

## DFS Test Report

**Report No.:** RF190618D07B-2

**FCC ID:** TK4WLE900VX

**Test Model:** WLE900VX

**Received Date:** Nov. 15, 2019

**Test Date:** Nov. 15 to 25, 2019

**Issued Date:** Dec. 17, 2019

**Applicant:** Compex Systems Pte Ltd

**Address:** No 9 Harrison Road, Harrison Industrial Building, #05-01, 369651, Singapore

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

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

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, Taiwan

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



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### Release Control Record

| Issue No.      | Description       | Date Issued   |
|----------------|-------------------|---------------|
| RF190618D07B-2 | Original release. | Dec. 17, 2019 |

## 1 Certificate of Conformity

**Product:** 802.11ac Dual Band Module

**Brand:** COMPEX

**Test Model:** WLE900VX

**Sample Status:** Engineering sample

**Applicant:** Compex Systems Pte Ltd

**Test Date:** Nov. 15 to 25 ,2019

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

**References Test Guidance:** KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

**Prepared by :**



**Date:** Dec. 17, 2019

Celia Chen / Supervisor

**Approved by :**



**Date:** Dec. 17, 2019

Rex Lai / Associate Technical Manager

## 2 EUT Information

### 2.1 Operating Frequency Bands and Mode of EUT

TABLE 1: Operating Frequency Bands And Mode Of EUT

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

### 2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

| No. | Product                   | Model No. | Software/Firmware Version   |
|-----|---------------------------|-----------|-----------------------------|
| 1   | 802.11ac Dual Band Module | WLE900VX  | Software Version: R80.20.01 |

### 2.3 Description of Available Antennas to The EUT

Table 3: Antenna List

| ANT No. | Antenna Type | Operation Frequency Range (MHz) | Max. Gain (dBi) |
|---------|--------------|---------------------------------|-----------------|
| 1       | Dipole       | 5250~5725                       | 4.29            |
| 2       | Dipole       | 5250~5725                       | 4.29            |
| 3       | Dipole       | 5250~5725                       | 4.29            |

Remark: The device didn't support transmit beam-forming mode and Cyclic Delay Diversity (CDD) mode is uncorrected, so no add array gain to the band power.

## 2.4 EUT Maximum and Minimum Conducted Power

Table 4: The Measured Conducted Output Power

### CDD Mode

#### 802.11a

| Frequency Band<br>(MHz) | MAX. Power           |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 21.58                | 143.88              |
| 5470~5725               | 19.85                | 96.605              |

#### 802.11ac (20MHz)

| Frequency Band<br>(MHz) | MAX. Power           |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 22.69                | 185.828             |
| 5470~5725               | 22.63                | 183.277             |

#### 802.11ac (40MHz)

| Frequency Band<br>(MHz) | MAX. Power           |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 22.68                | 185.2               |
| 5470~5725               | 22.63                | 183.277             |

#### 802.11ac (80MHz)

| Frequency Band<br>(MHz) | MAX. Power           |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 16.82                | 48.108              |
| 5470~5725               | 22.35                | 171.686             |

## 2.5 EUT Maximum and Minimum EIRP Power

Table 5: The EIRP Output Power List

### CDD Mode

#### 802.11a

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 25.87                | 386.367             |
| 5470~5725               | 24.14                | 259.418             |

#### 802.11ac (20MHz)

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 26.98                | 498.884             |
| 5470~5725               | 26.92                | 492.040             |

#### 802.11ac (40MHz)

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 26.97                | 497.737             |
| 5470~5725               | 26.92                | 492.040             |

#### 802.11ac (80MHz)

| Frequency Band<br>(MHz) | MAX. EIRP Power      |                     |
|-------------------------|----------------------|---------------------|
|                         | Output<br>Power(dBm) | Output<br>Power(mW) |
| 5250~5350               | 21.11                | 129.122             |
| 5470~5725               | 26.64                | 461.318             |

## 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 498.884mW which is less than 500mW, therefore it's not require TPC function.

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

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

## 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),<br>If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel. |                  |                                |                             |

Table 7: Applicability of DFS Requirements During Normal Operation.

