     | 1428.0     | -          |
| 11    | 2                | 15          | 73.5            | 1904.0     | 1352.0     | -          |
| 12    | 2                | 15          | 70.5            | 1864.0     | 1115.0     | -          |
| 13    | 2                | 15          | 76.6            | 1045.0     | 1300.0     | -          |
| 14    | 2                | 15          | 81.2            | 1160.0     | 1675.0     | -          |
| 15    | 1                | 15          | 61.8            | 1277.0     | -          | -          |
| 16    | 3                | 15          | 94.9            | 1450.0     | 1206.0     | 1860.0     |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 12

Chirp Center Frequency: 5725.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 9           | 78.5            | 1653.0     | 1698.0     | -          |
| 2     | 3                | 9           | 89.8            | 1174.0     | 1962.0     | 1167.0     |
| 3     | 1                | 9           | 59.4            | 1982.0     | -          | -          |
| 4     | 2                | 9           | 79.6            | 1633.0     | 1890.0     | -          |
| 5     | 2                | 9           | 76.0            | 1112.0     | 1811.0     | -          |
| 6     | 1                | 9           | 53.6            | 1144.0     | -          | -          |
| 7     | 2                | 9           | 80.9            | 1220.0     | 1053.0     | -          |
| 8     | 1                | 9           | 61.6            | 1724.0     | -          | -          |
| 9     | 1                | 9           | 53.4            | 1901.0     | -          | -          |
| 10    | 1                | 9           | 59.9            | 1379.0     | -          | -          |
| 11    | 1                | 9           | 60.4            | 1453.0     | -          | -          |
| 12    | 3                | 9           | 91.4            | 1768.0     | 1726.0     | 1227.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5721.2MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 77.0            | 1191.0     | 1363.0     | -          |
| 2     | 1                | 20          | 58.1            | 1248.0     | -          | -          |
| 3     | 1                | 20          | 62.1            | 1836.0     | -          | -          |
| 4     | 2                | 20          | 76.9            | 1334.0     | 1236.0     | -          |
| 5     | 2                | 20          | 80.0            | 1914.0     | 1852.0     | -          |
| 6     | 1                | 20          | 52.0            | 1701.0     | -          | -          |
| 7     | 3                | 20          | 88.6            | 1693.0     | 1995.0     | 1905.0     |
| 8     | 2                | 20          | 72.9            | 1922.0     | 1387.0     | -          |
| 9     | 3                | 20          | 98.5            | 1839.0     | 1746.0     | 1389.0     |
| 10    | 1                | 20          | 57.9            | 1193.0     | -          | -          |
| 11    | 3                | 20          | 95.9            | 1659.0     | 1870.0     | 1066.0     |
| 12    | 1                | 20          | 53.5            | 1162.0     | -          | -          |
| 13    | 3                | 20          | 92.0            | 1745.0     | 1654.0     | 1458.0     |
| 14    | 1                | 20          | 57.3            | 1834.0     | -          | -          |
| 15    | 2                | 20          | 70.5            | 1684.0     | 1586.0     | -          |
| 16    | 2                | 20          | 70.0            | 1042.0     | 1664.0     | -          |
| 17    | 3                | 20          | 84.0            | 1765.0     | 1630.0     | 1176.0     |
| 18    | 2                | 20          | 76.1            | 1557.0     | 1057.0     | -          |
| 19    | 3                | 20          | 93.2            | 1985.0     | 1018.0     | 1340.0     |
| 20    | 3                | 20          | 96.8            | 1760.0     | 1614.0     | 1817.0     |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 14

Chirp Center Frequency: 5724.4MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 50.1            | 1841.0     | -          | -          |
| 2     | 3                | 12          | 93.5            | 1590.0     | 1081.0     | 1413.0     |
| 3     | 2                | 12          | 68.8            | 1707.0     | 1577.0     | -          |
| 4     | 1                | 12          | 56.3            | 1056.0     | -          | -          |
| 5     | 3                | 12          | 86.0            | 1953.0     | 1108.0     | 1987.0     |
| 6     | 2                | 12          | 75.2            | 1572.0     | 1536.0     | -          |
| 7     | 1                | 12          | 54.4            | 1517.0     | -          | -          |
| 8     | 2                | 12          | 71.1            | 1329.0     | 1243.0     | -          |
| 9     | 2                | 12          | 76.2            | 1940.0     | 1770.0     | -          |
| 10    | 2                | 12          | 80.2            | 1098.0     | 1209.0     | -          |
| 11    | 2                | 12          | 79.7            | 1588.0     | 1214.0     | -          |
| 12    | 3                | 12          | 90.9            | 1615.0     | 1862.0     | 1601.0     |
| 13    | 2                | 12          | 68.7            | 1377.0     | 1441.0     | -          |
| 14    | 2                | 12          | 67.4            | 1872.0     | 1313.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chrip Center Frequency: 5724.8MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 11          | 94.0            | 1643.0     | 1748.0     | 1941.0     |
| 2     | 2                | 11          | 70.8            | 1177.0     | 1201.0     | -          |
| 3     | 1                | 11          | 56.3            | 1006.0     | -          | -          |
| 4     | 3                | 11          | 96.7            | 1230.0     | 1163.0     | 1332.0     |
| 5     | 3                | 11          | 90.6            | 1217.0     | 1582.0     | 1498.0     |
| 6     | 2                | 11          | 74.5            | 1569.0     | 1281.0     | -          |
| 7     | 3                | 11          | 92.6            | 1065.0     | 1669.0     | 1222.0     |
| 8     | 3                | 11          | 89.0            | 1493.0     | 1135.0     | 1380.0     |
| 9     | 3                | 11          | 96.5            | 1607.0     | 1822.0     | 1602.0     |
| 10    | 2                | 11          | 70.5            | 1141.0     | 1178.0     | -          |
| 11    | 3                | 11          | 94.0            | 1009.0     | 1629.0     | 1956.0     |
| 12    | 1                | 11          | 55.8            | 1290.0     | -          | -          |
| 13    | 3                | 11          | 87.7            | 1435.0     | 1963.0     | 1164.0     |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5725.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 5           | 68.6            | 1306.0     | 1161.0     | -          |
| 2     | 2                | 5           | 83.1            | 1420.0     | 1315.0     | -          |
| 3     | 1                | 5           | 60.9            | 1687.0     | -          | -          |
| 4     | 2                | 5           | 77.7            | 1776.0     | 1158.0     | -          |
| 5     | 2                | 5           | 77.4            | 1793.0     | 1510.0     | -          |
| 6     | 2                | 5           | 66.8            | 1576.0     | 1323.0     | -          |
| 7     | 1                | 5           | 63.7            | 1333.0     | -          | -          |
| 8     | 3                | 5           | 91.2            | 1409.0     | 1681.0     | 1275.0     |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5722.8MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 16          | 83.6            | 1632.0     | 1195.0     | 1000.0     |
| 2     | 3                | 16          | 89.4            | 1173.0     | 1627.0     | 1656.0     |
| 3     | 1                | 16          | 55.8            | 1532.0     | -          | -          |
| 4     | 3                | 16          | 90.9            | 1981.0     | 1554.0     | 1998.0     |
| 5     | 1                | 16          | 54.7            | 1825.0     | -          | -          |
| 6     | 3                | 16          | 97.7            | 1734.0     | 1202.0     | 1250.0     |
| 7     | 2                | 16          | 67.5            | 1571.0     | 1434.0     | -          |
| 8     | 3                | 16          | 96.7            | 1589.0     | 1469.0     | 1268.0     |
| 9     | 2                | 16          | 68.3            | 1750.0     | 1954.0     | -          |
| 10    | 2                | 16          | 78.3            | 1591.0     | 1082.0     | -          |
| 11    | 1                | 16          | 55.0            | 1427.0     | -          | -          |
| 12    | 3                | 16          | 84.9            | 1129.0     | 1936.0     | 1199.0     |
| 13    | 2                | 16          | 74.6            | 1959.0     | 1856.0     | -          |
| 14    | 1                | 16          | 63.3            | 1885.0     | -          | -          |
| 15    | 3                | 16          | 99.8            | 1035.0     | 1515.0     | 1120.0     |
| 16    | 1                | 16          | 63.6            | 1647.0     | -          | -          |
| 17    | 3                | 16          | 87.3            | 1931.0     | 1051.0     | 1831.0     |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5721.6MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 85.6            | 1946.0     | 1078.0     | 1015.0     |
| 2     | 2                | 19          | 68.6            | 1029.0     | 1780.0     | -          |
| 3     | 1                | 19          | 54.2            | 1111.0     | -          | -          |
| 4     | 1                | 19          | 61.2            | 1104.0     | -          | -          |
| 5     | 3                | 19          | 97.1            | 1157.0     | 1969.0     | 1100.0     |
| 6     | 3                | 19          | 98.3            | 1142.0     | 1699.0     | 1622.0     |
| 7     | 1                | 19          | 62.4            | 1655.0     | -          | -          |
| 8     | 2                | 19          | 80.2            | 1126.0     | 1769.0     | -          |
| 9     | 3                | 19          | 87.5            | 1216.0     | 1448.0     | 1179.0     |
| 10    | 3                | 19          | 85.8            | 1847.0     | 1348.0     | 1472.0     |
| 11    | 3                | 19          | 88.1            | 1023.0     | 1124.0     | 1631.0     |
| 12    | 1                | 19          | 65.3            | 1848.0     | -          | -          |
| 13    | 1                | 19          | 52.5            | 1470.0     | -          | -          |
| 14    | 1                | 19          | 52.3            | 1312.0     | -          | -          |
| 15    | 2                | 19          | 74.1            | 1915.0     | 1200.0     | -          |
| 16    | 1                | 19          | 54.9            | 1479.0     | -          | -          |
| 17    | 2                | 19          | 76.2            | 1376.0     | 1502.0     | -          |
| 18    | 1                | 19          | 60.4            | 1758.0     | -          | -          |
| 19    | 2                | 19          | 81.5            | 1491.0     | 1103.0     | -          |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 12

Chrip Center Frequency: 5725.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 50.5            | 1857.0     | -          | -          |
| 2     | 1                | 10          | 55.7            | 1246.0     | -          | -          |
| 3     | 3                | 10          | 85.8            | 1774.0     | 1002.0     | 1967.0     |
| 4     | 2                | 10          | 76.9            | 1125.0     | 1474.0     | -          |
| 5     | 2                | 10          | 75.1            | 1254.0     | 1052.0     | -          |
| 6     | 3                | 10          | 92.3            | 1180.0     | 1486.0     | 1492.0     |
| 7     | 2                | 10          | 78.1            | 1301.0     | 1757.0     | -          |
| 8     | 3                | 10          | 92.2            | 1898.0     | 1252.0     | 1713.0     |
| 9     | 3                | 10          | 89.0            | 1260.0     | 1706.0     | 1411.0     |
| 10    | 2                | 10          | 70.9            | 1578.0     | 1620.0     | -          |
| 11    | 1                | 10          | 63.1            | 1782.0     | -          | -          |
| 12    | 1                | 10          | 55.3            | 1522.0     | -          | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chrip Center Frequency: 5722.4MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 83.4            | 1454.0     | 1205.0     | 1801.0     |
| 2     | 3                | 17          | 97.3            | 1319.0     | 1826.0     | 1635.0     |
| 3     | 3                | 17          | 90.4            | 1079.0     | 1986.0     | 1674.0     |
| 4     | 3                | 17          | 91.8            | 1563.0     | 1151.0     | 1802.0     |
| 5     | 3                | 17          | 98.2            | 1876.0     | 1977.0     | 1766.0     |
| 6     | 1                | 17          | 59.5            | 1952.0     | -          | -          |
| 7     | 2                | 17          | 80.0            | 1253.0     | 1137.0     | -          |
| 8     | 3                | 17          | 86.5            | 1054.0     | 1128.0     | 1828.0     |
| 9     | 3                | 17          | 91.1            | 1105.0     | 1599.0     | 1442.0     |
| 10    | 3                | 17          | 93.5            | 1867.0     | 1373.0     | 1087.0     |
| 11    | 1                | 17          | 60.7            | 1033.0     | -          | -          |
| 12    | 2                | 17          | 67.2            | 1288.0     | 1405.0     | -          |
| 13    | 1                | 17          | 61.8            | 1585.0     | -          | -          |
| 14    | 2                | 17          | 79.4            | 1933.0     | 1667.0     | -          |
| 15    | 2                | 17          | 81.4            | 1096.0     | 1464.0     | -          |
| 16    | 1                | 17          | 65.7            | 1496.0     | -          | -          |
| 17    | 2                | 17          | 76.0            | 1733.0     | 1255.0     | -          |
| 18    | 2                | 17          | 81.0            | 1326.0     | 1668.0     | -          |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

## 802.11n (HT40)

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

Number of Bursts in Trial: 15

Chirp Center Frequency 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 6           | 77.8            | 1665.0     | 1477.0     | -          |
| 2     | 1                | 6           | 51.9            | 1074.0     | -          | -          |
| 3     | 1                | 6           | 63.8            | 1584.0     | -          | -          |
| 4     | 3                | 6           | 96.6            | 1682.0     | 1786.0     | 1843.0     |
| 5     | 3                | 6           | 85.9            | 1795.0     | 1215.0     | 1729.0     |
| 6     | 2                | 6           | 73.7            | 1198.0     | 1549.0     | -          |
| 7     | 2                | 6           | 77.2            | 1837.0     | 1819.0     | -          |
| 8     | 2                | 6           | 68.4            | 1587.0     | 1114.0     | -          |
| 9     | 2                | 6           | 76.7            | 2000.0     | 1155.0     | -          |
| 10    | 1                | 6           | 53.2            | 1147.0     | -          | -          |
| 11    | 3                | 6           | 85.7            | 1433.0     | 1695.0     | 1394.0     |
| 12    | 3                | 6           | 94.3            | 1670.0     | 1426.0     | 1935.0     |
| 13    | 2                | 6           | 77.6            | 1294.0     | 1671.0     | -          |
| 14    | 1                | 6           | 65.7            | 1512.0     | -          | -          |
| 15    | 3                | 6           | 93.5            | 1444.0     | 1130.0     | 1468.0     |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 18          | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 18          | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 18          | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 18          | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 18          | 65.9            | 1432.0     | -          | -          |
| 6     | 3                | 18          | 83.8            | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                | 18          | 65.5            | 1543.0     | -          | -          |
| 8     | 3                | 18          | 98.6            | 1548.0     | 1796.0     | 1728.0     |
| 9     |                  |             |                 |            |            |            |
| 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

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 7           | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 7           | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 7           | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 7           | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 7           | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 7           | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 7           | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 7           | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 7           | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 7           | 91.3            | 1961.0     | 1106.0     | 1001.0     |
| 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: 20

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 68.1            | 1339.0     | 1355.0     | -          |
| 2     | 1                | 20          | 58.7            | 1251.0     | -          | -          |
| 3     | 2                | 20          | 75.3            | 1136.0     | 1640.0     | -          |
| 4     | 1                | 20          | 56.4            | 1753.0     | -          | -          |
| 5     | 3                | 20          | 99.7            | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                | 20          | 57.7            | 1013.0     | -          | -          |
| 7     | 1                | 20          | 59.5            | 1072.0     | -          | -          |
| 8     | 2                | 20          | 80.0            | 1482.0     | 1369.0     | -          |
| 9     | 2                | 20          | 82.0            | 1993.0     | 1197.0     | -          |
| 10    | 2                | 20          | 82.8            | 1883.0     | 1005.0     | -          |
| 11    | 3                | 20          | 88.0            | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                | 20          | 93.2            | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                | 20          | 70.4            | 1526.0     | 1360.0     | -          |
| 14    | 3                | 20          | 95.3            | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                | 20          | 81.9            | 1690.0     | 1545.0     | -          |
| 16    | 3                | 20          | 98.5            | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                | 20          | 65.0            | 1767.0     | -          | -          |
| 18    | 3                | 20          | 85.4            | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                | 20          | 91.6            | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                | 20          | 67.3            | 1091.0     | 1218.0     | -          |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 17

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 12          | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 12          | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 12          | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 12          | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 12          | 83.9            | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                | 12          | 89.1            | 1240.0     | 1384.0     | 1939.0     |
| 8     | 2                | 12          | 81.8            | 1833.0     | 1676.0     | -          |
| 9     | 1                | 12          | 50.3            | 1075.0     | -          | -          |
| 10    | 3                | 12          | 87.1            | 1116.0     | 1996.0     | 1756.0     |
| 11    | 2                | 12          | 71.3            | 1225.0     | 1815.0     | -          |
| 12    | 3                | 12          | 97.5            | 1884.0     | 1465.0     | 1132.0     |
| 13    | 3                | 12          | 90.6            | 1561.0     | 1040.0     | 1354.0     |
| 14    | 3                | 12          | 86.3            | 1596.0     | 1183.0     | 1792.0     |
| 15    | 3                | 12          | 97.6            | 1365.0     | 1073.0     | 1361.0     |
| 16    | 3                | 12          | 84.7            | 1021.0     | 1718.0     | 1854.0     |
| 17    | 3                | 12          | 99.7            | 1150.0     | 1244.0     | 1988.0     |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 14

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 15          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 15          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 15          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 15          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 15          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 15          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 15          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 15          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 15          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 15          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 15          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 15          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 15          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 15          | 74.5            | 1264.0     | 1846.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 15

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 14          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 14          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 14          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 14          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 14          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 14          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 14          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 14          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 14          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 14          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 14          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 14          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 14          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 14          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 14          | 90.6            | 1233.0     | 1562.0     | 1887.0     |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 12

Chrip Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 19          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 19          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 19          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 19          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 19          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 19          | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 19          | 67.6            | 1175.0     | 1027.0     | -          |
| 8     | 2                | 19          | 75.7            | 1026.0     | 1871.0     | -          |
| 9     | 1                | 19          | 60.9            | 1798.0     | -          | -          |
| 10    | 1                | 19          | 64.2            | 1138.0     | -          | -          |
| 11    | 2                | 19          | 78.8            | 1784.0     | 1604.0     | -          |
| 12    | 3                | 19          | 87.5            | 1511.0     | 1712.0     | 1683.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 14

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 5           | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 5           | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 5           | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 5           | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 5           | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 5           | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 5           | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 5           | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 5           | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 5           | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 5           | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 5           | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 5           | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 5           | 64.3            | 1937.0     | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chirp Center Frequency: 5710.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 6           | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 6           | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 6           | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 6           | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 6           | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 6           | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 6           | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 6           | 95.4            | 1580.0     | 1555.0     | 1791.0     |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 17

Chirp Center Frequency: 5697.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |
| 4     | 1                | 16          | 66.2            | 1393.0     | -          | -          |
| 5     | 2                | 16          | 70.8            | 1968.0     | 1821.0     | -          |
| 6     | 1                | 16          | 52.3            | 1740.0     | -          | -          |
| 7     | 2                | 16          | 78.9            | 1308.0     | 1984.0     | -          |
| 8     | 2                | 16          | 70.9            | 1050.0     | 1358.0     | -          |
| 9     | 2                | 16          | 75.6            | 1437.0     | 1430.0     | -          |
| 10    | 1                | 16          | 59.1            | 1697.0     | -          | -          |
| 11    | 2                | 16          | 77.0            | 1397.0     | 1304.0     | -          |
| 12    | 2                | 16          | 67.9            | 1803.0     | 1083.0     | -          |
| 13    | 2                | 16          | 81.2            | 1720.0     | 1932.0     | -          |
| 14    | 2                | 16          | 78.7            | 1247.0     | 1121.0     | -          |
| 15    | 1                | 16          | 63.3            | 1634.0     | -          | -          |
| 16    | 2                | 16          | 68.9            | 1849.0     | 1423.0     | -          |
| 17    | 1                | 16          | 59.3            | 1093.0     | -          | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5699.1MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 98.9            | 1381.0     | 1680.0     | 1488.0     |
| 2     | 2                | 19          | 82.3            | 1716.0     | 1855.0     | -          |
| 3     | 3                | 19          | 86.7            | 1211.0     | 1400.0     | 1919.0     |
| 4     | 3                | 19          | 89.7            | 1861.0     | 1068.0     | 1282.0     |
| 5     | 3                | 19          | 98.6            | 1507.0     | 1194.0     | 1461.0     |
| 6     | 2                | 19          | 71.1            | 1921.0     | 1789.0     | -          |
| 7     | 1                | 19          | 55.9            | 1947.0     | -          | -          |
| 8     | 2                | 19          | 67.9            | 1350.0     | 1372.0     | -          |
| 9     | 3                | 19          | 84.4            | 1203.0     | 1107.0     | 1443.0     |
| 10    | 1                | 19          | 58.8            | 1715.0     | -          | -          |
| 11    | 1                | 19          | 65.6            | 1017.0     | -          | -          |
| 12    | 2                | 19          | 78.5            | 1911.0     | 1704.0     | -          |
| 13    | 2                | 19          | 82.3            | 1845.0     | 1686.0     | -          |
| 14    | 3                | 19          | 90.1            | 1938.0     | 1071.0     | 1266.0     |
| 15    | 3                | 19          | 90.2            | 1989.0     | 1089.0     | 1950.0     |
| 16    | 2                | 19          | 83.1            | 1943.0     | 1406.0     | -          |
| 17    | 1                | 19          | 58.8            | 1742.0     | -          | -          |
| 18    | 2                | 19          | 77.0            | 1187.0     | 1657.0     | -          |
| 19    | 1                | 19          | 55.0            | 1012.0     | -          | -          |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chirp Center Frequency: 5696.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 13          | 58.1            | 1929.0     | -          | -          |
| 2     | 1                | 13          | 52.1            | 1910.0     | -          | -          |
| 3     | 1                | 13          | 59.9            | 1971.0     | -          | -          |
| 4     | 1                | 13          | 60.2            | 1812.0     | -          | -          |
| 5     | 3                | 13          | 95.9            | 1399.0     | 1906.0     | 1608.0     |
| 6     | 2                | 13          | 79.9            | 1626.0     | 1859.0     | -          |
| 7     | 2                | 13          | 78.5            | 1238.0     | 1917.0     | -          |
| 8     | 1                | 13          | 53.8            | 1763.0     | -          | -          |
| 9     | 1                | 13          | 64.7            | 1800.0     | -          | -          |
| 10    | 1                | 13          | 61.4            | 1390.0     | -          | -          |
| 11    | 2                | 13          | 83.2            | 1692.0     | 1858.0     | -          |
| 12    | 3                | 13          | 84.7            | 1533.0     | 1677.0     | 1638.0     |
| 13    | 3                | 13          | 88.7            | 1703.0     | 1528.0     | 1058.0     |
| 14    | 2                | 13          | 78.3            | 1258.0     | 1951.0     | -          |
| 15    | 2                | 13          | 69.3            | 1731.0     | 1717.0     | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5695.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 10          | 75.3            | 1994.0     | 1612.0     | -          |
| 2     | 1                | 10          | 56.3            | 1456.0     | -          | -          |
| 3     | 2                | 10          | 67.7            | 1617.0     | 1185.0     | -          |
| 4     | 1                | 10          | 55.6            | 1337.0     | -          | -          |
| 5     | 2                | 10          | 75.2            | 1421.0     | 1267.0     | -          |
| 6     | 2                | 10          | 76.3            | 1359.0     | 1305.0     | -          |
| 7     | 3                | 10          | 85.7            | 1547.0     | 1362.0     | 1924.0     |
| 8     | 3                | 10          | 98.4            | 1873.0     | 1550.0     | 1249.0     |
| 9     | 3                | 10          | 86.4            | 1779.0     | 1439.0     | 1046.0     |
| 10    | 3                | 10          | 93.6            | 1059.0     | 1031.0     | 1452.0     |
| 11    | 1                | 10          | 63.3            | 1328.0     | -          | -          |
| 12    | 3                | 10          | 92.4            | 1412.0     | 1673.0     | 1322.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 19

Chrip Center Frequency: 5698.7MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 18          | 93.3            | 1983.0     | 1912.0     | 1535.0     |
| 2     | 2                | 18          | 69.1            | 1102.0     | 1794.0     | -          |
| 3     | 3                | 18          | 86.9            | 1044.0     | 1152.0     | 1148.0     |
| 4     | 3                | 18          | 84.9            | 1894.0     | 1948.0     | 1118.0     |
| 5     | 2                | 18          | 72.3            | 1094.0     | 1916.0     | -          |
| 6     | 1                | 18          | 51.7            | 1447.0     | -          | -          |
| 7     | 1                | 18          | 58.3            | 1429.0     | -          | -          |
| 8     | 1                | 18          | 60.8            | 1979.0     | -          | -          |
| 9     | 1                | 18          | 57.1            | 1641.0     | -          | -          |
| 10    | 3                | 18          | 88.9            | 1886.0     | 1964.0     | 1489.0     |
| 11    | 2                | 18          | 72.0            | 1909.0     | 1297.0     | -          |
| 12    | 3                | 18          | 90.9            | 1261.0     | 1566.0     | 1370.0     |
| 13    | 1                | 18          | 59.8            | 1552.0     | -          | -          |
| 14    | 2                | 18          | 70.0            | 1759.0     | 1291.0     | -          |
| 15    | 2                | 18          | 67.2            | 1625.0     | 1881.0     | -          |
| 16    | 3                | 18          | 91.2            | 1382.0     | 1832.0     | 1661.0     |
| 17    | 1                | 18          | 56.5            | 1483.0     | -          | -          |
| 18    | 1                | 18          | 51.2            | 1237.0     | -          | -          |
| 19    | 2                | 18          | 74.1            | 1471.0     | 1245.0     | -          |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chirp Center Frequency: 5696.3MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 76.9            | 1110.0     | 1140.0     | -          |
| 2     | 1                | 12          | 50.2            | 1316.0     | -          | -          |
| 3     | 1                | 12          | 62.9            | 1520.0     | -          | -          |
| 4     | 1                | 12          | 64.7            | 1902.0     | -          | -          |
| 5     | 3                | 12          | 83.8            | 1410.0     | 1097.0     | 1621.0     |
| 6     | 1                | 12          | 65.4            | 1944.0     | -          | -          |
| 7     | 1                | 12          | 53.2            | 1024.0     | -          | -          |
| 8     | 1                | 12          | 51.7            | 1603.0     | -          | -          |
| 9     | 2                | 12          | 78.7            | 1804.0     | 1168.0     | -          |
| 10    | 2                | 12          | 72.4            | 1030.0     | 1343.0     | -          |
| 11    | 1                | 12          | 53.8            | 1327.0     | -          | -          |
| 12    | 2                | 12          | 73.6            | 1524.0     | 1553.0     | -          |
| 13    | 2                | 12          | 66.7            | 1722.0     | 1122.0     | -          |
| 14    | 2                | 12          | 82.5            | 1404.0     | 1019.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 20

Chirp Center Frequency: 5699.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 87.6            | 1565.0     | 1055.0     | 1840.0     |
| 2     | 3                | 20          | 85.2            | 1735.0     | 1541.0     | 1408.0     |
| 3     | 3                | 20          | 84.8            | 1534.0     | 1889.0     | 1463.0     |
| 4     | 2                | 20          | 77.9            | 1749.0     | 1460.0     | -          |
| 5     | 2                | 20          | 76.5            | 1518.0     | 1485.0     | -          |
| 6     | 1                | 20          | 60.9            | 1540.0     | -          | -          |
| 7     | 2                | 20          | 83.0            | 1080.0     | 1010.0     | -          |
| 8     | 2                | 20          | 80.4            | 1824.0     | 1752.0     | -          |
| 9     | 2                | 20          | 67.5            | 1764.0     | 1181.0     | -          |
| 10    | 1                | 20          | 62.1            | 1495.0     | -          | -          |
| 11    | 3                | 20          | 86.4            | 1773.0     | 1966.0     | 1263.0     |
| 12    | 3                | 20          | 84.3            | 1593.0     | 1188.0     | 1788.0     |
| 13    | 2                | 20          | 76.9            | 1226.0     | 1537.0     | -          |
| 14    | 3                | 20          | 95.8            | 1192.0     | 1298.0     | 1844.0     |
| 15    | 1                | 20          | 55.2            | 1644.0     | -          | -          |
| 16    | 1                | 20          | 59.0            | 1402.0     | -          | -          |
| 17    | 3                | 20          | 94.5            | 1296.0     | 1700.0     | 1283.0     |
| 18    | 3                | 20          | 91.9            | 1970.0     | 1978.0     | 1165.0     |
| 19    | 3                | 20          | 85.2            | 1732.0     | 1551.0     | 1189.0     |
| 20    | 2                | 20          | 69.5            | 1038.0     | 1224.0     | -          |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 12

Chirp Center Frequency: 5695.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 86.4            | 1259.0     | 1918.0     | 1455.0     |
| 2     | 3                | 10          | 92.2            | 1598.0     | 1719.0     | 1895.0     |
| 3     | 2                | 10          | 80.4            | 1816.0     | 1899.0     | -          |
| 4     | 1                | 10          | 54.3            | 1335.0     | -          | -          |
| 5     | 1                | 10          | 53.1            | 1303.0     | -          | -          |
| 6     | 2                | 10          | 69.4            | 1503.0     | 1546.0     | -          |
| 7     | 2                | 10          | 69.1            | 1279.0     | 1639.0     | -          |
| 8     | 3                | 10          | 100.0           | 1375.0     | 1438.0     | 1595.0     |
| 9     | 2                | 10          | 79.6            | 1239.0     | 1705.0     | -          |
| 10    | 3                | 10          | 88.4            | 1374.0     | 1579.0     | 1623.0     |
| 11    | 1                | 10          | 53.3            | 1016.0     | -          | -          |
| 12    | 1                | 10          | 65.3            | 1709.0     | -          | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chirp Center Frequency: 5696.3MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 55.3            | 1920.0     | -          | -          |
| 2     | 1                | 12          | 58.3            | 1797.0     | -          | -          |
| 3     | 2                | 12          | 72.3            | 1610.0     | 1039.0     | -          |
| 4     | 3                | 12          | 84.8            | 1131.0     | 1761.0     | 1721.0     |
| 5     | 2                | 12          | 82.5            | 1875.0     | 1431.0     | -          |
| 6     | 1                | 12          | 63.3            | 1095.0     | -          | -          |
| 7     | 2                | 12          | 80.0            | 1119.0     | 1913.0     | -          |
| 8     | 3                | 12          | 90.3            | 1660.0     | 1853.0     | 1123.0     |
| 9     | 3                | 12          | 91.1            | 1539.0     | 1783.0     | 1172.0     |
| 10    | 3                | 12          | 96.6            | 1525.0     | 1036.0     | 1385.0     |
| 11    | 2                | 12          | 82.7            | 1710.0     | 1990.0     | -          |
| 12    | 1                | 12          | 50.7            | 1234.0     | -          | -          |
| 13    | 2                | 12          | 78.4            | 1047.0     | 1109.0     | -          |
| 14    | 3                | 12          | 99.5            | 1299.0     | 1965.0     | 1869.0     |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_20  
 Number of Bursts in Trial: 12  
 Chrip Center Frequency: 5695.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 88.6            | 1501.0     | 1067.0     | 1927.0     |
| 2     | 1                | 10          | 57.4            | 1723.0     | -          | -          |
| 3     | 3                | 10          | 96.6            | 1086.0     | 1658.0     | 1324.0     |
| 4     | 2                | 10          | 69.7            | 1751.0     | 1945.0     | -          |
| 5     | 2                | 10          | 77.9            | 1642.0     | 1317.0     | -          |
| 6     | 1                | 10          | 62.0            | 1866.0     | -          | -          |
| 7     | 3                | 10          | 88.4            | 1997.0     | 1077.0     | 1366.0     |
| 8     | 3                | 10          | 97.3            | 1790.0     | 1896.0     | 1367.0     |
| 9     | 3                | 10          | 96.2            | 1391.0     | 1787.0     | 1672.0     |
| 10    | 3                | 10          | 95.4            | 1020.0     | 1892.0     | 1414.0     |
| 11    | 1                | 10          | 54.8            | 1084.0     | -          | -          |
| 12    | 2                | 10          | 80.4            | 1850.0     | 1436.0     | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5722.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 15          | 74.7            | 1619.0     | 1611.0     | -          |
| 2     | 1                | 15          | 57.1            | 1560.0     | -          | -          |
| 3     | 3                | 15          | 91.9            | 1392.0     | 1475.0     | 1276.0     |
| 4     | 2                | 15          | 83.1            | 1809.0     | 1772.0     | -          |
| 5     | 1                | 15          | 50.7            | 1003.0     | -          | -          |
| 6     | 2                | 15          | 79.2            | 1574.0     | 1600.0     | -          |
| 7     | 1                | 15          | 58.7            | 1186.0     | -          | -          |
| 8     | 2                | 15          | 71.0            | 1521.0     | 1567.0     | -          |
| 9     | 2                | 15          | 79.0            | 1777.0     | 1960.0     | -          |
| 10    | 2                | 15          | 68.5            | 1284.0     | 1428.0     | -          |
| 11    | 2                | 15          | 73.5            | 1904.0     | 1352.0     | -          |
| 12    | 2                | 15          | 70.5            | 1864.0     | 1115.0     | -          |
| 13    | 2                | 15          | 76.6            | 1045.0     | 1300.0     | -          |
| 14    | 2                | 15          | 81.2            | 1160.0     | 1675.0     | -          |
| 15    | 1                | 15          | 61.8            | 1277.0     | -          | -          |
| 16    | 3                | 15          | 94.9            | 1450.0     | 1206.0     | 1860.0     |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 12

Chirp Center Frequency: 5724.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 9           | 78.5            | 1653.0     | 1698.0     | -          |
| 2     | 3                | 9           | 89.8            | 1174.0     | 1962.0     | 1167.0     |
| 3     | 1                | 9           | 59.4            | 1982.0     | -          | -          |
| 4     | 2                | 9           | 79.6            | 1633.0     | 1890.0     | -          |
| 5     | 2                | 9           | 76.0            | 1112.0     | 1811.0     | -          |
| 6     | 1                | 9           | 53.6            | 1144.0     | -          | -          |
| 7     | 2                | 9           | 80.9            | 1220.0     | 1053.0     | -          |
| 8     | 1                | 9           | 61.6            | 1724.0     | -          | -          |
| 9     | 1                | 9           | 53.4            | 1901.0     | -          | -          |
| 10    | 1                | 9           | 59.9            | 1379.0     | -          | -          |
| 11    | 1                | 9           | 60.4            | 1453.0     | -          | -          |
| 12    | 3                | 9           | 91.4            | 1768.0     | 1726.0     | 1227.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5720.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 77.0            | 1191.0     | 1363.0     | -          |
| 2     | 1                | 20          | 58.1            | 1248.0     | -          | -          |
| 3     | 1                | 20          | 62.1            | 1836.0     | -          | -          |
| 4     | 2                | 20          | 76.9            | 1334.0     | 1236.0     | -          |
| 5     | 2                | 20          | 80.0            | 1914.0     | 1852.0     | -          |
| 6     | 1                | 20          | 52.0            | 1701.0     | -          | -          |
| 7     | 3                | 20          | 88.6            | 1693.0     | 1995.0     | 1905.0     |
| 8     | 2                | 20          | 72.9            | 1922.0     | 1387.0     | -          |
| 9     | 3                | 20          | 98.5            | 1839.0     | 1746.0     | 1389.0     |
| 10    | 1                | 20          | 57.9            | 1193.0     | -          | -          |
| 11    | 3                | 20          | 95.9            | 1659.0     | 1870.0     | 1066.0     |
| 12    | 1                | 20          | 53.5            | 1162.0     | -          | -          |
| 13    | 3                | 20          | 92.0            | 1745.0     | 1654.0     | 1458.0     |
| 14    | 1                | 20          | 57.3            | 1834.0     | -          | -          |
| 15    | 2                | 20          | 70.5            | 1684.0     | 1586.0     | -          |
| 16    | 2                | 20          | 70.0            | 1042.0     | 1664.0     | -          |
| 17    | 3                | 20          | 84.0            | 1765.0     | 1630.0     | 1176.0     |
| 18    | 2                | 20          | 76.1            | 1557.0     | 1057.0     | -          |
| 19    | 3                | 20          | 93.2            | 1985.0     | 1018.0     | 1340.0     |
| 20    | 3                | 20          | 96.8            | 1760.0     | 1614.0     | 1817.0     |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 14

Chirp Center Frequency: 5723.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 50.1            | 1841.0     | -          | -          |
| 2     | 3                | 12          | 93.5            | 1590.0     | 1081.0     | 1413.0     |
| 3     | 2                | 12          | 68.8            | 1707.0     | 1577.0     | -          |
| 4     | 1                | 12          | 56.3            | 1056.0     | -          | -          |
| 5     | 3                | 12          | 86.0            | 1953.0     | 1108.0     | 1987.0     |
| 6     | 2                | 12          | 75.2            | 1572.0     | 1536.0     | -          |
| 7     | 1                | 12          | 54.4            | 1517.0     | -          | -          |
| 8     | 2                | 12          | 71.1            | 1329.0     | 1243.0     | -          |
| 9     | 2                | 12          | 76.2            | 1940.0     | 1770.0     | -          |
| 10    | 2                | 12          | 80.2            | 1098.0     | 1209.0     | -          |
| 11    | 2                | 12          | 79.7            | 1588.0     | 1214.0     | -          |
| 12    | 3                | 12          | 90.9            | 1615.0     | 1862.0     | 1601.0     |
| 13    | 2                | 12          | 68.7            | 1377.0     | 1441.0     | -          |
| 14    | 2                | 12          | 67.4            | 1872.0     | 1313.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5724.1MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 11          | 94.0            | 1643.0     | 1748.0     | 1941.0     |
| 2     | 2                | 11          | 70.8            | 1177.0     | 1201.0     | -          |
| 3     | 1                | 11          | 56.3            | 1006.0     | -          | -          |
| 4     | 3                | 11          | 96.7            | 1230.0     | 1163.0     | 1332.0     |
| 5     | 3                | 11          | 90.6            | 1217.0     | 1582.0     | 1498.0     |
| 6     | 2                | 11          | 74.5            | 1569.0     | 1281.0     | -          |
| 7     | 3                | 11          | 92.6            | 1065.0     | 1669.0     | 1222.0     |
| 8     | 3                | 11          | 89.0            | 1493.0     | 1135.0     | 1380.0     |
| 9     | 3                | 11          | 96.5            | 1607.0     | 1822.0     | 1602.0     |
| 10    | 2                | 11          | 70.5            | 1141.0     | 1178.0     | -          |
| 11    | 3                | 11          | 94.0            | 1009.0     | 1629.0     | 1956.0     |
| 12    | 1                | 11          | 55.8            | 1290.0     | -          | -          |
| 13    | 3                | 11          | 87.7            | 1435.0     | 1963.0     | 1164.0     |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5725.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 5           | 68.6            | 1306.0     | 1161.0     | -          |
| 2     | 2                | 5           | 83.1            | 1420.0     | 1315.0     | -          |
| 3     | 1                | 5           | 60.9            | 1687.0     | -          | -          |
| 4     | 2                | 5           | 77.7            | 1776.0     | 1158.0     | -          |
| 5     | 2                | 5           | 77.4            | 1793.0     | 1510.0     | -          |
| 6     | 2                | 5           | 66.8            | 1576.0     | 1323.0     | -          |
| 7     | 1                | 5           | 63.7            | 1333.0     | -          | -          |
| 8     | 3                | 5           | 91.2            | 1409.0     | 1681.0     | 1275.0     |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5722.1MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 16          | 83.6            | 1632.0     | 1195.0     | 1000.0     |
| 2     | 3                | 16          | 89.4            | 1173.0     | 1627.0     | 1656.0     |
| 3     | 1                | 16          | 55.8            | 1532.0     | -          | -          |
| 4     | 3                | 16          | 90.9            | 1981.0     | 1554.0     | 1998.0     |
| 5     | 1                | 16          | 54.7            | 1825.0     | -          | -          |
| 6     | 3                | 16          | 97.7            | 1734.0     | 1202.0     | 1250.0     |
| 7     | 2                | 16          | 67.5            | 1571.0     | 1434.0     | -          |
| 8     | 3                | 16          | 96.7            | 1589.0     | 1469.0     | 1268.0     |
| 9     | 2                | 16          | 68.3            | 1750.0     | 1954.0     | -          |
| 10    | 2                | 16          | 78.3            | 1591.0     | 1082.0     | -          |
| 11    | 1                | 16          | 55.0            | 1427.0     | -          | -          |
| 12    | 3                | 16          | 84.9            | 1129.0     | 1936.0     | 1199.0     |
| 13    | 2                | 16          | 74.6            | 1959.0     | 1856.0     | -          |
| 14    | 1                | 16          | 63.3            | 1885.0     | -          | -          |
| 15    | 3                | 16          | 99.8            | 1035.0     | 1515.0     | 1120.0     |
| 16    | 1                | 16          | 63.6            | 1647.0     | -          | -          |
| 17    | 3                | 16          | 87.3            | 1931.0     | 1051.0     | 1831.0     |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5720.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 85.6            | 1946.0     | 1078.0     | 1015.0     |
| 2     | 2                | 19          | 68.6            | 1029.0     | 1780.0     | -          |
| 3     | 1                | 19          | 54.2            | 1111.0     | -          | -          |
| 4     | 1                | 19          | 61.2            | 1104.0     | -          | -          |
| 5     | 3                | 19          | 97.1            | 1157.0     | 1969.0     | 1100.0     |
| 6     | 3                | 19          | 98.3            | 1142.0     | 1699.0     | 1622.0     |
| 7     | 1                | 19          | 62.4            | 1655.0     | -          | -          |
| 8     | 2                | 19          | 80.2            | 1126.0     | 1769.0     | -          |
| 9     | 3                | 19          | 87.5            | 1216.0     | 1448.0     | 1179.0     |
| 10    | 3                | 19          | 85.8            | 1847.0     | 1348.0     | 1472.0     |
| 11    | 3                | 19          | 88.1            | 1023.0     | 1124.0     | 1631.0     |
| 12    | 1                | 19          | 65.3            | 1848.0     | -          | -          |
| 13    | 1                | 19          | 52.5            | 1470.0     | -          | -          |
| 14    | 1                | 19          | 52.3            | 1312.0     | -          | -          |
| 15    | 2                | 19          | 74.1            | 1915.0     | 1200.0     | -          |
| 16    | 1                | 19          | 54.9            | 1479.0     | -          | -          |
| 17    | 2                | 19          | 76.2            | 1376.0     | 1502.0     | -          |
| 18    | 1                | 19          | 60.4            | 1758.0     | -          | -          |
| 19    | 2                | 19          | 81.5            | 1491.0     | 1103.0     | -          |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 12

Chirp Center Frequency: 5724.5MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 50.5            | 1857.0     | -          | -          |
| 2     | 1                | 10          | 55.7            | 1246.0     | -          | -          |
| 3     | 3                | 10          | 85.8            | 1774.0     | 1002.0     | 1967.0     |
| 4     | 2                | 10          | 76.9            | 1125.0     | 1474.0     | -          |
| 5     | 2                | 10          | 75.1            | 1254.0     | 1052.0     | -          |
| 6     | 3                | 10          | 92.3            | 1180.0     | 1486.0     | 1492.0     |
| 7     | 2                | 10          | 78.1            | 1301.0     | 1757.0     | -          |
| 8     | 3                | 10          | 92.2            | 1898.0     | 1252.0     | 1713.0     |
| 9     | 3                | 10          | 89.0            | 1260.0     | 1706.0     | 1411.0     |
| 10    | 2                | 10          | 70.9            | 1578.0     | 1620.0     | -          |
| 11    | 1                | 10          | 63.1            | 1782.0     | -          | -          |
| 12    | 1                | 10          | 55.3            | 1522.0     | -          | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5721.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 83.4            | 1454.0     | 1205.0     | 1801.0     |
| 2     | 3                | 17          | 97.3            | 1319.0     | 1826.0     | 1635.0     |
| 3     | 3                | 17          | 90.4            | 1079.0     | 1986.0     | 1674.0     |
| 4     | 3                | 17          | 91.8            | 1563.0     | 1151.0     | 1802.0     |
| 5     | 3                | 17          | 98.2            | 1876.0     | 1977.0     | 1766.0     |
| 6     | 1                | 17          | 59.5            | 1952.0     | -          | -          |
| 7     | 2                | 17          | 80.0            | 1253.0     | 1137.0     | -          |
| 8     | 3                | 17          | 86.5            | 1054.0     | 1128.0     | 1828.0     |
| 9     | 3                | 17          | 91.1            | 1105.0     | 1599.0     | 1442.0     |
| 10    | 3                | 17          | 93.5            | 1867.0     | 1373.0     | 1087.0     |
| 11    | 1                | 17          | 60.7            | 1033.0     | -          | -          |
| 12    | 2                | 17          | 67.2            | 1288.0     | 1405.0     | -          |
| 13    | 1                | 17          | 61.8            | 1585.0     | -          | -          |
| 14    | 2                | 17          | 79.4            | 1933.0     | 1667.0     | -          |
| 15    | 2                | 17          | 81.4            | 1096.0     | 1464.0     | -          |
| 16    | 1                | 17          | 65.7            | 1496.0     | -          | -          |
| 17    | 2                | 17          | 76.0            | 1733.0     | 1255.0     | -          |
| 18    | 2                | 17          | 81.0            | 1326.0     | 1668.0     | -          |
| 19    |                  |             |                 |            |            |            |

## 802.11ac (VHT80)

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

Number of Bursts in Trial: 15

Chirp Center Frequency 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 77.8            | 1665.0     | 1477.0     | -          |
| 2     | 1                | 12          | 51.9            | 1074.0     | -          | -          |
| 3     | 1                | 12          | 63.8            | 1584.0     | -          | -          |
| 4     | 3                | 12          | 96.6            | 1682.0     | 1786.0     | 1843.0     |
| 5     | 3                | 12          | 85.9            | 1795.0     | 1215.0     | 1729.0     |
| 6     | 2                | 12          | 73.7            | 1198.0     | 1549.0     | -          |
| 7     | 2                | 12          | 77.2            | 1837.0     | 1819.0     | -          |
| 8     | 2                | 12          | 68.4            | 1587.0     | 1114.0     | -          |
| 9     | 2                | 12          | 76.7            | 2000.0     | 1155.0     | -          |
| 10    | 1                | 12          | 53.2            | 1147.0     | -          | -          |
| 11    | 3                | 12          | 85.7            | 1433.0     | 1695.0     | 1394.0     |
| 12    | 3                | 12          | 94.3            | 1670.0     | 1426.0     | 1935.0     |
| 13    | 2                | 12          | 77.6            | 1294.0     | 1671.0     | -          |
| 14    | 1                | 12          | 65.7            | 1512.0     | -          | -          |
| 15    | 3                | 12          | 93.5            | 1444.0     | 1130.0     | 1468.0     |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 13          | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 13          | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 13          | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 13          | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 13          | 65.9            | 1432.0     | -          | -          |
| 6     | 3                | 13          | 83.8            | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                | 13          | 65.5            | 1543.0     | -          | -          |
| 8     | 3                | 13          | 98.6            | 1548.0     | 1796.0     | 1728.0     |
| 9     |                  |             |                 |            |            |            |
| 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

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 18          | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 18          | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 18          | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 18          | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 18          | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 18          | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 18          | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 18          | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 18          | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 18          | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 18          | 91.3            | 1961.0     | 1106.0     | 1001.0     |
| 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: 20

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 13          | 68.1            | 1339.0     | 1355.0     | -          |
| 2     | 1                | 13          | 58.7            | 1251.0     | -          | -          |
| 3     | 2                | 13          | 75.3            | 1136.0     | 1640.0     | -          |
| 4     | 1                | 13          | 56.4            | 1753.0     | -          | -          |
| 5     | 3                | 13          | 99.7            | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                | 13          | 57.7            | 1013.0     | -          | -          |
| 7     | 1                | 13          | 59.5            | 1072.0     | -          | -          |
| 8     | 2                | 13          | 80.0            | 1482.0     | 1369.0     | -          |
| 9     | 2                | 13          | 82.0            | 1993.0     | 1197.0     | -          |
| 10    | 2                | 13          | 82.8            | 1883.0     | 1005.0     | -          |
| 11    | 3                | 13          | 88.0            | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                | 13          | 93.2            | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                | 13          | 70.4            | 1526.0     | 1360.0     | -          |
| 14    | 3                | 13          | 95.3            | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                | 13          | 81.9            | 1690.0     | 1545.0     | -          |
| 16    | 3                | 13          | 98.5            | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                | 13          | 65.0            | 1767.0     | -          | -          |
| 18    | 3                | 13          | 85.4            | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                | 13          | 91.6            | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                | 13          | 67.3            | 1091.0     | 1218.0     | -          |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 17

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 15          | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 15          | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 15          | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 15          | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 15          | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 15          | 83.9            | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                | 15          | 89.1            | 1240.0     | 1384.0     | 1939.0     |
| 8     | 2                | 15          | 81.8            | 1833.0     | 1676.0     | -          |
| 9     | 1                | 15          | 50.3            | 1075.0     | -          | -          |
| 10    | 3                | 15          | 87.1            | 1116.0     | 1996.0     | 1756.0     |
| 11    | 2                | 15          | 71.3            | 1225.0     | 1815.0     | -          |
| 12    | 3                | 15          | 97.5            | 1884.0     | 1465.0     | 1132.0     |
| 13    | 3                | 15          | 90.6            | 1561.0     | 1040.0     | 1354.0     |
| 14    | 3                | 15          | 86.3            | 1596.0     | 1183.0     | 1792.0     |
| 15    | 3                | 15          | 97.6            | 1365.0     | 1073.0     | 1361.0     |
| 16    | 3                | 15          | 84.7            | 1021.0     | 1718.0     | 1854.0     |
| 17    | 3                | 15          | 99.7            | 1150.0     | 1244.0     | 1988.0     |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 14

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 12          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 12          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 12          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 12          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 12          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 12          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 12          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 12          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 12          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 12          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 12          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 12          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 12          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 12          | 74.5            | 1264.0     | 1846.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 15

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 18          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 18          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 18          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 18          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 18          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 18          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 18          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 18          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 18          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 18          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 18          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 18          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 18          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 18          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 18          | 90.6            | 1233.0     | 1562.0     | 1887.0     |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 12

Chirp Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 12          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 12          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 12          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 12          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 12          | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 12          | 67.6            | 1175.0     | 1027.0     | -          |
| 8     | 2                | 12          | 75.7            | 1026.0     | 1871.0     | -          |
| 9     | 1                | 12          | 60.9            | 1798.0     | -          | -          |
| 10    | 1                | 12          | 64.2            | 1138.0     | -          | -          |
| 11    | 2                | 12          | 78.8            | 1784.0     | 1604.0     | -          |
| 12    | 3                | 12          | 87.5            | 1511.0     | 1712.0     | 1683.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 14

Chrip Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 6           | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 6           | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 6           | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 6           | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 6           | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 6           | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 6           | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 6           | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 6           | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 6           | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 6           | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 6           | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 6           | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 6           | 64.3            | 1937.0     | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chrip Center Frequency: 5690.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 10          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 10          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 10          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 10          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 10          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 10          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 10          | 95.4            | 1580.0     | 1555.0     | 1791.0     |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 17

Chirp Center Frequency: 5658.1MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |
| 4     | 1                | 16          | 66.2            | 1393.0     | -          | -          |
| 5     | 2                | 16          | 70.8            | 1968.0     | 1821.0     | -          |
| 6     | 1                | 16          | 52.3            | 1740.0     | -          | -          |
| 7     | 2                | 16          | 78.9            | 1308.0     | 1984.0     | -          |
| 8     | 2                | 16          | 70.9            | 1050.0     | 1358.0     | -          |
| 9     | 2                | 16          | 75.6            | 1437.0     | 1430.0     | -          |
| 10    | 1                | 16          | 59.1            | 1697.0     | -          | -          |
| 11    | 2                | 16          | 77.0            | 1397.0     | 1304.0     | -          |
| 12    | 2                | 16          | 67.9            | 1803.0     | 1083.0     | -          |
| 13    | 2                | 16          | 81.2            | 1720.0     | 1932.0     | -          |
| 14    | 2                | 16          | 78.7            | 1247.0     | 1121.0     | -          |
| 15    | 1                | 16          | 63.3            | 1634.0     | -          | -          |
| 16    | 2                | 16          | 68.9            | 1849.0     | 1423.0     | -          |
| 17    | 1                | 16          | 59.3            | 1093.0     | -          | -          |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5659.3MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 98.9            | 1381.0     | 1680.0     | 1488.0     |
| 2     | 2                | 19          | 82.3            | 1716.0     | 1855.0     | -          |
| 3     | 3                | 19          | 86.7            | 1211.0     | 1400.0     | 1919.0     |
| 4     | 3                | 19          | 89.7            | 1861.0     | 1068.0     | 1282.0     |
| 5     | 3                | 19          | 98.6            | 1507.0     | 1194.0     | 1461.0     |
| 6     | 2                | 19          | 71.1            | 1921.0     | 1789.0     | -          |
| 7     | 1                | 19          | 55.9            | 1947.0     | -          | -          |
| 8     | 2                | 19          | 67.9            | 1350.0     | 1372.0     | -          |
| 9     | 3                | 19          | 84.4            | 1203.0     | 1107.0     | 1443.0     |
| 10    | 1                | 19          | 58.8            | 1715.0     | -          | -          |
| 11    | 1                | 19          | 65.6            | 1017.0     | -          | -          |
| 12    | 2                | 19          | 78.5            | 1911.0     | 1704.0     | -          |
| 13    | 2                | 19          | 82.3            | 1845.0     | 1686.0     | -          |
| 14    | 3                | 19          | 90.1            | 1938.0     | 1071.0     | 1266.0     |
| 15    | 3                | 19          | 90.2            | 1989.0     | 1089.0     | 1950.0     |
| 16    | 2                | 19          | 83.1            | 1943.0     | 1406.0     | -          |
| 17    | 1                | 19          | 58.8            | 1742.0     | -          | -          |
| 18    | 2                | 19          | 77.0            | 1187.0     | 1657.0     | -          |
| 19    | 1                | 19          | 55.0            | 1012.0     | -          | -          |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chirp Center Frequency: 5656.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 13          | 58.1            | 1929.0     | -          | -          |
| 2     | 1                | 13          | 52.1            | 1910.0     | -          | -          |
| 3     | 1                | 13          | 59.9            | 1971.0     | -          | -          |
| 4     | 1                | 13          | 60.2            | 1812.0     | -          | -          |
| 5     | 3                | 13          | 95.9            | 1399.0     | 1906.0     | 1608.0     |
| 6     | 2                | 13          | 79.9            | 1626.0     | 1859.0     | -          |
| 7     | 2                | 13          | 78.5            | 1238.0     | 1917.0     | -          |
| 8     | 1                | 13          | 53.8            | 1763.0     | -          | -          |
| 9     | 1                | 13          | 64.7            | 1800.0     | -          | -          |
| 10    | 1                | 13          | 61.4            | 1390.0     | -          | -          |
| 11    | 2                | 13          | 83.2            | 1692.0     | 1858.0     | -          |
| 12    | 3                | 13          | 84.7            | 1533.0     | 1677.0     | 1638.0     |
| 13    | 3                | 13          | 88.7            | 1703.0     | 1528.0     | 1058.0     |
| 14    | 2                | 13          | 78.3            | 1258.0     | 1951.0     | -          |
| 15    | 2                | 13          | 69.3            | 1731.0     | 1717.0     | -          |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5655.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 10          | 75.3            | 1994.0     | 1612.0     | -          |
| 2     | 1                | 10          | 56.3            | 1456.0     | -          | -          |
| 3     | 2                | 10          | 67.7            | 1617.0     | 1185.0     | -          |
| 4     | 1                | 10          | 55.6            | 1337.0     | -          | -          |
| 5     | 2                | 10          | 75.2            | 1421.0     | 1267.0     | -          |
| 6     | 2                | 10          | 76.3            | 1359.0     | 1305.0     | -          |
| 7     | 3                | 10          | 85.7            | 1547.0     | 1362.0     | 1924.0     |
| 8     | 3                | 10          | 98.4            | 1873.0     | 1550.0     | 1249.0     |
| 9     | 3                | 10          | 86.4            | 1779.0     | 1439.0     | 1046.0     |
| 10    | 3                | 10          | 93.6            | 1059.0     | 1031.0     | 1452.0     |
| 11    | 1                | 10          | 63.3            | 1328.0     | -          | -          |
| 12    | 3                | 10          | 92.4            | 1412.0     | 1673.0     | 1322.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 19

Chirp Center Frequency: 5658.9MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 18          | 93.3            | 1983.0     | 1912.0     | 1535.0     |
| 2     | 2                | 18          | 69.1            | 1102.0     | 1794.0     | -          |
| 3     | 3                | 18          | 86.9            | 1044.0     | 1152.0     | 1148.0     |
| 4     | 3                | 18          | 84.9            | 1894.0     | 1948.0     | 1118.0     |
| 5     | 2                | 18          | 72.3            | 1094.0     | 1916.0     | -          |
| 6     | 1                | 18          | 51.7            | 1447.0     | -          | -          |
| 7     | 1                | 18          | 58.3            | 1429.0     | -          | -          |
| 8     | 1                | 18          | 60.8            | 1979.0     | -          | -          |
| 9     | 1                | 18          | 57.1            | 1641.0     | -          | -          |
| 10    | 3                | 18          | 88.9            | 1886.0     | 1964.0     | 1489.0     |
| 11    | 2                | 18          | 72.0            | 1909.0     | 1297.0     | -          |
| 12    | 3                | 18          | 90.9            | 1261.0     | 1566.0     | 1370.0     |
| 13    | 1                | 18          | 59.8            | 1552.0     | -          | -          |
| 14    | 2                | 18          | 70.0            | 1759.0     | 1291.0     | -          |
| 15    | 2                | 18          | 67.2            | 1625.0     | 1881.0     | -          |
| 16    | 3                | 18          | 91.2            | 1382.0     | 1832.0     | 1661.0     |
| 17    | 1                | 18          | 56.5            | 1483.0     | -          | -          |
| 18    | 1                | 18          | 51.2            | 1237.0     | -          | -          |
| 19    | 2                | 18          | 74.1            | 1471.0     | 1245.0     | -          |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chrip Center Frequency: 5656.5MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 12          | 76.9            | 1110.0     | 1140.0     | -          |
| 2     | 1                | 12          | 50.2            | 1316.0     | -          | -          |
| 3     | 1                | 12          | 62.9            | 1520.0     | -          | -          |
| 4     | 1                | 12          | 64.7            | 1902.0     | -          | -          |
| 5     | 3                | 12          | 83.8            | 1410.0     | 1097.0     | 1621.0     |
| 6     | 1                | 12          | 65.4            | 1944.0     | -          | -          |
| 7     | 1                | 12          | 53.2            | 1024.0     | -          | -          |
| 8     | 1                | 12          | 51.7            | 1603.0     | -          | -          |
| 9     | 2                | 12          | 78.7            | 1804.0     | 1168.0     | -          |
| 10    | 2                | 12          | 72.4            | 1030.0     | 1343.0     | -          |
| 11    | 1                | 12          | 53.8            | 1327.0     | -          | -          |
| 12    | 2                | 12          | 73.6            | 1524.0     | 1553.0     | -          |
| 13    | 2                | 12          | 66.7            | 1722.0     | 1122.0     | -          |
| 14    | 2                | 12          | 82.5            | 1404.0     | 1019.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 20

Chirp Center Frequency: 5659.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 87.6            | 1565.0     | 1055.0     | 1840.0     |
| 2     | 3                | 20          | 85.2            | 1735.0     | 1541.0     | 1408.0     |
| 3     | 3                | 20          | 84.8            | 1534.0     | 1889.0     | 1463.0     |
| 4     | 2                | 20          | 77.9            | 1749.0     | 1460.0     | -          |
| 5     | 2                | 20          | 76.5            | 1518.0     | 1485.0     | -          |
| 6     | 1                | 20          | 60.9            | 1540.0     | -          | -          |
| 7     | 2                | 20          | 83.0            | 1080.0     | 1010.0     | -          |
| 8     | 2                | 20          | 80.4            | 1824.0     | 1752.0     | -          |
| 9     | 2                | 20          | 67.5            | 1764.0     | 1181.0     | -          |
| 10    | 1                | 20          | 62.1            | 1495.0     | -          | -          |
| 11    | 3                | 20          | 86.4            | 1773.0     | 1966.0     | 1263.0     |
| 12    | 3                | 20          | 84.3            | 1593.0     | 1188.0     | 1788.0     |
| 13    | 2                | 20          | 76.9            | 1226.0     | 1537.0     | -          |
| 14    | 3                | 20          | 95.8            | 1192.0     | 1298.0     | 1844.0     |
| 15    | 1                | 20          | 55.2            | 1644.0     | -          | -          |
| 16    | 1                | 20          | 59.0            | 1402.0     | -          | -          |
| 17    | 3                | 20          | 94.5            | 1296.0     | 1700.0     | 1283.0     |
| 18    | 3                | 20          | 91.9            | 1970.0     | 1978.0     | 1165.0     |
| 19    | 3                | 20          | 85.2            | 1732.0     | 1551.0     | 1189.0     |
| 20    | 2                | 20          | 69.5            | 1038.0     | 1224.0     | -          |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 12

Chirp Center Frequency: 5655.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 86.4            | 1259.0     | 1918.0     | 1455.0     |
| 2     | 3                | 10          | 92.2            | 1598.0     | 1719.0     | 1895.0     |
| 3     | 2                | 10          | 80.4            | 1816.0     | 1899.0     | -          |
| 4     | 1                | 10          | 54.3            | 1335.0     | -          | -          |
| 5     | 1                | 10          | 53.1            | 1303.0     | -          | -          |
| 6     | 2                | 10          | 69.4            | 1503.0     | 1546.0     | -          |
| 7     | 2                | 10          | 69.1            | 1279.0     | 1639.0     | -          |
| 8     | 3                | 10          | 100.0           | 1375.0     | 1438.0     | 1595.0     |
| 9     | 2                | 10          | 79.6            | 1239.0     | 1705.0     | -          |
| 10    | 3                | 10          | 88.4            | 1374.0     | 1579.0     | 1623.0     |
| 11    | 1                | 10          | 53.3            | 1016.0     | -          | -          |
| 12    | 1                | 10          | 65.3            | 1709.0     | -          | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chrip Center Frequency: 5656.5MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 55.3            | 1920.0     | -          | -          |
| 2     | 1                | 12          | 58.3            | 1797.0     | -          | -          |
| 3     | 2                | 12          | 72.3            | 1610.0     | 1039.0     | -          |
| 4     | 3                | 12          | 84.8            | 1131.0     | 1761.0     | 1721.0     |
| 5     | 2                | 12          | 82.5            | 1875.0     | 1431.0     | -          |
| 6     | 1                | 12          | 63.3            | 1095.0     | -          | -          |
| 7     | 2                | 12          | 80.0            | 1119.0     | 1913.0     | -          |
| 8     | 3                | 12          | 90.3            | 1660.0     | 1853.0     | 1123.0     |
| 9     | 3                | 12          | 91.1            | 1539.0     | 1783.0     | 1172.0     |
| 10    | 3                | 12          | 96.6            | 1525.0     | 1036.0     | 1385.0     |
| 11    | 2                | 12          | 82.7            | 1710.0     | 1990.0     | -          |
| 12    | 1                | 12          | 50.7            | 1234.0     | -          | -          |
| 13    | 2                | 12          | 78.4            | 1047.0     | 1109.0     | -          |
| 14    | 3                | 12          | 99.5            | 1299.0     | 1965.0     | 1869.0     |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_20  
 Number of Bursts in Trial: 12  
 Chrip Center Frequency: 5655.7MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 88.6            | 1501.0     | 1067.0     | 1927.0     |
| 2     | 1                | 10          | 57.4            | 1723.0     | -          | -          |
| 3     | 3                | 10          | 96.6            | 1086.0     | 1658.0     | 1324.0     |
| 4     | 2                | 10          | 69.7            | 1751.0     | 1945.0     | -          |
| 5     | 2                | 10          | 77.9            | 1642.0     | 1317.0     | -          |
| 6     | 1                | 10          | 62.0            | 1866.0     | -          | -          |
| 7     | 3                | 10          | 88.4            | 1997.0     | 1077.0     | 1366.0     |
| 8     | 3                | 10          | 97.3            | 1790.0     | 1896.0     | 1367.0     |
| 9     | 3                | 10          | 96.2            | 1391.0     | 1787.0     | 1672.0     |
| 10    | 3                | 10          | 95.4            | 1020.0     | 1892.0     | 1414.0     |
| 11    | 1                | 10          | 54.8            | 1084.0     | -          | -          |
| 12    | 2                | 10          | 80.4            | 1850.0     | 1436.0     | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5722.2MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 15          | 74.7            | 1619.0     | 1611.0     | -          |
| 2     | 1                | 15          | 57.1            | 1560.0     | -          | -          |
| 3     | 3                | 15          | 91.9            | 1392.0     | 1475.0     | 1276.0     |
| 4     | 2                | 15          | 83.1            | 1809.0     | 1772.0     | -          |
| 5     | 1                | 15          | 50.7            | 1003.0     | -          | -          |
| 6     | 2                | 15          | 79.2            | 1574.0     | 1600.0     | -          |
| 7     | 1                | 15          | 58.7            | 1186.0     | -          | -          |
| 8     | 2                | 15          | 71.0            | 1521.0     | 1567.0     | -          |
| 9     | 2                | 15          | 79.0            | 1777.0     | 1960.0     | -          |
| 10    | 2                | 15          | 68.5            | 1284.0     | 1428.0     | -          |
| 11    | 2                | 15          | 73.5            | 1904.0     | 1352.0     | -          |
| 12    | 2                | 15          | 70.5            | 1864.0     | 1115.0     | -          |
| 13    | 2                | 15          | 76.6            | 1045.0     | 1300.0     | -          |
| 14    | 2                | 15          | 81.2            | 1160.0     | 1675.0     | -          |
| 15    | 1                | 15          | 61.8            | 1277.0     | -          | -          |
| 16    | 3                | 15          | 94.9            | 1450.0     | 1206.0     | 1860.0     |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 12

Chirp Center Frequency: 5724.6MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 9           | 78.5            | 1653.0     | 1698.0     | -          |
| 2     | 3                | 9           | 89.8            | 1174.0     | 1962.0     | 1167.0     |
| 3     | 1                | 9           | 59.4            | 1982.0     | -          | -          |
| 4     | 2                | 9           | 79.6            | 1633.0     | 1890.0     | -          |
| 5     | 2                | 9           | 76.0            | 1112.0     | 1811.0     | -          |
| 6     | 1                | 9           | 53.6            | 1144.0     | -          | -          |
| 7     | 2                | 9           | 80.9            | 1220.0     | 1053.0     | -          |
| 8     | 1                | 9           | 61.6            | 1724.0     | -          | -          |
| 9     | 1                | 9           | 53.4            | 1901.0     | -          | -          |
| 10    | 1                | 9           | 59.9            | 1379.0     | -          | -          |
| 11    | 1                | 9           | 60.4            | 1453.0     | -          | -          |
| 12    | 3                | 9           | 91.4            | 1768.0     | 1726.0     | 1227.0     |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5720.2MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 20          | 77.0            | 1191.0     | 1363.0     | -          |
| 2     | 1                | 20          | 58.1            | 1248.0     | -          | -          |
| 3     | 1                | 20          | 62.1            | 1836.0     | -          | -          |
| 4     | 2                | 20          | 76.9            | 1334.0     | 1236.0     | -          |
| 5     | 2                | 20          | 80.0            | 1914.0     | 1852.0     | -          |
| 6     | 1                | 20          | 52.0            | 1701.0     | -          | -          |
| 7     | 3                | 20          | 88.6            | 1693.0     | 1995.0     | 1905.0     |
| 8     | 2                | 20          | 72.9            | 1922.0     | 1387.0     | -          |
| 9     | 3                | 20          | 98.5            | 1839.0     | 1746.0     | 1389.0     |
| 10    | 1                | 20          | 57.9            | 1193.0     | -          | -          |
| 11    | 3                | 20          | 95.9            | 1659.0     | 1870.0     | 1066.0     |
| 12    | 1                | 20          | 53.5            | 1162.0     | -          | -          |
| 13    | 3                | 20          | 92.0            | 1745.0     | 1654.0     | 1458.0     |
| 14    | 1                | 20          | 57.3            | 1834.0     | -          | -          |
| 15    | 2                | 20          | 70.5            | 1684.0     | 1586.0     | -          |
| 16    | 2                | 20          | 70.0            | 1042.0     | 1664.0     | -          |
| 17    | 3                | 20          | 84.0            | 1765.0     | 1630.0     | 1176.0     |
| 18    | 2                | 20          | 76.1            | 1557.0     | 1057.0     | -          |
| 19    | 3                | 20          | 93.2            | 1985.0     | 1018.0     | 1340.0     |
| 20    | 3                | 20          | 96.8            | 1760.0     | 1614.0     | 1817.0     |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 14

Chirp Center Frequency: 5723.4MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 50.1            | 1841.0     | -          | -          |
| 2     | 3                | 12          | 93.5            | 1590.0     | 1081.0     | 1413.0     |
| 3     | 2                | 12          | 68.8            | 1707.0     | 1577.0     | -          |
| 4     | 1                | 12          | 56.3            | 1056.0     | -          | -          |
| 5     | 3                | 12          | 86.0            | 1953.0     | 1108.0     | 1987.0     |
| 6     | 2                | 12          | 75.2            | 1572.0     | 1536.0     | -          |
| 7     | 1                | 12          | 54.4            | 1517.0     | -          | -          |
| 8     | 2                | 12          | 71.1            | 1329.0     | 1243.0     | -          |
| 9     | 2                | 12          | 76.2            | 1940.0     | 1770.0     | -          |
| 10    | 2                | 12          | 80.2            | 1098.0     | 1209.0     | -          |
| 11    | 2                | 12          | 79.7            | 1588.0     | 1214.0     | -          |
| 12    | 3                | 12          | 90.9            | 1615.0     | 1862.0     | 1601.0     |
| 13    | 2                | 12          | 68.7            | 1377.0     | 1441.0     | -          |
| 14    | 2                | 12          | 67.4            | 1872.0     | 1313.0     | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chrip Center Frequency: 5723.8MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 11          | 94.0            | 1643.0     | 1748.0     | 1941.0     |
| 2     | 2                | 11          | 70.8            | 1177.0     | 1201.0     | -          |
| 3     | 1                | 11          | 56.3            | 1006.0     | -          | -          |
| 4     | 3                | 11          | 96.7            | 1230.0     | 1163.0     | 1332.0     |
| 5     | 3                | 11          | 90.6            | 1217.0     | 1582.0     | 1498.0     |
| 6     | 2                | 11          | 74.5            | 1569.0     | 1281.0     | -          |
| 7     | 3                | 11          | 92.6            | 1065.0     | 1669.0     | 1222.0     |
| 8     | 3                | 11          | 89.0            | 1493.0     | 1135.0     | 1380.0     |
| 9     | 3                | 11          | 96.5            | 1607.0     | 1822.0     | 1602.0     |
| 10    | 2                | 11          | 70.5            | 1141.0     | 1178.0     | -          |
| 11    | 3                | 11          | 94.0            | 1009.0     | 1629.0     | 1956.0     |
| 12    | 1                | 11          | 55.8            | 1290.0     | -          | -          |
| 13    | 3                | 11          | 87.7            | 1435.0     | 1963.0     | 1164.0     |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5725.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 5           | 68.6            | 1306.0     | 1161.0     | -          |
| 2     | 2                | 5           | 83.1            | 1420.0     | 1315.0     | -          |
| 3     | 1                | 5           | 60.9            | 1687.0     | -          | -          |
| 4     | 2                | 5           | 77.7            | 1776.0     | 1158.0     | -          |
| 5     | 2                | 5           | 77.4            | 1793.0     | 1510.0     | -          |
| 6     | 2                | 5           | 66.8            | 1576.0     | 1323.0     | -          |
| 7     | 1                | 5           | 63.7            | 1333.0     | -          | -          |
| 8     | 3                | 5           | 91.2            | 1409.0     | 1681.0     | 1275.0     |
| 9     |                  |             |                 |            |            |            |
| 10    |                  |             |                 |            |            |            |
| 11    |                  |             |                 |            |            |            |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5721.8MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 16          | 83.6            | 1632.0     | 1195.0     | 1000.0     |
| 2     | 3                | 16          | 89.4            | 1173.0     | 1627.0     | 1656.0     |
| 3     | 1                | 16          | 55.8            | 1532.0     | -          | -          |
| 4     | 3                | 16          | 90.9            | 1981.0     | 1554.0     | 1998.0     |
| 5     | 1                | 16          | 54.7            | 1825.0     | -          | -          |
| 6     | 3                | 16          | 97.7            | 1734.0     | 1202.0     | 1250.0     |
| 7     | 2                | 16          | 67.5            | 1571.0     | 1434.0     | -          |
| 8     | 3                | 16          | 96.7            | 1589.0     | 1469.0     | 1268.0     |
| 9     | 2                | 16          | 68.3            | 1750.0     | 1954.0     | -          |
| 10    | 2                | 16          | 78.3            | 1591.0     | 1082.0     | -          |
| 11    | 1                | 16          | 55.0            | 1427.0     | -          | -          |
| 12    | 3                | 16          | 84.9            | 1129.0     | 1936.0     | 1199.0     |
| 13    | 2                | 16          | 74.6            | 1959.0     | 1856.0     | -          |
| 14    | 1                | 16          | 63.3            | 1885.0     | -          | -          |
| 15    | 3                | 16          | 99.8            | 1035.0     | 1515.0     | 1120.0     |
| 16    | 1                | 16          | 63.6            | 1647.0     | -          | -          |
| 17    | 3                | 16          | 87.3            | 1931.0     | 1051.0     | 1831.0     |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |
| 20    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5720.6MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 85.6            | 1946.0     | 1078.0     | 1015.0     |
| 2     | 2                | 19          | 68.6            | 1029.0     | 1780.0     | -          |
| 3     | 1                | 19          | 54.2            | 1111.0     | -          | -          |
| 4     | 1                | 19          | 61.2            | 1104.0     | -          | -          |
| 5     | 3                | 19          | 97.1            | 1157.0     | 1969.0     | 1100.0     |
| 6     | 3                | 19          | 98.3            | 1142.0     | 1699.0     | 1622.0     |
| 7     | 1                | 19          | 62.4            | 1655.0     | -          | -          |
| 8     | 2                | 19          | 80.2            | 1126.0     | 1769.0     | -          |
| 9     | 3                | 19          | 87.5            | 1216.0     | 1448.0     | 1179.0     |
| 10    | 3                | 19          | 85.8            | 1847.0     | 1348.0     | 1472.0     |
| 11    | 3                | 19          | 88.1            | 1023.0     | 1124.0     | 1631.0     |
| 12    | 1                | 19          | 65.3            | 1848.0     | -          | -          |
| 13    | 1                | 19          | 52.5            | 1470.0     | -          | -          |
| 14    | 1                | 19          | 52.3            | 1312.0     | -          | -          |
| 15    | 2                | 19          | 74.1            | 1915.0     | 1200.0     | -          |
| 16    | 1                | 19          | 54.9            | 1479.0     | -          | -          |
| 17    | 2                | 19          | 76.2            | 1376.0     | 1502.0     | -          |
| 18    | 1                | 19          | 60.4            | 1758.0     | -          | -          |
| 19    | 2                | 19          | 81.5            | 1491.0     | 1103.0     | -          |
| 20    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 12

Chirp Center Frequency: 5724.2MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 50.5            | 1857.0     | -          | -          |
| 2     | 1                | 10          | 55.7            | 1246.0     | -          | -          |
| 3     | 3                | 10          | 85.8            | 1774.0     | 1002.0     | 1967.0     |
| 4     | 2                | 10          | 76.9            | 1125.0     | 1474.0     | -          |
| 5     | 2                | 10          | 75.1            | 1254.0     | 1052.0     | -          |
| 6     | 3                | 10          | 92.3            | 1180.0     | 1486.0     | 1492.0     |
| 7     | 2                | 10          | 78.1            | 1301.0     | 1757.0     | -          |
| 8     | 3                | 10          | 92.2            | 1898.0     | 1252.0     | 1713.0     |
| 9     | 3                | 10          | 89.0            | 1260.0     | 1706.0     | 1411.0     |
| 10    | 2                | 10          | 70.9            | 1578.0     | 1620.0     | -          |
| 11    | 1                | 10          | 63.1            | 1782.0     | -          | -          |
| 12    | 1                | 10          | 55.3            | 1522.0     | -          | -          |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5721.4MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 83.4            | 1454.0     | 1205.0     | 1801.0     |
| 2     | 3                | 17          | 97.3            | 1319.0     | 1826.0     | 1635.0     |
| 3     | 3                | 17          | 90.4            | 1079.0     | 1986.0     | 1674.0     |
| 4     | 3                | 17          | 91.8            | 1563.0     | 1151.0     | 1802.0     |
| 5     | 3                | 17          | 98.2            | 1876.0     | 1977.0     | 1766.0     |
| 6     | 1                | 17          | 59.5            | 1952.0     | -          | -          |
| 7     | 2                | 17          | 80.0            | 1253.0     | 1137.0     | -          |
| 8     | 3                | 17          | 86.5            | 1054.0     | 1128.0     | 1828.0     |
| 9     | 3                | 17          | 91.1            | 1105.0     | 1599.0     | 1442.0     |
| 10    | 3                | 17          | 93.5            | 1867.0     | 1373.0     | 1087.0     |
| 11    | 1                | 17          | 60.7            | 1033.0     | -          | -          |
| 12    | 2                | 17          | 67.2            | 1288.0     | 1405.0     | -          |
| 13    | 1                | 17          | 61.8            | 1585.0     | -          | -          |
| 14    | 2                | 17          | 79.4            | 1933.0     | 1667.0     | -          |
| 15    | 2                | 17          | 81.4            | 1096.0     | 1464.0     | -          |
| 16    | 1                | 17          | 65.7            | 1496.0     | -          | -          |
| 17    | 2                | 17          | 76.0            | 1733.0     | 1255.0     | -          |
| 18    | 2                | 17          | 81.0            | 1326.0     | 1668.0     | -          |

## A.2 The Frequency Hopping Radar pattern

### 802.11n (HT20)

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.505G         | 2    | 5.674G         | 3    | 5.257G         | 4    | 5.690G         |
| 5                                                | 5.520G         | 6    | 5.262G         | 7    | 5.356G         | 8    | 5.439G         |
| 9                                                | 5.685G         | 10   | 5.332G         | 11   | 5.720G         | 12   | 5.579G         |
| 13                                               | 5.313G         | 14   | 5.383G         | 15   | 5.697G         | 16   | 5.318G         |
| 17                                               | 5.695G         | 18   | 5.461G         | 19   | 5.719G         | 20   | 5.606G         |
| 21                                               | 5.533G         | 22   | 5.287G         | 23   | 5.675G         | 24   | 5.540G         |
| 25                                               | 5.604G         | 26   | 5.591G         | 27   | 5.564G         | 28   | 5.612G         |
| 29                                               | 5.399G         | 30   | 5.593G         | 31   | 5.600G         | 32   | 5.478G         |
| 33                                               | 5.667G         | 34   | 5.434G         | 35   | 5.299G         | 36   | 5.387G         |
| 37                                               | 5.319G         | 38   | 5.376G         | 39   | 5.710G         | 40   | 5.581G         |
| 41                                               | 5.624G         | 42   | 5.302G         | 43   | 5.406G         | 44   | 5.272G         |
| 45                                               | 5.531G         | 46   | 5.298G         | 47   | 5.303G         | 48   | 5.265G         |
| 49                                               | 5.688G         | 50   | 5.372G         | 51   | 5.699G         | 52   | 5.550G         |
| 53                                               | 5.336G         | 54   | 5.308G         | 55   | 5.565G         | 56   | 5.269G         |
| 57                                               | 5.635G         | 58   | 5.650G         | 59   | 5.357G         | 60   | 5.462G         |
| 61                                               | 5.389G         | 62   | 5.626G         | 63   | 5.411G         | 64   | 5.386G         |
| 65                                               | 5.665G         | 66   | 5.481G         | 67   | 5.354G         | 68   | 5.267G         |
| 69                                               | 5.279G         | 70   | 5.558G         | 71   | 5.578G         | 72   | 5.647G         |
| 73                                               | 5.717G         | 74   | 5.382G         | 75   | 5.297G         | 76   | 5.601G         |
| 77                                               | 5.630G         | 78   | 5.603G         | 79   | 5.676G         | 80   | 5.657G         |
| 81                                               | 5.608G         | 82   | 5.329G         | 83   | 5.388G         | 84   | 5.602G         |
| 85                                               | 5.549G         | 86   | 5.451G         | 87   | 5.709G         | 88   | 5.716G         |
| 89                                               | 5.643G         | 90   | 5.285G         | 91   | 5.377G         | 92   | 5.443G         |
| 93                                               | 5.535G         | 94   | 5.584G         | 95   | 5.506G         | 96   | 5.723G         |
| 97                                               | 5.507G         | 98   | 5.712G         | 99   | 5.680G         | 100  | 5.724G         |

## Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_02

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.350G         | 2    | 5.673G         | 3    | 5.251G         | 4    | 5.286G         |
| 5    | 5.699G         | 6    | 5.714G         | 7    | 5.500G         | 8    | 5.265G         |
| 9    | 5.299G         | 10   | 5.455G         | 11   | 5.359G         | 12   | 5.611G         |
| 13   | 5.487G         | 14   | 5.448G         | 15   | 5.663G         | 16   | 5.373G         |
| 17   | 5.269G         | 18   | 5.614G         | 19   | 5.439G         | 20   | 5.385G         |
| 21   | 5.680G         | 22   | 5.603G         | 23   | 5.363G         | 24   | 5.341G         |
| 25   | 5.303G         | 26   | 5.504G         | 27   | 5.576G         | 28   | 5.584G         |
| 29   | 5.632G         | 30   | 5.535G         | 31   | 5.402G         | 32   | 5.597G         |
| 33   | 5.308G         | 34   | 5.566G         | 35   | 5.689G         | 36   | 5.301G         |
| 37   | 5.494G         | 38   | 5.400G         | 39   | 5.513G         | 40   | 5.691G         |
| 41   | 5.553G         | 42   | 5.343G         | 43   | 5.532G         | 44   | 5.520G         |
| 45   | 5.664G         | 46   | 5.718G         | 47   | 5.612G         | 48   | 5.444G         |
| 49   | 5.452G         | 50   | 5.588G         | 51   | 5.307G         | 52   | 5.422G         |
| 53   | 5.662G         | 54   | 5.275G         | 55   | 5.583G         | 56   | 5.578G         |
| 57   | 5.595G         | 58   | 5.479G         | 59   | 5.410G         | 60   | 5.693G         |
| 61   | 5.465G         | 62   | 5.312G         | 63   | 5.268G         | 64   | 5.629G         |
| 65   | 5.671G         | 66   | 5.284G         | 67   | 5.406G         | 68   | 5.624G         |
| 69   | 5.300G         | 70   | 5.568G         | 71   | 5.318G         | 72   | 5.711G         |
| 73   | 5.330G         | 74   | 5.399G         | 75   | 5.694G         | 76   | 5.631G         |
| 77   | 5.416G         | 78   | 5.723G         | 79   | 5.637G         | 80   | 5.339G         |
| 81   | 5.252G         | 82   | 5.703G         | 83   | 5.654G         | 84   | 5.538G         |
| 85   | 5.478G         | 86   | 5.482G         | 87   | 5.474G         | 88   | 5.407G         |
| 89   | 5.279G         | 90   | 5.316G         | 91   | 5.592G         | 92   | 5.627G         |
| 93   | 5.594G         | 94   | 5.633G         | 95   | 5.380G         | 96   | 5.598G         |
| 97   | 5.533G         | 98   | 5.446G         | 99   | 5.526G         | 100  | 5.555G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.501G         | 2    | 5.592G         | 3    | 5.263G         | 4    | 5.484G         |
| 5    | 5.549G         | 6    | 5.346G         | 7    | 5.361G         | 8    | 5.576G         |
| 9    | 5.264G         | 10   | 5.700G         | 11   | 5.623G         | 12   | 5.324G         |
| 13   | 5.640G         | 14   | 5.669G         | 15   | 5.344G         | 16   | 5.579G         |
| 17   | 5.703G         | 18   | 5.585G         | 19   | 5.382G         | 20   | 5.601G         |
| 21   | 5.364G         | 22   | 5.296G         | 23   | 5.524G         | 24   | 5.532G         |
| 25   | 5.546G         | 26   | 5.555G         | 27   | 5.710G         | 28   | 5.644G         |
| 29   | 5.465G         | 30   | 5.456G         | 31   | 5.526G         | 32   | 5.627G         |
| 33   | 5.621G         | 34   | 5.717G         | 35   | 5.667G         | 36   | 5.652G         |
| 37   | 5.659G         | 38   | 5.498G         | 39   | 5.478G         | 40   | 5.386G         |
| 41   | 5.654G         | 42   | 5.508G         | 43   | 5.716G         | 44   | 5.599G         |
| 45   | 5.408G         | 46   | 5.427G         | 47   | 5.306G         | 48   | 5.402G         |
| 49   | 5.337G         | 50   | 5.464G         | 51   | 5.712G         | 52   | 5.358G         |
| 53   | 5.278G         | 54   | 5.680G         | 55   | 5.365G         | 56   | 5.442G         |
| 57   | 5.432G         | 58   | 5.538G         | 59   | 5.315G         | 60   | 5.587G         |
| 61   | 5.342G         | 62   | 5.615G         | 63   | 5.674G         | 64   | 5.563G         |
| 65   | 5.668G         | 66   | 5.460G         | 67   | 5.590G         | 68   | 5.542G         |
| 69   | 5.685G         | 70   | 5.469G         | 71   | 5.453G         | 72   | 5.429G         |
| 73   | 5.504G         | 74   | 5.660G         | 75   | 5.353G         | 76   | 5.616G         |
| 77   | 5.417G         | 78   | 5.672G         | 79   | 5.331G         | 80   | 5.393G         |
| 81   | 5.449G         | 82   | 5.347G         | 83   | 5.610G         | 84   | 5.706G         |
| 85   | 5.314G         | 86   | 5.321G         | 87   | 5.415G         | 88   | 5.724G         |
| 89   | 5.392G         | 90   | 5.437G         | 91   | 5.691G         | 92   | 5.407G         |
| 93   | 5.625G         | 94   | 5.463G         | 95   | 5.582G         | 96   | 5.646G         |
| 97   | 5.622G         | 98   | 5.688G         | 99   | 5.266G         | 100  | 5.428G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.487G         | 2    | 5.498G         | 3    | 5.707G         | 4    | 5.277G         |
| 5    | 5.312G         | 6    | 5.447G         | 7    | 5.259G         | 8    | 5.548G         |
| 9    | 5.492G         | 10   | 5.699G         | 11   | 5.308G         | 12   | 5.677G         |
| 13   | 5.328G         | 14   | 5.520G         | 15   | 5.318G         | 16   | 5.433G         |
| 17   | 5.440G         | 18   | 5.294G         | 19   | 5.486G         | 20   | 5.258G         |
| 21   | 5.370G         | 22   | 5.405G         | 23   | 5.266G         | 24   | 5.380G         |
| 25   | 5.292G         | 26   | 5.590G         | 27   | 5.459G         | 28   | 5.495G         |
| 29   | 5.541G         | 30   | 5.564G         | 31   | 5.472G         | 32   | 5.680G         |
| 33   | 5.558G         | 34   | 5.319G         | 35   | 5.645G         | 36   | 5.475G         |
| 37   | 5.591G         | 38   | 5.375G         | 39   | 5.678G         | 40   | 5.649G         |
| 41   | 5.437G         | 42   | 5.674G         | 43   | 5.706G         | 44   | 5.460G         |
| 45   | 5.316G         | 46   | 5.636G         | 47   | 5.301G         | 48   | 5.660G         |
| 49   | 5.416G         | 50   | 5.284G         | 51   | 5.321G         | 52   | 5.545G         |
| 53   | 5.260G         | 54   | 5.353G         | 55   | 5.489G         | 56   | 5.334G         |
| 57   | 5.256G         | 58   | 5.600G         | 59   | 5.307G         | 60   | 5.683G         |
| 61   | 5.288G         | 62   | 5.637G         | 63   | 5.631G         | 64   | 5.253G         |
| 65   | 5.604G         | 66   | 5.709G         | 67   | 5.568G         | 68   | 5.697G         |
| 69   | 5.404G         | 70   | 5.508G         | 71   | 5.681G         | 72   | 5.345G         |
| 73   | 5.300G         | 74   | 5.497G         | 75   | 5.633G         | 76   | 5.655G         |
| 77   | 5.415G         | 78   | 5.333G         | 79   | 5.251G         | 80   | 5.374G         |
| 81   | 5.451G         | 82   | 5.443G         | 83   | 5.625G         | 84   | 5.473G         |
| 85   | 5.584G         | 86   | 5.338G         | 87   | 5.647G         | 88   | 5.304G         |
| 89   | 5.525G         | 90   | 5.542G         | 91   | 5.361G         | 92   | 5.650G         |
| 93   | 5.482G         | 94   | 5.666G         | 95   | 5.608G         | 96   | 5.589G         |
| 97   | 5.427G         | 98   | 5.384G         | 99   | 5.457G         | 100  | 5.355G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.583G         | 2    | 5.381G         | 3    | 5.662G         | 4    | 5.649G         |
| 5    | 5.275G         | 6    | 5.678G         | 7    | 5.287G         | 8    | 5.452G         |
| 9    | 5.461G         | 10   | 5.670G         | 11   | 5.279G         | 12   | 5.702G         |
| 13   | 5.399G         | 14   | 5.420G         | 15   | 5.479G         | 16   | 5.278G         |
| 17   | 5.487G         | 18   | 5.484G         | 19   | 5.320G         | 20   | 5.433G         |
| 21   | 5.550G         | 22   | 5.333G         | 23   | 5.573G         | 24   | 5.456G         |
| 25   | 5.299G         | 26   | 5.261G         | 27   | 5.263G         | 28   | 5.614G         |
| 29   | 5.321G         | 30   | 5.300G         | 31   | 5.391G         | 32   | 5.551G         |
| 33   | 5.600G         | 34   | 5.509G         | 35   | 5.718G         | 36   | 5.522G         |
| 37   | 5.396G         | 38   | 5.713G         | 39   | 5.457G         | 40   | 5.717G         |
| 41   | 5.659G         | 42   | 5.607G         | 43   | 5.536G         | 44   | 5.370G         |
| 45   | 5.329G         | 46   | 5.708G         | 47   | 5.534G         | 48   | 5.429G         |
| 49   | 5.492G         | 50   | 5.379G         | 51   | 5.653G         | 52   | 5.545G         |
| 53   | 5.620G         | 54   | 5.681G         | 55   | 5.546G         | 56   | 5.715G         |
| 57   | 5.616G         | 58   | 5.591G         | 59   | 5.508G         | 60   | 5.375G         |
| 61   | 5.271G         | 62   | 5.596G         | 63   | 5.500G         | 64   | 5.455G         |
| 65   | 5.318G         | 66   | 5.585G         | 67   | 5.336G         | 68   | 5.657G         |
| 69   | 5.598G         | 70   | 5.251G         | 71   | 5.512G         | 72   | 5.668G         |
| 73   | 5.665G         | 74   | 5.667G         | 75   | 5.682G         | 76   | 5.407G         |
| 77   | 5.489G         | 78   | 5.309G         | 79   | 5.490G         | 80   | 5.418G         |
| 81   | 5.257G         | 82   | 5.697G         | 83   | 5.719G         | 84   | 5.341G         |
| 85   | 5.689G         | 86   | 5.647G         | 87   | 5.568G         | 88   | 5.699G         |
| 89   | 5.674G         | 90   | 5.572G         | 91   | 5.619G         | 92   | 5.408G         |
| 93   | 5.664G         | 94   | 5.706G         | 95   | 5.360G         | 96   | 5.439G         |
| 97   | 5.284G         | 98   | 5.312G         | 99   | 5.367G         | 100  | 5.478G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.493G         | 2    | 5.665G         | 3    | 5.291G         | 4    | 5.553G         |
| 5    | 5.367G         | 6    | 5.518G         | 7    | 5.444G         | 8    | 5.350G         |
| 9    | 5.338G         | 10   | 5.467G         | 11   | 5.262G         | 12   | 5.629G         |
| 13   | 5.439G         | 14   | 5.406G         | 15   | 5.267G         | 16   | 5.293G         |
| 17   | 5.384G         | 18   | 5.447G         | 19   | 5.647G         | 20   | 5.716G         |
| 21   | 5.583G         | 22   | 5.697G         | 23   | 5.260G         | 24   | 5.609G         |
| 25   | 5.465G         | 26   | 5.632G         | 27   | 5.268G         | 28   | 5.593G         |
| 29   | 5.611G         | 30   | 5.546G         | 31   | 5.466G         | 32   | 5.478G         |
| 33   | 5.653G         | 34   | 5.660G         | 35   | 5.357G         | 36   | 5.454G         |
| 37   | 5.605G         | 38   | 5.502G         | 39   | 5.604G         | 40   | 5.703G         |
| 41   | 5.637G         | 42   | 5.519G         | 43   | 5.258G         | 44   | 5.601G         |
| 45   | 5.516G         | 46   | 5.346G         | 47   | 5.645G         | 48   | 5.638G         |
| 49   | 5.418G         | 50   | 5.354G         | 51   | 5.644G         | 52   | 5.456G         |
| 53   | 5.682G         | 54   | 5.702G         | 55   | 5.607G         | 56   | 5.503G         |
| 57   | 5.396G         | 58   | 5.441G         | 59   | 5.273G         | 60   | 5.548G         |
| 61   | 5.314G         | 62   | 5.371G         | 63   | 5.306G         | 64   | 5.360G         |
| 65   | 5.691G         | 66   | 5.413G         | 67   | 5.551G         | 68   | 5.485G         |
| 69   | 5.495G         | 70   | 5.419G         | 71   | 5.531G         | 72   | 5.492G         |
| 73   | 5.499G         | 74   | 5.392G         | 75   | 5.347G         | 76   | 5.497G         |
| 77   | 5.692G         | 78   | 5.342G         | 79   | 5.723G         | 80   | 5.356G         |
| 81   | 5.484G         | 82   | 5.491G         | 83   | 5.705G         | 84   | 5.563G         |
| 85   | 5.394G         | 86   | 5.397G         | 87   | 5.534G         | 88   | 5.269G         |
| 89   | 5.471G         | 90   | 5.514G         | 91   | 5.339G         | 92   | 5.640G         |
| 93   | 5.332G         | 94   | 5.680G         | 95   | 5.482G         | 96   | 5.488G         |
| 97   | 5.429G         | 98   | 5.430G         | 99   | 5.464G         | 100  | 5.295G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.320G         | 2    | 5.390G         | 3    | 5.286G         | 4    | 5.418G         |
| 5    | 5.603G         | 6    | 5.488G         | 7    | 5.457G         | 8    | 5.410G         |
| 9    | 5.299G         | 10   | 5.545G         | 11   | 5.358G         | 12   | 5.355G         |
| 13   | 5.454G         | 14   | 5.277G         | 15   | 5.687G         | 16   | 5.582G         |
| 17   | 5.434G         | 18   | 5.475G         | 19   | 5.619G         | 20   | 5.627G         |
| 21   | 5.307G         | 22   | 5.317G         | 23   | 5.319G         | 24   | 5.421G         |
| 25   | 5.556G         | 26   | 5.541G         | 27   | 5.623G         | 28   | 5.546G         |
| 29   | 5.336G         | 30   | 5.578G         | 31   | 5.304G         | 32   | 5.325G         |
| 33   | 5.574G         | 34   | 5.382G         | 35   | 5.570G         | 36   | 5.544G         |
| 37   | 5.700G         | 38   | 5.571G         | 39   | 5.491G         | 40   | 5.465G         |
| 41   | 5.272G         | 42   | 5.536G         | 43   | 5.279G         | 44   | 5.402G         |
| 45   | 5.628G         | 46   | 5.595G         | 47   | 5.479G         | 48   | 5.401G         |
| 49   | 5.451G         | 50   | 5.356G         | 51   | 5.309G         | 52   | 5.561G         |
| 53   | 5.539G         | 54   | 5.685G         | 55   | 5.648G         | 56   | 5.693G         |
| 57   | 5.414G         | 58   | 5.679G         | 59   | 5.362G         | 60   | 5.695G         |
| 61   | 5.256G         | 62   | 5.283G         | 63   | 5.376G         | 64   | 5.706G         |
| 65   | 5.504G         | 66   | 5.441G         | 67   | 5.284G         | 68   | 5.449G         |
| 69   | 5.476G         | 70   | 5.462G         | 71   | 5.381G         | 72   | 5.343G         |
| 73   | 5.638G         | 74   | 5.689G         | 75   | 5.357G         | 76   | 5.389G         |
| 77   | 5.255G         | 78   | 5.303G         | 79   | 5.592G         | 80   | 5.675G         |
| 81   | 5.450G         | 82   | 5.611G         | 83   | 5.566G         | 84   | 5.265G         |
| 85   | 5.510G         | 86   | 5.724G         | 87   | 5.680G         | 88   | 5.392G         |
| 89   | 5.296G         | 90   | 5.605G         | 91   | 5.490G         | 92   | 5.631G         |
| 93   | 5.560G         | 94   | 5.612G         | 95   | 5.555G         | 96   | 5.487G         |
| 97   | 5.530G         | 98   | 5.327G         | 99   | 5.573G         | 100  | 5.704G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.537G         | 2    | 5.669G         | 3    | 5.683G         | 4    | 5.517G         |
| 5    | 5.583G         | 6    | 5.304G         | 7    | 5.607G         | 8    | 5.656G         |
| 9    | 5.424G         | 10   | 5.441G         | 11   | 5.256G         | 12   | 5.552G         |
| 13   | 5.599G         | 14   | 5.277G         | 15   | 5.349G         | 16   | 5.707G         |
| 17   | 5.521G         | 18   | 5.478G         | 19   | 5.612G         | 20   | 5.302G         |
| 21   | 5.677G         | 22   | 5.581G         | 23   | 5.300G         | 24   | 5.412G         |
| 25   | 5.381G         | 26   | 5.259G         | 27   | 5.637G         | 28   | 5.251G         |
| 29   | 5.296G         | 30   | 5.565G         | 31   | 5.306G         | 32   | 5.285G         |
| 33   | 5.648G         | 34   | 5.563G         | 35   | 5.452G         | 36   | 5.555G         |
| 37   | 5.650G         | 38   | 5.495G         | 39   | 5.503G         | 40   | 5.594G         |
| 41   | 5.469G         | 42   | 5.582G         | 43   | 5.307G         | 44   | 5.255G         |
| 45   | 5.253G         | 46   | 5.323G         | 47   | 5.676G         | 48   | 5.709G         |
| 49   | 5.720G         | 50   | 5.712G         | 51   | 5.679G         | 52   | 5.482G         |
| 53   | 5.438G         | 54   | 5.415G         | 55   | 5.268G         | 56   | 5.636G         |
| 57   | 5.593G         | 58   | 5.427G         | 59   | 5.383G         | 60   | 5.661G         |
| 61   | 5.560G         | 62   | 5.697G         | 63   | 5.675G         | 64   | 5.468G         |
| 65   | 5.649G         | 66   | 5.298G         | 67   | 5.651G         | 68   | 5.400G         |
| 69   | 5.647G         | 70   | 5.467G         | 71   | 5.329G         | 72   | 5.652G         |
| 73   | 5.589G         | 74   | 5.347G         | 75   | 5.628G         | 76   | 5.500G         |
| 77   | 5.689G         | 78   | 5.368G         | 79   | 5.611G         | 80   | 5.387G         |
| 81   | 5.608G         | 82   | 5.473G         | 83   | 5.575G         | 84   | 5.278G         |
| 85   | 5.704G         | 86   | 5.662G         | 87   | 5.342G         | 88   | 5.592G         |
| 89   | 5.686G         | 90   | 5.702G         | 91   | 5.624G         | 92   | 5.434G         |
| 93   | 5.416G         | 94   | 5.553G         | 95   | 5.576G         | 96   | 5.477G         |
| 97   | 5.464G         | 98   | 5.396G         | 99   | 5.386G         | 100  | 5.432G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.349G         | 2    | 5.590G         | 3    | 5.466G         | 4    | 5.546G         |
| 5    | 5.530G         | 6    | 5.355G         | 7    | 5.575G         | 8    | 5.709G         |
| 9    | 5.350G         | 10   | 5.724G         | 11   | 5.456G         | 12   | 5.682G         |
| 13   | 5.625G         | 14   | 5.554G         | 15   | 5.713G         | 16   | 5.477G         |
| 17   | 5.432G         | 18   | 5.412G         | 19   | 5.454G         | 20   | 5.402G         |
| 21   | 5.357G         | 22   | 5.389G         | 23   | 5.626G         | 24   | 5.717G         |
| 25   | 5.282G         | 26   | 5.524G         | 27   | 5.697G         | 28   | 5.264G         |
| 29   | 5.467G         | 30   | 5.720G         | 31   | 5.459G         | 32   | 5.313G         |
| 33   | 5.640G         | 34   | 5.329G         | 35   | 5.605G         | 36   | 5.427G         |
| 37   | 5.295G         | 38   | 5.567G         | 39   | 5.302G         | 40   | 5.635G         |
| 41   | 5.278G         | 42   | 5.578G         | 43   | 5.461G         | 44   | 5.700G         |
| 45   | 5.455G         | 46   | 5.327G         | 47   | 5.592G         | 48   | 5.275G         |
| 49   | 5.632G         | 50   | 5.453G         | 51   | 5.422G         | 52   | 5.300G         |
| 53   | 5.721G         | 54   | 5.650G         | 55   | 5.704G         | 56   | 5.380G         |
| 57   | 5.403G         | 58   | 5.373G         | 59   | 5.367G         | 60   | 5.372G         |
| 61   | 5.492G         | 62   | 5.690G         | 63   | 5.618G         | 64   | 5.540G         |
| 65   | 5.508G         | 66   | 5.485G         | 67   | 5.496G         | 68   | 5.548G         |
| 69   | 5.512G         | 70   | 5.687G         | 71   | 5.296G         | 72   | 5.676G         |
| 73   | 5.499G         | 74   | 5.440G         | 75   | 5.579G         | 76   | 5.604G         |
| 77   | 5.608G         | 78   | 5.723G         | 79   | 5.576G         | 80   | 5.703G         |
| 81   | 5.433G         | 82   | 5.612G         | 83   | 5.482G         | 84   | 5.583G         |
| 85   | 5.633G         | 86   | 5.582G         | 87   | 5.437G         | 88   | 5.521G         |
| 89   | 5.601G         | 90   | 5.391G         | 91   | 5.647G         | 92   | 5.393G         |
| 93   | 5.419G         | 94   | 5.598G         | 95   | 5.434G         | 96   | 5.597G         |
| 97   | 5.446G         | 98   | 5.478G         | 99   | 5.551G         | 100  | 5.621G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.550G         | 2    | 5.265G         | 3    | 5.435G         | 4    | 5.470G         |
| 5    | 5.657G         | 6    | 5.490G         | 7    | 5.566G         | 8    | 5.303G         |
| 9    | 5.400G         | 10   | 5.263G         | 11   | 5.271G         | 12   | 5.372G         |
| 13   | 5.448G         | 14   | 5.659G         | 15   | 5.549G         | 16   | 5.571G         |
| 17   | 5.381G         | 18   | 5.398G         | 19   | 5.278G         | 20   | 5.511G         |
| 21   | 5.583G         | 22   | 5.333G         | 23   | 5.482G         | 24   | 5.494G         |
| 25   | 5.353G         | 26   | 5.668G         | 27   | 5.460G         | 28   | 5.563G         |
| 29   | 5.706G         | 30   | 5.421G         | 31   | 5.283G         | 32   | 5.703G         |
| 33   | 5.554G         | 34   | 5.503G         | 35   | 5.513G         | 36   | 5.461G         |
| 37   | 5.355G         | 38   | 5.341G         | 39   | 5.532G         | 40   | 5.528G         |
| 41   | 5.380G         | 42   | 5.698G         | 43   | 5.392G         | 44   | 5.582G         |
| 45   | 5.285G         | 46   | 5.425G         | 47   | 5.454G         | 48   | 5.617G         |
| 49   | 5.323G         | 50   | 5.281G         | 51   | 5.544G         | 52   | 5.466G         |
| 53   | 5.447G         | 54   | 5.420G         | 55   | 5.600G         | 56   | 5.676G         |
| 57   | 5.422G         | 58   | 5.638G         | 59   | 5.324G         | 60   | 5.295G         |
| 61   | 5.359G         | 62   | 5.483G         | 63   | 5.628G         | 64   | 5.350G         |
| 65   | 5.690G         | 66   | 5.389G         | 67   | 5.495G         | 68   | 5.252G         |
| 69   | 5.603G         | 70   | 5.688G         | 71   | 5.266G         | 72   | 5.696G         |
| 73   | 5.713G         | 74   | 5.649G         | 75   | 5.465G         | 76   | 5.413G         |
| 77   | 5.551G         | 78   | 5.615G         | 79   | 5.620G         | 80   | 5.358G         |
| 81   | 5.567G         | 82   | 5.442G         | 83   | 5.524G         | 84   | 5.506G         |
| 85   | 5.296G         | 86   | 5.597G         | 87   | 5.360G         | 88   | 5.484G         |
| 89   | 5.430G         | 90   | 5.407G         | 91   | 5.612G         | 92   | 5.619G         |
| 93   | 5.488G         | 94   | 5.631G         | 95   | 5.375G         | 96   | 5.432G         |
| 97   | 5.641G         | 98   | 5.342G         | 99   | 5.443G         | 100  | 5.590G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.408G         | 2    | 5.306G         | 3    | 5.263G         | 4    | 5.393G         |
| 5    | 5.321G         | 6    | 5.559G         | 7    | 5.525G         | 8    | 5.427G         |
| 9    | 5.723G         | 10   | 5.451G         | 11   | 5.696G         | 12   | 5.626G         |
| 13   | 5.709G         | 14   | 5.553G         | 15   | 5.257G         | 16   | 5.474G         |
| 17   | 5.261G         | 18   | 5.669G         | 19   | 5.462G         | 20   | 5.348G         |
| 21   | 5.487G         | 22   | 5.589G         | 23   | 5.625G         | 24   | 5.294G         |
| 25   | 5.262G         | 26   | 5.711G         | 27   | 5.362G         | 28   | 5.623G         |
| 29   | 5.568G         | 30   | 5.564G         | 31   | 5.666G         | 32   | 5.413G         |
| 33   | 5.538G         | 34   | 5.484G         | 35   | 5.641G         | 36   | 5.520G         |
| 37   | 5.721G         | 38   | 5.483G         | 39   | 5.659G         | 40   | 5.339G         |
| 41   | 5.300G         | 42   | 5.478G         | 43   | 5.563G         | 44   | 5.269G         |
| 45   | 5.684G         | 46   | 5.663G         | 47   | 5.252G         | 48   | 5.254G         |
| 49   | 5.480G         | 50   | 5.655G         | 51   | 5.521G         | 52   | 5.377G         |
| 53   | 5.603G         | 54   | 5.627G         | 55   | 5.314G         | 56   | 5.364G         |
| 57   | 5.629G         | 58   | 5.365G         | 59   | 5.351G         | 60   | 5.528G         |
| 61   | 5.657G         | 62   | 5.447G         | 63   | 5.270G         | 64   | 5.477G         |
| 65   | 5.515G         | 66   | 5.295G         | 67   | 5.268G         | 68   | 5.383G         |
| 69   | 5.251G         | 70   | 5.458G         | 71   | 5.320G         | 72   | 5.374G         |
| 73   | 5.492G         | 74   | 5.358G         | 75   | 5.357G         | 76   | 5.410G         |
| 77   | 5.676G         | 78   | 5.588G         | 79   | 5.414G         | 80   | 5.399G         |
| 81   | 5.498G         | 82   | 5.491G         | 83   | 5.604G         | 84   | 5.658G         |
| 85   | 5.330G         | 86   | 5.613G         | 87   | 5.317G         | 88   | 5.539G         |
| 89   | 5.652G         | 90   | 5.403G         | 91   | 5.675G         | 92   | 5.642G         |
| 93   | 5.551G         | 94   | 5.343G         | 95   | 5.460G         | 96   | 5.543G         |
| 97   | 5.369G         | 98   | 5.276G         | 99   | 5.532G         | 100  | 5.708G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.603G         | 2    | 5.666G         | 3    | 5.522G         | 4    | 5.502G         |
| 5    | 5.678G         | 6    | 5.480G         | 7    | 5.479G         | 8    | 5.281G         |
| 9    | 5.364G         | 10   | 5.297G         | 11   | 5.713G         | 12   | 5.316G         |
| 13   | 5.476G         | 14   | 5.662G         | 15   | 5.437G         | 16   | 5.710G         |
| 17   | 5.561G         | 18   | 5.306G         | 19   | 5.416G         | 20   | 5.463G         |
| 21   | 5.268G         | 22   | 5.498G         | 23   | 5.674G         | 24   | 5.313G         |
| 25   | 5.549G         | 26   | 5.294G         | 27   | 5.558G         | 28   | 5.637G         |
| 29   | 5.583G         | 30   | 5.462G         | 31   | 5.291G         | 32   | 5.492G         |
| 33   | 5.452G         | 34   | 5.260G         | 35   | 5.497G         | 36   | 5.535G         |
| 37   | 5.586G         | 38   | 5.577G         | 39   | 5.658G         | 40   | 5.470G         |
| 41   | 5.424G         | 42   | 5.264G         | 43   | 5.680G         | 44   | 5.347G         |
| 45   | 5.619G         | 46   | 5.500G         | 47   | 5.266G         | 48   | 5.411G         |
| 49   | 5.272G         | 50   | 5.353G         | 51   | 5.661G         | 52   | 5.317G         |
| 53   | 5.696G         | 54   | 5.576G         | 55   | 5.391G         | 56   | 5.376G         |
| 57   | 5.442G         | 58   | 5.432G         | 59   | 5.305G         | 60   | 5.461G         |
| 61   | 5.398G         | 62   | 5.394G         | 63   | 5.368G         | 64   | 5.283G         |
| 65   | 5.624G         | 66   | 5.414G         | 67   | 5.483G         | 68   | 5.458G         |
| 69   | 5.329G         | 70   | 5.634G         | 71   | 5.578G         | 72   | 5.718G         |
| 73   | 5.387G         | 74   | 5.596G         | 75   | 5.650G         | 76   | 5.517G         |
| 77   | 5.690G         | 78   | 5.453G         | 79   | 5.613G         | 80   | 5.653G         |
| 81   | 5.628G         | 82   | 5.451G         | 83   | 5.478G         | 84   | 5.356G         |
| 85   | 5.441G         | 86   | 5.381G         | 87   | 5.552G         | 88   | 5.395G         |
| 89   | 5.341G         | 90   | 5.496G         | 91   | 5.455G         | 92   | 5.469G         |
| 93   | 5.573G         | 94   | 5.365G         | 95   | 5.642G         | 96   | 5.505G         |
| 97   | 5.309G         | 98   | 5.397G         | 99   | 5.568G         | 100  | 5.639G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.375G         | 2    | 5.264G         | 3    | 5.273G         | 4    | 5.293G         |
| 5    | 5.612G         | 6    | 5.436G         | 7    | 5.695G         | 8    | 5.549G         |
| 9    | 5.422G         | 10   | 5.631G         | 11   | 5.262G         | 12   | 5.490G         |
| 13   | 5.589G         | 14   | 5.506G         | 15   | 5.326G         | 16   | 5.282G         |
| 17   | 5.657G         | 18   | 5.497G         | 19   | 5.509G         | 20   | 5.660G         |
| 21   | 5.474G         | 22   | 5.629G         | 23   | 5.272G         | 24   | 5.314G         |
| 25   | 5.433G         | 26   | 5.560G         | 27   | 5.399G         | 28   | 5.357G         |
| 29   | 5.668G         | 30   | 5.484G         | 31   | 5.408G         | 32   | 5.325G         |
| 33   | 5.434G         | 34   | 5.356G         | 35   | 5.563G         | 36   | 5.285G         |
| 37   | 5.401G         | 38   | 5.426G         | 39   | 5.393G         | 40   | 5.621G         |
| 41   | 5.277G         | 42   | 5.567G         | 43   | 5.593G         | 44   | 5.559G         |
| 45   | 5.496G         | 46   | 5.675G         | 47   | 5.419G         | 48   | 5.319G         |
| 49   | 5.690G         | 50   | 5.694G         | 51   | 5.373G         | 52   | 5.661G         |
| 53   | 5.367G         | 54   | 5.522G         | 55   | 5.674G         | 56   | 5.265G         |
| 57   | 5.300G         | 58   | 5.468G         | 59   | 5.596G         | 60   | 5.324G         |
| 61   | 5.528G         | 62   | 5.526G         | 63   | 5.537G         | 64   | 5.669G         |
| 65   | 5.599G         | 66   | 5.358G         | 67   | 5.303G         | 68   | 5.648G         |
| 69   | 5.378G         | 70   | 5.478G         | 71   | 5.469G         | 72   | 5.407G         |
| 73   | 5.513G         | 74   | 5.263G         | 75   | 5.586G         | 76   | 5.360G         |
| 77   | 5.571G         | 78   | 5.604G         | 79   | 5.446G         | 80   | 5.479G         |
| 81   | 5.482G         | 82   | 5.366G         | 83   | 5.394G         | 84   | 5.693G         |
| 85   | 5.288G         | 86   | 5.512G         | 87   | 5.551G         | 88   | 5.585G         |
| 89   | 5.723G         | 90   | 5.705G         | 91   | 5.412G         | 92   | 5.711G         |
| 93   | 5.345G         | 94   | 5.486G         | 95   | 5.678G         | 96   | 5.361G         |
| 97   | 5.390G         | 98   | 5.352G         | 99   | 5.649G         | 100  | 5.647G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.507G         | 2    | 5.709G         | 3    | 5.352G         | 4    | 5.516G         |
| 5    | 5.503G         | 6    | 5.594G         | 7    | 5.415G         | 8    | 5.255G         |
| 9    | 5.475G         | 10   | 5.275G         | 11   | 5.657G         | 12   | 5.344G         |
| 13   | 5.534G         | 14   | 5.406G         | 15   | 5.612G         | 16   | 5.671G         |
| 17   | 5.389G         | 18   | 5.314G         | 19   | 5.323G         | 20   | 5.544G         |
| 21   | 5.277G         | 22   | 5.302G         | 23   | 5.545G         | 24   | 5.577G         |
| 25   | 5.388G         | 26   | 5.258G         | 27   | 5.386G         | 28   | 5.434G         |
| 29   | 5.312G         | 30   | 5.595G         | 31   | 5.689G         | 32   | 5.420G         |
| 33   | 5.287G         | 34   | 5.408G         | 35   | 5.464G         | 36   | 5.511G         |
| 37   | 5.443G         | 38   | 5.427G         | 39   | 5.416G         | 40   | 5.365G         |
| 41   | 5.500G         | 42   | 5.587G         | 43   | 5.457G         | 44   | 5.395G         |
| 45   | 5.621G         | 46   | 5.588G         | 47   | 5.442G         | 48   | 5.411G         |
| 49   | 5.390G         | 50   | 5.539G         | 51   | 5.425G         | 52   | 5.521G         |
| 53   | 5.722G         | 54   | 5.696G         | 55   | 5.413G         | 56   | 5.529G         |
| 57   | 5.355G         | 58   | 5.656G         | 59   | 5.704G         | 60   | 5.316G         |
| 61   | 5.480G         | 62   | 5.581G         | 63   | 5.632G         | 64   | 5.676G         |
| 65   | 5.482G         | 66   | 5.432G         | 67   | 5.259G         | 68   | 5.438G         |
| 69   | 5.694G         | 70   | 5.580G         | 71   | 5.536G         | 72   | 5.663G         |
| 73   | 5.495G         | 74   | 5.674G         | 75   | 5.347G         | 76   | 5.400G         |
| 77   | 5.465G         | 78   | 5.330G         | 79   | 5.589G         | 80   | 5.519G         |
| 81   | 5.699G         | 82   | 5.645G         | 83   | 5.380G         | 84   | 5.672G         |
| 85   | 5.635G         | 86   | 5.548G         | 87   | 5.563G         | 88   | 5.710G         |
| 89   | 5.348G         | 90   | 5.629G         | 91   | 5.641G         | 92   | 5.509G         |
| 93   | 5.317G         | 94   | 5.384G         | 95   | 5.562G         | 96   | 5.666G         |
| 97   | 5.332G         | 98   | 5.456G         | 99   | 5.262G         | 100  | 5.701G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.332G         | 2    | 5.253G         | 3    | 5.256G         | 4    | 5.368G         |
| 5    | 5.366G         | 6    | 5.427G         | 7    | 5.495G         | 8    | 5.322G         |
| 9    | 5.496G         | 10   | 5.474G         | 11   | 5.448G         | 12   | 5.678G         |
| 13   | 5.410G         | 14   | 5.687G         | 15   | 5.686G         | 16   | 5.533G         |
| 17   | 5.269G         | 18   | 5.385G         | 19   | 5.429G         | 20   | 5.261G         |
| 21   | 5.585G         | 22   | 5.509G         | 23   | 5.255G         | 24   | 5.478G         |
| 25   | 5.360G         | 26   | 5.339G         | 27   | 5.335G         | 28   | 5.512G         |
| 29   | 5.604G         | 30   | 5.462G         | 31   | 5.479G         | 32   | 5.562G         |
| 33   | 5.693G         | 34   | 5.337G         | 35   | 5.671G         | 36   | 5.260G         |
| 37   | 5.382G         | 38   | 5.556G         | 39   | 5.523G         | 40   | 5.292G         |
| 41   | 5.273G         | 42   | 5.313G         | 43   | 5.586G         | 44   | 5.668G         |
| 45   | 5.317G         | 46   | 5.324G         | 47   | 5.505G         | 48   | 5.486G         |
| 49   | 5.358G         | 50   | 5.493G         | 51   | 5.456G         | 52   | 5.610G         |
| 53   | 5.528G         | 54   | 5.590G         | 55   | 5.506G         | 56   | 5.517G         |
| 57   | 5.530G         | 58   | 5.640G         | 59   | 5.318G         | 60   | 5.274G         |
| 61   | 5.381G         | 62   | 5.579G         | 63   | 5.667G         | 64   | 5.661G         |
| 65   | 5.415G         | 66   | 5.442G         | 67   | 5.621G         | 68   | 5.552G         |
| 69   | 5.455G         | 70   | 5.300G         | 71   | 5.441G         | 72   | 5.491G         |
| 73   | 5.722G         | 74   | 5.305G         | 75   | 5.331G         | 76   | 5.365G         |
| 77   | 5.390G         | 78   | 5.637G         | 79   | 5.266G         | 80   | 5.591G         |
| 81   | 5.563G         | 82   | 5.607G         | 83   | 5.461G         | 84   | 5.262G         |
| 85   | 5.605G         | 86   | 5.617G         | 87   | 5.403G         | 88   | 5.600G         |
| 89   | 5.492G         | 90   | 5.294G         | 91   | 5.706G         | 92   | 5.507G         |
| 93   | 5.284G         | 94   | 5.298G         | 95   | 5.564G         | 96   | 5.650G         |
| 97   | 5.537G         | 98   | 5.611G         | 99   | 5.645G         | 100  | 5.413G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.469G         | 2    | 5.426G         | 3    | 5.347G         | 4    | 5.449G         |
| 5    | 5.330G         | 6    | 5.537G         | 7    | 5.391G         | 8    | 5.687G         |
| 9    | 5.666G         | 10   | 5.332G         | 11   | 5.651G         | 12   | 5.341G         |
| 13   | 5.352G         | 14   | 5.457G         | 15   | 5.686G         | 16   | 5.531G         |
| 17   | 5.693G         | 18   | 5.631G         | 19   | 5.269G         | 20   | 5.525G         |
| 21   | 5.702G         | 22   | 5.403G         | 23   | 5.536G         | 24   | 5.363G         |
| 25   | 5.516G         | 26   | 5.538G         | 27   | 5.490G         | 28   | 5.511G         |
| 29   | 5.724G         | 30   | 5.704G         | 31   | 5.442G         | 32   | 5.441G         |
| 33   | 5.411G         | 34   | 5.717G         | 35   | 5.571G         | 36   | 5.647G         |
| 37   | 5.649G         | 38   | 5.606G         | 39   | 5.319G         | 40   | 5.448G         |
| 41   | 5.504G         | 42   | 5.472G         | 43   | 5.609G         | 44   | 5.438G         |
| 45   | 5.545G         | 46   | 5.480G         | 47   | 5.256G         | 48   | 5.679G         |
| 49   | 5.382G         | 50   | 5.284G         | 51   | 5.543G         | 52   | 5.424G         |
| 53   | 5.317G         | 54   | 5.520G         | 55   | 5.604G         | 56   | 5.397G         |
| 57   | 5.505G         | 58   | 5.463G         | 59   | 5.685G         | 60   | 5.602G         |
| 61   | 5.270G         | 62   | 5.618G         | 63   | 5.662G         | 64   | 5.273G         |
| 65   | 5.707G         | 66   | 5.664G         | 67   | 5.552G         | 68   | 5.294G         |
| 69   | 5.320G         | 70   | 5.464G         | 71   | 5.641G         | 72   | 5.476G         |
| 73   | 5.661G         | 74   | 5.566G         | 75   | 5.299G         | 76   | 5.584G         |
| 77   | 5.619G         | 78   | 5.420G         | 79   | 5.488G         | 80   | 5.593G         |
| 81   | 5.654G         | 82   | 5.714G         | 83   | 5.287G         | 84   | 5.657G         |
| 85   | 5.337G         | 86   | 5.644G         | 87   | 5.648G         | 88   | 5.659G         |
| 89   | 5.251G         | 90   | 5.265G         | 91   | 5.279G         | 92   | 5.359G         |
| 93   | 5.460G         | 94   | 5.413G         | 95   | 5.308G         | 96   | 5.544G         |
| 97   | 5.640G         | 98   | 5.394G         | 99   | 5.348G         | 100  | 5.613G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.421G         | 2    | 5.498G         | 3    | 5.713G         | 4    | 5.660G         |
| 5    | 5.583G         | 6    | 5.662G         | 7    | 5.657G         | 8    | 5.641G         |
| 9    | 5.268G         | 10   | 5.654G         | 11   | 5.517G         | 12   | 5.259G         |
| 13   | 5.485G         | 14   | 5.419G         | 15   | 5.276G         | 16   | 5.649G         |
| 17   | 5.467G         | 18   | 5.646G         | 19   | 5.359G         | 20   | 5.642G         |
| 21   | 5.659G         | 22   | 5.620G         | 23   | 5.345G         | 24   | 5.257G         |
| 25   | 5.288G         | 26   | 5.478G         | 27   | 5.637G         | 28   | 5.252G         |
| 29   | 5.489G         | 30   | 5.274G         | 31   | 5.703G         | 32   | 5.534G         |
| 33   | 5.376G         | 34   | 5.719G         | 35   | 5.682G         | 36   | 5.413G         |
| 37   | 5.614G         | 38   | 5.448G         | 39   | 5.256G         | 40   | 5.365G         |
| 41   | 5.587G         | 42   | 5.350G         | 43   | 5.605G         | 44   | 5.447G         |
| 45   | 5.328G         | 46   | 5.710G         | 47   | 5.330G         | 48   | 5.679G         |
| 49   | 5.557G         | 50   | 5.674G         | 51   | 5.437G         | 52   | 5.668G         |
| 53   | 5.714G         | 54   | 5.353G         | 55   | 5.488G         | 56   | 5.427G         |
| 57   | 5.577G         | 58   | 5.482G         | 59   | 5.700G         | 60   | 5.626G         |
| 61   | 5.307G         | 62   | 5.464G         | 63   | 5.423G         | 64   | 5.336G         |
| 65   | 5.617G         | 66   | 5.608G         | 67   | 5.562G         | 68   | 5.443G         |
| 69   | 5.446G         | 70   | 5.561G         | 71   | 5.493G         | 72   | 5.560G         |
| 73   | 5.304G         | 74   | 5.354G         | 75   | 5.495G         | 76   | 5.680G         |
| 77   | 5.397G         | 78   | 5.344G         | 79   | 5.426G         | 80   | 5.425G         |
| 81   | 5.599G         | 82   | 5.567G         | 83   | 5.510G         | 84   | 5.555G         |
| 85   | 5.625G         | 86   | 5.324G         | 87   | 5.707G         | 88   | 5.262G         |
| 89   | 5.501G         | 90   | 5.651G         | 91   | 5.292G         | 92   | 5.424G         |
| 93   | 5.573G         | 94   | 5.411G         | 95   | 5.597G         | 96   | 5.691G         |
| 97   | 5.435G         | 98   | 5.459G         | 99   | 5.282G         | 100  | 5.600G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.471G         | 2    | 5.678G         | 3    | 5.410G         | 4    | 5.537G         |
| 5    | 5.446G         | 6    | 5.666G         | 7    | 5.563G         | 8    | 5.355G         |
| 9    | 5.484G         | 10   | 5.489G         | 11   | 5.556G         | 12   | 5.596G         |
| 13   | 5.454G         | 14   | 5.682G         | 15   | 5.554G         | 16   | 5.595G         |
| 17   | 5.270G         | 18   | 5.610G         | 19   | 5.586G         | 20   | 5.549G         |
| 21   | 5.264G         | 22   | 5.415G         | 23   | 5.266G         | 24   | 5.339G         |
| 25   | 5.662G         | 26   | 5.697G         | 27   | 5.379G         | 28   | 5.392G         |
| 29   | 5.301G         | 30   | 5.334G         | 31   | 5.573G         | 32   | 5.643G         |
| 33   | 5.253G         | 34   | 5.439G         | 35   | 5.300G         | 36   | 5.519G         |
| 37   | 5.267G         | 38   | 5.689G         | 39   | 5.539G         | 40   | 5.455G         |
| 41   | 5.468G         | 42   | 5.613G         | 43   | 5.496G         | 44   | 5.665G         |
| 45   | 5.381G         | 46   | 5.250G         | 47   | 5.298G         | 48   | 5.272G         |
| 49   | 5.592G         | 50   | 5.360G         | 51   | 5.532G         | 52   | 5.324G         |
| 53   | 5.710G         | 54   | 5.409G         | 55   | 5.517G         | 56   | 5.467G         |
| 57   | 5.647G         | 58   | 5.668G         | 59   | 5.309G         | 60   | 5.548G         |
| 61   | 5.317G         | 62   | 5.428G         | 63   | 5.597G         | 64   | 5.314G         |
| 65   | 5.481G         | 66   | 5.308G         | 67   | 5.584G         | 68   | 5.622G         |
| 69   | 5.358G         | 70   | 5.466G         | 71   | 5.616G         | 72   | 5.295G         |
| 73   | 5.364G         | 74   | 5.261G         | 75   | 5.655G         | 76   | 5.660G         |
| 77   | 5.457G         | 78   | 5.672G         | 79   | 5.565G         | 80   | 5.652G         |
| 81   | 5.260G         | 82   | 5.683G         | 83   | 5.343G         | 84   | 5.401G         |
| 85   | 5.325G         | 86   | 5.686G         | 87   | 5.353G         | 88   | 5.315G         |
| 89   | 5.373G         | 90   | 5.402G         | 91   | 5.352G         | 92   | 5.599G         |
| 93   | 5.626G         | 94   | 5.702G         | 95   | 5.258G         | 96   | 5.460G         |
| 97   | 5.724G         | 98   | 5.670G         | 99   | 5.444G         | 100  | 5.388G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.550G         | 2    | 5.672G         | 3    | 5.305G         | 4    | 5.508G         |
| 5    | 5.713G         | 6    | 5.500G         | 7    | 5.312G         | 8    | 5.704G         |
| 9    | 5.291G         | 10   | 5.288G         | 11   | 5.664G         | 12   | 5.468G         |
| 13   | 5.405G         | 14   | 5.558G         | 15   | 5.313G         | 16   | 5.308G         |
| 17   | 5.390G         | 18   | 5.685G         | 19   | 5.526G         | 20   | 5.394G         |
| 21   | 5.616G         | 22   | 5.333G         | 23   | 5.419G         | 24   | 5.461G         |
| 25   | 5.417G         | 26   | 5.393G         | 27   | 5.427G         | 28   | 5.650G         |
| 29   | 5.376G         | 30   | 5.351G         | 31   | 5.656G         | 32   | 5.494G         |
| 33   | 5.700G         | 34   | 5.365G         | 35   | 5.624G         | 36   | 5.551G         |
| 37   | 5.259G         | 38   | 5.657G         | 39   | 5.470G         | 40   | 5.666G         |
| 41   | 5.250G         | 42   | 5.501G         | 43   | 5.681G         | 44   | 5.496G         |
| 45   | 5.370G         | 46   | 5.689G         | 47   | 5.535G         | 48   | 5.271G         |
| 49   | 5.444G         | 50   | 5.696G         | 51   | 5.337G         | 52   | 5.621G         |
| 53   | 5.265G         | 54   | 5.399G         | 55   | 5.609G         | 56   | 5.722G         |
| 57   | 5.401G         | 58   | 5.667G         | 59   | 5.473G         | 60   | 5.511G         |
| 61   | 5.350G         | 62   | 5.614G         | 63   | 5.516G         | 64   | 5.409G         |
| 65   | 5.260G         | 66   | 5.709G         | 67   | 5.677G         | 68   | 5.590G         |
| 69   | 5.671G         | 70   | 5.418G         | 71   | 5.297G         | 72   | 5.623G         |
| 73   | 5.539G         | 74   | 5.371G         | 75   | 5.280G         | 76   | 5.422G         |
| 77   | 5.607G         | 78   | 5.407G         | 79   | 5.533G         | 80   | 5.316G         |
| 81   | 5.301G         | 82   | 5.640G         | 83   | 5.610G         | 84   | 5.454G         |
| 85   | 5.413G         | 86   | 5.512G         | 87   | 5.577G         | 88   | 5.557G         |
| 89   | 5.471G         | 90   | 5.622G         | 91   | 5.439G         | 92   | 5.361G         |
| 93   | 5.582G         | 94   | 5.360G         | 95   | 5.440G         | 96   | 5.537G         |
| 97   | 5.406G         | 98   | 5.585G         | 99   | 5.342G         | 100  | 5.462G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.664G         | 2    | 5.377G         | 3    | 5.595G         | 4    | 5.701G         |
| 5    | 5.596G         | 6    | 5.490G         | 7    | 5.573G         | 8    | 5.706G         |
| 9    | 5.594G         | 10   | 5.393G         | 11   | 5.581G         | 12   | 5.592G         |
| 13   | 5.403G         | 14   | 5.547G         | 15   | 5.428G         | 16   | 5.314G         |
| 17   | 5.643G         | 18   | 5.585G         | 19   | 5.444G         | 20   | 5.405G         |
| 21   | 5.279G         | 22   | 5.294G         | 23   | 5.477G         | 24   | 5.277G         |
| 25   | 5.543G         | 26   | 5.338G         | 27   | 5.720G         | 28   | 5.613G         |
| 29   | 5.323G         | 30   | 5.541G         | 31   | 5.496G         | 32   | 5.270G         |
| 33   | 5.499G         | 34   | 5.410G         | 35   | 5.530G         | 36   | 5.339G         |
| 37   | 5.452G         | 38   | 5.287G         | 39   | 5.423G         | 40   | 5.375G         |
| 41   | 5.328G         | 42   | 5.644G         | 43   | 5.620G         | 44   | 5.333G         |
| 45   | 5.635G         | 46   | 5.566G         | 47   | 5.645G         | 48   | 5.497G         |
| 49   | 5.325G         | 50   | 5.417G         | 51   | 5.523G         | 52   | 5.562G         |
| 53   | 5.605G         | 54   | 5.495G         | 55   | 5.271G         | 56   | 5.693G         |
| 57   | 5.442G         | 58   | 5.524G         | 59   | 5.637G         | 60   | 5.407G         |
| 61   | 5.421G         | 62   | 5.342G         | 63   | 5.435G         | 64   | 5.590G         |
| 65   | 5.636G         | 66   | 5.711G         | 67   | 5.468G         | 68   | 5.288G         |
| 69   | 5.488G         | 70   | 5.719G         | 71   | 5.699G         | 72   | 5.400G         |
| 73   | 5.343G         | 74   | 5.589G         | 75   | 5.379G         | 76   | 5.408G         |
| 77   | 5.406G         | 78   | 5.712G         | 79   | 5.370G         | 80   | 5.268G         |
| 81   | 5.299G         | 82   | 5.576G         | 83   | 5.619G         | 84   | 5.332G         |
| 85   | 5.361G         | 86   | 5.465G         | 87   | 5.517G         | 88   | 5.485G         |
| 89   | 5.724G         | 90   | 5.557G         | 91   | 5.297G         | 92   | 5.586G         |
| 93   | 5.321G         | 94   | 5.368G         | 95   | 5.683G         | 96   | 5.526G         |
| 97   | 5.649G         | 98   | 5.587G         | 99   | 5.582G         | 100  | 5.681G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.265G         | 2    | 5.645G         | 3    | 5.335G         | 4    | 5.680G         |
| 5    | 5.551G         | 6    | 5.661G         | 7    | 5.669G         | 8    | 5.387G         |
| 9    | 5.352G         | 10   | 5.635G         | 11   | 5.451G         | 12   | 5.534G         |
| 13   | 5.511G         | 14   | 5.708G         | 15   | 5.721G         | 16   | 5.644G         |
| 17   | 5.524G         | 18   | 5.634G         | 19   | 5.453G         | 20   | 5.698G         |
| 21   | 5.631G         | 22   | 5.445G         | 23   | 5.279G         | 24   | 5.582G         |
| 25   | 5.488G         | 26   | 5.687G         | 27   | 5.292G         | 28   | 5.673G         |
| 29   | 5.361G         | 30   | 5.256G         | 31   | 5.471G         | 32   | 5.523G         |
| 33   | 5.464G         | 34   | 5.330G         | 35   | 5.555G         | 36   | 5.499G         |
| 37   | 5.700G         | 38   | 5.613G         | 39   | 5.695G         | 40   | 5.672G         |
| 41   | 5.591G         | 42   | 5.399G         | 43   | 5.432G         | 44   | 5.664G         |
| 45   | 5.578G         | 46   | 5.571G         | 47   | 5.478G         | 48   | 5.463G         |
| 49   | 5.431G         | 50   | 5.516G         | 51   | 5.371G         | 52   | 5.652G         |
| 53   | 5.709G         | 54   | 5.692G         | 55   | 5.421G         | 56   | 5.480G         |
| 57   | 5.425G         | 58   | 5.293G         | 59   | 5.285G         | 60   | 5.693G         |
| 61   | 5.666G         | 62   | 5.609G         | 63   | 5.377G         | 64   | 5.338G         |
| 65   | 5.597G         | 66   | 5.430G         | 67   | 5.568G         | 68   | 5.489G         |
| 69   | 5.495G         | 70   | 5.479G         | 71   | 5.304G         | 72   | 5.527G         |
| 73   | 5.473G         | 74   | 5.397G         | 75   | 5.643G         | 76   | 5.626G         |
| 77   | 5.411G         | 78   | 5.702G         | 79   | 5.409G         | 80   | 5.512G         |
| 81   | 5.599G         | 82   | 5.497G         | 83   | 5.393G         | 84   | 5.351G         |
| 85   | 5.706G         | 86   | 5.327G         | 87   | 5.660G         | 88   | 5.437G         |
| 89   | 5.322G         | 90   | 5.566G         | 91   | 5.553G         | 92   | 5.501G         |
| 93   | 5.315G         | 94   | 5.590G         | 95   | 5.385G         | 96   | 5.650G         |
| 97   | 5.614G         | 98   | 5.705G         | 99   | 5.276G         | 100  | 5.469G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.609G         | 2    | 5.255G         | 3    | 5.447G         | 4    | 5.276G         |
| 5    | 5.345G         | 6    | 5.385G         | 7    | 5.526G         | 8    | 5.623G         |
| 9    | 5.601G         | 10   | 5.535G         | 11   | 5.657G         | 12   | 5.300G         |
| 13   | 5.306G         | 14   | 5.708G         | 15   | 5.495G         | 16   | 5.422G         |
| 17   | 5.658G         | 18   | 5.379G         | 19   | 5.692G         | 20   | 5.502G         |
| 21   | 5.253G         | 22   | 5.498G         | 23   | 5.380G         | 24   | 5.670G         |
| 25   | 5.460G         | 26   | 5.514G         | 27   | 5.545G         | 28   | 5.319G         |
| 29   | 5.252G         | 30   | 5.457G         | 31   | 5.478G         | 32   | 5.707G         |
| 33   | 5.722G         | 34   | 5.681G         | 35   | 5.329G         | 36   | 5.390G         |
| 37   | 5.367G         | 38   | 5.622G         | 39   | 5.286G         | 40   | 5.472G         |
| 41   | 5.435G         | 42   | 5.427G         | 43   | 5.458G         | 44   | 5.715G         |
| 45   | 5.537G         | 46   | 5.312G         | 47   | 5.671G         | 48   | 5.521G         |
| 49   | 5.322G         | 50   | 5.655G         | 51   | 5.308G         | 52   | 5.484G         |
| 53   | 5.361G         | 54   | 5.304G         | 55   | 5.259G         | 56   | 5.418G         |
| 57   | 5.360G         | 58   | 5.724G         | 59   | 5.594G         | 60   | 5.420G         |
| 61   | 5.549G         | 62   | 5.454G         | 63   | 5.314G         | 64   | 5.569G         |
| 65   | 5.467G         | 66   | 5.450G         | 67   | 5.519G         | 68   | 5.444G         |
| 69   | 5.268G         | 70   | 5.663G         | 71   | 5.709G         | 72   | 5.610G         |
| 73   | 5.621G         | 74   | 5.647G         | 75   | 5.648G         | 76   | 5.557G         |
| 77   | 5.529G         | 78   | 5.483G         | 79   | 5.589G         | 80   | 5.377G         |
| 81   | 5.338G         | 82   | 5.698G         | 83   | 5.433G         | 84   | 5.446G         |
| 85   | 5.618G         | 86   | 5.597G         | 87   | 5.393G         | 88   | 5.554G         |
| 89   | 5.477G         | 90   | 5.403G         | 91   | 5.280G         | 92   | 5.719G         |
| 93   | 5.263G         | 94   | 5.465G         | 95   | 5.305G         | 96   | 5.646G         |
| 97   | 5.550G         | 98   | 5.396G         | 99   | 5.637G         | 100  | 5.716G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.401G         | 2    | 5.459G         | 3    | 5.412G         | 4    | 5.639G         |
| 5    | 5.383G         | 6    | 5.630G         | 7    | 5.689G         | 8    | 5.673G         |
| 9    | 5.441G         | 10   | 5.384G         | 11   | 5.432G         | 12   | 5.451G         |
| 13   | 5.608G         | 14   | 5.440G         | 15   | 5.593G         | 16   | 5.398G         |
| 17   | 5.590G         | 18   | 5.280G         | 19   | 5.339G         | 20   | 5.257G         |
| 21   | 5.702G         | 22   | 5.422G         | 23   | 5.648G         | 24   | 5.683G         |
| 25   | 5.642G         | 26   | 5.479G         | 27   | 5.354G         | 28   | 5.718G         |
| 29   | 5.633G         | 30   | 5.620G         | 31   | 5.562G         | 32   | 5.334G         |
| 33   | 5.515G         | 34   | 5.546G         | 35   | 5.585G         | 36   | 5.486G         |
| 37   | 5.366G         | 38   | 5.409G         | 39   | 5.375G         | 40   | 5.392G         |
| 41   | 5.482G         | 42   | 5.313G         | 43   | 5.660G         | 44   | 5.279G         |
| 45   | 5.563G         | 46   | 5.617G         | 47   | 5.694G         | 48   | 5.307G         |
| 49   | 5.314G         | 50   | 5.376G         | 51   | 5.447G         | 52   | 5.697G         |
| 53   | 5.393G         | 54   | 5.698G         | 55   | 5.335G         | 56   | 5.358G         |
| 57   | 5.503G         | 58   | 5.605G         | 59   | 5.712G         | 60   | 5.413G         |
| 61   | 5.285G         | 62   | 5.662G         | 63   | 5.576G         | 64   | 5.429G         |
| 65   | 5.365G         | 66   | 5.653G         | 67   | 5.284G         | 68   | 5.687G         |
| 69   | 5.415G         | 70   | 5.315G         | 71   | 5.347G         | 72   | 5.722G         |
| 73   | 5.613G         | 74   | 5.372G         | 75   | 5.425G         | 76   | 5.504G         |
| 77   | 5.723G         | 78   | 5.330G         | 79   | 5.672G         | 80   | 5.473G         |
| 81   | 5.423G         | 82   | 5.618G         | 83   | 5.526G         | 84   | 5.452G         |
| 85   | 5.301G         | 86   | 5.460G         | 87   | 5.652G         | 88   | 5.592G         |
| 89   | 5.547G         | 90   | 5.286G         | 91   | 5.614G         | 92   | 5.603G         |
| 93   | 5.696G         | 94   | 5.484G         | 95   | 5.721G         | 96   | 5.343G         |
| 97   | 5.519G         | 98   | 5.667G         | 99   | 5.407G         | 100  | 5.489G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.338G         | 2    | 5.690G         | 3    | 5.513G         | 4    | 5.614G         |
| 5    | 5.452G         | 6    | 5.451G         | 7    | 5.357G         | 8    | 5.646G         |
| 9    | 5.375G         | 10   | 5.403G         | 11   | 5.400G         | 12   | 5.341G         |
| 13   | 5.469G         | 14   | 5.723G         | 15   | 5.707G         | 16   | 5.314G         |
| 17   | 5.708G         | 18   | 5.474G         | 19   | 5.336G         | 20   | 5.416G         |
| 21   | 5.427G         | 22   | 5.521G         | 23   | 5.593G         | 24   | 5.611G         |
| 25   | 5.598G         | 26   | 5.558G         | 27   | 5.652G         | 28   | 5.581G         |
| 29   | 5.383G         | 30   | 5.642G         | 31   | 5.313G         | 32   | 5.649G         |
| 33   | 5.722G         | 34   | 5.664G         | 35   | 5.561G         | 36   | 5.594G         |
| 37   | 5.266G         | 38   | 5.334G         | 39   | 5.685G         | 40   | 5.701G         |
| 41   | 5.437G         | 42   | 5.544G         | 43   | 5.332G         | 44   | 5.603G         |
| 45   | 5.465G         | 46   | 5.379G         | 47   | 5.579G         | 48   | 5.262G         |
| 49   | 5.250G         | 50   | 5.724G         | 51   | 5.283G         | 52   | 5.291G         |
| 53   | 5.587G         | 54   | 5.391G         | 55   | 5.329G         | 56   | 5.382G         |
| 57   | 5.372G         | 58   | 5.645G         | 59   | 5.455G         | 60   | 5.596G         |
| 61   | 5.422G         | 62   | 5.251G         | 63   | 5.609G         | 64   | 5.559G         |
| 65   | 5.497G         | 66   | 5.253G         | 67   | 5.545G         | 68   | 5.438G         |
| 69   | 5.488G         | 70   | 5.697G         | 71   | 5.503G         | 72   | 5.348G         |
| 73   | 5.583G         | 74   | 5.390G         | 75   | 5.647G         | 76   | 5.377G         |
| 77   | 5.535G         | 78   | 5.298G         | 79   | 5.556G         | 80   | 5.571G         |
| 81   | 5.644G         | 82   | 5.625G         | 83   | 5.490G         | 84   | 5.610G         |
| 85   | 5.592G         | 86   | 5.426G         | 87   | 5.280G         | 88   | 5.591G         |
| 89   | 5.305G         | 90   | 5.564G         | 91   | 5.721G         | 92   | 5.285G         |
| 93   | 5.526G         | 94   | 5.315G         | 95   | 5.698G         | 96   | 5.624G         |
| 97   | 5.258G         | 98   | 5.505G         | 99   | 5.606G         | 100  | 5.516G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.337G         | 2    | 5.639G         | 3    | 5.406G         | 4    | 5.583G         |
| 5    | 5.403G         | 6    | 5.551G         | 7    | 5.705G         | 8    | 5.571G         |
| 9    | 5.488G         | 10   | 5.253G         | 11   | 5.519G         | 12   | 5.369G         |
| 13   | 5.575G         | 14   | 5.445G         | 15   | 5.511G         | 16   | 5.419G         |
| 17   | 5.619G         | 18   | 5.261G         | 19   | 5.473G         | 20   | 5.710G         |
| 21   | 5.580G         | 22   | 5.657G         | 23   | 5.446G         | 24   | 5.508G         |
| 25   | 5.355G         | 26   | 5.634G         | 27   | 5.334G         | 28   | 5.460G         |
| 29   | 5.648G         | 30   | 5.546G         | 31   | 5.608G         | 32   | 5.674G         |
| 33   | 5.534G         | 34   | 5.723G         | 35   | 5.256G         | 36   | 5.629G         |
| 37   | 5.459G         | 38   | 5.352G         | 39   | 5.293G         | 40   | 5.517G         |
| 41   | 5.322G         | 42   | 5.467G         | 43   | 5.557G         | 44   | 5.672G         |
| 45   | 5.703G         | 46   | 5.415G         | 47   | 5.296G         | 48   | 5.547G         |
| 49   | 5.435G         | 50   | 5.465G         | 51   | 5.260G         | 52   | 5.282G         |
| 53   | 5.374G         | 54   | 5.430G         | 55   | 5.494G         | 56   | 5.640G         |
| 57   | 5.268G         | 58   | 5.432G         | 59   | 5.392G         | 60   | 5.307G         |
| 61   | 5.393G         | 62   | 5.344G         | 63   | 5.416G         | 64   | 5.285G         |
| 65   | 5.638G         | 66   | 5.597G         | 67   | 5.516G         | 68   | 5.690G         |
| 69   | 5.449G         | 70   | 5.504G         | 71   | 5.572G         | 72   | 5.669G         |
| 73   | 5.594G         | 74   | 5.532G         | 75   | 5.628G         | 76   | 5.673G         |
| 77   | 5.448G         | 78   | 5.537G         | 79   | 5.326G         | 80   | 5.266G         |
| 81   | 5.697G         | 82   | 5.522G         | 83   | 5.678G         | 84   | 5.655G         |
| 85   | 5.422G         | 86   | 5.317G         | 87   | 5.602G         | 88   | 5.264G         |
| 89   | 5.589G         | 90   | 5.627G         | 91   | 5.491G         | 92   | 5.701G         |
| 93   | 5.436G         | 94   | 5.680G         | 95   | 5.478G         | 96   | 5.558G         |
| 97   | 5.320G         | 98   | 5.662G         | 99   | 5.525G         | 100  | 5.434G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.518G         | 2    | 5.489G         | 3    | 5.280G         | 4    | 5.598G         |
| 5    | 5.417G         | 6    | 5.447G         | 7    | 5.418G         | 8    | 5.400G         |
| 9    | 5.674G         | 10   | 5.631G         | 11   | 5.668G         | 12   | 5.577G         |
| 13   | 5.654G         | 14   | 5.251G         | 15   | 5.570G         | 16   | 5.649G         |
| 17   | 5.318G         | 18   | 5.373G         | 19   | 5.558G         | 20   | 5.544G         |
| 21   | 5.331G         | 22   | 5.695G         | 23   | 5.395G         | 24   | 5.628G         |
| 25   | 5.551G         | 26   | 5.338G         | 27   | 5.678G         | 28   | 5.375G         |
| 29   | 5.448G         | 30   | 5.254G         | 31   | 5.693G         | 32   | 5.273G         |
| 33   | 5.501G         | 34   | 5.596G         | 35   | 5.406G         | 36   | 5.295G         |
| 37   | 5.253G         | 38   | 5.430G         | 39   | 5.315G         | 40   | 5.650G         |
| 41   | 5.565G         | 42   | 5.504G         | 43   | 5.533G         | 44   | 5.664G         |
| 45   | 5.547G         | 46   | 5.307G         | 47   | 5.385G         | 48   | 5.561G         |
| 49   | 5.521G         | 50   | 5.303G         | 51   | 5.383G         | 52   | 5.525G         |
| 53   | 5.300G         | 54   | 5.641G         | 55   | 5.613G         | 56   | 5.291G         |
| 57   | 5.614G         | 58   | 5.588G         | 59   | 5.365G         | 60   | 5.294G         |
| 61   | 5.600G         | 62   | 5.445G         | 63   | 5.387G         | 64   | 5.468G         |
| 65   | 5.405G         | 66   | 5.429G         | 67   | 5.450G         | 68   | 5.288G         |
| 69   | 5.462G         | 70   | 5.464G         | 71   | 5.443G         | 72   | 5.659G         |
| 73   | 5.344G         | 74   | 5.636G         | 75   | 5.611G         | 76   | 5.432G         |
| 77   | 5.341G         | 78   | 5.532G         | 79   | 5.420G         | 80   | 5.449G         |
| 81   | 5.284G         | 82   | 5.414G         | 83   | 5.724G         | 84   | 5.440G         |
| 85   | 5.556G         | 86   | 5.455G         | 87   | 5.499G         | 88   | 5.474G         |
| 89   | 5.481G         | 90   | 5.363G         | 91   | 5.478G         | 92   | 5.456G         |
| 93   | 5.264G         | 94   | 5.633G         | 95   | 5.589G         | 96   | 5.686G         |
| 97   | 5.538G         | 98   | 5.569G         | 99   | 5.524G         | 100  | 5.578G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.368G         | 2    | 5.583G         | 3    | 5.564G         | 4    | 5.520G         |
| 5    | 5.428G         | 6    | 5.366G         | 7    | 5.611G         | 8    | 5.390G         |
| 9    | 5.616G         | 10   | 5.556G         | 11   | 5.539G         | 12   | 5.485G         |
| 13   | 5.360G         | 14   | 5.302G         | 15   | 5.581G         | 16   | 5.614G         |
| 17   | 5.353G         | 18   | 5.358G         | 19   | 5.582G         | 20   | 5.325G         |
| 21   | 5.348G         | 22   | 5.292G         | 23   | 5.287G         | 24   | 5.567G         |
| 25   | 5.615G         | 26   | 5.346G         | 27   | 5.531G         | 28   | 5.263G         |
| 29   | 5.272G         | 30   | 5.282G         | 31   | 5.657G         | 32   | 5.554G         |
| 33   | 5.618G         | 34   | 5.580G         | 35   | 5.525G         | 36   | 5.291G         |
| 37   | 5.715G         | 38   | 5.343G         | 39   | 5.534G         | 40   | 5.312G         |
| 41   | 5.275G         | 42   | 5.270G         | 43   | 5.718G         | 44   | 5.696G         |
| 45   | 5.671G         | 46   | 5.307G         | 47   | 5.332G         | 48   | 5.721G         |
| 49   | 5.462G         | 50   | 5.714G         | 51   | 5.451G         | 52   | 5.679G         |
| 53   | 5.422G         | 54   | 5.317G         | 55   | 5.640G         | 56   | 5.695G         |
| 57   | 5.722G         | 58   | 5.598G         | 59   | 5.607G         | 60   | 5.648G         |
| 61   | 5.547G         | 62   | 5.396G         | 63   | 5.523G         | 64   | 5.659G         |
| 65   | 5.624G         | 66   | 5.584G         | 67   | 5.660G         | 68   | 5.452G         |
| 69   | 5.550G         | 70   | 5.440G         | 71   | 5.683G         | 72   | 5.382G         |
| 73   | 5.562G         | 74   | 5.578G         | 75   | 5.513G         | 76   | 5.393G         |
| 77   | 5.379G         | 78   | 5.409G         | 79   | 5.362G         | 80   | 5.297G         |
| 81   | 5.597G         | 82   | 5.337G         | 83   | 5.711G         | 84   | 5.460G         |
| 85   | 5.576G         | 86   | 5.605G         | 87   | 5.645G         | 88   | 5.591G         |
| 89   | 5.667G         | 90   | 5.398G         | 91   | 5.456G         | 92   | 5.380G         |
| 93   | 5.710G         | 94   | 5.636G         | 95   | 5.315G         | 96   | 5.277G         |
| 97   | 5.441G         | 98   | 5.676G         | 99   | 5.593G         | 100  | 5.394G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.336G         | 2    | 5.506G         | 3    | 5.514G         | 4    | 5.286G         |
| 5    | 5.715G         | 6    | 5.452G         | 7    | 5.408G         | 8    | 5.722G         |
| 9    | 5.332G         | 10   | 5.606G         | 11   | 5.608G         | 12   | 5.630G         |
| 13   | 5.676G         | 14   | 5.547G         | 15   | 5.568G         | 16   | 5.436G         |
| 17   | 5.503G         | 18   | 5.344G         | 19   | 5.723G         | 20   | 5.331G         |
| 21   | 5.637G         | 22   | 5.454G         | 23   | 5.589G         | 24   | 5.517G         |
| 25   | 5.586G         | 26   | 5.474G         | 27   | 5.267G         | 28   | 5.686G         |
| 29   | 5.333G         | 30   | 5.540G         | 31   | 5.585G         | 32   | 5.678G         |
| 33   | 5.482G         | 34   | 5.549G         | 35   | 5.473G         | 36   | 5.695G         |
| 37   | 5.412G         | 38   | 5.600G         | 39   | 5.620G         | 40   | 5.272G         |
| 41   | 5.499G         | 42   | 5.424G         | 43   | 5.366G         | 44   | 5.594G         |
| 45   | 5.526G         | 46   | 5.625G         | 47   | 5.632G         | 48   | 5.572G         |
| 49   | 5.260G         | 50   | 5.463G         | 51   | 5.679G         | 52   | 5.444G         |
| 53   | 5.716G         | 54   | 5.388G         | 55   | 5.587G         | 56   | 5.592G         |
| 57   | 5.399G         | 58   | 5.327G         | 59   | 5.607G         | 60   | 5.529G         |
| 61   | 5.455G         | 62   | 5.554G         | 63   | 5.688G         | 64   | 5.534G         |
| 65   | 5.250G         | 66   | 5.295G         | 67   | 5.541G         | 68   | 5.402G         |
| 69   | 5.551G         | 70   | 5.595G         | 71   | 5.459G         | 72   | 5.516G         |
| 73   | 5.467G         | 74   | 5.544G         | 75   | 5.358G         | 76   | 5.393G         |
| 77   | 5.490G         | 78   | 5.656G         | 79   | 5.493G         | 80   | 5.639G         |
| 81   | 5.410G         | 82   | 5.494G         | 83   | 5.346G         | 84   | 5.304G         |
| 85   | 5.357G         | 86   | 5.616G         | 87   | 5.339G         | 88   | 5.316G         |
| 89   | 5.318G         | 90   | 5.510G         | 91   | 5.405G         | 92   | 5.697G         |
| 93   | 5.483G         | 94   | 5.535G         | 95   | 5.672G         | 96   | 5.645G         |
| 97   | 5.558G         | 98   | 5.284G         | 99   | 5.460G         | 100  | 5.519G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.666G         | 2    | 5.685G         | 3    | 5.395G         | 4    | 5.370G         |
| 5    | 5.611G         | 6    | 5.291G         | 7    | 5.687G         | 8    | 5.327G         |
| 9    | 5.307G         | 10   | 5.486G         | 11   | 5.389G         | 12   | 5.604G         |
| 13   | 5.319G         | 14   | 5.463G         | 15   | 5.445G         | 16   | 5.357G         |
| 17   | 5.415G         | 18   | 5.721G         | 19   | 5.587G         | 20   | 5.585G         |
| 21   | 5.558G         | 22   | 5.574G         | 23   | 5.675G         | 24   | 5.566G         |
| 25   | 5.679G         | 26   | 5.570G         | 27   | 5.488G         | 28   | 5.640G         |
| 29   | 5.406G         | 30   | 5.617G         | 31   | 5.386G         | 32   | 5.592G         |
| 33   | 5.382G         | 34   | 5.448G         | 35   | 5.479G         | 36   | 5.461G         |
| 37   | 5.273G         | 38   | 5.671G         | 39   | 5.458G         | 40   | 5.432G         |
| 41   | 5.544G         | 42   | 5.271G         | 43   | 5.628G         | 44   | 5.343G         |
| 45   | 5.689G         | 46   | 5.709G         | 47   | 5.691G         | 48   | 5.529G         |
| 49   | 5.540G         | 50   | 5.633G         | 51   | 5.623G         | 52   | 5.667G         |
| 53   | 5.536G         | 54   | 5.277G         | 55   | 5.577G         | 56   | 5.625G         |
| 57   | 5.454G         | 58   | 5.595G         | 59   | 5.660G         | 60   | 5.564G         |
| 61   | 5.673G         | 62   | 5.362G         | 63   | 5.692G         | 64   | 5.252G         |
| 65   | 5.680G         | 66   | 5.304G         | 67   | 5.459G         | 68   | 5.436G         |
| 69   | 5.314G         | 70   | 5.723G         | 71   | 5.423G         | 72   | 5.651G         |
| 73   | 5.435G         | 74   | 5.553G         | 75   | 5.562G         | 76   | 5.602G         |
| 77   | 5.368G         | 78   | 5.646G         | 79   | 5.441G         | 80   | 5.412G         |
| 81   | 5.718G         | 82   | 5.552G         | 83   | 5.430G         | 84   | 5.607G         |
| 85   | 5.404G         | 86   | 5.393G         | 87   | 5.420G         | 88   | 5.672G         |
| 89   | 5.669G         | 90   | 5.596G         | 91   | 5.384G         | 92   | 5.428G         |
| 93   | 5.495G         | 94   | 5.268G         | 95   | 5.606G         | 96   | 5.551G         |
| 97   | 5.377G         | 98   | 5.588G         | 99   | 5.352G         | 100  | 5.477G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.458G         | 2    | 5.613G         | 3    | 5.717G         | 4    | 5.475G         |
| 5    | 5.607G         | 6    | 5.589G         | 7    | 5.417G         | 8    | 5.406G         |
| 9    | 5.298G         | 10   | 5.318G         | 11   | 5.710G         | 12   | 5.667G         |
| 13   | 5.351G         | 14   | 5.347G         | 15   | 5.300G         | 16   | 5.619G         |
| 17   | 5.309G         | 18   | 5.502G         | 19   | 5.578G         | 20   | 5.639G         |
| 21   | 5.573G         | 22   | 5.448G         | 23   | 5.462G         | 24   | 5.721G         |
| 25   | 5.389G         | 26   | 5.509G         | 27   | 5.414G         | 28   | 5.443G         |
| 29   | 5.262G         | 30   | 5.571G         | 31   | 5.558G         | 32   | 5.285G         |
| 33   | 5.529G         | 34   | 5.606G         | 35   | 5.419G         | 36   | 5.352G         |
| 37   | 5.566G         | 38   | 5.459G         | 39   | 5.304G         | 40   | 5.398G         |
| 41   | 5.339G         | 42   | 5.408G         | 43   | 5.281G         | 44   | 5.663G         |
| 45   | 5.690G         | 46   | 5.405G         | 47   | 5.335G         | 48   | 5.577G         |
| 49   | 5.491G         | 50   | 5.424G         | 51   | 5.411G         | 52   | 5.581G         |
| 53   | 5.715G         | 54   | 5.686G         | 55   | 5.267G         | 56   | 5.594G         |
| 57   | 5.277G         | 58   | 5.596G         | 59   | 5.457G         | 60   | 5.554G         |
| 61   | 5.388G         | 62   | 5.669G         | 63   | 5.474G         | 64   | 5.720G         |
| 65   | 5.453G         | 66   | 5.658G         | 67   | 5.500G         | 68   | 5.677G         |
| 69   | 5.358G         | 70   | 5.287G         | 71   | 5.338G         | 72   | 5.394G         |
| 73   | 5.609G         | 74   | 5.676G         | 75   | 5.353G         | 76   | 5.379G         |
| 77   | 5.616G         | 78   | 5.625G         | 79   | 5.257G         | 80   | 5.595G         |
| 81   | 5.588G         | 82   | 5.426G         | 83   | 5.556G         | 84   | 5.680G         |
| 85   | 5.373G         | 86   | 5.674G         | 87   | 5.350G         | 88   | 5.628G         |
| 89   | 5.423G         | 90   | 5.418G         | 91   | 5.260G         | 92   | 5.590G         |
| 93   | 5.392G         | 94   | 5.532G         | 95   | 5.478G         | 96   | 5.582G         |
| 97   | 5.562G         | 98   | 5.326G         | 99   | 5.548G         | 100  | 5.286G         |