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

| Additional requirements for devices with multiple bandwidth modes | Master or Client with radar detection | Client without radar detection                       |
|-------------------------------------------------------------------|---------------------------------------|------------------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check       | All BW modes must be tested           | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time           | Test using widest BW mode available   | Test using the widest BW mode available for the link |
| All other tests                                                   | Any single BW mode                    | Not required                                         |

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

### 3.2 Test Limits And Radar Signal Parameters

#### Detection Threshold Values

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

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

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: DFS Response Requirement Values

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

## Parameters of DFS Test Signals

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 10: Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                           | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                    | Number of Pulses                                                                                                              | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                                                                                                                                    | 1                  | 1428                                                                                                                                                          | 18                                                                                                                            | See Note 1                                 | See Note 1               |
| 1                                                                                                                                    | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 60%                                        | 30                       |
|                                                                                                                                      |                    | 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                                                                                                                         | 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       | Model No.    | Brand        | Date Of Calibration | Due Date Of Calibration |
|-------------------|--------------|--------------|---------------------|-------------------------|
| Spectrum analyzer | FSV          | R&S          | Mar. 06, 2019       | Mar. 05, 2020           |
| Signal generator  | MXG          | KEYSIGHT     | May 20, 2019        | May 19,2020             |
| Horn antenna      | BBHA 9120 D1 | Schwarzbeck  | Nov. 24, 2019       | Nov. 23, 2020           |
| RF coaxial cable  | SUCOFLEX 104 | HUBER SUHNER | NA                  | NA                      |

Note: Calibrate the RF coaxial cable before each test and use the radiation or conducted method to calibrate the reference FCC KDB 412172 standard.

##### 4.2 Description of Support Units

Table 14: Support Unit Information.

| No. | Product          | Brand   | Model No. | FCC ID      |
|-----|------------------|---------|-----------|-------------|
| 1   | WiFi USB Adapter | NETGEAR | A6210     | PY313400249 |

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

Table 15: Software/Firmware Information.

| No. | Product          | Model No. | Software/Firmware Version |
|-----|------------------|-----------|---------------------------|
| 1   | WiFi USB Adapter | A6210     | 5.1.22.0                  |

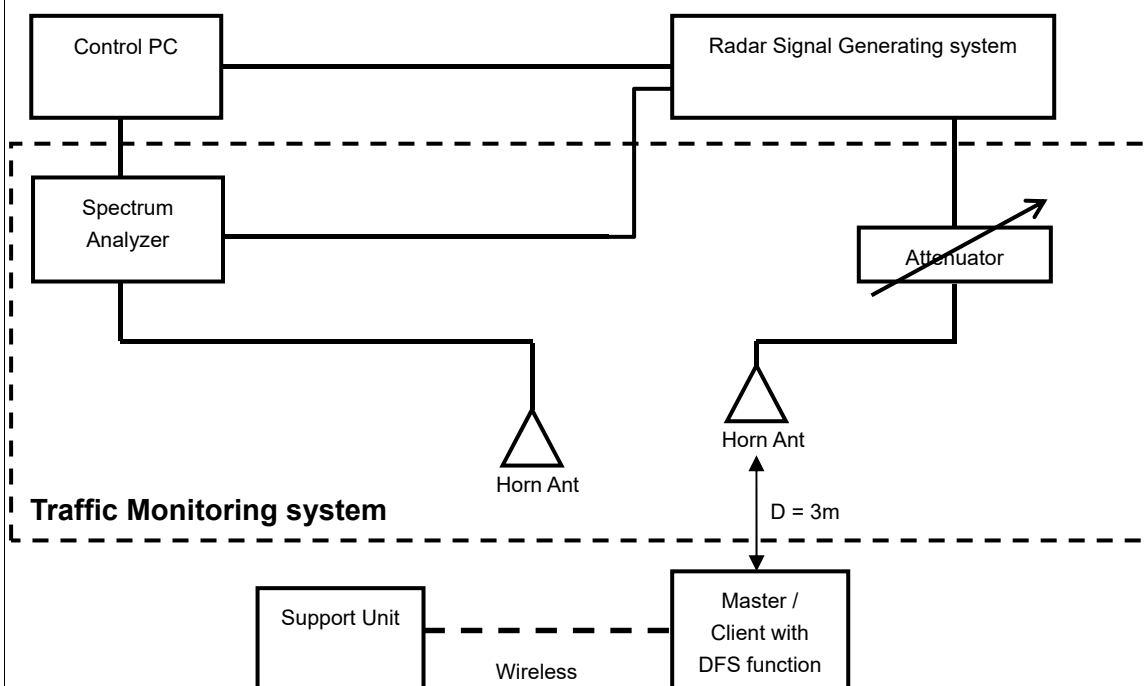
Note: This device No.1 was functioned as a ☐Master ☒Slave device during the DFS test.