**802.11n (HT40)**

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_01

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.603G         | 2    | 5.405G         | 3    | 5.498G         | 4    | 5.670G         |
| 5    | 5.630G         | 6    | 5.712G         | 7    | 5.653G         | 8    | 5.285G         |
| 9    | 5.399G         | 10   | 5.541G         | 11   | 5.704G         | 12   | 5.323G         |
| 13   | 5.532G         | 14   | 5.366G         | 15   | 5.410G         | 16   | 5.581G         |
| 17   | 5.612G         | 18   | 5.467G         | 19   | 5.312G         | 20   | 5.554G         |
| 21   | 5.520G         | 22   | 5.551G         | 23   | 5.575G         | 24   | 5.448G         |
| 25   | 5.414G         | 26   | 5.598G         | 27   | 5.354G         | 28   | 5.708G         |
| 29   | 5.332G         | 30   | 5.288G         | 31   | 5.310G         | 32   | 5.456G         |
| 33   | 5.397G         | 34   | 5.361G         | 35   | 5.390G         | 36   | 5.380G         |
| 37   | 5.620G         | 38   | 5.652G         | 39   | 5.666G         | 40   | 5.457G         |
| 41   | 5.296G         | 42   | 5.631G         | 43   | 5.411G         | 44   | 5.470G         |
| 45   | 5.526G         | 46   | 5.472G         | 47   | 5.628G         | 48   | 5.375G         |
| 49   | 5.649G         | 50   | 5.656G         | 51   | 5.408G         | 52   | 5.393G         |
| 53   | 5.514G         | 54   | 5.348G         | 55   | 5.523G         | 56   | 5.709G         |
| 57   | 5.311G         | 58   | 5.284G         | 59   | 5.552G         | 60   | 5.427G         |
| 61   | 5.255G         | 62   | 5.395G         | 63   | 5.536G         | 64   | 5.626G         |
| 65   | 5.389G         | 66   | 5.297G         | 67   | 5.679G         | 68   | 5.545G         |
| 69   | 5.496G         | 70   | 5.617G         | 71   | 5.283G         | 72   | 5.508G         |
| 73   | 5.299G         | 74   | 5.319G         | 75   | 5.624G         | 76   | 5.440G         |
| 77   | 5.677G         | 78   | 5.643G         | 79   | 5.558G         | 80   | 5.252G         |
| 81   | 5.671G         | 82   | 5.378G         | 83   | 5.680G         | 84   | 5.547G         |
| 85   | 5.683G         | 86   | 5.453G         | 87   | 5.466G         | 88   | 5.471G         |
| 89   | 5.548G         | 90   | 5.356G         | 91   | 5.486G         | 92   | 5.684G         |
| 93   | 5.669G         | 94   | 5.349G         | 95   | 5.504G         | 96   | 5.641G         |
| 97   | 5.495G         | 98   | 5.578G         | 99   | 5.702G         | 100  | 5.706G         |



## Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_02

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.328G         | 2    | 5.655G         | 3    | 5.570G         | 4    | 5.291G         |
| 5    | 5.485G         | 6    | 5.342G         | 7    | 5.365G         | 8    | 5.720G         |
| 9    | 5.647G         | 10   | 5.264G         | 11   | 5.362G         | 12   | 5.403G         |
| 13   | 5.392G         | 14   | 5.284G         | 15   | 5.363G         | 16   | 5.461G         |
| 17   | 5.346G         | 18   | 5.381G         | 19   | 5.598G         | 20   | 5.528G         |
| 21   | 5.640G         | 22   | 5.315G         | 23   | 5.500G         | 24   | 5.539G         |
| 25   | 5.531G         | 26   | 5.459G         | 27   | 5.603G         | 28   | 5.372G         |
| 29   | 5.499G         | 30   | 5.263G         | 31   | 5.329G         | 32   | 5.366G         |
| 33   | 5.431G         | 34   | 5.586G         | 35   | 5.536G         | 36   | 5.266G         |
| 37   | 5.376G         | 38   | 5.654G         | 39   | 5.701G         | 40   | 5.285G         |
| 41   | 5.699G         | 42   | 5.327G         | 43   | 5.450G         | 44   | 5.567G         |
| 45   | 5.680G         | 46   | 5.581G         | 47   | 5.270G         | 48   | 5.633G         |
| 49   | 5.676G         | 50   | 5.353G         | 51   | 5.456G         | 52   | 5.454G         |
| 53   | 5.446G         | 54   | 5.532G         | 55   | 5.665G         | 56   | 5.443G         |
| 57   | 5.432G         | 58   | 5.371G         | 59   | 5.269G         | 60   | 5.559G         |
| 61   | 5.386G         | 62   | 5.535G         | 63   | 5.308G         | 64   | 5.451G         |
| 65   | 5.276G         | 66   | 5.718G         | 67   | 5.719G         | 68   | 5.287G         |
| 69   | 5.636G         | 70   | 5.292G         | 71   | 5.490G         | 72   | 5.700G         |
| 73   | 5.303G         | 74   | 5.569G         | 75   | 5.489G         | 76   | 5.364G         |
| 77   | 5.564G         | 78   | 5.335G         | 79   | 5.340G         | 80   | 5.326G         |
| 81   | 5.677G         | 82   | 5.375G         | 83   | 5.664G         | 84   | 5.427G         |
| 85   | 5.538G         | 86   | 5.509G         | 87   | 5.420G         | 88   | 5.344G         |
| 89   | 5.462G         | 90   | 5.682G         | 91   | 5.565G         | 92   | 5.691G         |
| 93   | 5.355G         | 94   | 5.687G         | 95   | 5.652G         | 96   | 5.352G         |
| 97   | 5.416G         | 98   | 5.286G         | 99   | 5.684G         | 100  | 5.425G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.715G         | 2    | 5.431G         | 3    | 5.262G         | 4    | 5.608G         |
| 5    | 5.436G         | 6    | 5.354G         | 7    | 5.555G         | 8    | 5.545G         |
| 9    | 5.322G         | 10   | 5.379G         | 11   | 5.513G         | 12   | 5.254G         |
| 13   | 5.468G         | 14   | 5.449G         | 15   | 5.470G         | 16   | 5.616G         |
| 17   | 5.287G         | 18   | 5.393G         | 19   | 5.560G         | 20   | 5.256G         |
| 21   | 5.689G         | 22   | 5.647G         | 23   | 5.707G         | 24   | 5.413G         |
| 25   | 5.364G         | 26   | 5.445G         | 27   | 5.485G         | 28   | 5.615G         |
| 29   | 5.566G         | 30   | 5.610G         | 31   | 5.359G         | 32   | 5.723G         |
| 33   | 5.629G         | 34   | 5.312G         | 35   | 5.296G         | 36   | 5.341G         |
| 37   | 5.400G         | 38   | 5.611G         | 39   | 5.475G         | 40   | 5.463G         |
| 41   | 5.625G         | 42   | 5.412G         | 43   | 5.573G         | 44   | 5.434G         |
| 45   | 5.457G         | 46   | 5.540G         | 47   | 5.264G         | 48   | 5.496G         |
| 49   | 5.706G         | 50   | 5.724G         | 51   | 5.597G         | 52   | 5.299G         |
| 53   | 5.324G         | 54   | 5.539G         | 55   | 5.455G         | 56   | 5.547G         |
| 57   | 5.542G         | 58   | 5.631G         | 59   | 5.367G         | 60   | 5.363G         |
| 61   | 5.601G         | 62   | 5.714G         | 63   | 5.590G         | 64   | 5.365G         |
| 65   | 5.578G         | 66   | 5.453G         | 67   | 5.416G         | 68   | 5.471G         |
| 69   | 5.698G         | 70   | 5.323G         | 71   | 5.605G         | 72   | 5.635G         |
| 73   | 5.537G         | 74   | 5.352G         | 75   | 5.339G         | 76   | 5.378G         |
| 77   | 5.317G         | 78   | 5.257G         | 79   | 5.717G         | 80   | 5.637G         |
| 81   | 5.654G         | 82   | 5.361G         | 83   | 5.511G         | 84   | 5.510G         |
| 85   | 5.380G         | 86   | 5.594G         | 87   | 5.699G         | 88   | 5.600G         |
| 89   | 5.648G         | 90   | 5.683G         | 91   | 5.671G         | 92   | 5.283G         |
| 93   | 5.684G         | 94   | 5.508G         | 95   | 5.337G         | 96   | 5.342G         |
| 97   | 5.617G         | 98   | 5.278G         | 99   | 5.398G         | 100  | 5.497G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.267G         | 2    | 5.612G         | 3    | 5.554G         | 4    | 5.569G         |
| 5    | 5.698G         | 6    | 5.718G         | 7    | 5.288G         | 8    | 5.716G         |
| 9    | 5.621G         | 10   | 5.723G         | 11   | 5.322G         | 12   | 5.511G         |
| 13   | 5.570G         | 14   | 5.683G         | 15   | 5.721G         | 16   | 5.530G         |
| 17   | 5.508G         | 18   | 5.451G         | 19   | 5.416G         | 20   | 5.521G         |
| 21   | 5.501G         | 22   | 5.460G         | 23   | 5.527G         | 24   | 5.699G         |
| 25   | 5.363G         | 26   | 5.470G         | 27   | 5.304G         | 28   | 5.623G         |
| 29   | 5.453G         | 30   | 5.426G         | 31   | 5.441G         | 32   | 5.579G         |
| 33   | 5.398G         | 34   | 5.669G         | 35   | 5.333G         | 36   | 5.468G         |
| 37   | 5.557G         | 38   | 5.517G         | 39   | 5.665G         | 40   | 5.610G         |
| 41   | 5.448G         | 42   | 5.629G         | 43   | 5.380G         | 44   | 5.262G         |
| 45   | 5.597G         | 46   | 5.285G         | 47   | 5.318G         | 48   | 5.266G         |
| 49   | 5.270G         | 50   | 5.381G         | 51   | 5.315G         | 52   | 5.401G         |
| 53   | 5.463G         | 54   | 5.298G         | 55   | 5.607G         | 56   | 5.700G         |
| 57   | 5.711G         | 58   | 5.417G         | 59   | 5.717G         | 60   | 5.360G         |
| 61   | 5.429G         | 62   | 5.654G         | 63   | 5.524G         | 64   | 5.496G         |
| 65   | 5.445G         | 66   | 5.499G         | 67   | 5.280G         | 68   | 5.386G         |
| 69   | 5.351G         | 70   | 5.687G         | 71   | 5.584G         | 72   | 5.356G         |
| 73   | 5.661G         | 74   | 5.589G         | 75   | 5.663G         | 76   | 5.657G         |
| 77   | 5.478G         | 78   | 5.659G         | 79   | 5.389G         | 80   | 5.513G         |
| 81   | 5.555G         | 82   | 5.458G         | 83   | 5.502G         | 84   | 5.420G         |
| 85   | 5.549G         | 86   | 5.690G         | 87   | 5.641G         | 88   | 5.648G         |
| 89   | 5.452G         | 90   | 5.473G         | 91   | 5.542G         | 92   | 5.588G         |
| 93   | 5.632G         | 94   | 5.439G         | 95   | 5.250G         | 96   | 5.348G         |
| 97   | 5.466G         | 98   | 5.541G         | 99   | 5.481G         | 100  | 5.562G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.538G         | 2    | 5.423G         | 3    | 5.481G         | 4    | 5.307G         |
| 5    | 5.357G         | 6    | 5.593G         | 7    | 5.615G         | 8    | 5.404G         |
| 9    | 5.711G         | 10   | 5.490G         | 11   | 5.550G         | 12   | 5.416G         |
| 13   | 5.519G         | 14   | 5.541G         | 15   | 5.339G         | 16   | 5.612G         |
| 17   | 5.699G         | 18   | 5.653G         | 19   | 5.350G         | 20   | 5.369G         |
| 21   | 5.373G         | 22   | 5.656G         | 23   | 5.672G         | 24   | 5.688G         |
| 25   | 5.403G         | 26   | 5.522G         | 27   | 5.665G         | 28   | 5.675G         |
| 29   | 5.297G         | 30   | 5.402G         | 31   | 5.588G         | 32   | 5.673G         |
| 33   | 5.421G         | 34   | 5.512G         | 35   | 5.537G         | 36   | 5.715G         |
| 37   | 5.299G         | 38   | 5.686G         | 39   | 5.263G         | 40   | 5.679G         |
| 41   | 5.391G         | 42   | 5.313G         | 43   | 5.480G         | 44   | 5.561G         |
| 45   | 5.523G         | 46   | 5.389G         | 47   | 5.692G         | 48   | 5.569G         |
| 49   | 5.556G         | 50   | 5.578G         | 51   | 5.425G         | 52   | 5.517G         |
| 53   | 5.475G         | 54   | 5.532G         | 55   | 5.255G         | 56   | 5.375G         |
| 57   | 5.349G         | 58   | 5.436G         | 59   | 5.424G         | 60   | 5.271G         |
| 61   | 5.390G         | 62   | 5.585G         | 63   | 5.652G         | 64   | 5.486G         |
| 65   | 5.722G         | 66   | 5.280G         | 67   | 5.554G         | 68   | 5.514G         |
| 69   | 5.587G         | 70   | 5.683G         | 71   | 5.321G         | 72   | 5.547G         |
| 73   | 5.590G         | 74   | 5.432G         | 75   | 5.548G         | 76   | 5.657G         |
| 77   | 5.279G         | 78   | 5.693G         | 79   | 5.671G         | 80   | 5.539G         |
| 81   | 5.438G         | 82   | 5.301G         | 83   | 5.544G         | 84   | 5.670G         |
| 85   | 5.346G         | 86   | 5.463G         | 87   | 5.394G         | 88   | 5.567G         |
| 89   | 5.526G         | 90   | 5.434G         | 91   | 5.467G         | 92   | 5.611G         |
| 93   | 5.295G         | 94   | 5.647G         | 95   | 5.602G         | 96   | 5.318G         |
| 97   | 5.714G         | 98   | 5.649G         | 99   | 5.695G         | 100  | 5.630G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.527G         | 2    | 5.604G         | 3    | 5.380G         | 4    | 5.393G         |
| 5    | 5.280G         | 6    | 5.665G         | 7    | 5.273G         | 8    | 5.473G         |
| 9    | 5.566G         | 10   | 5.647G         | 11   | 5.694G         | 12   | 5.645G         |
| 13   | 5.528G         | 14   | 5.359G         | 15   | 5.369G         | 16   | 5.564G         |
| 17   | 5.497G         | 18   | 5.669G         | 19   | 5.508G         | 20   | 5.459G         |
| 21   | 5.342G         | 22   | 5.563G         | 23   | 5.531G         | 24   | 5.605G         |
| 25   | 5.322G         | 26   | 5.436G         | 27   | 5.394G         | 28   | 5.611G         |
| 29   | 5.295G         | 30   | 5.441G         | 31   | 5.622G         | 32   | 5.469G         |
| 33   | 5.652G         | 34   | 5.638G         | 35   | 5.308G         | 36   | 5.375G         |
| 37   | 5.374G         | 38   | 5.309G         | 39   | 5.439G         | 40   | 5.626G         |
| 41   | 5.688G         | 42   | 5.345G         | 43   | 5.514G         | 44   | 5.646G         |
| 45   | 5.602G         | 46   | 5.666G         | 47   | 5.254G         | 48   | 5.271G         |
| 49   | 5.347G         | 50   | 5.470G         | 51   | 5.408G         | 52   | 5.700G         |
| 53   | 5.467G         | 54   | 5.480G         | 55   | 5.337G         | 56   | 5.673G         |
| 57   | 5.506G         | 58   | 5.417G         | 59   | 5.512G         | 60   | 5.348G         |
| 61   | 5.317G         | 62   | 5.621G         | 63   | 5.368G         | 64   | 5.557G         |
| 65   | 5.722G         | 66   | 5.266G         | 67   | 5.363G         | 68   | 5.678G         |
| 69   | 5.305G         | 70   | 5.485G         | 71   | 5.352G         | 72   | 5.668G         |
| 73   | 5.720G         | 74   | 5.509G         | 75   | 5.403G         | 76   | 5.460G         |
| 77   | 5.351G         | 78   | 5.556G         | 79   | 5.259G         | 80   | 5.629G         |
| 81   | 5.454G         | 82   | 5.723G         | 83   | 5.291G         | 84   | 5.356G         |
| 85   | 5.496G         | 86   | 5.681G         | 87   | 5.376G         | 88   | 5.689G         |
| 89   | 5.461G         | 90   | 5.711G         | 91   | 5.381G         | 92   | 5.279G         |
| 93   | 5.267G         | 94   | 5.533G         | 95   | 5.367G         | 96   | 5.361G         |
| 97   | 5.468G         | 98   | 5.389G         | 99   | 5.261G         | 100  | 5.357G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.273G         | 2    | 5.275G         | 3    | 5.630G         | 4    | 5.277G         |
| 5    | 5.532G         | 6    | 5.396G         | 7    | 5.342G         | 8    | 5.379G         |
| 9    | 5.283G         | 10   | 5.475G         | 11   | 5.423G         | 12   | 5.571G         |
| 13   | 5.516G         | 14   | 5.382G         | 15   | 5.467G         | 16   | 5.429G         |
| 17   | 5.537G         | 18   | 5.386G         | 19   | 5.678G         | 20   | 5.544G         |
| 21   | 5.657G         | 22   | 5.527G         | 23   | 5.340G         | 24   | 5.470G         |
| 25   | 5.440G         | 26   | 5.332G         | 27   | 5.406G         | 28   | 5.373G         |
| 29   | 5.299G         | 30   | 5.385G         | 31   | 5.314G         | 32   | 5.255G         |
| 33   | 5.503G         | 34   | 5.507G         | 35   | 5.335G         | 36   | 5.476G         |
| 37   | 5.310G         | 38   | 5.383G         | 39   | 5.337G         | 40   | 5.518G         |
| 41   | 5.464G         | 42   | 5.674G         | 43   | 5.560G         | 44   | 5.322G         |
| 45   | 5.631G         | 46   | 5.446G         | 47   | 5.270G         | 48   | 5.708G         |
| 49   | 5.590G         | 50   | 5.365G         | 51   | 5.591G         | 52   | 5.706G         |
| 53   | 5.318G         | 54   | 5.402G         | 55   | 5.703G         | 56   | 5.662G         |
| 57   | 5.457G         | 58   | 5.414G         | 59   | 5.278G         | 60   | 5.308G         |
| 61   | 5.569G         | 62   | 5.407G         | 63   | 5.426G         | 64   | 5.376G         |
| 65   | 5.321G         | 66   | 5.384G         | 67   | 5.381G         | 68   | 5.542G         |
| 69   | 5.558G         | 70   | 5.472G         | 71   | 5.684G         | 72   | 5.553G         |
| 73   | 5.306G         | 74   | 5.401G         | 75   | 5.715G         | 76   | 5.458G         |
| 77   | 5.575G         | 78   | 5.654G         | 79   | 5.352G         | 80   | 5.671G         |
| 81   | 5.710G         | 82   | 5.479G         | 83   | 5.690G         | 84   | 5.297G         |
| 85   | 5.528G         | 86   | 5.276G         | 87   | 5.368G         | 88   | 5.585G         |
| 89   | 5.596G         | 90   | 5.353G         | 91   | 5.681G         | 92   | 5.442G         |
| 93   | 5.266G         | 94   | 5.268G         | 95   | 5.291G         | 96   | 5.615G         |
| 97   | 5.416G         | 98   | 5.699G         | 99   | 5.663G         | 100  | 5.293G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.706G         | 2    | 5.662G         | 3    | 5.360G         | 4    | 5.585G         |
| 5    | 5.609G         | 6    | 5.471G         | 7    | 5.569G         | 8    | 5.485G         |
| 9    | 5.292G         | 10   | 5.673G         | 11   | 5.486G         | 12   | 5.626G         |
| 13   | 5.430G         | 14   | 5.563G         | 15   | 5.659G         | 16   | 5.287G         |
| 17   | 5.687G         | 18   | 5.719G         | 19   | 5.616G         | 20   | 5.668G         |
| 21   | 5.621G         | 22   | 5.591G         | 23   | 5.329G         | 24   | 5.558G         |
| 25   | 5.540G         | 26   | 5.623G         | 27   | 5.393G         | 28   | 5.712G         |
| 29   | 5.689G         | 30   | 5.370G         | 31   | 5.451G         | 32   | 5.545G         |
| 33   | 5.448G         | 34   | 5.394G         | 35   | 5.588G         | 36   | 5.633G         |
| 37   | 5.561G         | 38   | 5.418G         | 39   | 5.522G         | 40   | 5.707G         |
| 41   | 5.480G         | 42   | 5.414G         | 43   | 5.491G         | 44   | 5.312G         |
| 45   | 5.704G         | 46   | 5.317G         | 47   | 5.291G         | 48   | 5.319G         |
| 49   | 5.321G         | 50   | 5.681G         | 51   | 5.273G         | 52   | 5.473G         |
| 53   | 5.547G         | 54   | 5.457G         | 55   | 5.404G         | 56   | 5.456G         |
| 57   | 5.296G         | 58   | 5.299G         | 59   | 5.358G         | 60   | 5.684G         |
| 61   | 5.705G         | 62   | 5.581G         | 63   | 5.355G         | 64   | 5.592G         |
| 65   | 5.575G         | 66   | 5.436G         | 67   | 5.284G         | 68   | 5.381G         |
| 69   | 5.542G         | 70   | 5.388G         | 71   | 5.267G         | 72   | 5.254G         |
| 73   | 5.643G         | 74   | 5.257G         | 75   | 5.618G         | 76   | 5.332G         |
| 77   | 5.560G         | 78   | 5.647G         | 79   | 5.362G         | 80   | 5.677G         |
| 81   | 5.670G         | 82   | 5.651G         | 83   | 5.656G         | 84   | 5.425G         |
| 85   | 5.584G         | 86   | 5.612G         | 87   | 5.379G         | 88   | 5.368G         |
| 89   | 5.600G         | 90   | 5.489G         | 91   | 5.657G         | 92   | 5.357G         |
| 93   | 5.263G         | 94   | 5.277G         | 95   | 5.583G         | 96   | 5.555G         |
| 97   | 5.307G         | 98   | 5.658G         | 99   | 5.286G         | 100  | 5.487G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.358G         | 2    | 5.423G         | 3    | 5.255G         | 4    | 5.380G         |
| 5    | 5.477G         | 6    | 5.387G         | 7    | 5.724G         | 8    | 5.629G         |
| 9    | 5.466G         | 10   | 5.254G         | 11   | 5.611G         | 12   | 5.379G         |
| 13   | 5.395G         | 14   | 5.702G         | 15   | 5.508G         | 16   | 5.543G         |
| 17   | 5.261G         | 18   | 5.360G         | 19   | 5.696G         | 20   | 5.411G         |
| 21   | 5.394G         | 22   | 5.460G         | 23   | 5.592G         | 24   | 5.528G         |
| 25   | 5.692G         | 26   | 5.449G         | 27   | 5.281G         | 28   | 5.285G         |
| 29   | 5.279G         | 30   | 5.558G         | 31   | 5.348G         | 32   | 5.496G         |
| 33   | 5.418G         | 34   | 5.647G         | 35   | 5.661G         | 36   | 5.517G         |
| 37   | 5.607G         | 38   | 5.359G         | 39   | 5.636G         | 40   | 5.650G         |
| 41   | 5.559G         | 42   | 5.642G         | 43   | 5.713G         | 44   | 5.274G         |
| 45   | 5.322G         | 46   | 5.604G         | 47   | 5.667G         | 48   | 5.674G         |
| 49   | 5.564G         | 50   | 5.414G         | 51   | 5.627G         | 52   | 5.489G         |
| 53   | 5.431G         | 54   | 5.298G         | 55   | 5.439G         | 56   | 5.353G         |
| 57   | 5.339G         | 58   | 5.398G         | 59   | 5.457G         | 60   | 5.497G         |
| 61   | 5.511G         | 62   | 5.390G         | 63   | 5.710G         | 64   | 5.407G         |
| 65   | 5.334G         | 66   | 5.609G         | 67   | 5.665G         | 68   | 5.263G         |
| 69   | 5.706G         | 70   | 5.259G         | 71   | 5.484G         | 72   | 5.479G         |
| 73   | 5.381G         | 74   | 5.693G         | 75   | 5.341G         | 76   | 5.351G         |
| 77   | 5.614G         | 78   | 5.566G         | 79   | 5.422G         | 80   | 5.475G         |
| 81   | 5.467G         | 82   | 5.386G         | 83   | 5.492G         | 84   | 5.705G         |
| 85   | 5.504G         | 86   | 5.399G         | 87   | 5.286G         | 88   | 5.610G         |
| 89   | 5.267G         | 90   | 5.670G         | 91   | 5.646G         | 92   | 5.265G         |
| 93   | 5.486G         | 94   | 5.635G         | 95   | 5.615G         | 96   | 5.608G         |
| 97   | 5.633G         | 98   | 5.514G         | 99   | 5.723G         | 100  | 5.372G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.597G         | 2    | 5.266G         | 3    | 5.337G         | 4    | 5.578G         |
| 5    | 5.512G         | 6    | 5.712G         | 7    | 5.553G         | 8    | 5.671G         |
| 9    | 5.628G         | 10   | 5.713G         | 11   | 5.392G         | 12   | 5.346G         |
| 13   | 5.681G         | 14   | 5.520G         | 15   | 5.356G         | 16   | 5.488G         |
| 17   | 5.257G         | 18   | 5.393G         | 19   | 5.458G         | 20   | 5.605G         |
| 21   | 5.297G         | 22   | 5.287G         | 23   | 5.637G         | 24   | 5.710G         |
| 25   | 5.505G         | 26   | 5.549G         | 27   | 5.455G         | 28   | 5.385G         |
| 29   | 5.344G         | 30   | 5.402G         | 31   | 5.534G         | 32   | 5.452G         |
| 33   | 5.404G         | 34   | 5.461G         | 35   | 5.363G         | 36   | 5.322G         |
| 37   | 5.309G         | 38   | 5.638G         | 39   | 5.299G         | 40   | 5.445G         |
| 41   | 5.368G         | 42   | 5.288G         | 43   | 5.624G         | 44   | 5.516G         |
| 45   | 5.298G         | 46   | 5.548G         | 47   | 5.694G         | 48   | 5.685G         |
| 49   | 5.716G         | 50   | 5.500G         | 51   | 5.618G         | 52   | 5.431G         |
| 53   | 5.286G         | 54   | 5.547G         | 55   | 5.328G         | 56   | 5.351G         |
| 57   | 5.595G         | 58   | 5.253G         | 59   | 5.723G         | 60   | 5.350G         |
| 61   | 5.613G         | 62   | 5.542G         | 63   | 5.325G         | 64   | 5.255G         |
| 65   | 5.433G         | 66   | 5.469G         | 67   | 5.539G         | 68   | 5.420G         |
| 69   | 5.487G         | 70   | 5.345G         | 71   | 5.634G         | 72   | 5.483G         |
| 73   | 5.606G         | 74   | 5.722G         | 75   | 5.399G         | 76   | 5.386G         |
| 77   | 5.342G         | 78   | 5.459G         | 79   | 5.689G         | 80   | 5.658G         |
| 81   | 5.599G         | 82   | 5.557G         | 83   | 5.478G         | 84   | 5.477G         |
| 85   | 5.603G         | 86   | 5.473G         | 87   | 5.410G         | 88   | 5.540G         |
| 89   | 5.446G         | 90   | 5.443G         | 91   | 5.623G         | 92   | 5.550G         |
| 93   | 5.616G         | 94   | 5.670G         | 95   | 5.376G         | 96   | 5.341G         |
| 97   | 5.412G         | 98   | 5.596G         | 99   | 5.693G         | 100  | 5.347G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.481G         | 2    | 5.267G         | 3    | 5.677G         | 4    | 5.358G         |
| 5    | 5.424G         | 6    | 5.457G         | 7    | 5.486G         | 8    | 5.285G         |
| 9    | 5.455G         | 10   | 5.632G         | 11   | 5.637G         | 12   | 5.679G         |
| 13   | 5.534G         | 14   | 5.651G         | 15   | 5.341G         | 16   | 5.376G         |
| 17   | 5.580G         | 18   | 5.705G         | 19   | 5.505G         | 20   | 5.438G         |
| 21   | 5.610G         | 22   | 5.606G         | 23   | 5.682G         | 24   | 5.578G         |
| 25   | 5.627G         | 26   | 5.674G         | 27   | 5.410G         | 28   | 5.370G         |
| 29   | 5.631G         | 30   | 5.475G         | 31   | 5.514G         | 32   | 5.694G         |
| 33   | 5.405G         | 34   | 5.555G         | 35   | 5.659G         | 36   | 5.420G         |
| 37   | 5.533G         | 38   | 5.575G         | 39   | 5.508G         | 40   | 5.266G         |
| 41   | 5.471G         | 42   | 5.657G         | 43   | 5.392G         | 44   | 5.339G         |
| 45   | 5.562G         | 46   | 5.348G         | 47   | 5.497G         | 48   | 5.278G         |
| 49   | 5.628G         | 50   | 5.643G         | 51   | 5.292G         | 52   | 5.528G         |
| 53   | 5.595G         | 54   | 5.450G         | 55   | 5.461G         | 56   | 5.387G         |
| 57   | 5.665G         | 58   | 5.257G         | 59   | 5.454G         | 60   | 5.301G         |
| 61   | 5.540G         | 62   | 5.571G         | 63   | 5.391G         | 64   | 5.568G         |
| 65   | 5.343G         | 66   | 5.347G         | 67   | 5.565G         | 68   | 5.718G         |
| 69   | 5.646G         | 70   | 5.488G         | 71   | 5.608G         | 72   | 5.710G         |
| 73   | 5.569G         | 74   | 5.377G         | 75   | 5.408G         | 76   | 5.572G         |
| 77   | 5.626G         | 78   | 5.666G         | 79   | 5.412G         | 80   | 5.284G         |
| 81   | 5.473G         | 82   | 5.459G         | 83   | 5.402G         | 84   | 5.416G         |
| 85   | 5.480G         | 86   | 5.525G         | 87   | 5.413G         | 88   | 5.519G         |
| 89   | 5.375G         | 90   | 5.602G         | 91   | 5.640G         | 92   | 5.478G         |
| 93   | 5.418G         | 94   | 5.653G         | 95   | 5.681G         | 96   | 5.421G         |
| 97   | 5.638G         | 98   | 5.714G         | 99   | 5.536G         | 100  | 5.673G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.585G         | 2    | 5.257G         | 3    | 5.621G         | 4    | 5.720G         |
| 5    | 5.611G         | 6    | 5.538G         | 7    | 5.556G         | 8    | 5.427G         |
| 9    | 5.657G         | 10   | 5.628G         | 11   | 5.508G         | 12   | 5.367G         |
| 13   | 5.291G         | 14   | 5.341G         | 15   | 5.300G         | 16   | 5.485G         |
| 17   | 5.630G         | 18   | 5.648G         | 19   | 5.697G         | 20   | 5.378G         |
| 21   | 5.386G         | 22   | 5.711G         | 23   | 5.584G         | 24   | 5.350G         |
| 25   | 5.365G         | 26   | 5.337G         | 27   | 5.501G         | 28   | 5.272G         |
| 29   | 5.463G         | 30   | 5.420G         | 31   | 5.668G         | 32   | 5.283G         |
| 33   | 5.323G         | 34   | 5.640G         | 35   | 5.629G         | 36   | 5.502G         |
| 37   | 5.612G         | 38   | 5.329G         | 39   | 5.469G         | 40   | 5.701G         |
| 41   | 5.588G         | 42   | 5.295G         | 43   | 5.418G         | 44   | 5.683G         |
| 45   | 5.315G         | 46   | 5.573G         | 47   | 5.517G         | 48   | 5.592G         |
| 49   | 5.387G         | 50   | 5.311G         | 51   | 5.595G         | 52   | 5.580G         |
| 53   | 5.445G         | 54   | 5.381G         | 55   | 5.318G         | 56   | 5.523G         |
| 57   | 5.271G         | 58   | 5.705G         | 59   | 5.712G         | 60   | 5.669G         |
| 61   | 5.715G         | 62   | 5.507G         | 63   | 5.623G         | 64   | 5.491G         |
| 65   | 5.515G         | 66   | 5.604G         | 67   | 5.267G         | 68   | 5.368G         |
| 69   | 5.625G         | 70   | 5.714G         | 71   | 5.581G         | 72   | 5.407G         |
| 73   | 5.665G         | 74   | 5.475G         | 75   | 5.616G         | 76   | 5.276G         |
| 77   | 5.474G         | 78   | 5.716G         | 79   | 5.423G         | 80   | 5.302G         |
| 81   | 5.410G         | 82   | 5.496G         | 83   | 5.471G         | 84   | 5.413G         |
| 85   | 5.339G         | 86   | 5.565G         | 87   | 5.266G         | 88   | 5.352G         |
| 89   | 5.521G         | 90   | 5.275G         | 91   | 5.652G         | 92   | 5.653G         |
| 93   | 5.601G         | 94   | 5.593G         | 95   | 5.681G         | 96   | 5.656G         |
| 97   | 5.476G         | 98   | 5.498G         | 99   | 5.348G         | 100  | 5.446G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.303G         | 2    | 5.525G         | 3    | 5.524G         | 4    | 5.392G         |
| 5    | 5.396G         | 6    | 5.518G         | 7    | 5.534G         | 8    | 5.685G         |
| 9    | 5.573G         | 10   | 5.406G         | 11   | 5.468G         | 12   | 5.389G         |
| 13   | 5.492G         | 14   | 5.341G         | 15   | 5.585G         | 16   | 5.540G         |
| 17   | 5.323G         | 18   | 5.653G         | 19   | 5.652G         | 20   | 5.269G         |
| 21   | 5.460G         | 22   | 5.387G         | 23   | 5.443G         | 24   | 5.424G         |
| 25   | 5.643G         | 26   | 5.678G         | 27   | 5.312G         | 28   | 5.526G         |
| 29   | 5.675G         | 30   | 5.626G         | 31   | 5.515G         | 32   | 5.668G         |
| 33   | 5.495G         | 34   | 5.611G         | 35   | 5.633G         | 36   | 5.408G         |
| 37   | 5.344G         | 38   | 5.305G         | 39   | 5.493G         | 40   | 5.623G         |
| 41   | 5.717G         | 42   | 5.411G         | 43   | 5.569G         | 44   | 5.516G         |
| 45   | 5.478G         | 46   | 5.538G         | 47   | 5.673G         | 48   | 5.255G         |
| 49   | 5.566G         | 50   | 5.340G         | 51   | 5.512G         | 52   | 5.463G         |
| 53   | 5.561G         | 54   | 5.661G         | 55   | 5.624G         | 56   | 5.713G         |
| 57   | 5.256G         | 58   | 5.533G         | 59   | 5.322G         | 60   | 5.503G         |
| 61   | 5.487G         | 62   | 5.394G         | 63   | 5.638G         | 64   | 5.436G         |
| 65   | 5.311G         | 66   | 5.635G         | 67   | 5.298G         | 68   | 5.284G         |
| 69   | 5.375G         | 70   | 5.336G         | 71   | 5.694G         | 72   | 5.456G         |
| 73   | 5.295G         | 74   | 5.577G         | 75   | 5.605G         | 76   | 5.625G         |
| 77   | 5.417G         | 78   | 5.592G         | 79   | 5.437G         | 80   | 5.627G         |
| 81   | 5.629G         | 82   | 5.388G         | 83   | 5.414G         | 84   | 5.264G         |
| 85   | 5.572G         | 86   | 5.701G         | 87   | 5.360G         | 88   | 5.508G         |
| 89   | 5.689G         | 90   | 5.266G         | 91   | 5.707G         | 92   | 5.543G         |
| 93   | 5.671G         | 94   | 5.632G         | 95   | 5.596G         | 96   | 5.407G         |
| 97   | 5.510G         | 98   | 5.612G         | 99   | 5.337G         | 100  | 5.576G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.320G         | 2    | 5.569G         | 3    | 5.430G         | 4    | 5.515G         |
| 5    | 5.378G         | 6    | 5.686G         | 7    | 5.418G         | 8    | 5.682G         |
| 9    | 5.367G         | 10   | 5.715G         | 11   | 5.444G         | 12   | 5.405G         |
| 13   | 5.695G         | 14   | 5.421G         | 15   | 5.574G         | 16   | 5.293G         |
| 17   | 5.266G         | 18   | 5.450G         | 19   | 5.462G         | 20   | 5.524G         |
| 21   | 5.499G         | 22   | 5.520G         | 23   | 5.455G         | 24   | 5.270G         |
| 25   | 5.345G         | 26   | 5.560G         | 27   | 5.466G         | 28   | 5.491G         |
| 29   | 5.498G         | 30   | 5.602G         | 31   | 5.274G         | 32   | 5.550G         |
| 33   | 5.393G         | 34   | 5.454G         | 35   | 5.268G         | 36   | 5.590G         |
| 37   | 5.608G         | 38   | 5.424G         | 39   | 5.600G         | 40   | 5.276G         |
| 41   | 5.305G         | 42   | 5.374G         | 43   | 5.588G         | 44   | 5.662G         |
| 45   | 5.541G         | 46   | 5.516G         | 47   | 5.463G         | 48   | 5.677G         |
| 49   | 5.555G         | 50   | 5.540G         | 51   | 5.649G         | 52   | 5.484G         |
| 53   | 5.639G         | 54   | 5.641G         | 55   | 5.655G         | 56   | 5.316G         |
| 57   | 5.678G         | 58   | 5.357G         | 59   | 5.547G         | 60   | 5.269G         |
| 61   | 5.397G         | 62   | 5.318G         | 63   | 5.302G         | 64   | 5.596G         |
| 65   | 5.411G         | 66   | 5.538G         | 67   | 5.568G         | 68   | 5.626G         |
| 69   | 5.694G         | 70   | 5.671G         | 71   | 5.323G         | 72   | 5.267G         |
| 73   | 5.693G         | 74   | 5.643G         | 75   | 5.443G         | 76   | 5.598G         |
| 77   | 5.502G         | 78   | 5.528G         | 79   | 5.341G         | 80   | 5.445G         |
| 81   | 5.691G         | 82   | 5.353G         | 83   | 5.368G         | 84   | 5.575G         |
| 85   | 5.344G         | 86   | 5.440G         | 87   | 5.489G         | 88   | 5.501G         |
| 89   | 5.292G         | 90   | 5.355G         | 91   | 5.534G         | 92   | 5.642G         |
| 93   | 5.423G         | 94   | 5.545G         | 95   | 5.470G         | 96   | 5.409G         |
| 97   | 5.425G         | 98   | 5.612G         | 99   | 5.651G         | 100  | 5.688G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.679G         | 2    | 5.438G         | 3    | 5.375G         | 4    | 5.447G         |
| 5    | 5.698G         | 6    | 5.642G         | 7    | 5.366G         | 8    | 5.662G         |
| 9    | 5.653G         | 10   | 5.250G         | 11   | 5.299G         | 12   | 5.427G         |
| 13   | 5.303G         | 14   | 5.277G         | 15   | 5.283G         | 16   | 5.574G         |
| 17   | 5.720G         | 18   | 5.279G         | 19   | 5.455G         | 20   | 5.470G         |
| 21   | 5.638G         | 22   | 5.639G         | 23   | 5.323G         | 24   | 5.643G         |
| 25   | 5.619G         | 26   | 5.575G         | 27   | 5.633G         | 28   | 5.710G         |
| 29   | 5.411G         | 30   | 5.645G         | 31   | 5.712G         | 32   | 5.510G         |
| 33   | 5.604G         | 34   | 5.680G         | 35   | 5.284G         | 36   | 5.357G         |
| 37   | 5.397G         | 38   | 5.322G         | 39   | 5.294G         | 40   | 5.681G         |
| 41   | 5.555G         | 42   | 5.523G         | 43   | 5.591G         | 44   | 5.593G         |
| 45   | 5.392G         | 46   | 5.342G         | 47   | 5.401G         | 48   | 5.255G         |
| 49   | 5.363G         | 50   | 5.345G         | 51   | 5.348G         | 52   | 5.281G         |
| 53   | 5.449G         | 54   | 5.319G         | 55   | 5.671G         | 56   | 5.498G         |
| 57   | 5.558G         | 58   | 5.350G         | 59   | 5.464G         | 60   | 5.405G         |
| 61   | 5.717G         | 62   | 5.317G         | 63   | 5.669G         | 64   | 5.526G         |
| 65   | 5.530G         | 66   | 5.597G         | 67   | 5.329G         | 68   | 5.508G         |
| 69   | 5.270G         | 70   | 5.552G         | 71   | 5.634G         | 72   | 5.355G         |
| 73   | 5.646G         | 74   | 5.461G         | 75   | 5.516G         | 76   | 5.380G         |
| 77   | 5.263G         | 78   | 5.387G         | 79   | 5.306G         | 80   | 5.341G         |
| 81   | 5.605G         | 82   | 5.606G         | 83   | 5.687G         | 84   | 5.637G         |
| 85   | 5.362G         | 86   | 5.325G         | 87   | 5.305G         | 88   | 5.326G         |
| 89   | 5.688G         | 90   | 5.390G         | 91   | 5.477G         | 92   | 5.567G         |
| 93   | 5.320G         | 94   | 5.651G         | 95   | 5.499G         | 96   | 5.721G         |
| 97   | 5.296G         | 98   | 5.410G         | 99   | 5.673G         | 100  | 5.586G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.426G         | 2    | 5.604G         | 3    | 5.396G         | 4    | 5.259G         |
| 5    | 5.410G         | 6    | 5.543G         | 7    | 5.666G         | 8    | 5.395G         |
| 9    | 5.569G         | 10   | 5.340G         | 11   | 5.348G         | 12   | 5.690G         |
| 13   | 5.679G         | 14   | 5.628G         | 15   | 5.515G         | 16   | 5.588G         |
| 17   | 5.436G         | 18   | 5.547G         | 19   | 5.555G         | 20   | 5.385G         |
| 21   | 5.456G         | 22   | 5.563G         | 23   | 5.499G         | 24   | 5.573G         |
| 25   | 5.526G         | 26   | 5.264G         | 27   | 5.521G         | 28   | 5.528G         |
| 29   | 5.334G         | 30   | 5.363G         | 31   | 5.470G         | 32   | 5.386G         |
| 33   | 5.275G         | 34   | 5.693G         | 35   | 5.493G         | 36   | 5.427G         |
| 37   | 5.665G         | 38   | 5.446G         | 39   | 5.681G         | 40   | 5.382G         |
| 41   | 5.336G         | 42   | 5.416G         | 43   | 5.447G         | 44   | 5.390G         |
| 45   | 5.278G         | 46   | 5.685G         | 47   | 5.263G         | 48   | 5.342G         |
| 49   | 5.345G         | 50   | 5.343G         | 51   | 5.497G         | 52   | 5.653G         |
| 53   | 5.417G         | 54   | 5.309G         | 55   | 5.509G         | 56   | 5.579G         |
| 57   | 5.441G         | 58   | 5.684G         | 59   | 5.397G         | 60   | 5.341G         |
| 61   | 5.372G         | 62   | 5.315G         | 63   | 5.554G         | 64   | 5.540G         |
| 65   | 5.546G         | 66   | 5.268G         | 67   | 5.299G         | 68   | 5.561G         |
| 69   | 5.317G         | 70   | 5.656G         | 71   | 5.318G         | 72   | 5.703G         |
| 73   | 5.516G         | 74   | 5.544G         | 75   | 5.454G         | 76   | 5.414G         |
| 77   | 5.273G         | 78   | 5.574G         | 79   | 5.535G         | 80   | 5.380G         |
| 81   | 5.457G         | 82   | 5.595G         | 83   | 5.548G         | 84   | 5.466G         |
| 85   | 5.672G         | 86   | 5.271G         | 87   | 5.486G         | 88   | 5.650G         |
| 89   | 5.490G         | 90   | 5.699G         | 91   | 5.381G         | 92   | 5.581G         |
| 93   | 5.276G         | 94   | 5.550G         | 95   | 5.487G         | 96   | 5.402G         |
| 97   | 5.257G         | 98   | 5.406G         | 99   | 5.323G         | 100  | 5.371G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.421G         | 2    | 5.452G         | 3    | 5.547G         | 4    | 5.598G         |
| 5    | 5.335G         | 6    | 5.378G         | 7    | 5.572G         | 8    | 5.279G         |
| 9    | 5.419G         | 10   | 5.605G         | 11   | 5.553G         | 12   | 5.461G         |
| 13   | 5.406G         | 14   | 5.397G         | 15   | 5.293G         | 16   | 5.401G         |
| 17   | 5.435G         | 18   | 5.596G         | 19   | 5.683G         | 20   | 5.352G         |
| 21   | 5.480G         | 22   | 5.416G         | 23   | 5.575G         | 24   | 5.543G         |
| 25   | 5.708G         | 26   | 5.449G         | 27   | 5.652G         | 28   | 5.372G         |
| 29   | 5.661G         | 30   | 5.483G         | 31   | 5.588G         | 32   | 5.315G         |
| 33   | 5.251G         | 34   | 5.611G         | 35   | 5.667G         | 36   | 5.264G         |
| 37   | 5.283G         | 38   | 5.339G         | 39   | 5.592G         | 40   | 5.363G         |
| 41   | 5.629G         | 42   | 5.594G         | 43   | 5.518G         | 44   | 5.674G         |
| 45   | 5.573G         | 46   | 5.531G         | 47   | 5.323G         | 48   | 5.405G         |
| 49   | 5.353G         | 50   | 5.617G         | 51   | 5.468G         | 52   | 5.671G         |
| 53   | 5.695G         | 54   | 5.269G         | 55   | 5.515G         | 56   | 5.580G         |
| 57   | 5.649G         | 58   | 5.673G         | 59   | 5.299G         | 60   | 5.644G         |
| 61   | 5.509G         | 62   | 5.650G         | 63   | 5.500G         | 64   | 5.467G         |
| 65   | 5.344G         | 66   | 5.614G         | 67   | 5.538G         | 68   | 5.622G         |
| 69   | 5.645G         | 70   | 5.721G         | 71   | 5.368G         | 72   | 5.627G         |
| 73   | 5.260G         | 74   | 5.620G         | 75   | 5.601G         | 76   | 5.356G         |
| 77   | 5.413G         | 78   | 5.340G         | 79   | 5.451G         | 80   | 5.697G         |
| 81   | 5.643G         | 82   | 5.519G         | 83   | 5.444G         | 84   | 5.578G         |
| 85   | 5.624G         | 86   | 5.556G         | 87   | 5.551G         | 88   | 5.355G         |
| 89   | 5.677G         | 90   | 5.439G         | 91   | 5.548G         | 92   | 5.338G         |
| 93   | 5.277G         | 94   | 5.387G         | 95   | 5.252G         | 96   | 5.311G         |
| 97   | 5.651G         | 98   | 5.599G         | 99   | 5.574G         | 100  | 5.600G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.487G         | 2    | 5.444G         | 3    | 5.562G         | 4    | 5.715G         |
| 5    | 5.662G         | 6    | 5.308G         | 7    | 5.379G         | 8    | 5.453G         |
| 9    | 5.368G         | 10   | 5.629G         | 11   | 5.514G         | 12   | 5.329G         |
| 13   | 5.538G         | 14   | 5.356G         | 15   | 5.588G         | 16   | 5.391G         |
| 17   | 5.413G         | 18   | 5.700G         | 19   | 5.381G         | 20   | 5.618G         |
| 21   | 5.455G         | 22   | 5.558G         | 23   | 5.352G         | 24   | 5.582G         |
| 25   | 5.283G         | 26   | 5.709G         | 27   | 5.542G         | 28   | 5.394G         |
| 29   | 5.663G         | 30   | 5.689G         | 31   | 5.288G         | 32   | 5.262G         |
| 33   | 5.370G         | 34   | 5.371G         | 35   | 5.577G         | 36   | 5.702G         |
| 37   | 5.299G         | 38   | 5.465G         | 39   | 5.325G         | 40   | 5.503G         |
| 41   | 5.312G         | 42   | 5.549G         | 43   | 5.451G         | 44   | 5.314G         |
| 45   | 5.319G         | 46   | 5.274G         | 47   | 5.682G         | 48   | 5.388G         |
| 49   | 5.546G         | 50   | 5.513G         | 51   | 5.474G         | 52   | 5.713G         |
| 53   | 5.260G         | 54   | 5.251G         | 55   | 5.722G         | 56   | 5.408G         |
| 57   | 5.625G         | 58   | 5.392G         | 59   | 5.418G         | 60   | 5.389G         |
| 61   | 5.492G         | 62   | 5.668G         | 63   | 5.697G         | 64   | 5.482G         |
| 65   | 5.300G         | 66   | 5.647G         | 67   | 5.599G         | 68   | 5.494G         |
| 69   | 5.571G         | 70   | 5.348G         | 71   | 5.460G         | 72   | 5.716G         |
| 73   | 5.551G         | 74   | 5.327G         | 75   | 5.366G         | 76   | 5.509G         |
| 77   | 5.600G         | 78   | 5.406G         | 79   | 5.622G         | 80   | 5.495G         |
| 81   | 5.712G         | 82   | 5.404G         | 83   | 5.421G         | 84   | 5.464G         |
| 85   | 5.393G         | 86   | 5.470G         | 87   | 5.676G         | 88   | 5.617G         |
| 89   | 5.594G         | 90   | 5.637G         | 91   | 5.425G         | 92   | 5.691G         |
| 93   | 5.278G         | 94   | 5.410G         | 95   | 5.486G         | 96   | 5.632G         |
| 97   | 5.653G         | 98   | 5.400G         | 99   | 5.572G         | 100  | 5.426G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.329G         | 2    | 5.351G         | 3    | 5.639G         | 4    | 5.713G         |
| 5    | 5.256G         | 6    | 5.715G         | 7    | 5.672G         | 8    | 5.430G         |
| 9    | 5.291G         | 10   | 5.665G         | 11   | 5.459G         | 12   | 5.427G         |
| 13   | 5.693G         | 14   | 5.462G         | 15   | 5.571G         | 16   | 5.573G         |
| 17   | 5.474G         | 18   | 5.262G         | 19   | 5.596G         | 20   | 5.287G         |
| 21   | 5.327G         | 22   | 5.341G         | 23   | 5.326G         | 24   | 5.701G         |
| 25   | 5.457G         | 26   | 5.576G         | 27   | 5.681G         | 28   | 5.620G         |
| 29   | 5.325G         | 30   | 5.671G         | 31   | 5.543G         | 32   | 5.720G         |
| 33   | 5.521G         | 34   | 5.360G         | 35   | 5.485G         | 36   | 5.509G         |
| 37   | 5.408G         | 38   | 5.334G         | 39   | 5.555G         | 40   | 5.315G         |
| 41   | 5.417G         | 42   | 5.694G         | 43   | 5.623G         | 44   | 5.654G         |
| 45   | 5.253G         | 46   | 5.499G         | 47   | 5.544G         | 48   | 5.293G         |
| 49   | 5.708G         | 50   | 5.372G         | 51   | 5.366G         | 52   | 5.520G         |
| 53   | 5.302G         | 54   | 5.711G         | 55   | 5.590G         | 56   | 5.477G         |
| 57   | 5.349G         | 58   | 5.712G         | 59   | 5.305G         | 60   | 5.281G         |
| 61   | 5.383G         | 62   | 5.467G         | 63   | 5.397G         | 64   | 5.388G         |
| 65   | 5.527G         | 66   | 5.540G         | 67   | 5.651G         | 68   | 5.511G         |
| 69   | 5.386G         | 70   | 5.370G         | 71   | 5.580G         | 72   | 5.517G         |
| 73   | 5.684G         | 74   | 5.519G         | 75   | 5.435G         | 76   | 5.444G         |
| 77   | 5.535G         | 78   | 5.298G         | 79   | 5.699G         | 80   | 5.554G         |
| 81   | 5.514G         | 82   | 5.319G         | 83   | 5.473G         | 84   | 5.348G         |
| 85   | 5.705G         | 86   | 5.594G         | 87   | 5.323G         | 88   | 5.484G         |
| 89   | 5.506G         | 90   | 5.714G         | 91   | 5.411G         | 92   | 5.359G         |
| 93   | 5.421G         | 94   | 5.487G         | 95   | 5.258G         | 96   | 5.312G         |
| 97   | 5.491G         | 98   | 5.269G         | 99   | 5.320G         | 100  | 5.641G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.288G         | 2    | 5.291G         | 3    | 5.457G         | 4    | 5.252G         |
| 5    | 5.596G         | 6    | 5.598G         | 7    | 5.306G         | 8    | 5.434G         |
| 9    | 5.633G         | 10   | 5.625G         | 11   | 5.374G         | 12   | 5.477G         |
| 13   | 5.684G         | 14   | 5.272G         | 15   | 5.664G         | 16   | 5.441G         |
| 17   | 5.399G         | 18   | 5.586G         | 19   | 5.261G         | 20   | 5.656G         |
| 21   | 5.621G         | 22   | 5.373G         | 23   | 5.280G         | 24   | 5.376G         |
| 25   | 5.349G         | 26   | 5.530G         | 27   | 5.632G         | 28   | 5.348G         |
| 29   | 5.333G         | 30   | 5.618G         | 31   | 5.391G         | 32   | 5.283G         |
| 33   | 5.265G         | 34   | 5.273G         | 35   | 5.594G         | 36   | 5.440G         |
| 37   | 5.548G         | 38   | 5.651G         | 39   | 5.724G         | 40   | 5.584G         |
| 41   | 5.676G         | 42   | 5.682G         | 43   | 5.506G         | 44   | 5.294G         |
| 45   | 5.679G         | 46   | 5.323G         | 47   | 5.649G         | 48   | 5.497G         |
| 49   | 5.361G         | 50   | 5.337G         | 51   | 5.286G         | 52   | 5.268G         |
| 53   | 5.524G         | 54   | 5.513G         | 55   | 5.257G         | 56   | 5.300G         |
| 57   | 5.697G         | 58   | 5.504G         | 59   | 5.492G         | 60   | 5.607G         |
| 61   | 5.525G         | 62   | 5.377G         | 63   | 5.432G         | 64   | 5.310G         |
| 65   | 5.320G         | 66   | 5.661G         | 67   | 5.250G         | 68   | 5.493G         |
| 69   | 5.593G         | 70   | 5.346G         | 71   | 5.456G         | 72   | 5.307G         |
| 73   | 5.368G         | 74   | 5.281G         | 75   | 5.636G         | 76   | 5.382G         |
| 77   | 5.540G         | 78   | 5.538G         | 79   | 5.502G         | 80   | 5.573G         |
| 81   | 5.692G         | 82   | 5.445G         | 83   | 5.590G         | 84   | 5.370G         |
| 85   | 5.570G         | 86   | 5.439G         | 87   | 5.654G         | 88   | 5.443G         |
| 89   | 5.352G         | 90   | 5.581G         | 91   | 5.295G         | 92   | 5.681G         |
| 93   | 5.322G         | 94   | 5.680G         | 95   | 5.327G         | 96   | 5.561G         |
| 97   | 5.345G         | 98   | 5.550G         | 99   | 5.356G         | 100  | 5.609G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.269G         | 2    | 5.285G         | 3    | 5.400G         | 4    | 5.637G         |
| 5    | 5.564G         | 6    | 5.523G         | 7    | 5.255G         | 8    | 5.461G         |
| 9    | 5.563G         | 10   | 5.552G         | 11   | 5.625G         | 12   | 5.421G         |
| 13   | 5.531G         | 14   | 5.695G         | 15   | 5.271G         | 16   | 5.590G         |
| 17   | 5.484G         | 18   | 5.456G         | 19   | 5.352G         | 20   | 5.409G         |
| 21   | 5.672G         | 22   | 5.459G         | 23   | 5.292G         | 24   | 5.359G         |
| 25   | 5.486G         | 26   | 5.422G         | 27   | 5.650G         | 28   | 5.407G         |
| 29   | 5.633G         | 30   | 5.532G         | 31   | 5.720G         | 32   | 5.493G         |
| 33   | 5.357G         | 34   | 5.439G         | 35   | 5.472G         | 36   | 5.628G         |
| 37   | 5.442G         | 38   | 5.668G         | 39   | 5.343G         | 40   | 5.638G         |
| 41   | 5.466G         | 42   | 5.470G         | 43   | 5.585G         | 44   | 5.611G         |
| 45   | 5.471G         | 46   | 5.524G         | 47   | 5.307G         | 48   | 5.441G         |
| 49   | 5.398G         | 50   | 5.529G         | 51   | 5.545G         | 52   | 5.325G         |
| 53   | 5.641G         | 54   | 5.688G         | 55   | 5.657G         | 56   | 5.429G         |
| 57   | 5.302G         | 58   | 5.719G         | 59   | 5.687G         | 60   | 5.494G         |
| 61   | 5.328G         | 62   | 5.397G         | 63   | 5.475G         | 64   | 5.626G         |
| 65   | 5.693G         | 66   | 5.265G         | 67   | 5.608G         | 68   | 5.337G         |
| 69   | 5.485G         | 70   | 5.703G         | 71   | 5.554G         | 72   | 5.294G         |
| 73   | 5.505G         | 74   | 5.314G         | 75   | 5.324G         | 76   | 5.405G         |
| 77   | 5.355G         | 78   | 5.389G         | 79   | 5.649G         | 80   | 5.620G         |
| 81   | 5.259G         | 82   | 5.566G         | 83   | 5.645G         | 84   | 5.701G         |
| 85   | 5.510G         | 86   | 5.370G         | 87   | 5.539G         | 88   | 5.423G         |
| 89   | 5.342G         | 90   | 5.609G         | 91   | 5.384G         | 92   | 5.629G         |
| 93   | 5.369G         | 94   | 5.613G         | 95   | 5.718G         | 96   | 5.381G         |
| 97   | 5.424G         | 98   | 5.578G         | 99   | 5.568G         | 100  | 5.427G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.576G         | 2    | 5.614G         | 3    | 5.255G         | 4    | 5.381G         |
| 5    | 5.450G         | 6    | 5.715G         | 7    | 5.545G         | 8    | 5.517G         |
| 9    | 5.647G         | 10   | 5.317G         | 11   | 5.546G         | 12   | 5.375G         |
| 13   | 5.530G         | 14   | 5.439G         | 15   | 5.344G         | 16   | 5.541G         |
| 17   | 5.323G         | 18   | 5.513G         | 19   | 5.480G         | 20   | 5.586G         |
| 21   | 5.300G         | 22   | 5.565G         | 23   | 5.341G         | 24   | 5.472G         |
| 25   | 5.283G         | 26   | 5.524G         | 27   | 5.307G         | 28   | 5.284G         |
| 29   | 5.388G         | 30   | 5.583G         | 31   | 5.663G         | 32   | 5.332G         |
| 33   | 5.484G         | 34   | 5.362G         | 35   | 5.658G         | 36   | 5.295G         |
| 37   | 5.446G         | 38   | 5.491G         | 39   | 5.441G         | 40   | 5.570G         |
| 41   | 5.351G         | 42   | 5.533G         | 43   | 5.349G         | 44   | 5.655G         |
| 45   | 5.563G         | 46   | 5.638G         | 47   | 5.613G         | 48   | 5.646G         |
| 49   | 5.285G         | 50   | 5.696G         | 51   | 5.417G         | 52   | 5.358G         |
| 53   | 5.703G         | 54   | 5.669G         | 55   | 5.662G         | 56   | 5.713G         |
| 57   | 5.335G         | 58   | 5.321G         | 59   | 5.438G         | 60   | 5.355G         |
| 61   | 5.628G         | 62   | 5.412G         | 63   | 5.700G         | 64   | 5.674G         |
| 65   | 5.536G         | 66   | 5.334G         | 67   | 5.626G         | 68   | 5.465G         |
| 69   | 5.310G         | 70   | 5.518G         | 71   | 5.282G         | 72   | 5.551G         |
| 73   | 5.585G         | 74   | 5.548G         | 75   | 5.680G         | 76   | 5.376G         |
| 77   | 5.338G         | 78   | 5.440G         | 79   | 5.266G         | 80   | 5.648G         |
| 81   | 5.516G         | 82   | 5.468G         | 83   | 5.644G         | 84   | 5.414G         |
| 85   | 5.579G         | 86   | 5.393G         | 87   | 5.643G         | 88   | 5.537G         |
| 89   | 5.487G         | 90   | 5.592G         | 91   | 5.590G         | 92   | 5.423G         |
| 93   | 5.430G         | 94   | 5.288G         | 95   | 5.387G         | 96   | 5.636G         |
| 97   | 5.456G         | 98   | 5.508G         | 99   | 5.359G         | 100  | 5.425G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.650G         | 2    | 5.457G         | 3    | 5.366G         | 4    | 5.672G         |
| 5    | 5.654G         | 6    | 5.255G         | 7    | 5.381G         | 8    | 5.432G         |
| 9    | 5.701G         | 10   | 5.639G         | 11   | 5.310G         | 12   | 5.598G         |
| 13   | 5.405G         | 14   | 5.576G         | 15   | 5.464G         | 16   | 5.529G         |
| 17   | 5.659G         | 18   | 5.278G         | 19   | 5.251G         | 20   | 5.525G         |
| 21   | 5.530G         | 22   | 5.528G         | 23   | 5.567G         | 24   | 5.486G         |
| 25   | 5.394G         | 26   | 5.690G         | 27   | 5.713G         | 28   | 5.315G         |
| 29   | 5.533G         | 30   | 5.614G         | 31   | 5.623G         | 32   | 5.395G         |
| 33   | 5.620G         | 34   | 5.308G         | 35   | 5.379G         | 36   | 5.281G         |
| 37   | 5.677G         | 38   | 5.304G         | 39   | 5.537G         | 40   | 5.364G         |
| 41   | 5.352G         | 42   | 5.339G         | 43   | 5.284G         | 44   | 5.456G         |
| 45   | 5.626G         | 46   | 5.632G         | 47   | 5.287G         | 48   | 5.592G         |
| 49   | 5.452G         | 50   | 5.470G         | 51   | 5.329G         | 52   | 5.388G         |
| 53   | 5.356G         | 54   | 5.585G         | 55   | 5.593G         | 56   | 5.283G         |
| 57   | 5.603G         | 58   | 5.361G         | 59   | 5.408G         | 60   | 5.717G         |
| 61   | 5.404G         | 62   | 5.298G         | 63   | 5.347G         | 64   | 5.332G         |
| 65   | 5.412G         | 66   | 5.697G         | 67   | 5.674G         | 68   | 5.263G         |
| 69   | 5.499G         | 70   | 5.372G         | 71   | 5.676G         | 72   | 5.609G         |
| 73   | 5.619G         | 74   | 5.468G         | 75   | 5.692G         | 76   | 5.577G         |
| 77   | 5.578G         | 78   | 5.268G         | 79   | 5.428G         | 80   | 5.552G         |
| 81   | 5.413G         | 82   | 5.482G         | 83   | 5.579G         | 84   | 5.662G         |
| 85   | 5.621G         | 86   | 5.572G         | 87   | 5.682G         | 88   | 5.625G         |
| 89   | 5.644G         | 90   | 5.279G         | 91   | 5.253G         | 92   | 5.652G         |
| 93   | 5.678G         | 94   | 5.360G         | 95   | 5.627G         | 96   | 5.270G         |
| 97   | 5.721G         | 98   | 5.261G         | 99   | 5.497G         | 100  | 5.441G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.564G         | 2    | 5.702G         | 3    | 5.585G         | 4    | 5.465G         |
| 5    | 5.407G         | 6    | 5.670G         | 7    | 5.522G         | 8    | 5.466G         |
| 9    | 5.628G         | 10   | 5.659G         | 11   | 5.485G         | 12   | 5.704G         |
| 13   | 5.640G         | 14   | 5.367G         | 15   | 5.510G         | 16   | 5.722G         |
| 17   | 5.412G         | 18   | 5.355G         | 19   | 5.430G         | 20   | 5.549G         |
| 21   | 5.361G         | 22   | 5.329G         | 23   | 5.389G         | 24   | 5.587G         |
| 25   | 5.621G         | 26   | 5.720G         | 27   | 5.451G         | 28   | 5.320G         |
| 29   | 5.321G         | 30   | 5.424G         | 31   | 5.508G         | 32   | 5.618G         |
| 33   | 5.278G         | 34   | 5.556G         | 35   | 5.387G         | 36   | 5.374G         |
| 37   | 5.562G         | 38   | 5.553G         | 39   | 5.470G         | 40   | 5.276G         |
| 41   | 5.457G         | 42   | 5.439G         | 43   | 5.711G         | 44   | 5.518G         |
| 45   | 5.458G         | 46   | 5.513G         | 47   | 5.500G         | 48   | 5.376G         |
| 49   | 5.402G         | 50   | 5.447G         | 51   | 5.669G         | 52   | 5.524G         |
| 53   | 5.400G         | 54   | 5.515G         | 55   | 5.625G         | 56   | 5.652G         |
| 57   | 5.449G         | 58   | 5.301G         | 59   | 5.484G         | 60   | 5.529G         |
| 61   | 5.541G         | 62   | 5.333G         | 63   | 5.255G         | 64   | 5.354G         |
| 65   | 5.695G         | 66   | 5.365G         | 67   | 5.701G         | 68   | 5.494G         |
| 69   | 5.646G         | 70   | 5.454G         | 71   | 5.613G         | 72   | 5.721G         |
| 73   | 5.595G         | 74   | 5.688G         | 75   | 5.690G         | 76   | 5.487G         |
| 77   | 5.415G         | 78   | 5.428G         | 79   | 5.548G         | 80   | 5.591G         |
| 81   | 5.277G         | 82   | 5.496G         | 83   | 5.323G         | 84   | 5.302G         |
| 85   | 5.719G         | 86   | 5.298G         | 87   | 5.299G         | 88   | 5.614G         |
| 89   | 5.405G         | 90   | 5.497G         | 91   | 5.563G         | 92   | 5.291G         |
| 93   | 5.724G         | 94   | 5.483G         | 95   | 5.271G         | 96   | 5.297G         |
| 97   | 5.559G         | 98   | 5.311G         | 99   | 5.426G         | 100  | 5.360G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.336G         | 2    | 5.277G         | 3    | 5.619G         | 4    | 5.303G         |
| 5    | 5.685G         | 6    | 5.545G         | 7    | 5.356G         | 8    | 5.341G         |
| 9    | 5.471G         | 10   | 5.533G         | 11   | 5.724G         | 12   | 5.716G         |
| 13   | 5.267G         | 14   | 5.495G         | 15   | 5.253G         | 16   | 5.460G         |
| 17   | 5.600G         | 18   | 5.279G         | 19   | 5.333G         | 20   | 5.335G         |
| 21   | 5.566G         | 22   | 5.384G         | 23   | 5.718G         | 24   | 5.616G         |
| 25   | 5.598G         | 26   | 5.588G         | 27   | 5.722G         | 28   | 5.591G         |
| 29   | 5.621G         | 30   | 5.475G         | 31   | 5.366G         | 32   | 5.692G         |
| 33   | 5.681G         | 34   | 5.306G         | 35   | 5.595G         | 36   | 5.594G         |
| 37   | 5.673G         | 38   | 5.291G         | 39   | 5.400G         | 40   | 5.269G         |
| 41   | 5.426G         | 42   | 5.491G         | 43   | 5.281G         | 44   | 5.395G         |
| 45   | 5.515G         | 46   | 5.288G         | 47   | 5.519G         | 48   | 5.334G         |
| 49   | 5.711G         | 50   | 5.550G         | 51   | 5.464G         | 52   | 5.525G         |
| 53   | 5.377G         | 54   | 5.265G         | 55   | 5.452G         | 56   | 5.596G         |
| 57   | 5.297G         | 58   | 5.305G         | 59   | 5.565G         | 60   | 5.579G         |
| 61   | 5.345G         | 62   | 5.703G         | 63   | 5.719G         | 64   | 5.298G         |
| 65   | 5.541G         | 66   | 5.456G         | 67   | 5.282G         | 68   | 5.645G         |
| 69   | 5.421G         | 70   | 5.357G         | 71   | 5.351G         | 72   | 5.431G         |
| 73   | 5.674G         | 74   | 5.449G         | 75   | 5.576G         | 76   | 5.539G         |
| 77   | 5.264G         | 78   | 5.257G         | 79   | 5.439G         | 80   | 5.562G         |
| 81   | 5.493G         | 82   | 5.642G         | 83   | 5.668G         | 84   | 5.477G         |
| 85   | 5.450G         | 86   | 5.311G         | 87   | 5.544G         | 88   | 5.707G         |
| 89   | 5.402G         | 90   | 5.567G         | 91   | 5.442G         | 92   | 5.343G         |
| 93   | 5.720G         | 94   | 5.397G         | 95   | 5.665G         | 96   | 5.582G         |
| 97   | 5.405G         | 98   | 5.467G         | 99   | 5.444G         | 100  | 5.693G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.474G         | 2    | 5.271G         | 3    | 5.495G         | 4    | 5.592G         |
| 5    | 5.560G         | 6    | 5.447G         | 7    | 5.713G         | 8    | 5.561G         |
| 9    | 5.389G         | 10   | 5.526G         | 11   | 5.400G         | 12   | 5.715G         |
| 13   | 5.672G         | 14   | 5.388G         | 15   | 5.450G         | 16   | 5.325G         |
| 17   | 5.706G         | 18   | 5.556G         | 19   | 5.621G         | 20   | 5.522G         |
| 21   | 5.532G         | 22   | 5.357G         | 23   | 5.587G         | 24   | 5.258G         |
| 25   | 5.435G         | 26   | 5.329G         | 27   | 5.716G         | 28   | 5.571G         |
| 29   | 5.344G         | 30   | 5.250G         | 31   | 5.649G         | 32   | 5.639G         |
| 33   | 5.611G         | 34   | 5.466G         | 35   | 5.612G         | 36   | 5.274G         |
| 37   | 5.263G         | 38   | 5.539G         | 39   | 5.434G         | 40   | 5.645G         |
| 41   | 5.615G         | 42   | 5.572G         | 43   | 5.574G         | 44   | 5.549G         |
| 45   | 5.420G         | 46   | 5.646G         | 47   | 5.501G         | 48   | 5.402G         |
| 49   | 5.453G         | 50   | 5.320G         | 51   | 5.674G         | 52   | 5.491G         |
| 53   | 5.683G         | 54   | 5.700G         | 55   | 5.607G         | 56   | 5.441G         |
| 57   | 5.625G         | 58   | 5.464G         | 59   | 5.699G         | 60   | 5.490G         |
| 61   | 5.265G         | 62   | 5.719G         | 63   | 5.470G         | 64   | 5.494G         |
| 65   | 5.302G         | 66   | 5.391G         | 67   | 5.541G         | 68   | 5.641G         |
| 69   | 5.338G         | 70   | 5.722G         | 71   | 5.475G         | 72   | 5.295G         |
| 73   | 5.352G         | 74   | 5.692G         | 75   | 5.583G         | 76   | 5.529G         |
| 77   | 5.665G         | 78   | 5.603G         | 79   | 5.423G         | 80   | 5.465G         |
| 81   | 5.487G         | 82   | 5.415G         | 83   | 5.381G         | 84   | 5.354G         |
| 85   | 5.624G         | 86   | 5.502G         | 87   | 5.533G         | 88   | 5.688G         |
| 89   | 5.375G         | 90   | 5.272G         | 91   | 5.622G         | 92   | 5.437G         |
| 93   | 5.499G         | 94   | 5.714G         | 95   | 5.578G         | 96   | 5.576G         |
| 97   | 5.278G         | 98   | 5.513G         | 99   | 5.419G         | 100  | 5.383G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.668G         | 2    | 5.412G         | 3    | 5.577G         | 4    | 5.421G         |
| 5    | 5.372G         | 6    | 5.376G         | 7    | 5.363G         | 8    | 5.645G         |
| 9    | 5.696G         | 10   | 5.596G         | 11   | 5.650G         | 12   | 5.587G         |
| 13   | 5.306G         | 14   | 5.691G         | 15   | 5.341G         | 16   | 5.256G         |
| 17   | 5.399G         | 18   | 5.429G         | 19   | 5.392G         | 20   | 5.632G         |
| 21   | 5.263G         | 22   | 5.466G         | 23   | 5.567G         | 24   | 5.265G         |
| 25   | 5.522G         | 26   | 5.661G         | 27   | 5.700G         | 28   | 5.511G         |
| 29   | 5.536G         | 30   | 5.326G         | 31   | 5.709G         | 32   | 5.695G         |
| 33   | 5.669G         | 34   | 5.523G         | 35   | 5.582G         | 36   | 5.580G         |
| 37   | 5.550G         | 38   | 5.277G         | 39   | 5.285G         | 40   | 5.557G         |
| 41   | 5.574G         | 42   | 5.461G         | 43   | 5.425G         | 44   | 5.551G         |
| 45   | 5.608G         | 46   | 5.261G         | 47   | 5.317G         | 48   | 5.260G         |
| 49   | 5.439G         | 50   | 5.562G         | 51   | 5.324G         | 52   | 5.414G         |
| 53   | 5.527G         | 54   | 5.497G         | 55   | 5.686G         | 56   | 5.259G         |
| 57   | 5.664G         | 58   | 5.590G         | 59   | 5.478G         | 60   | 5.404G         |
| 61   | 5.589G         | 62   | 5.607G         | 63   | 5.481G         | 64   | 5.689G         |
| 65   | 5.389G         | 66   | 5.640G         | 67   | 5.720G         | 68   | 5.697G         |
| 69   | 5.402G         | 70   | 5.452G         | 71   | 5.313G         | 72   | 5.717G         |
| 73   | 5.257G         | 74   | 5.287G         | 75   | 5.534G         | 76   | 5.553G         |
| 77   | 5.304G         | 78   | 5.684G         | 79   | 5.374G         | 80   | 5.390G         |
| 81   | 5.441G         | 82   | 5.506G         | 83   | 5.444G         | 84   | 5.329G         |
| 85   | 5.250G         | 86   | 5.503G         | 87   | 5.588G         | 88   | 5.442G         |
| 89   | 5.611G         | 90   | 5.561G         | 91   | 5.406G         | 92   | 5.663G         |
| 93   | 5.297G         | 94   | 5.619G         | 95   | 5.405G         | 96   | 5.677G         |
| 97   | 5.501G         | 98   | 5.508G         | 99   | 5.262G         | 100  | 5.474G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.307G         | 2    | 5.649G         | 3    | 5.482G         | 4    | 5.315G         |
| 5    | 5.443G         | 6    | 5.285G         | 7    | 5.390G         | 8    | 5.326G         |
| 9    | 5.654G         | 10   | 5.581G         | 11   | 5.263G         | 12   | 5.687G         |
| 13   | 5.679G         | 14   | 5.486G         | 15   | 5.279G         | 16   | 5.680G         |
| 17   | 5.387G         | 18   | 5.608G         | 19   | 5.487G         | 20   | 5.724G         |
| 21   | 5.683G         | 22   | 5.430G         | 23   | 5.436G         | 24   | 5.320G         |
| 25   | 5.281G         | 26   | 5.257G         | 27   | 5.539G         | 28   | 5.255G         |
| 29   | 5.622G         | 30   | 5.359G         | 31   | 5.251G         | 32   | 5.418G         |
| 33   | 5.456G         | 34   | 5.569G         | 35   | 5.628G         | 36   | 5.643G         |
| 37   | 5.301G         | 38   | 5.488G         | 39   | 5.338G         | 40   | 5.584G         |
| 41   | 5.685G         | 42   | 5.503G         | 43   | 5.411G         | 44   | 5.697G         |
| 45   | 5.574G         | 46   | 5.558G         | 47   | 5.468G         | 48   | 5.355G         |
| 49   | 5.478G         | 50   | 5.549G         | 51   | 5.283G         | 52   | 5.648G         |
| 53   | 5.695G         | 54   | 5.371G         | 55   | 5.304G         | 56   | 5.705G         |
| 57   | 5.722G         | 58   | 5.349G         | 59   | 5.453G         | 60   | 5.591G         |
| 61   | 5.678G         | 62   | 5.401G         | 63   | 5.284G         | 64   | 5.481G         |
| 65   | 5.381G         | 66   | 5.644G         | 67   | 5.422G         | 68   | 5.590G         |
| 69   | 5.547G         | 70   | 5.458G         | 71   | 5.274G         | 72   | 5.446G         |
| 73   | 5.523G         | 74   | 5.391G         | 75   | 5.719G         | 76   | 5.296G         |
| 77   | 5.521G         | 78   | 5.286G         | 79   | 5.435G         | 80   | 5.336G         |
| 81   | 5.619G         | 82   | 5.668G         | 83   | 5.565G         | 84   | 5.343G         |
| 85   | 5.434G         | 86   | 5.356G         | 87   | 5.374G         | 88   | 5.278G         |
| 89   | 5.449G         | 90   | 5.660G         | 91   | 5.544G         | 92   | 5.363G         |
| 93   | 5.604G         | 94   | 5.314G         | 95   | 5.499G         | 96   | 5.531G         |
| 97   | 5.322G         | 98   | 5.347G         | 99   | 5.675G         | 100  | 5.273G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.587G         | 2    | 5.271G         | 3    | 5.622G         | 4    | 5.676G         |
| 5    | 5.627G         | 6    | 5.604G         | 7    | 5.309G         | 8    | 5.666G         |
| 9    | 5.449G         | 10   | 5.613G         | 11   | 5.340G         | 12   | 5.579G         |
| 13   | 5.372G         | 14   | 5.263G         | 15   | 5.252G         | 16   | 5.665G         |
| 17   | 5.568G         | 18   | 5.386G         | 19   | 5.639G         | 20   | 5.480G         |
| 21   | 5.251G         | 22   | 5.270G         | 23   | 5.614G         | 24   | 5.698G         |
| 25   | 5.549G         | 26   | 5.451G         | 27   | 5.335G         | 28   | 5.685G         |
| 29   | 5.464G         | 30   | 5.424G         | 31   | 5.291G         | 32   | 5.400G         |
| 33   | 5.555G         | 34   | 5.530G         | 35   | 5.510G         | 36   | 5.278G         |
| 37   | 5.257G         | 38   | 5.595G         | 39   | 5.724G         | 40   | 5.645G         |
| 41   | 5.675G         | 42   | 5.317G         | 43   | 5.695G         | 44   | 5.722G         |
| 45   | 5.277G         | 46   | 5.522G         | 47   | 5.686G         | 48   | 5.597G         |
| 49   | 5.588G         | 50   | 5.517G         | 51   | 5.518G         | 52   | 5.707G         |
| 53   | 5.431G         | 54   | 5.364G         | 55   | 5.542G         | 56   | 5.513G         |
| 57   | 5.322G         | 58   | 5.405G         | 59   | 5.402G         | 60   | 5.560G         |
| 61   | 5.677G         | 62   | 5.492G         | 63   | 5.446G         | 64   | 5.268G         |
| 65   | 5.717G         | 66   | 5.459G         | 67   | 5.357G         | 68   | 5.655G         |
| 69   | 5.650G         | 70   | 5.314G         | 71   | 5.688G         | 72   | 5.528G         |
| 73   | 5.535G         | 74   | 5.715G         | 75   | 5.380G         | 76   | 5.648G         |
| 77   | 5.556G         | 78   | 5.531G         | 79   | 5.616G         | 80   | 5.586G         |
| 81   | 5.612G         | 82   | 5.435G         | 83   | 5.656G         | 84   | 5.659G         |
| 85   | 5.546G         | 86   | 5.407G         | 87   | 5.346G         | 88   | 5.516G         |
| 89   | 5.623G         | 90   | 5.634G         | 91   | 5.325G         | 92   | 5.420G         |
| 93   | 5.720G         | 94   | 5.558G         | 95   | 5.478G         | 96   | 5.644G         |
| 97   | 5.311G         | 98   | 5.607G         | 99   | 5.273G         | 100  | 5.444G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.490G         | 2    | 5.296G         | 3    | 5.458G         | 4    | 5.553G         |
| 5    | 5.430G         | 6    | 5.516G         | 7    | 5.414G         | 8    | 5.618G         |
| 9    | 5.521G         | 10   | 5.544G         | 11   | 5.721G         | 12   | 5.438G         |
| 13   | 5.311G         | 14   | 5.677G         | 15   | 5.386G         | 16   | 5.382G         |
| 17   | 5.600G         | 18   | 5.446G         | 19   | 5.549G         | 20   | 5.422G         |
| 21   | 5.291G         | 22   | 5.581G         | 23   | 5.316G         | 24   | 5.359G         |
| 25   | 5.637G         | 26   | 5.588G         | 27   | 5.612G         | 28   | 5.288G         |
| 29   | 5.455G         | 30   | 5.541G         | 31   | 5.385G         | 32   | 5.557G         |
| 33   | 5.413G         | 34   | 5.701G         | 35   | 5.515G         | 36   | 5.254G         |
| 37   | 5.459G         | 38   | 5.714G         | 39   | 5.502G         | 40   | 5.528G         |
| 41   | 5.536G         | 42   | 5.260G         | 43   | 5.614G         | 44   | 5.451G         |
| 45   | 5.663G         | 46   | 5.532G         | 47   | 5.273G         | 48   | 5.482G         |
| 49   | 5.689G         | 50   | 5.326G         | 51   | 5.578G         | 52   | 5.537G         |
| 53   | 5.266G         | 54   | 5.387G         | 55   | 5.299G         | 56   | 5.513G         |
| 57   | 5.355G         | 58   | 5.297G         | 59   | 5.569G         | 60   | 5.262G         |
| 61   | 5.699G         | 62   | 5.551G         | 63   | 5.648G         | 64   | 5.679G         |
| 65   | 5.389G         | 66   | 5.607G         | 67   | 5.450G         | 68   | 5.421G         |
| 69   | 5.571G         | 70   | 5.629G         | 71   | 5.345G         | 72   | 5.623G         |
| 73   | 5.380G         | 74   | 5.643G         | 75   | 5.656G         | 76   | 5.500G         |
| 77   | 5.664G         | 78   | 5.550G         | 79   | 5.554G         | 80   | 5.269G         |
| 81   | 5.435G         | 82   | 5.442G         | 83   | 5.715G         | 84   | 5.284G         |
| 85   | 5.277G         | 86   | 5.582G         | 87   | 5.460G         | 88   | 5.412G         |
| 89   | 5.638G         | 90   | 5.354G         | 91   | 5.265G         | 92   | 5.323G         |
| 93   | 5.585G         | 94   | 5.539G         | 95   | 5.711G         | 96   | 5.390G         |
| 97   | 5.697G         | 98   | 5.619G         | 99   | 5.552G         | 100  | 5.650G         |