## 5. Test Procedure

### 5.1 DFS Measurement System

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

#### Radiated Setup Configuration of DFS Measurement System



#### Channel Loading

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

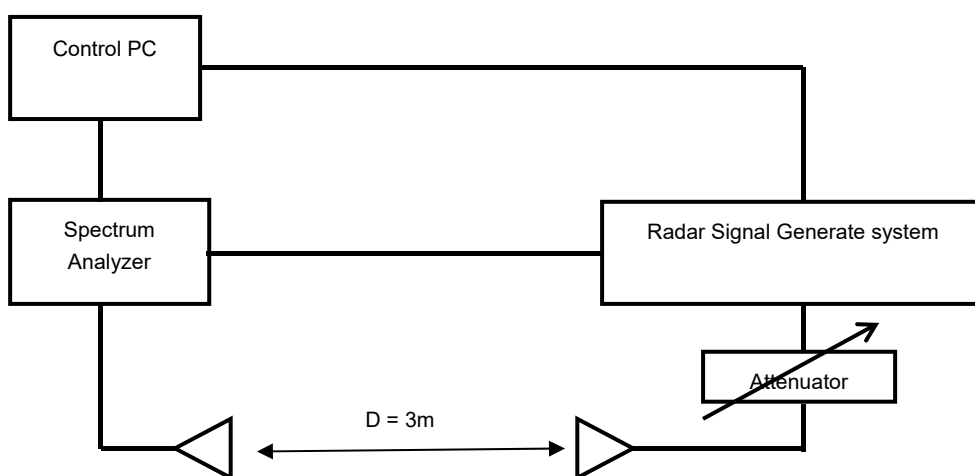
|    |                                                                                                                                                                         |   |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|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

## 5.2 Calibration of DFS Detection Threshold Level

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

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

The radar signal generate system is generating waveform pattern of radar types. The amplitude of the radar signal generator system is adjusted to yield a level of – 64 dBm as measured on the spectrum analyzer. The interference detection threshold level is lower than – 64dBm hence it provides margin to the limit.



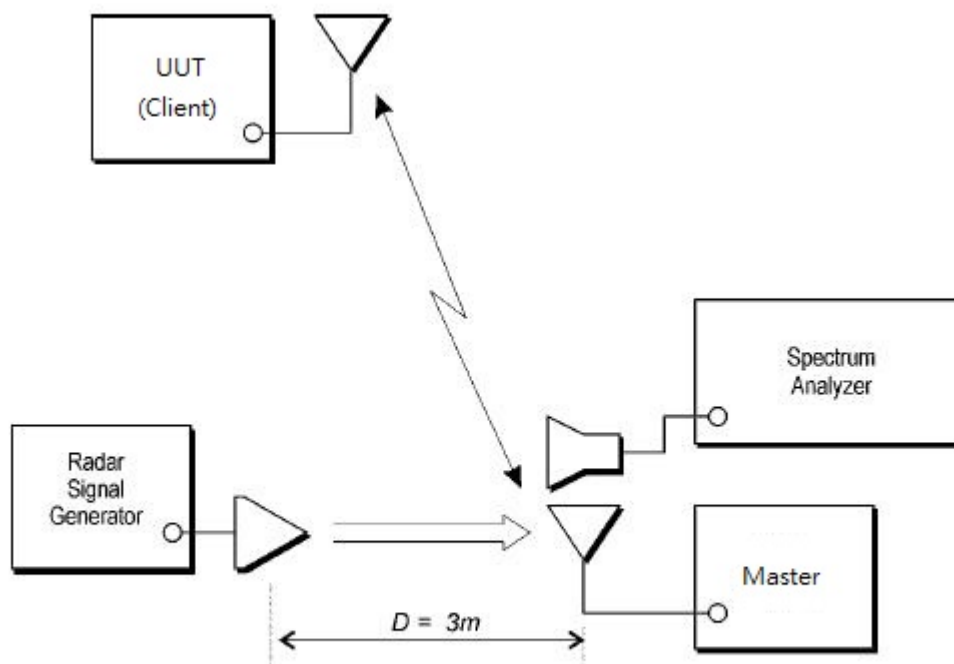
## 5.3 Deviation from Test Standard

No deviation.

## 5.4 Radiated Conducted Test Setup Configuration

### Master mode

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



## 6. Test Results

### 6.1 Summary of Test Results

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

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

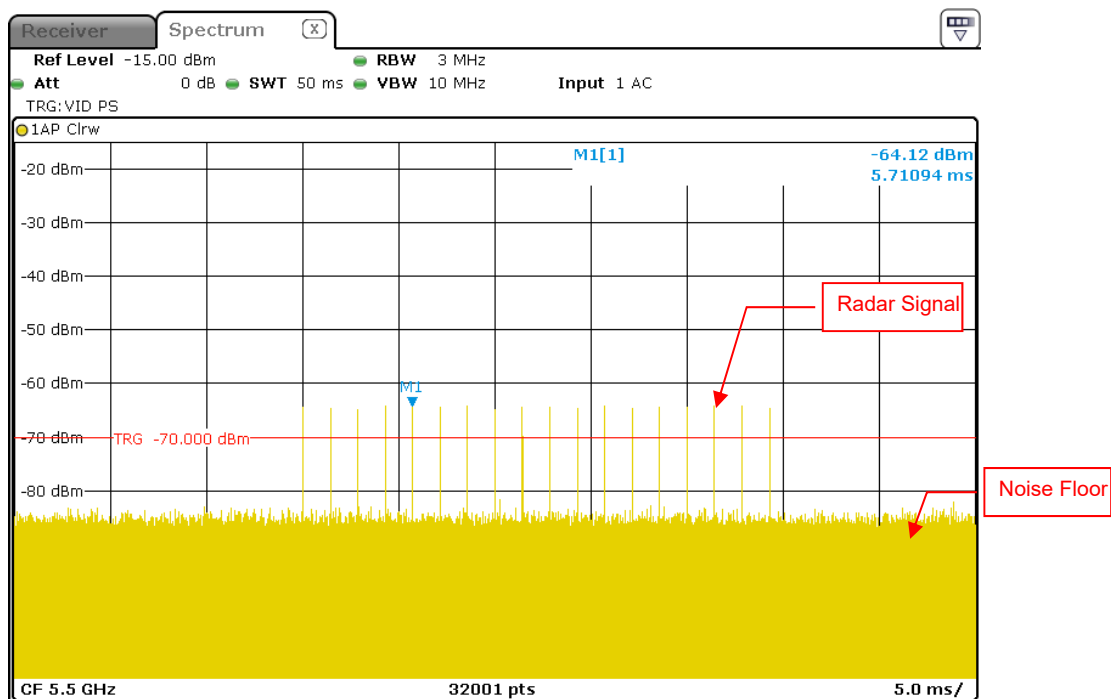