**802.11ac (VHT80)**

Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_01

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.540G         | 2    | 5.513G         | 3    | 5.526G         | 4    | 5.574G         |
| 5    | 5.501G         | 6    | 5.717G         | 7    | 5.590G         | 8    | 5.373G         |
| 9    | 5.338G         | 10   | 5.534G         | 11   | 5.388G         | 12   | 5.493G         |
| 13   | 5.447G         | 14   | 5.554G         | 15   | 5.593G         | 16   | 5.566G         |
| 17   | 5.688G         | 18   | 5.715G         | 19   | 5.350G         | 20   | 5.713G         |
| 21   | 5.404G         | 22   | 5.374G         | 23   | 5.571G         | 24   | 5.420G         |
| 25   | 5.588G         | 26   | 5.277G         | 27   | 5.407G         | 28   | 5.610G         |
| 29   | 5.278G         | 30   | 5.710G         | 31   | 5.366G         | 32   | 5.301G         |
| 33   | 5.666G         | 34   | 5.551G         | 35   | 5.531G         | 36   | 5.339G         |
| 37   | 5.410G         | 38   | 5.303G         | 39   | 5.267G         | 40   | 5.538G         |
| 41   | 5.327G         | 42   | 5.701G         | 43   | 5.358G         | 44   | 5.581G         |
| 45   | 5.408G         | 46   | 5.584G         | 47   | 5.477G         | 48   | 5.357G         |
| 49   | 5.703G         | 50   | 5.376G         | 51   | 5.683G         | 52   | 5.413G         |
| 53   | 5.662G         | 54   | 5.423G         | 55   | 5.632G         | 56   | 5.668G         |
| 57   | 5.619G         | 58   | 5.281G         | 59   | 5.429G         | 60   | 5.289G         |
| 61   | 5.306G         | 62   | 5.337G         | 63   | 5.596G         | 64   | 5.286G         |
| 65   | 5.592G         | 66   | 5.379G         | 67   | 5.362G         | 68   | 5.351G         |
| 69   | 5.433G         | 70   | 5.271G         | 71   | 5.384G         | 72   | 5.614G         |
| 73   | 5.504G         | 74   | 5.296G         | 75   | 5.712G         | 76   | 5.452G         |
| 77   | 5.687G         | 78   | 5.533G         | 79   | 5.599G         | 80   | 5.561G         |
| 81   | 5.293G         | 82   | 5.300G         | 83   | 5.302G         | 84   | 5.718G         |
| 85   | 5.291G         | 86   | 5.456G         | 87   | 5.505G         | 88   | 5.636G         |
| 89   | 5.367G         | 90   | 5.348G         | 91   | 5.527G         | 92   | 5.558G         |
| 93   | 5.640G         | 94   | 5.559G         | 95   | 5.436G         | 96   | 5.613G         |
| 97   | 5.472G         | 98   | 5.707G         | 99   | 5.607G         | 100  | 5.680G         |

## Hopping Frequency Sequence Name: HOP\_FREQ\_SEQ\_02

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.641G         | 2    | 5.581G         | 3    | 5.679G         | 4    | 5.580G         |
| 5    | 5.429G         | 6    | 5.315G         | 7    | 5.582G         | 8    | 5.604G         |
| 9    | 5.353G         | 10   | 5.255G         | 11   | 5.260G         | 12   | 5.425G         |
| 13   | 5.366G         | 14   | 5.343G         | 15   | 5.478G         | 16   | 5.310G         |
| 17   | 5.367G         | 18   | 5.288G         | 19   | 5.595G         | 20   | 5.719G         |
| 21   | 5.514G         | 22   | 5.630G         | 23   | 5.327G         | 24   | 5.606G         |
| 25   | 5.424G         | 26   | 5.662G         | 27   | 5.482G         | 28   | 5.683G         |
| 29   | 5.528G         | 30   | 5.289G         | 31   | 5.700G         | 32   | 5.541G         |
| 33   | 5.356G         | 34   | 5.585G         | 35   | 5.506G         | 36   | 5.297G         |
| 37   | 5.391G         | 38   | 5.505G         | 39   | 5.511G         | 40   | 5.333G         |
| 41   | 5.292G         | 42   | 5.572G         | 43   | 5.329G         | 44   | 5.553G         |
| 45   | 5.408G         | 46   | 5.612G         | 47   | 5.532G         | 48   | 5.423G         |
| 49   | 5.594G         | 50   | 5.495G         | 51   | 5.499G         | 52   | 5.607G         |
| 53   | 5.706G         | 54   | 5.525G         | 55   | 5.692G         | 56   | 5.390G         |
| 57   | 5.576G         | 58   | 5.270G         | 59   | 5.549G         | 60   | 5.468G         |
| 61   | 5.407G         | 62   | 5.455G         | 63   | 5.448G         | 64   | 5.565G         |
| 65   | 5.687G         | 66   | 5.656G         | 67   | 5.335G         | 68   | 5.649G         |
| 69   | 5.360G         | 70   | 5.349G         | 71   | 5.504G         | 72   | 5.661G         |
| 73   | 5.422G         | 74   | 5.328G         | 75   | 5.311G         | 76   | 5.307G         |
| 77   | 5.669G         | 78   | 5.561G         | 79   | 5.521G         | 80   | 5.342G         |
| 81   | 5.337G         | 82   | 5.518G         | 83   | 5.441G         | 84   | 5.436G         |
| 85   | 5.682G         | 86   | 5.562G         | 87   | 5.466G         | 88   | 5.539G         |
| 89   | 5.372G         | 90   | 5.534G         | 91   | 5.284G         | 92   | 5.537G         |
| 93   | 5.701G         | 94   | 5.384G         | 95   | 5.251G         | 96   | 5.445G         |
| 97   | 5.473G         | 98   | 5.388G         | 99   | 5.280G         | 100  | 5.285G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.284G         | 2    | 5.304G         | 3    | 5.456G         | 4    | 5.489G         |
| 5    | 5.670G         | 6    | 5.409G         | 7    | 5.574G         | 8    | 5.448G         |
| 9    | 5.581G         | 10   | 5.467G         | 11   | 5.637G         | 12   | 5.651G         |
| 13   | 5.641G         | 14   | 5.407G         | 15   | 5.281G         | 16   | 5.321G         |
| 17   | 5.428G         | 18   | 5.355G         | 19   | 5.260G         | 20   | 5.276G         |
| 21   | 5.435G         | 22   | 5.640G         | 23   | 5.683G         | 24   | 5.333G         |
| 25   | 5.382G         | 26   | 5.712G         | 27   | 5.391G         | 28   | 5.401G         |
| 29   | 5.554G         | 30   | 5.383G         | 31   | 5.261G         | 32   | 5.315G         |
| 33   | 5.563G         | 34   | 5.326G         | 35   | 5.652G         | 36   | 5.393G         |
| 37   | 5.280G         | 38   | 5.352G         | 39   | 5.588G         | 40   | 5.595G         |
| 41   | 5.498G         | 42   | 5.618G         | 43   | 5.596G         | 44   | 5.307G         |
| 45   | 5.720G         | 46   | 5.495G         | 47   | 5.542G         | 48   | 5.469G         |
| 49   | 5.617G         | 50   | 5.623G         | 51   | 5.723G         | 52   | 5.440G         |
| 53   | 5.350G         | 54   | 5.338G         | 55   | 5.332G         | 56   | 5.602G         |
| 57   | 5.277G         | 58   | 5.367G         | 59   | 5.572G         | 60   | 5.611G         |
| 61   | 5.294G         | 62   | 5.584G         | 63   | 5.529G         | 64   | 5.678G         |
| 65   | 5.501G         | 66   | 5.267G         | 67   | 5.536G         | 68   | 5.301G         |
| 69   | 5.516G         | 70   | 5.650G         | 71   | 5.664G         | 72   | 5.662G         |
| 73   | 5.263G         | 74   | 5.458G         | 75   | 5.528G         | 76   | 5.707G         |
| 77   | 5.717G         | 78   | 5.418G         | 79   | 5.560G         | 80   | 5.604G         |
| 81   | 5.644G         | 82   | 5.396G         | 83   | 5.416G         | 84   | 5.514G         |
| 85   | 5.526G         | 86   | 5.699G         | 87   | 5.443G         | 88   | 5.674G         |
| 89   | 5.411G         | 90   | 5.671G         | 91   | 5.510G         | 92   | 5.257G         |
| 93   | 5.436G         | 94   | 5.424G         | 95   | 5.459G         | 96   | 5.273G         |
| 97   | 5.685G         | 98   | 5.463G         | 99   | 5.288G         | 100  | 5.275G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.278G         | 2    | 5.505G         | 3    | 5.563G         | 4    | 5.422G         |
| 5    | 5.685G         | 6    | 5.270G         | 7    | 5.545G         | 8    | 5.321G         |
| 9    | 5.641G         | 10   | 5.680G         | 11   | 5.568G         | 12   | 5.284G         |
| 13   | 5.675G         | 14   | 5.542G         | 15   | 5.406G         | 16   | 5.426G         |
| 17   | 5.346G         | 18   | 5.327G         | 19   | 5.558G         | 20   | 5.423G         |
| 21   | 5.285G         | 22   | 5.434G         | 23   | 5.720G         | 24   | 5.538G         |
| 25   | 5.357G         | 26   | 5.286G         | 27   | 5.362G         | 28   | 5.522G         |
| 29   | 5.520G         | 30   | 5.438G         | 31   | 5.418G         | 32   | 5.448G         |
| 33   | 5.605G         | 34   | 5.451G         | 35   | 5.516G         | 36   | 5.319G         |
| 37   | 5.694G         | 38   | 5.671G         | 39   | 5.518G         | 40   | 5.553G         |
| 41   | 5.252G         | 42   | 5.395G         | 43   | 5.482G         | 44   | 5.419G         |
| 45   | 5.397G         | 46   | 5.716G         | 47   | 5.349G         | 48   | 5.661G         |
| 49   | 5.296G         | 50   | 5.693G         | 51   | 5.414G         | 52   | 5.670G         |
| 53   | 5.356G         | 54   | 5.527G         | 55   | 5.704G         | 56   | 5.566G         |
| 57   | 5.429G         | 58   | 5.592G         | 59   | 5.353G         | 60   | 5.361G         |
| 61   | 5.475G         | 62   | 5.636G         | 63   | 5.508G         | 64   | 5.718G         |
| 65   | 5.484G         | 66   | 5.405G         | 67   | 5.348G         | 68   | 5.650G         |
| 69   | 5.412G         | 70   | 5.607G         | 71   | 5.294G         | 72   | 5.721G         |
| 73   | 5.565G         | 74   | 5.379G         | 75   | 5.279G         | 76   | 5.433G         |
| 77   | 5.578G         | 78   | 5.610G         | 79   | 5.477G         | 80   | 5.571G         |
| 81   | 5.276G         | 82   | 5.495G         | 83   | 5.308G         | 84   | 5.698G         |
| 85   | 5.572G         | 86   | 5.398G         | 87   | 5.387G         | 88   | 5.597G         |
| 89   | 5.688G         | 90   | 5.590G         | 91   | 5.485G         | 92   | 5.497G         |
| 93   | 5.253G         | 94   | 5.617G         | 95   | 5.632G         | 96   | 5.363G         |
| 97   | 5.628G         | 98   | 5.376G         | 99   | 5.282G         | 100  | 5.490G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.535G         | 2    | 5.444G         | 3    | 5.468G         | 4    | 5.719G         |
| 5    | 5.264G         | 6    | 5.349G         | 7    | 5.554G         | 8    | 5.387G         |
| 9    | 5.462G         | 10   | 5.632G         | 11   | 5.490G         | 12   | 5.478G         |
| 13   | 5.340G         | 14   | 5.494G         | 15   | 5.323G         | 16   | 5.320G         |
| 17   | 5.560G         | 18   | 5.435G         | 19   | 5.367G         | 20   | 5.544G         |
| 21   | 5.519G         | 22   | 5.401G         | 23   | 5.616G         | 24   | 5.485G         |
| 25   | 5.477G         | 26   | 5.482G         | 27   | 5.669G         | 28   | 5.553G         |
| 29   | 5.682G         | 30   | 5.308G         | 31   | 5.293G         | 32   | 5.496G         |
| 33   | 5.480G         | 34   | 5.593G         | 35   | 5.268G         | 36   | 5.324G         |
| 37   | 5.657G         | 38   | 5.587G         | 39   | 5.712G         | 40   | 5.635G         |
| 41   | 5.473G         | 42   | 5.441G         | 43   | 5.442G         | 44   | 5.649G         |
| 45   | 5.597G         | 46   | 5.517G         | 47   | 5.279G         | 48   | 5.454G         |
| 49   | 5.689G         | 50   | 5.456G         | 51   | 5.529G         | 52   | 5.391G         |
| 53   | 5.515G         | 54   | 5.350G         | 55   | 5.434G         | 56   | 5.505G         |
| 57   | 5.539G         | 58   | 5.582G         | 59   | 5.604G         | 60   | 5.370G         |
| 61   | 5.413G         | 62   | 5.414G         | 63   | 5.285G         | 64   | 5.605G         |
| 65   | 5.648G         | 66   | 5.345G         | 67   | 5.489G         | 68   | 5.671G         |
| 69   | 5.540G         | 70   | 5.289G         | 71   | 5.598G         | 72   | 5.542G         |
| 73   | 5.636G         | 74   | 5.381G         | 75   | 5.347G         | 76   | 5.522G         |
| 77   | 5.711G         | 78   | 5.693G         | 79   | 5.319G         | 80   | 5.431G         |
| 81   | 5.501G         | 82   | 5.486G         | 83   | 5.280G         | 84   | 5.647G         |
| 85   | 5.398G         | 86   | 5.259G         | 87   | 5.570G         | 88   | 5.504G         |
| 89   | 5.558G         | 90   | 5.426G         | 91   | 5.706G         | 92   | 5.291G         |
| 93   | 5.253G         | 94   | 5.662G         | 95   | 5.362G         | 96   | 5.667G         |
| 97   | 5.590G         | 98   | 5.569G         | 99   | 5.531G         | 100  | 5.405G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.642G         | 2    | 5.685G         | 3    | 5.613G         | 4    | 5.701G         |
| 5    | 5.526G         | 6    | 5.604G         | 7    | 5.329G         | 8    | 5.551G         |
| 9    | 5.624G         | 10   | 5.389G         | 11   | 5.696G         | 12   | 5.599G         |
| 13   | 5.323G         | 14   | 5.274G         | 15   | 5.293G         | 16   | 5.416G         |
| 17   | 5.720G         | 18   | 5.453G         | 19   | 5.655G         | 20   | 5.608G         |
| 21   | 5.344G         | 22   | 5.349G         | 23   | 5.399G         | 24   | 5.605G         |
| 25   | 5.326G         | 26   | 5.693G         | 27   | 5.674G         | 28   | 5.255G         |
| 29   | 5.370G         | 30   | 5.285G         | 31   | 5.666G         | 32   | 5.578G         |
| 33   | 5.260G         | 34   | 5.275G         | 35   | 5.409G         | 36   | 5.715G         |
| 37   | 5.660G         | 38   | 5.460G         | 39   | 5.324G         | 40   | 5.509G         |
| 41   | 5.712G         | 42   | 5.312G         | 43   | 5.480G         | 44   | 5.375G         |
| 45   | 5.681G         | 46   | 5.631G         | 47   | 5.714G         | 48   | 5.512G         |
| 49   | 5.445G         | 50   | 5.514G         | 51   | 5.354G         | 52   | 5.483G         |
| 53   | 5.490G         | 54   | 5.654G         | 55   | 5.386G         | 56   | 5.291G         |
| 57   | 5.476G         | 58   | 5.716G         | 59   | 5.362G         | 60   | 5.265G         |
| 61   | 5.680G         | 62   | 5.439G         | 63   | 5.541G         | 64   | 5.573G         |
| 65   | 5.682G         | 66   | 5.644G         | 67   | 5.414G         | 68   | 5.422G         |
| 69   | 5.668G         | 70   | 5.677G         | 71   | 5.609G         | 72   | 5.705G         |
| 73   | 5.473G         | 74   | 5.517G         | 75   | 5.482G         | 76   | 5.549G         |
| 77   | 5.360G         | 78   | 5.485G         | 79   | 5.684G         | 80   | 5.317G         |
| 81   | 5.264G         | 82   | 5.711G         | 83   | 5.355G         | 84   | 5.596G         |
| 85   | 5.300G         | 86   | 5.592G         | 87   | 5.303G         | 88   | 5.594G         |
| 89   | 5.579G         | 90   | 5.649G         | 91   | 5.340G         | 92   | 5.667G         |
| 93   | 5.643G         | 94   | 5.575G         | 95   | 5.396G         | 96   | 5.436G         |
| 97   | 5.437G         | 98   | 5.408G         | 99   | 5.561G         | 100  | 5.421G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.597G         | 2    | 5.360G         | 3    | 5.666G         | 4    | 5.431G         |
| 5    | 5.587G         | 6    | 5.521G         | 7    | 5.471G         | 8    | 5.553G         |
| 9    | 5.676G         | 10   | 5.338G         | 11   | 5.722G         | 12   | 5.347G         |
| 13   | 5.458G         | 14   | 5.498G         | 15   | 5.620G         | 16   | 5.641G         |
| 17   | 5.596G         | 18   | 5.295G         | 19   | 5.317G         | 20   | 5.605G         |
| 21   | 5.532G         | 22   | 5.650G         | 23   | 5.558G         | 24   | 5.700G         |
| 25   | 5.495G         | 26   | 5.481G         | 27   | 5.485G         | 28   | 5.390G         |
| 29   | 5.656G         | 30   | 5.648G         | 31   | 5.365G         | 32   | 5.708G         |
| 33   | 5.371G         | 34   | 5.441G         | 35   | 5.702G         | 36   | 5.504G         |
| 37   | 5.261G         | 38   | 5.398G         | 39   | 5.392G         | 40   | 5.572G         |
| 41   | 5.683G         | 42   | 5.567G         | 43   | 5.585G         | 44   | 5.623G         |
| 45   | 5.569G         | 46   | 5.256G         | 47   | 5.505G         | 48   | 5.649G         |
| 49   | 5.426G         | 50   | 5.264G         | 51   | 5.640G         | 52   | 5.690G         |
| 53   | 5.520G         | 54   | 5.466G         | 55   | 5.593G         | 56   | 5.568G         |
| 57   | 5.325G         | 58   | 5.383G         | 59   | 5.300G         | 60   | 5.389G         |
| 61   | 5.469G         | 62   | 5.253G         | 63   | 5.285G         | 64   | 5.724G         |
| 65   | 5.538G         | 66   | 5.467G         | 67   | 5.519G         | 68   | 5.686G         |
| 69   | 5.539G         | 70   | 5.313G         | 71   | 5.713G         | 72   | 5.312G         |
| 73   | 5.654G         | 74   | 5.299G         | 75   | 5.446G         | 76   | 5.366G         |
| 77   | 5.320G         | 78   | 5.479G         | 79   | 5.492G         | 80   | 5.340G         |
| 81   | 5.548G         | 82   | 5.671G         | 83   | 5.698G         | 84   | 5.674G         |
| 85   | 5.343G         | 86   | 5.710G         | 87   | 5.443G         | 88   | 5.503G         |
| 89   | 5.599G         | 90   | 5.474G         | 91   | 5.502G         | 92   | 5.437G         |
| 93   | 5.263G         | 94   | 5.604G         | 95   | 5.393G         | 96   | 5.372G         |
| 97   | 5.369G         | 98   | 5.262G         | 99   | 5.711G         | 100  | 5.527G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.667G         | 2    | 5.626G         | 3    | 5.314G         | 4    | 5.440G         |
| 5    | 5.527G         | 6    | 5.365G         | 7    | 5.653G         | 8    | 5.652G         |
| 9    | 5.469G         | 10   | 5.694G         | 11   | 5.496G         | 12   | 5.634G         |
| 13   | 5.517G         | 14   | 5.354G         | 15   | 5.481G         | 16   | 5.505G         |
| 17   | 5.292G         | 18   | 5.254G         | 19   | 5.569G         | 20   | 5.649G         |
| 21   | 5.433G         | 22   | 5.604G         | 23   | 5.404G         | 24   | 5.349G         |
| 25   | 5.416G         | 26   | 5.551G         | 27   | 5.603G         | 28   | 5.561G         |
| 29   | 5.386G         | 30   | 5.648G         | 31   | 5.369G         | 32   | 5.252G         |
| 33   | 5.635G         | 34   | 5.605G         | 35   | 5.399G         | 36   | 5.485G         |
| 37   | 5.391G         | 38   | 5.641G         | 39   | 5.518G         | 40   | 5.607G         |
| 41   | 5.529G         | 42   | 5.590G         | 43   | 5.520G         | 44   | 5.514G         |
| 45   | 5.409G         | 46   | 5.336G         | 47   | 5.567G         | 48   | 5.679G         |
| 49   | 5.698G         | 50   | 5.594G         | 51   | 5.564G         | 52   | 5.419G         |
| 53   | 5.657G         | 54   | 5.668G         | 55   | 5.689G         | 56   | 5.306G         |
| 57   | 5.385G         | 58   | 5.278G         | 59   | 5.688G         | 60   | 5.423G         |
| 61   | 5.674G         | 62   | 5.536G         | 63   | 5.544G         | 64   | 5.435G         |
| 65   | 5.251G         | 66   | 5.601G         | 67   | 5.438G         | 68   | 5.280G         |
| 69   | 5.260G         | 70   | 5.288G         | 71   | 5.711G         | 72   | 5.389G         |
| 73   | 5.640G         | 74   | 5.556G         | 75   | 5.664G         | 76   | 5.718G         |
| 77   | 5.677G         | 78   | 5.651G         | 79   | 5.277G         | 80   | 5.420G         |
| 81   | 5.300G         | 82   | 5.683G         | 83   | 5.573G         | 84   | 5.702G         |
| 85   | 5.256G         | 86   | 5.684G         | 87   | 5.533G         | 88   | 5.362G         |
| 89   | 5.443G         | 90   | 5.712G         | 91   | 5.612G         | 92   | 5.606G         |
| 93   | 5.491G         | 94   | 5.364G         | 95   | 5.338G         | 96   | 5.417G         |
| 97   | 5.428G         | 98   | 5.553G         | 99   | 5.595G         | 100  | 5.583G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.652G         | 2    | 5.260G         | 3    | 5.508G         | 4    | 5.643G         |
| 5    | 5.653G         | 6    | 5.659G         | 7    | 5.381G         | 8    | 5.683G         |
| 9    | 5.724G         | 10   | 5.711G         | 11   | 5.577G         | 12   | 5.333G         |
| 13   | 5.682G         | 14   | 5.307G         | 15   | 5.258G         | 16   | 5.603G         |
| 17   | 5.605G         | 18   | 5.534G         | 19   | 5.520G         | 20   | 5.491G         |
| 21   | 5.367G         | 22   | 5.672G         | 23   | 5.355G         | 24   | 5.372G         |
| 25   | 5.651G         | 26   | 5.541G         | 27   | 5.274G         | 28   | 5.666G         |
| 29   | 5.498G         | 30   | 5.336G         | 31   | 5.420G         | 32   | 5.701G         |
| 33   | 5.496G         | 34   | 5.707G         | 35   | 5.361G         | 36   | 5.608G         |
| 37   | 5.582G         | 38   | 5.631G         | 39   | 5.289G         | 40   | 5.386G         |
| 41   | 5.568G         | 42   | 5.671G         | 43   | 5.455G         | 44   | 5.279G         |
| 45   | 5.558G         | 46   | 5.595G         | 47   | 5.363G         | 48   | 5.352G         |
| 49   | 5.549G         | 50   | 5.434G         | 51   | 5.602G         | 52   | 5.362G         |
| 53   | 5.379G         | 54   | 5.419G         | 55   | 5.554G         | 56   | 5.686G         |
| 57   | 5.366G         | 58   | 5.516G         | 59   | 5.285G         | 60   | 5.405G         |
| 61   | 5.319G         | 62   | 5.596G         | 63   | 5.394G         | 64   | 5.385G         |
| 65   | 5.356G         | 66   | 5.300G         | 67   | 5.641G         | 68   | 5.280G         |
| 69   | 5.332G         | 70   | 5.626G         | 71   | 5.674G         | 72   | 5.295G         |
| 73   | 5.664G         | 74   | 5.600G         | 75   | 5.523G         | 76   | 5.440G         |
| 77   | 5.286G         | 78   | 5.490G         | 79   | 5.259G         | 80   | 5.593G         |
| 81   | 5.531G         | 82   | 5.634G         | 83   | 5.489G         | 84   | 5.559G         |
| 85   | 5.527G         | 86   | 5.578G         | 87   | 5.322G         | 88   | 5.589G         |
| 89   | 5.709G         | 90   | 5.525G         | 91   | 5.535G         | 92   | 5.537G         |
| 93   | 5.636G         | 94   | 5.521G         | 95   | 5.323G         | 96   | 5.716G         |
| 97   | 5.611G         | 98   | 5.632G         | 99   | 5.282G         | 100  | 5.598G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.448G         | 2    | 5.353G         | 3    | 5.542G         | 4    | 5.384G         |
| 5    | 5.676G         | 6    | 5.609G         | 7    | 5.518G         | 8    | 5.454G         |
| 9    | 5.662G         | 10   | 5.516G         | 11   | 5.357G         | 12   | 5.406G         |
| 13   | 5.491G         | 14   | 5.438G         | 15   | 5.408G         | 16   | 5.263G         |
| 17   | 5.625G         | 18   | 5.559G         | 19   | 5.652G         | 20   | 5.280G         |
| 21   | 5.577G         | 22   | 5.254G         | 23   | 5.556G         | 24   | 5.472G         |
| 25   | 5.672G         | 26   | 5.282G         | 27   | 5.639G         | 28   | 5.527G         |
| 29   | 5.612G         | 30   | 5.569G         | 31   | 5.555G         | 32   | 5.630G         |
| 33   | 5.347G         | 34   | 5.607G         | 35   | 5.647G         | 36   | 5.425G         |
| 37   | 5.422G         | 38   | 5.329G         | 39   | 5.501G         | 40   | 5.704G         |
| 41   | 5.364G         | 42   | 5.374G         | 43   | 5.702G         | 44   | 5.554G         |
| 45   | 5.644G         | 46   | 5.277G         | 47   | 5.626G         | 48   | 5.418G         |
| 49   | 5.587G         | 50   | 5.604G         | 51   | 5.677G         | 52   | 5.558G         |
| 53   | 5.568G         | 54   | 5.534G         | 55   | 5.497G         | 56   | 5.401G         |
| 57   | 5.252G         | 58   | 5.466G         | 59   | 5.571G         | 60   | 5.584G         |
| 61   | 5.714G         | 62   | 5.682G         | 63   | 5.552G         | 64   | 5.610G         |
| 65   | 5.597G         | 66   | 5.392G         | 67   | 5.370G         | 68   | 5.456G         |
| 69   | 5.316G         | 70   | 5.274G         | 71   | 5.506G         | 72   | 5.523G         |
| 73   | 5.537G         | 74   | 5.533G         | 75   | 5.546G         | 76   | 5.645G         |
| 77   | 5.276G         | 78   | 5.505G         | 79   | 5.484G         | 80   | 5.684G         |
| 81   | 5.679G         | 82   | 5.259G         | 83   | 5.285G         | 84   | 5.668G         |
| 85   | 5.723G         | 86   | 5.656G         | 87   | 5.673G         | 88   | 5.255G         |
| 89   | 5.594G         | 90   | 5.339G         | 91   | 5.268G         | 92   | 5.502G         |
| 93   | 5.496G         | 94   | 5.503G         | 95   | 5.323G         | 96   | 5.273G         |
| 97   | 5.342G         | 98   | 5.711G         | 99   | 5.410G         | 100  | 5.661G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.407G         | 2    | 5.441G         | 3    | 5.498G         | 4    | 5.515G         |
| 5    | 5.358G         | 6    | 5.316G         | 7    | 5.659G         | 8    | 5.695G         |
| 9    | 5.542G         | 10   | 5.393G         | 11   | 5.592G         | 12   | 5.682G         |
| 13   | 5.332G         | 14   | 5.675G         | 15   | 5.608G         | 16   | 5.588G         |
| 17   | 5.578G         | 18   | 5.291G         | 19   | 5.614G         | 20   | 5.282G         |
| 21   | 5.648G         | 22   | 5.476G         | 23   | 5.273G         | 24   | 5.312G         |
| 25   | 5.697G         | 26   | 5.658G         | 27   | 5.349G         | 28   | 5.600G         |
| 29   | 5.279G         | 30   | 5.431G         | 31   | 5.484G         | 32   | 5.372G         |
| 33   | 5.283G         | 34   | 5.378G         | 35   | 5.401G         | 36   | 5.505G         |
| 37   | 5.471G         | 38   | 5.295G         | 39   | 5.470G         | 40   | 5.341G         |
| 41   | 5.669G         | 42   | 5.366G         | 43   | 5.290G         | 44   | 5.475G         |
| 45   | 5.549G         | 46   | 5.633G         | 47   | 5.430G         | 48   | 5.539G         |
| 49   | 5.425G         | 50   | 5.387G         | 51   | 5.511G         | 52   | 5.373G         |
| 53   | 5.514G         | 54   | 5.634G         | 55   | 5.297G         | 56   | 5.461G         |
| 57   | 5.392G         | 58   | 5.516G         | 59   | 5.270G         | 60   | 5.280G         |
| 61   | 5.427G         | 62   | 5.570G         | 63   | 5.289G         | 64   | 5.310G         |
| 65   | 5.411G         | 66   | 5.412G         | 67   | 5.711G         | 68   | 5.568G         |
| 69   | 5.386G         | 70   | 5.655G         | 71   | 5.409G         | 72   | 5.374G         |
| 73   | 5.437G         | 74   | 5.302G         | 75   | 5.617G         | 76   | 5.572G         |
| 77   | 5.370G         | 78   | 5.667G         | 79   | 5.601G         | 80   | 5.447G         |
| 81   | 5.551G         | 82   | 5.525G         | 83   | 5.292G         | 84   | 5.481G         |
| 85   | 5.571G         | 86   | 5.605G         | 87   | 5.395G         | 88   | 5.496G         |
| 89   | 5.402G         | 90   | 5.644G         | 91   | 5.631G         | 92   | 5.432G         |
| 93   | 5.694G         | 94   | 5.662G         | 95   | 5.540G         | 96   | 5.489G         |
| 97   | 5.463G         | 98   | 5.521G         | 99   | 5.486G         | 100  | 5.616G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.544G         | 2    | 5.339G         | 3    | 5.529G         | 4    | 5.472G         |
| 5    | 5.508G         | 6    | 5.431G         | 7    | 5.596G         | 8    | 5.270G         |
| 9    | 5.327G         | 10   | 5.379G         | 11   | 5.662G         | 12   | 5.462G         |
| 13   | 5.273G         | 14   | 5.617G         | 15   | 5.651G         | 16   | 5.377G         |
| 17   | 5.686G         | 18   | 5.415G         | 19   | 5.488G         | 20   | 5.380G         |
| 21   | 5.351G         | 22   | 5.688G         | 23   | 5.260G         | 24   | 5.530G         |
| 25   | 5.589G         | 26   | 5.703G         | 27   | 5.632G         | 28   | 5.609G         |
| 29   | 5.333G         | 30   | 5.286G         | 31   | 5.507G         | 32   | 5.693G         |
| 33   | 5.664G         | 34   | 5.582G         | 35   | 5.461G         | 36   | 5.358G         |
| 37   | 5.667G         | 38   | 5.555G         | 39   | 5.367G         | 40   | 5.570G         |
| 41   | 5.711G         | 42   | 5.372G         | 43   | 5.537G         | 44   | 5.267G         |
| 45   | 5.301G         | 46   | 5.585G         | 47   | 5.288G         | 48   | 5.583G         |
| 49   | 5.398G         | 50   | 5.421G         | 51   | 5.291G         | 52   | 5.445G         |
| 53   | 5.541G         | 54   | 5.504G         | 55   | 5.384G         | 56   | 5.299G         |
| 57   | 5.543G         | 58   | 5.556G         | 59   | 5.496G         | 60   | 5.477G         |
| 61   | 5.423G         | 62   | 5.678G         | 63   | 5.624G         | 64   | 5.353G         |
| 65   | 5.413G         | 66   | 5.296G         | 67   | 5.706G         | 68   | 5.685G         |
| 69   | 5.473G         | 70   | 5.722G         | 71   | 5.424G         | 72   | 5.525G         |
| 73   | 5.674G         | 74   | 5.359G         | 75   | 5.325G         | 76   | 5.489G         |
| 77   | 5.614G         | 78   | 5.622G         | 79   | 5.294G         | 80   | 5.573G         |
| 81   | 5.494G         | 82   | 5.326G         | 83   | 5.394G         | 84   | 5.482G         |
| 85   | 5.650G         | 86   | 5.435G         | 87   | 5.659G         | 88   | 5.400G         |
| 89   | 5.637G         | 90   | 5.355G         | 91   | 5.258G         | 92   | 5.449G         |
| 93   | 5.718G         | 94   | 5.676G         | 95   | 5.447G         | 96   | 5.549G         |
| 97   | 5.640G         | 98   | 5.645G         | 99   | 5.276G         | 100  | 5.533G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.358G         | 2    | 5.430G         | 3    | 5.615G         | 4    | 5.653G         |
| 5    | 5.439G         | 6    | 5.310G         | 7    | 5.399G         | 8    | 5.722G         |
| 9    | 5.721G         | 10   | 5.494G         | 11   | 5.352G         | 12   | 5.449G         |
| 13   | 5.538G         | 14   | 5.337G         | 15   | 5.438G         | 16   | 5.262G         |
| 17   | 5.307G         | 18   | 5.409G         | 19   | 5.503G         | 20   | 5.419G         |
| 21   | 5.487G         | 22   | 5.282G         | 23   | 5.417G         | 24   | 5.295G         |
| 25   | 5.644G         | 26   | 5.622G         | 27   | 5.383G         | 28   | 5.334G         |
| 29   | 5.692G         | 30   | 5.658G         | 31   | 5.598G         | 32   | 5.372G         |
| 33   | 5.573G         | 34   | 5.576G         | 35   | 5.491G         | 36   | 5.621G         |
| 37   | 5.380G         | 38   | 5.586G         | 39   | 5.527G         | 40   | 5.698G         |
| 41   | 5.342G         | 42   | 5.275G         | 43   | 5.492G         | 44   | 5.630G         |
| 45   | 5.529G         | 46   | 5.724G         | 47   | 5.269G         | 48   | 5.411G         |
| 49   | 5.474G         | 50   | 5.608G         | 51   | 5.553G         | 52   | 5.602G         |
| 53   | 5.429G         | 54   | 5.478G         | 55   | 5.312G         | 56   | 5.318G         |
| 57   | 5.673G         | 58   | 5.297G         | 59   | 5.369G         | 60   | 5.377G         |
| 61   | 5.375G         | 62   | 5.285G         | 63   | 5.558G         | 64   | 5.260G         |
| 65   | 5.390G         | 66   | 5.268G         | 67   | 5.656G         | 68   | 5.370G         |
| 69   | 5.596G         | 70   | 5.605G         | 71   | 5.591G         | 72   | 5.629G         |
| 73   | 5.506G         | 74   | 5.351G         | 75   | 5.281G         | 76   | 5.336G         |
| 77   | 5.524G         | 78   | 5.521G         | 79   | 5.461G         | 80   | 5.367G         |
| 81   | 5.296G         | 82   | 5.347G         | 83   | 5.435G         | 84   | 5.329G         |
| 85   | 5.340G         | 86   | 5.299G         | 87   | 5.680G         | 88   | 5.448G         |
| 89   | 5.261G         | 90   | 5.510G         | 91   | 5.265G         | 92   | 5.555G         |
| 93   | 5.595G         | 94   | 5.457G         | 95   | 5.280G         | 96   | 5.359G         |
| 97   | 5.410G         | 98   | 5.509G         | 99   | 5.379G         | 100  | 5.447G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.393G         | 2    | 5.673G         | 3    | 5.362G         | 4    | 5.390G         |
| 5    | 5.528G         | 6    | 5.625G         | 7    | 5.315G         | 8    | 5.383G         |
| 9    | 5.653G         | 10   | 5.342G         | 11   | 5.572G         | 12   | 5.613G         |
| 13   | 5.252G         | 14   | 5.520G         | 15   | 5.685G         | 16   | 5.292G         |
| 17   | 5.268G         | 18   | 5.450G         | 19   | 5.259G         | 20   | 5.674G         |
| 21   | 5.321G         | 22   | 5.371G         | 23   | 5.531G         | 24   | 5.381G         |
| 25   | 5.284G         | 26   | 5.403G         | 27   | 5.599G         | 28   | 5.549G         |
| 29   | 5.400G         | 30   | 5.482G         | 31   | 5.281G         | 32   | 5.454G         |
| 33   | 5.689G         | 34   | 5.290G         | 35   | 5.481G         | 36   | 5.540G         |
| 37   | 5.571G         | 38   | 5.368G         | 39   | 5.440G         | 40   | 5.555G         |
| 41   | 5.607G         | 42   | 5.399G         | 43   | 5.713G         | 44   | 5.301G         |
| 45   | 5.423G         | 46   | 5.369G         | 47   | 5.445G         | 48   | 5.566G         |
| 49   | 5.574G         | 50   | 5.724G         | 51   | 5.639G         | 52   | 5.406G         |
| 53   | 5.407G         | 54   | 5.543G         | 55   | 5.476G         | 56   | 5.660G         |
| 57   | 5.633G         | 58   | 5.700G         | 59   | 5.417G         | 60   | 5.439G         |
| 61   | 5.589G         | 62   | 5.585G         | 63   | 5.435G         | 64   | 5.500G         |
| 65   | 5.715G         | 66   | 5.280G         | 67   | 5.697G         | 68   | 5.366G         |
| 69   | 5.442G         | 70   | 5.558G         | 71   | 5.286G         | 72   | 5.448G         |
| 73   | 5.716G         | 74   | 5.508G         | 75   | 5.634G         | 76   | 5.488G         |
| 77   | 5.657G         | 78   | 5.554G         | 79   | 5.461G         | 80   | 5.721G         |
| 81   | 5.517G         | 82   | 5.269G         | 83   | 5.584G         | 84   | 5.693G         |
| 85   | 5.587G         | 86   | 5.502G         | 87   | 5.431G         | 88   | 5.405G         |
| 89   | 5.272G         | 90   | 5.707G         | 91   | 5.667G         | 92   | 5.418G         |
| 93   | 5.662G         | 94   | 5.387G         | 95   | 5.610G         | 96   | 5.536G         |
| 97   | 5.485G         | 98   | 5.605G         | 99   | 5.526G         | 100  | 5.279G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.293G         | 2    | 5.401G         | 3    | 5.260G         | 4    | 5.640G         |
| 5    | 5.308G         | 6    | 5.684G         | 7    | 5.527G         | 8    | 5.417G         |
| 9    | 5.419G         | 10   | 5.660G         | 11   | 5.495G         | 12   | 5.628G         |
| 13   | 5.363G         | 14   | 5.470G         | 15   | 5.517G         | 16   | 5.412G         |
| 17   | 5.446G         | 18   | 5.302G         | 19   | 5.567G         | 20   | 5.712G         |
| 21   | 5.272G         | 22   | 5.335G         | 23   | 5.582G         | 24   | 5.500G         |
| 25   | 5.311G         | 26   | 5.550G         | 27   | 5.378G         | 28   | 5.601G         |
| 29   | 5.671G         | 30   | 5.667G         | 31   | 5.452G         | 32   | 5.271G         |
| 33   | 5.283G         | 34   | 5.719G         | 35   | 5.536G         | 36   | 5.652G         |
| 37   | 5.526G         | 38   | 5.481G         | 39   | 5.657G         | 40   | 5.254G         |
| 41   | 5.343G         | 42   | 5.505G         | 43   | 5.542G         | 44   | 5.483G         |
| 45   | 5.342G         | 46   | 5.259G         | 47   | 5.710G         | 48   | 5.545G         |
| 49   | 5.410G         | 50   | 5.516G         | 51   | 5.489G         | 52   | 5.696G         |
| 53   | 5.512G         | 54   | 5.554G         | 55   | 5.571G         | 56   | 5.433G         |
| 57   | 5.445G         | 58   | 5.634G         | 59   | 5.345G         | 60   | 5.434G         |
| 61   | 5.716G         | 62   | 5.613G         | 63   | 5.541G         | 64   | 5.268G         |
| 65   | 5.282G         | 66   | 5.252G         | 67   | 5.442G         | 68   | 5.488G         |
| 69   | 5.703G         | 70   | 5.586G         | 71   | 5.349G         | 72   | 5.544G         |
| 73   | 5.325G         | 74   | 5.514G         | 75   | 5.456G         | 76   | 5.508G         |
| 77   | 5.403G         | 78   | 5.387G         | 79   | 5.406G         | 80   | 5.653G         |
| 81   | 5.497G         | 82   | 5.454G         | 83   | 5.307G         | 84   | 5.430G         |
| 85   | 5.377G         | 86   | 5.431G         | 87   | 5.382G         | 88   | 5.539G         |
| 89   | 5.251G         | 90   | 5.420G         | 91   | 5.638G         | 92   | 5.676G         |
| 93   | 5.592G         | 94   | 5.579G         | 95   | 5.463G         | 96   | 5.678G         |
| 97   | 5.262G         | 98   | 5.364G         | 99   | 5.388G         | 100  | 5.261G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.700G         | 2    | 5.350G         | 3    | 5.410G         | 4    | 5.401G         |
| 5    | 5.669G         | 6    | 5.409G         | 7    | 5.462G         | 8    | 5.338G         |
| 9    | 5.266G         | 10   | 5.526G         | 11   | 5.681G         | 12   | 5.337G         |
| 13   | 5.420G         | 14   | 5.267G         | 15   | 5.516G         | 16   | 5.629G         |
| 17   | 5.389G         | 18   | 5.299G         | 19   | 5.490G         | 20   | 5.398G         |
| 21   | 5.380G         | 22   | 5.418G         | 23   | 5.523G         | 24   | 5.655G         |
| 25   | 5.360G         | 26   | 5.328G         | 27   | 5.397G         | 28   | 5.639G         |
| 29   | 5.417G         | 30   | 5.423G         | 31   | 5.540G         | 32   | 5.342G         |
| 33   | 5.656G         | 34   | 5.296G         | 35   | 5.491G         | 36   | 5.635G         |
| 37   | 5.395G         | 38   | 5.255G         | 39   | 5.556G         | 40   | 5.254G         |
| 41   | 5.278G         | 42   | 5.648G         | 43   | 5.295G         | 44   | 5.576G         |
| 45   | 5.686G         | 46   | 5.569G         | 47   | 5.439G         | 48   | 5.476G         |
| 49   | 5.614G         | 50   | 5.422G         | 51   | 5.336G         | 52   | 5.367G         |
| 53   | 5.259G         | 54   | 5.461G         | 55   | 5.566G         | 56   | 5.702G         |
| 57   | 5.345G         | 58   | 5.307G         | 59   | 5.319G         | 60   | 5.289G         |
| 61   | 5.517G         | 62   | 5.281G         | 63   | 5.581G         | 64   | 5.673G         |
| 65   | 5.489G         | 66   | 5.339G         | 67   | 5.436G         | 68   | 5.352G         |
| 69   | 5.440G         | 70   | 5.634G         | 71   | 5.504G         | 72   | 5.411G         |
| 73   | 5.407G         | 74   | 5.625G         | 75   | 5.601G         | 76   | 5.678G         |
| 77   | 5.671G         | 78   | 5.282G         | 79   | 5.710G         | 80   | 5.324G         |
| 81   | 5.264G         | 82   | 5.536G         | 83   | 5.633G         | 84   | 5.499G         |
| 85   | 5.271G         | 86   | 5.568G         | 87   | 5.559G         | 88   | 5.644G         |
| 89   | 5.514G         | 90   | 5.664G         | 91   | 5.326G         | 92   | 5.294G         |
| 93   | 5.646G         | 94   | 5.315G         | 95   | 5.340G         | 96   | 5.408G         |
| 97   | 5.638G         | 98   | 5.599G         | 99   | 5.670G         | 100  | 5.561G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.563G         | 2    | 5.478G         | 3    | 5.723G         | 4    | 5.319G         |
| 5    | 5.374G         | 6    | 5.492G         | 7    | 5.469G         | 8    | 5.292G         |
| 9    | 5.525G         | 10   | 5.252G         | 11   | 5.350G         | 12   | 5.608G         |
| 13   | 5.323G         | 14   | 5.681G         | 15   | 5.388G         | 16   | 5.545G         |
| 17   | 5.291G         | 18   | 5.517G         | 19   | 5.253G         | 20   | 5.383G         |
| 21   | 5.489G         | 22   | 5.654G         | 23   | 5.704G         | 24   | 5.616G         |
| 25   | 5.621G         | 26   | 5.593G         | 27   | 5.435G         | 28   | 5.332G         |
| 29   | 5.420G         | 30   | 5.375G         | 31   | 5.587G         | 32   | 5.610G         |
| 33   | 5.498G         | 34   | 5.376G         | 35   | 5.661G         | 36   | 5.596G         |
| 37   | 5.413G         | 38   | 5.269G         | 39   | 5.701G         | 40   | 5.510G         |
| 41   | 5.266G         | 42   | 5.626G         | 43   | 5.516G         | 44   | 5.483G         |
| 45   | 5.467G         | 46   | 5.518G         | 47   | 5.586G         | 48   | 5.255G         |
| 49   | 5.512G         | 50   | 5.315G         | 51   | 5.639G         | 52   | 5.316G         |
| 53   | 5.667G         | 54   | 5.625G         | 55   | 5.495G         | 56   | 5.560G         |
| 57   | 5.455G         | 58   | 5.286G         | 59   | 5.324G         | 60   | 5.678G         |
| 61   | 5.555G         | 62   | 5.594G         | 63   | 5.662G         | 64   | 5.505G         |
| 65   | 5.320G         | 66   | 5.685G         | 67   | 5.282G         | 68   | 5.335G         |
| 69   | 5.677G         | 70   | 5.585G         | 71   | 5.526G         | 72   | 5.670G         |
| 73   | 5.400G         | 74   | 5.541G         | 75   | 5.488G         | 76   | 5.477G         |
| 77   | 5.480G         | 78   | 5.507G         | 79   | 5.449G         | 80   | 5.385G         |
| 81   | 5.473G         | 82   | 5.412G         | 83   | 5.714G         | 84   | 5.549G         |
| 85   | 5.690G         | 86   | 5.295G         | 87   | 5.619G         | 88   | 5.683G         |
| 89   | 5.411G         | 90   | 5.343G         | 91   | 5.664G         | 92   | 5.637G         |
| 93   | 5.351G         | 94   | 5.285G         | 95   | 5.691G         | 96   | 5.554G         |
| 97   | 5.415G         | 98   | 5.530G         | 99   | 5.692G         | 100  | 5.452G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.497G         | 2    | 5.599G         | 3    | 5.670G         | 4    | 5.665G         |
| 5    | 5.351G         | 6    | 5.278G         | 7    | 5.388G         | 8    | 5.600G         |
| 9    | 5.263G         | 10   | 5.572G         | 11   | 5.364G         | 12   | 5.532G         |
| 13   | 5.643G         | 14   | 5.487G         | 15   | 5.486G         | 16   | 5.631G         |
| 17   | 5.515G         | 18   | 5.492G         | 19   | 5.373G         | 20   | 5.442G         |
| 21   | 5.358G         | 22   | 5.293G         | 23   | 5.562G         | 24   | 5.355G         |
| 25   | 5.496G         | 26   | 5.467G         | 27   | 5.679G         | 28   | 5.707G         |
| 29   | 5.607G         | 30   | 5.513G         | 31   | 5.489G         | 32   | 5.485G         |
| 33   | 5.320G         | 34   | 5.418G         | 35   | 5.621G         | 36   | 5.416G         |
| 37   | 5.522G         | 38   | 5.407G         | 39   | 5.303G         | 40   | 5.357G         |
| 41   | 5.378G         | 42   | 5.542G         | 43   | 5.678G         | 44   | 5.452G         |
| 45   | 5.574G         | 46   | 5.449G         | 47   | 5.546G         | 48   | 5.610G         |
| 49   | 5.434G         | 50   | 5.613G         | 51   | 5.650G         | 52   | 5.469G         |
| 53   | 5.281G         | 54   | 5.608G         | 55   | 5.524G         | 56   | 5.529G         |
| 57   | 5.428G         | 58   | 5.661G         | 59   | 5.544G         | 60   | 5.512G         |
| 61   | 5.393G         | 62   | 5.411G         | 63   | 5.471G         | 64   | 5.462G         |
| 65   | 5.504G         | 66   | 5.399G         | 67   | 5.638G         | 68   | 5.298G         |
| 69   | 5.395G         | 70   | 5.553G         | 71   | 5.273G         | 72   | 5.578G         |
| 73   | 5.463G         | 74   | 5.423G         | 75   | 5.307G         | 76   | 5.516G         |
| 77   | 5.507G         | 78   | 5.480G         | 79   | 5.360G         | 80   | 5.721G         |
| 81   | 5.598G         | 82   | 5.376G         | 83   | 5.494G         | 84   | 5.398G         |
| 85   | 5.595G         | 86   | 5.521G         | 87   | 5.305G         | 88   | 5.446G         |
| 89   | 5.275G         | 90   | 5.443G         | 91   | 5.316G         | 92   | 5.437G         |
| 93   | 5.549G         | 94   | 5.693G         | 95   | 5.269G         | 96   | 5.295G         |
| 97   | 5.668G         | 98   | 5.586G         | 99   | 5.719G         | 100  | 5.615G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.691G         | 2    | 5.551G         | 3    | 5.579G         | 4    | 5.350G         |
| 5    | 5.688G         | 6    | 5.622G         | 7    | 5.294G         | 8    | 5.547G         |
| 9    | 5.460G         | 10   | 5.446G         | 11   | 5.270G         | 12   | 5.541G         |
| 13   | 5.620G         | 14   | 5.571G         | 15   | 5.384G         | 16   | 5.633G         |
| 17   | 5.477G         | 18   | 5.503G         | 19   | 5.553G         | 20   | 5.629G         |
| 21   | 5.472G         | 22   | 5.542G         | 23   | 5.528G         | 24   | 5.544G         |
| 25   | 5.613G         | 26   | 5.700G         | 27   | 5.434G         | 28   | 5.358G         |
| 29   | 5.525G         | 30   | 5.305G         | 31   | 5.644G         | 32   | 5.516G         |
| 33   | 5.648G         | 34   | 5.684G         | 35   | 5.488G         | 36   | 5.478G         |
| 37   | 5.498G         | 38   | 5.335G         | 39   | 5.441G         | 40   | 5.361G         |
| 41   | 5.411G         | 42   | 5.420G         | 43   | 5.396G         | 44   | 5.515G         |
| 45   | 5.353G         | 46   | 5.266G         | 47   | 5.451G         | 48   | 5.386G         |
| 49   | 5.617G         | 50   | 5.588G         | 51   | 5.374G         | 52   | 5.532G         |
| 53   | 5.666G         | 54   | 5.669G         | 55   | 5.314G         | 56   | 5.431G         |
| 57   | 5.520G         | 58   | 5.306G         | 59   | 5.272G         | 60   | 5.279G         |
| 61   | 5.634G         | 62   | 5.654G         | 63   | 5.619G         | 64   | 5.504G         |
| 65   | 5.334G         | 66   | 5.685G         | 67   | 5.690G         | 68   | 5.646G         |
| 69   | 5.575G         | 70   | 5.641G         | 71   | 5.297G         | 72   | 5.282G         |
| 73   | 5.713G         | 74   | 5.479G         | 75   | 5.663G         | 76   | 5.695G         |
| 77   | 5.492G         | 78   | 5.493G         | 79   | 5.668G         | 80   | 5.327G         |
| 81   | 5.288G         | 82   | 5.296G         | 83   | 5.413G         | 84   | 5.511G         |
| 85   | 5.486G         | 86   | 5.597G         | 87   | 5.286G         | 88   | 5.661G         |
| 89   | 5.421G         | 90   | 5.405G         | 91   | 5.536G         | 92   | 5.719G         |
| 93   | 5.518G         | 94   | 5.590G         | 95   | 5.608G         | 96   | 5.408G         |
| 97   | 5.582G         | 98   | 5.303G         | 99   | 5.449G         | 100  | 5.414G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.680G         | 2    | 5.483G         | 3    | 5.416G         | 4    | 5.549G         |
| 5    | 5.475G         | 6    | 5.321G         | 7    | 5.633G         | 8    | 5.278G         |
| 9    | 5.311G         | 10   | 5.524G         | 11   | 5.678G         | 12   | 5.521G         |
| 13   | 5.605G         | 14   | 5.367G         | 15   | 5.691G         | 16   | 5.672G         |
| 17   | 5.370G         | 18   | 5.504G         | 19   | 5.488G         | 20   | 5.433G         |
| 21   | 5.465G         | 22   | 5.282G         | 23   | 5.266G         | 24   | 5.701G         |
| 25   | 5.709G         | 26   | 5.267G         | 27   | 5.445G         | 28   | 5.385G         |
| 29   | 5.623G         | 30   | 5.299G         | 31   | 5.419G         | 32   | 5.707G         |
| 33   | 5.617G         | 34   | 5.322G         | 35   | 5.498G         | 36   | 5.632G         |
| 37   | 5.649G         | 38   | 5.546G         | 39   | 5.446G         | 40   | 5.541G         |
| 41   | 5.599G         | 42   | 5.630G         | 43   | 5.256G         | 44   | 5.568G         |
| 45   | 5.566G         | 46   | 5.537G         | 47   | 5.534G         | 48   | 5.277G         |
| 49   | 5.618G         | 50   | 5.374G         | 51   | 5.455G         | 52   | 5.283G         |
| 53   | 5.564G         | 54   | 5.312G         | 55   | 5.693G         | 56   | 5.436G         |
| 57   | 5.338G         | 58   | 5.372G         | 59   | 5.272G         | 60   | 5.369G         |
| 61   | 5.696G         | 62   | 5.507G         | 63   | 5.695G         | 64   | 5.529G         |
| 65   | 5.317G         | 66   | 5.384G         | 67   | 5.297G         | 68   | 5.494G         |
| 69   | 5.366G         | 70   | 5.705G         | 71   | 5.300G         | 72   | 5.715G         |
| 73   | 5.481G         | 74   | 5.287G         | 75   | 5.698G         | 76   | 5.301G         |
| 77   | 5.655G         | 78   | 5.670G         | 79   | 5.264G         | 80   | 5.420G         |
| 81   | 5.262G         | 82   | 5.676G         | 83   | 5.683G         | 84   | 5.394G         |
| 85   | 5.540G         | 86   | 5.337G         | 87   | 5.326G         | 88   | 5.431G         |
| 89   | 5.381G         | 90   | 5.505G         | 91   | 5.515G         | 92   | 5.275G         |
| 93   | 5.408G         | 94   | 5.690G         | 95   | 5.306G         | 96   | 5.359G         |
| 97   | 5.427G         | 98   | 5.342G         | 99   | 5.356G         | 100  | 5.462G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.600G         | 2    | 5.680G         | 3    | 5.444G         | 4    | 5.459G         |
| 5    | 5.718G         | 6    | 5.298G         | 7    | 5.441G         | 8    | 5.605G         |
| 9    | 5.622G         | 10   | 5.505G         | 11   | 5.286G         | 12   | 5.634G         |
| 13   | 5.683G         | 14   | 5.583G         | 15   | 5.428G         | 16   | 5.667G         |
| 17   | 5.570G         | 18   | 5.549G         | 19   | 5.553G         | 20   | 5.353G         |
| 21   | 5.602G         | 22   | 5.544G         | 23   | 5.377G         | 24   | 5.341G         |
| 25   | 5.677G         | 26   | 5.713G         | 27   | 5.629G         | 28   | 5.321G         |
| 29   | 5.483G         | 30   | 5.363G         | 31   | 5.636G         | 32   | 5.504G         |
| 33   | 5.595G         | 34   | 5.384G         | 35   | 5.474G         | 36   | 5.625G         |
| 37   | 5.269G         | 38   | 5.624G         | 39   | 5.665G         | 40   | 5.375G         |
| 41   | 5.712G         | 42   | 5.345G         | 43   | 5.418G         | 44   | 5.457G         |
| 45   | 5.311G         | 46   | 5.656G         | 47   | 5.507G         | 48   | 5.429G         |
| 49   | 5.440G         | 50   | 5.320G         | 51   | 5.540G         | 52   | 5.477G         |
| 53   | 5.411G         | 54   | 5.561G         | 55   | 5.352G         | 56   | 5.317G         |
| 57   | 5.497G         | 58   | 5.423G         | 59   | 5.576G         | 60   | 5.367G         |
| 61   | 5.509G         | 62   | 5.472G         | 63   | 5.641G         | 64   | 5.597G         |
| 65   | 5.559G         | 66   | 5.585G         | 67   | 5.626G         | 68   | 5.336G         |
| 69   | 5.271G         | 70   | 5.313G         | 71   | 5.420G         | 72   | 5.448G         |
| 73   | 5.443G         | 74   | 5.381G         | 75   | 5.647G         | 76   | 5.431G         |
| 77   | 5.370G         | 78   | 5.580G         | 79   | 5.323G         | 80   | 5.548G         |
| 81   | 5.430G         | 82   | 5.596G         | 83   | 5.523G         | 84   | 5.530G         |
| 85   | 5.560G         | 86   | 5.592G         | 87   | 5.314G         | 88   | 5.422G         |
| 89   | 5.607G         | 90   | 5.385G         | 91   | 5.628G         | 92   | 5.421G         |
| 93   | 5.463G         | 94   | 5.437G         | 95   | 5.646G         | 96   | 5.648G         |
| 97   | 5.536G         | 98   | 5.296G         | 99   | 5.312G         | 100  | 5.409G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.290G         | 2    | 5.317G         | 3    | 5.630G         | 4    | 5.724G         |
| 5    | 5.411G         | 6    | 5.700G         | 7    | 5.507G         | 8    | 5.263G         |
| 9    | 5.308G         | 10   | 5.568G         | 11   | 5.400G         | 12   | 5.252G         |
| 13   | 5.499G         | 14   | 5.570G         | 15   | 5.528G         | 16   | 5.461G         |
| 17   | 5.638G         | 18   | 5.399G         | 19   | 5.398G         | 20   | 5.254G         |
| 21   | 5.684G         | 22   | 5.616G         | 23   | 5.659G         | 24   | 5.285G         |
| 25   | 5.640G         | 26   | 5.647G         | 27   | 5.357G         | 28   | 5.279G         |
| 29   | 5.324G         | 30   | 5.323G         | 31   | 5.327G         | 32   | 5.626G         |
| 33   | 5.722G         | 34   | 5.345G         | 35   | 5.302G         | 36   | 5.483G         |
| 37   | 5.702G         | 38   | 5.384G         | 39   | 5.305G         | 40   | 5.651G         |
| 41   | 5.498G         | 42   | 5.693G         | 43   | 5.255G         | 44   | 5.564G         |
| 45   | 5.299G         | 46   | 5.482G         | 47   | 5.446G         | 48   | 5.704G         |
| 49   | 5.459G         | 50   | 5.582G         | 51   | 5.288G         | 52   | 5.720G         |
| 53   | 5.335G         | 54   | 5.286G         | 55   | 5.541G         | 56   | 5.457G         |
| 57   | 5.272G         | 58   | 5.365G         | 59   | 5.529G         | 60   | 5.618G         |
| 61   | 5.441G         | 62   | 5.581G         | 63   | 5.386G         | 64   | 5.650G         |
| 65   | 5.580G         | 66   | 5.612G         | 67   | 5.601G         | 68   | 5.557G         |
| 69   | 5.486G         | 70   | 5.608G         | 71   | 5.511G         | 72   | 5.664G         |
| 73   | 5.675G         | 74   | 5.525G         | 75   | 5.567G         | 76   | 5.678G         |
| 77   | 5.586G         | 78   | 5.336G         | 79   | 5.291G         | 80   | 5.387G         |
| 81   | 5.625G         | 82   | 5.356G         | 83   | 5.412G         | 84   | 5.706G         |
| 85   | 5.591G         | 86   | 5.688G         | 87   | 5.374G         | 88   | 5.401G         |
| 89   | 5.510G         | 90   | 5.624G         | 91   | 5.321G         | 92   | 5.339G         |
| 93   | 5.466G         | 94   | 5.475G         | 95   | 5.655G         | 96   | 5.328G         |
| 97   | 5.513G         | 98   | 5.686G         | 99   | 5.352G         | 100  | 5.261G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.367G         | 2    | 5.276G         | 3    | 5.659G         | 4    | 5.686G         |
| 5    | 5.388G         | 6    | 5.552G         | 7    | 5.452G         | 8    | 5.285G         |
| 9    | 5.475G         | 10   | 5.441G         | 11   | 5.514G         | 12   | 5.266G         |
| 13   | 5.432G         | 14   | 5.462G         | 15   | 5.545G         | 16   | 5.348G         |
| 17   | 5.442G         | 18   | 5.489G         | 19   | 5.271G         | 20   | 5.277G         |
| 21   | 5.542G         | 22   | 5.594G         | 23   | 5.411G         | 24   | 5.517G         |
| 25   | 5.613G         | 26   | 5.275G         | 27   | 5.426G         | 28   | 5.661G         |
| 29   | 5.286G         | 30   | 5.595G         | 31   | 5.645G         | 32   | 5.688G         |
| 33   | 5.357G         | 34   | 5.690G         | 35   | 5.543G         | 36   | 5.364G         |
| 37   | 5.497G         | 38   | 5.393G         | 39   | 5.435G         | 40   | 5.345G         |
| 41   | 5.482G         | 42   | 5.344G         | 43   | 5.570G         | 44   | 5.593G         |
| 45   | 5.715G         | 46   | 5.602G         | 47   | 5.548G         | 48   | 5.451G         |
| 49   | 5.633G         | 50   | 5.471G         | 51   | 5.605G         | 52   | 5.324G         |
| 53   | 5.550G         | 54   | 5.526G         | 55   | 5.445G         | 56   | 5.651G         |
| 57   | 5.289G         | 58   | 5.582G         | 59   | 5.535G         | 60   | 5.251G         |
| 61   | 5.549G         | 62   | 5.362G         | 63   | 5.527G         | 64   | 5.294G         |
| 65   | 5.539G         | 66   | 5.423G         | 67   | 5.268G         | 68   | 5.400G         |
| 69   | 5.368G         | 70   | 5.684G         | 71   | 5.553G         | 72   | 5.703G         |
| 73   | 5.460G         | 74   | 5.436G         | 75   | 5.448G         | 76   | 5.309G         |
| 77   | 5.290G         | 78   | 5.260G         | 79   | 5.444G         | 80   | 5.588G         |
| 81   | 5.530G         | 82   | 5.682G         | 83   | 5.418G         | 84   | 5.560G         |
| 85   | 5.320G         | 86   | 5.486G         | 87   | 5.404G         | 88   | 5.428G         |
| 89   | 5.663G         | 90   | 5.401G         | 91   | 5.580G         | 92   | 5.484G         |
| 93   | 5.495G         | 94   | 5.319G         | 95   | 5.267G         | 96   | 5.618G         |
| 97   | 5.431G         | 98   | 5.327G         | 99   | 5.252G         | 100  | 5.547G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.280G         | 2    | 5.283G         | 3    | 5.409G         | 4    | 5.651G         |
| 5    | 5.340G         | 6    | 5.620G         | 7    | 5.366G         | 8    | 5.353G         |
| 9    | 5.501G         | 10   | 5.456G         | 11   | 5.573G         | 12   | 5.583G         |
| 13   | 5.375G         | 14   | 5.630G         | 15   | 5.291G         | 16   | 5.333G         |
| 17   | 5.477G         | 18   | 5.453G         | 19   | 5.513G         | 20   | 5.510G         |
| 21   | 5.445G         | 22   | 5.407G         | 23   | 5.401G         | 24   | 5.671G         |
| 25   | 5.523G         | 26   | 5.428G         | 27   | 5.655G         | 28   | 5.603G         |
| 29   | 5.650G         | 30   | 5.270G         | 31   | 5.348G         | 32   | 5.367G         |
| 33   | 5.564G         | 34   | 5.673G         | 35   | 5.362G         | 36   | 5.378G         |
| 37   | 5.528G         | 38   | 5.334G         | 39   | 5.365G         | 40   | 5.568G         |
| 41   | 5.341G         | 42   | 5.636G         | 43   | 5.411G         | 44   | 5.549G         |
| 45   | 5.394G         | 46   | 5.271G         | 47   | 5.420G         | 48   | 5.724G         |
| 49   | 5.467G         | 50   | 5.423G         | 51   | 5.427G         | 52   | 5.580G         |
| 53   | 5.611G         | 54   | 5.313G         | 55   | 5.584G         | 56   | 5.553G         |
| 57   | 5.396G         | 58   | 5.688G         | 59   | 5.516G         | 60   | 5.433G         |
| 61   | 5.487G         | 62   | 5.308G         | 63   | 5.296G         | 64   | 5.338G         |
| 65   | 5.666G         | 66   | 5.464G         | 67   | 5.389G         | 68   | 5.421G         |
| 69   | 5.721G         | 70   | 5.605G         | 71   | 5.555G         | 72   | 5.447G         |
| 73   | 5.455G         | 74   | 5.567G         | 75   | 5.585G         | 76   | 5.656G         |
| 77   | 5.469G         | 78   | 5.640G         | 79   | 5.629G         | 80   | 5.424G         |
| 81   | 5.481G         | 82   | 5.329G         | 83   | 5.342G         | 84   | 5.610G         |
| 85   | 5.710G         | 86   | 5.489G         | 87   | 5.343G         | 88   | 5.442G         |
| 89   | 5.692G         | 90   | 5.292G         | 91   | 5.702G         | 92   | 5.601G         |
| 93   | 5.491G         | 94   | 5.626G         | 95   | 5.644G         | 96   | 5.641G         |
| 97   | 5.406G         | 98   | 5.450G         | 99   | 5.569G         | 100  | 5.690G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.615G         | 2    | 5.657G         | 3    | 5.676G         | 4    | 5.592G         |
| 5    | 5.327G         | 6    | 5.300G         | 7    | 5.337G         | 8    | 5.680G         |
| 9    | 5.448G         | 10   | 5.690G         | 11   | 5.417G         | 12   | 5.567G         |
| 13   | 5.604G         | 14   | 5.694G         | 15   | 5.516G         | 16   | 5.503G         |
| 17   | 5.312G         | 18   | 5.598G         | 19   | 5.696G         | 20   | 5.383G         |
| 21   | 5.718G         | 22   | 5.475G         | 23   | 5.603G         | 24   | 5.464G         |
| 25   | 5.425G         | 26   | 5.677G         | 27   | 5.320G         | 28   | 5.367G         |
| 29   | 5.313G         | 30   | 5.436G         | 31   | 5.463G         | 32   | 5.699G         |
| 33   | 5.565G         | 34   | 5.371G         | 35   | 5.411G         | 36   | 5.659G         |
| 37   | 5.661G         | 38   | 5.649G         | 39   | 5.391G         | 40   | 5.589G         |
| 41   | 5.452G         | 42   | 5.410G         | 43   | 5.484G         | 44   | 5.302G         |
| 45   | 5.692G         | 46   | 5.270G         | 47   | 5.386G         | 48   | 5.279G         |
| 49   | 5.601G         | 50   | 5.513G         | 51   | 5.602G         | 52   | 5.673G         |
| 53   | 5.501G         | 54   | 5.557G         | 55   | 5.494G         | 56   | 5.254G         |
| 57   | 5.571G         | 58   | 5.264G         | 59   | 5.573G         | 60   | 5.440G         |
| 61   | 5.281G         | 62   | 5.423G         | 63   | 5.358G         | 64   | 5.500G         |
| 65   | 5.701G         | 66   | 5.525G         | 67   | 5.446G         | 68   | 5.369G         |
| 69   | 5.499G         | 70   | 5.582G         | 71   | 5.717G         | 72   | 5.664G         |
| 73   | 5.515G         | 74   | 5.514G         | 75   | 5.461G         | 76   | 5.631G         |
| 77   | 5.719G         | 78   | 5.606G         | 79   | 5.483G         | 80   | 5.449G         |
| 81   | 5.458G         | 82   | 5.447G         | 83   | 5.616G         | 84   | 5.482G         |
| 85   | 5.453G         | 86   | 5.263G         | 87   | 5.542G         | 88   | 5.399G         |
| 89   | 5.469G         | 90   | 5.275G         | 91   | 5.295G         | 92   | 5.291G         |
| 93   | 5.416G         | 94   | 5.444G         | 95   | 5.599G         | 96   | 5.522G         |
| 97   | 5.640G         | 98   | 5.632G         | 99   | 5.472G         | 100  | 5.583G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.339G         | 2    | 5.672G         | 3    | 5.594G         | 4    | 5.694G         |
| 5    | 5.660G         | 6    | 5.647G         | 7    | 5.656G         | 8    | 5.705G         |
| 9    | 5.551G         | 10   | 5.542G         | 11   | 5.295G         | 12   | 5.316G         |
| 13   | 5.454G         | 14   | 5.592G         | 15   | 5.582G         | 16   | 5.303G         |
| 17   | 5.465G         | 18   | 5.417G         | 19   | 5.512G         | 20   | 5.710G         |
| 21   | 5.289G         | 22   | 5.286G         | 23   | 5.277G         | 24   | 5.440G         |
| 25   | 5.584G         | 26   | 5.518G         | 27   | 5.505G         | 28   | 5.597G         |
| 29   | 5.326G         | 30   | 5.371G         | 31   | 5.374G         | 32   | 5.639G         |
| 33   | 5.355G         | 34   | 5.609G         | 35   | 5.618G         | 36   | 5.463G         |
| 37   | 5.425G         | 38   | 5.404G         | 39   | 5.711G         | 40   | 5.506G         |
| 41   | 5.394G         | 42   | 5.431G         | 43   | 5.703G         | 44   | 5.489G         |
| 45   | 5.596G         | 46   | 5.575G         | 47   | 5.515G         | 48   | 5.655G         |
| 49   | 5.652G         | 50   | 5.494G         | 51   | 5.358G         | 52   | 5.648G         |
| 53   | 5.376G         | 54   | 5.457G         | 55   | 5.279G         | 56   | 5.707G         |
| 57   | 5.412G         | 58   | 5.396G         | 59   | 5.319G         | 60   | 5.430G         |
| 61   | 5.363G         | 62   | 5.379G         | 63   | 5.544G         | 64   | 5.364G         |
| 65   | 5.499G         | 66   | 5.622G         | 67   | 5.476G         | 68   | 5.536G         |
| 69   | 5.487G         | 70   | 5.587G         | 71   | 5.452G         | 72   | 5.418G         |
| 73   | 5.333G         | 74   | 5.321G         | 75   | 5.528G         | 76   | 5.574G         |
| 77   | 5.619G         | 78   | 5.386G         | 79   | 5.633G         | 80   | 5.467G         |
| 81   | 5.600G         | 82   | 5.500G         | 83   | 5.504G         | 84   | 5.265G         |
| 85   | 5.625G         | 86   | 5.359G         | 87   | 5.485G         | 88   | 5.372G         |
| 89   | 5.569G         | 90   | 5.456G         | 91   | 5.573G         | 92   | 5.581G         |
| 93   | 5.281G         | 94   | 5.314G         | 95   | 5.721G         | 96   | 5.650G         |
| 97   | 5.713G         | 98   | 5.275G         | 99   | 5.686G         | 100  | 5.708G         |

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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.452G         | 2    | 5.650G         | 3    | 5.373G         | 4    | 5.568G         |
| 5    | 5.602G         | 6    | 5.448G         | 7    | 5.593G         | 8    | 5.367G         |
| 9    | 5.529G         | 10   | 5.515G         | 11   | 5.598G         | 12   | 5.338G         |
| 13   | 5.380G         | 14   | 5.524G         | 15   | 5.371G         | 16   | 5.401G         |
| 17   | 5.522G         | 18   | 5.411G         | 19   | 5.715G         | 20   | 5.590G         |
| 21   | 5.300G         | 22   | 5.691G         | 23   | 5.433G         | 24   | 5.430G         |
| 25   | 5.670G         | 26   | 5.318G         | 27   | 5.319G         | 28   | 5.333G         |
| 29   | 5.260G         | 30   | 5.425G         | 31   | 5.530G         | 32   | 5.708G         |
| 33   | 5.722G         | 34   | 5.712G         | 35   | 5.501G         | 36   | 5.654G         |
| 37   | 5.485G         | 38   | 5.424G         | 39   | 5.638G         | 40   | 5.445G         |
| 41   | 5.564G         | 42   | 5.439G         | 43   | 5.376G         | 44   | 5.442G         |
| 45   | 5.619G         | 46   | 5.552G         | 47   | 5.347G         | 48   | 5.408G         |
| 49   | 5.316G         | 50   | 5.643G         | 51   | 5.269G         | 52   | 5.484G         |
| 53   | 5.687G         | 54   | 5.419G         | 55   | 5.573G         | 56   | 5.473G         |
| 57   | 5.327G         | 58   | 5.293G         | 59   | 5.611G         | 60   | 5.475G         |
| 61   | 5.537G         | 62   | 5.583G         | 63   | 5.444G         | 64   | 5.661G         |
| 65   | 5.551G         | 66   | 5.255G         | 67   | 5.364G         | 68   | 5.349G         |
| 69   | 5.574G         | 70   | 5.588G         | 71   | 5.680G         | 72   | 5.497G         |
| 73   | 5.585G         | 74   | 5.534G         | 75   | 5.365G         | 76   | 5.721G         |
| 77   | 5.469G         | 78   | 5.488G         | 79   | 5.406G         | 80   | 5.348G         |
| 81   | 5.504G         | 82   | 5.671G         | 83   | 5.651G         | 84   | 5.375G         |
| 85   | 5.286G         | 86   | 5.507G         | 87   | 5.414G         | 88   | 5.519G         |
| 89   | 5.684G         | 90   | 5.438G         | 91   | 5.520G         | 92   | 5.265G         |
| 93   | 5.404G         | 94   | 5.711G         | 95   | 5.586G         | 96   | 5.657G         |
| 97   | 5.302G         | 98   | 5.575G         | 99   | 5.490G         | 100  | 5.464G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.434G         | 2    | 5.680G         | 3    | 5.335G         | 4    | 5.560G         |
| 5    | 5.369G         | 6    | 5.305G         | 7    | 5.710G         | 8    | 5.275G         |
| 9    | 5.315G         | 10   | 5.475G         | 11   | 5.269G         | 12   | 5.460G         |
| 13   | 5.533G         | 14   | 5.627G         | 15   | 5.702G         | 16   | 5.661G         |
| 17   | 5.707G         | 18   | 5.356G         | 19   | 5.687G         | 20   | 5.328G         |
| 21   | 5.656G         | 22   | 5.563G         | 23   | 5.581G         | 24   | 5.361G         |
| 25   | 5.694G         | 26   | 5.468G         | 27   | 5.456G         | 28   | 5.304G         |
| 29   | 5.499G         | 30   | 5.255G         | 31   | 5.391G         | 32   | 5.647G         |
| 33   | 5.320G         | 34   | 5.653G         | 35   | 5.298G         | 36   | 5.536G         |
| 37   | 5.665G         | 38   | 5.268G         | 39   | 5.623G         | 40   | 5.721G         |
| 41   | 5.620G         | 42   | 5.611G         | 43   | 5.313G         | 44   | 5.570G         |
| 45   | 5.545G         | 46   | 5.716G         | 47   | 5.524G         | 48   | 5.628G         |
| 49   | 5.698G         | 50   | 5.558G         | 51   | 5.278G         | 52   | 5.723G         |
| 53   | 5.420G         | 54   | 5.359G         | 55   | 5.722G         | 56   | 5.492G         |
| 57   | 5.446G         | 58   | 5.354G         | 59   | 5.474G         | 60   | 5.638G         |
| 61   | 5.720G         | 62   | 5.618G         | 63   | 5.582G         | 64   | 5.326G         |
| 65   | 5.398G         | 66   | 5.410G         | 67   | 5.634G         | 68   | 5.344G         |
| 69   | 5.697G         | 70   | 5.253G         | 71   | 5.519G         | 72   | 5.424G         |
| 73   | 5.594G         | 74   | 5.286G         | 75   | 5.599G         | 76   | 5.264G         |
| 77   | 5.718G         | 78   | 5.576G         | 79   | 5.682G         | 80   | 5.432G         |
| 81   | 5.584G         | 82   | 5.462G         | 83   | 5.525G         | 84   | 5.336G         |
| 85   | 5.577G         | 86   | 5.459G         | 87   | 5.714G         | 88   | 5.449G         |
| 89   | 5.483G         | 90   | 5.490G         | 91   | 5.347G         | 92   | 5.277G         |
| 93   | 5.478G         | 94   | 5.292G         | 95   | 5.274G         | 96   | 5.377G         |
| 97   | 5.617G         | 98   | 5.367G         | 99   | 5.472G         | 100  | 5.337G         |

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

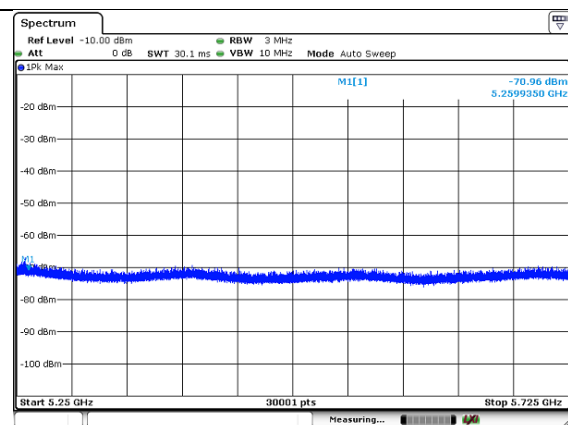
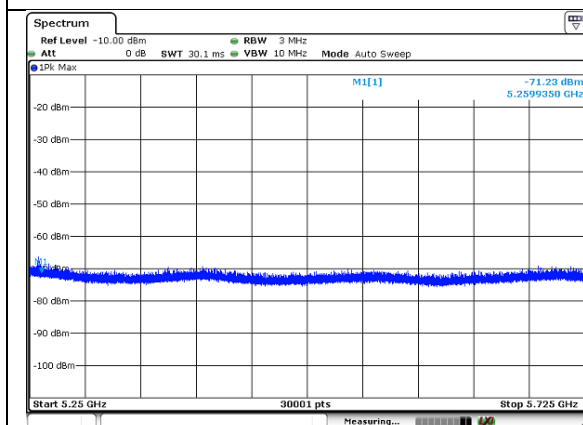
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.410G         | 2    | 5.585G         | 3    | 5.609G         | 4    | 5.523G         |
| 5    | 5.304G         | 6    | 5.466G         | 7    | 5.262G         | 8    | 5.617G         |
| 9    | 5.311G         | 10   | 5.677G         | 11   | 5.590G         | 12   | 5.283G         |
| 13   | 5.305G         | 14   | 5.601G         | 15   | 5.404G         | 16   | 5.690G         |
| 17   | 5.302G         | 18   | 5.655G         | 19   | 5.668G         | 20   | 5.389G         |
| 21   | 5.412G         | 22   | 5.709G         | 23   | 5.286G         | 24   | 5.631G         |
| 25   | 5.626G         | 26   | 5.487G         | 27   | 5.257G         | 28   | 5.491G         |
| 29   | 5.328G         | 30   | 5.345G         | 31   | 5.651G         | 32   | 5.275G         |
| 33   | 5.605G         | 34   | 5.430G         | 35   | 5.588G         | 36   | 5.705G         |
| 37   | 5.289G         | 38   | 5.694G         | 39   | 5.365G         | 40   | 5.307G         |
| 41   | 5.673G         | 42   | 5.288G         | 43   | 5.458G         | 44   | 5.363G         |
| 45   | 5.573G         | 46   | 5.424G         | 47   | 5.654G         | 48   | 5.354G         |
| 49   | 5.548G         | 50   | 5.696G         | 51   | 5.440G         | 52   | 5.701G         |
| 53   | 5.629G         | 54   | 5.390G         | 55   | 5.334G         | 56   | 5.507G         |
| 57   | 5.434G         | 58   | 5.724G         | 59   | 5.485G         | 60   | 5.444G         |
| 61   | 5.527G         | 62   | 5.428G         | 63   | 5.360G         | 64   | 5.377G         |
| 65   | 5.542G         | 66   | 5.641G         | 67   | 5.423G         | 68   | 5.446G         |
| 69   | 5.483G         | 70   | 5.478G         | 71   | 5.537G         | 72   | 5.293G         |
| 73   | 5.612G         | 74   | 5.476G         | 75   | 5.445G         | 76   | 5.702G         |
| 77   | 5.596G         | 78   | 5.388G         | 79   | 5.544G         | 80   | 5.499G         |
| 81   | 5.621G         | 82   | 5.353G         | 83   | 5.402G         | 84   | 5.603G         |
| 85   | 5.650G         | 86   | 5.469G         | 87   | 5.327G         | 88   | 5.313G         |
| 89   | 5.721G         | 90   | 5.432G         | 91   | 5.646G         | 92   | 5.680G         |
| 93   | 5.640G         | 94   | 5.295G         | 95   | 5.606G         | 96   | 5.604G         |
| 97   | 5.539G         | 98   | 5.325G         | 99   | 5.468G         | 100  | 5.484G         |

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

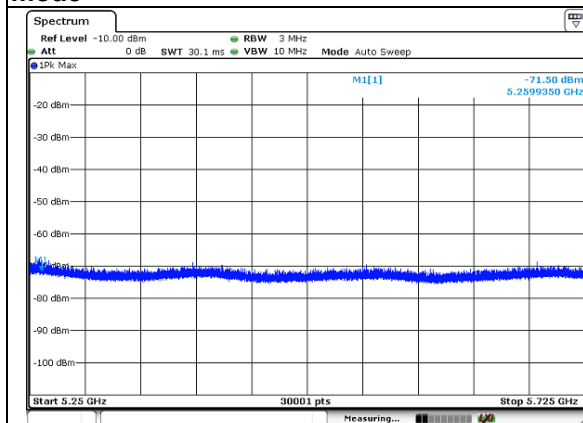
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.631G         | 2    | 5.628G         | 3    | 5.645G         | 4    | 5.347G         |
| 5    | 5.591G         | 6    | 5.427G         | 7    | 5.333G         | 8    | 5.692G         |
| 9    | 5.441G         | 10   | 5.504G         | 11   | 5.600G         | 12   | 5.551G         |
| 13   | 5.271G         | 14   | 5.647G         | 15   | 5.646G         | 16   | 5.406G         |
| 17   | 5.613G         | 18   | 5.291G         | 19   | 5.362G         | 20   | 5.394G         |
| 21   | 5.470G         | 22   | 5.458G         | 23   | 5.546G         | 24   | 5.563G         |
| 25   | 5.318G         | 26   | 5.397G         | 27   | 5.260G         | 28   | 5.636G         |
| 29   | 5.576G         | 30   | 5.430G         | 31   | 5.391G         | 32   | 5.460G         |
| 33   | 5.361G         | 34   | 5.708G         | 35   | 5.698G         | 36   | 5.544G         |
| 37   | 5.258G         | 38   | 5.474G         | 39   | 5.703G         | 40   | 5.416G         |
| 41   | 5.657G         | 42   | 5.328G         | 43   | 5.277G         | 44   | 5.617G         |
| 45   | 5.449G         | 46   | 5.489G         | 47   | 5.575G         | 48   | 5.268G         |
| 49   | 5.294G         | 50   | 5.723G         | 51   | 5.644G         | 52   | 5.590G         |
| 53   | 5.256G         | 54   | 5.721G         | 55   | 5.261G         | 56   | 5.259G         |
| 57   | 5.514G         | 58   | 5.476G         | 59   | 5.345G         | 60   | 5.459G         |
| 61   | 5.462G         | 62   | 5.266G         | 63   | 5.407G         | 64   | 5.488G         |
| 65   | 5.286G         | 66   | 5.371G         | 67   | 5.571G         | 68   | 5.556G         |
| 69   | 5.588G         | 70   | 5.654G         | 71   | 5.678G         | 72   | 5.354G         |
| 73   | 5.472G         | 74   | 5.526G         | 75   | 5.487G         | 76   | 5.468G         |
| 77   | 5.508G         | 78   | 5.388G         | 79   | 5.446G         | 80   | 5.520G         |
| 81   | 5.418G         | 82   | 5.390G         | 83   | 5.550G         | 84   | 5.482G         |
| 85   | 5.337G         | 86   | 5.404G         | 87   | 5.664G         | 88   | 5.465G         |
| 89   | 5.598G         | 90   | 5.257G         | 91   | 5.392G         | 92   | 5.516G         |
| 93   | 5.448G         | 94   | 5.327G         | 95   | 5.614G         | 96   | 5.594G         |
| 97   | 5.633G         | 98   | 5.637G         | 99   | 5.715G         | 100  | 5.329G         |

## NON BEACON ON DFS BAND

- 1) Test results demonstrating no any beacon on DFS band after power up.
- 2) Observation time is 10min after power up.



**Client (UUT) no transmit on 802.11ac (VHT20) mode**



**Client (UUT) no transmit on 802.11ac (VHT40) mode**

**Client (UUT) no transmit on 802.11ac (VHT80) mode**

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