## 6.2 Test Results

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

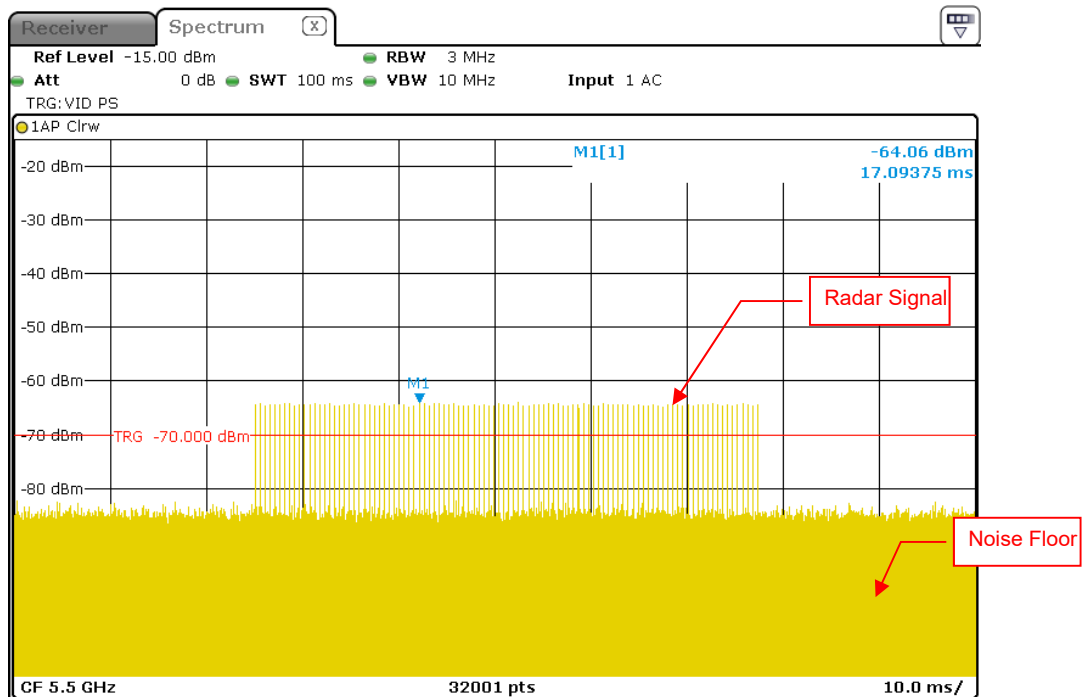
The radar test waveforms are injected into the Master.

#### DFS Detection Threshold

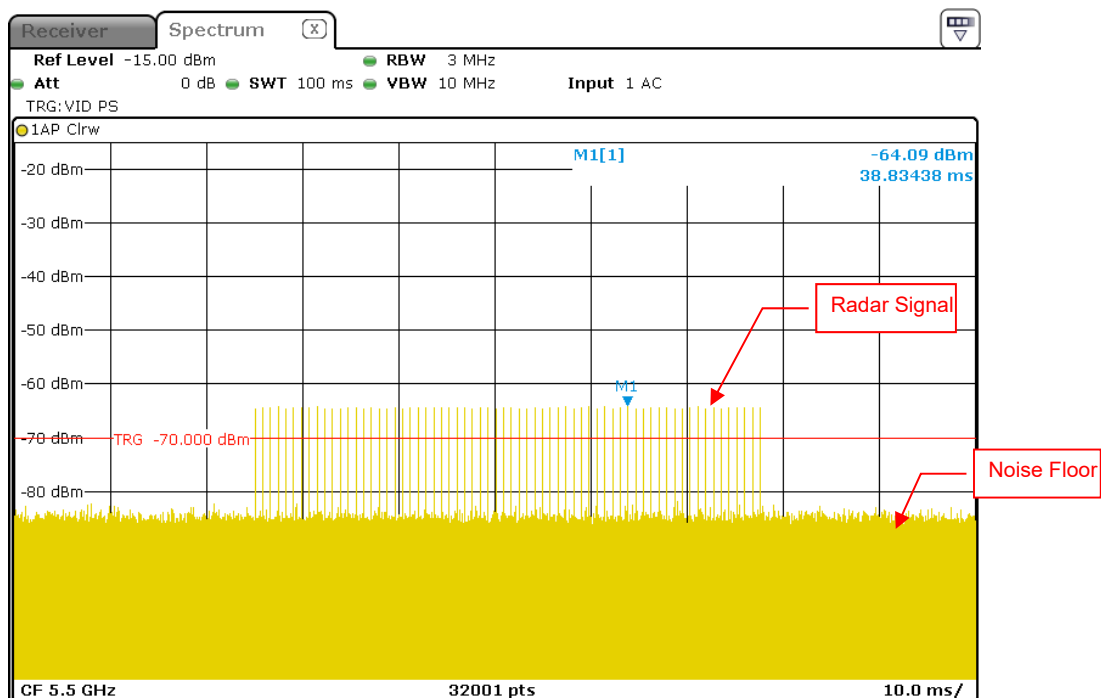
For detection threshold level of -64dBm, the tested level is lower than required level for 1dB, hence it provides margin to the limit.



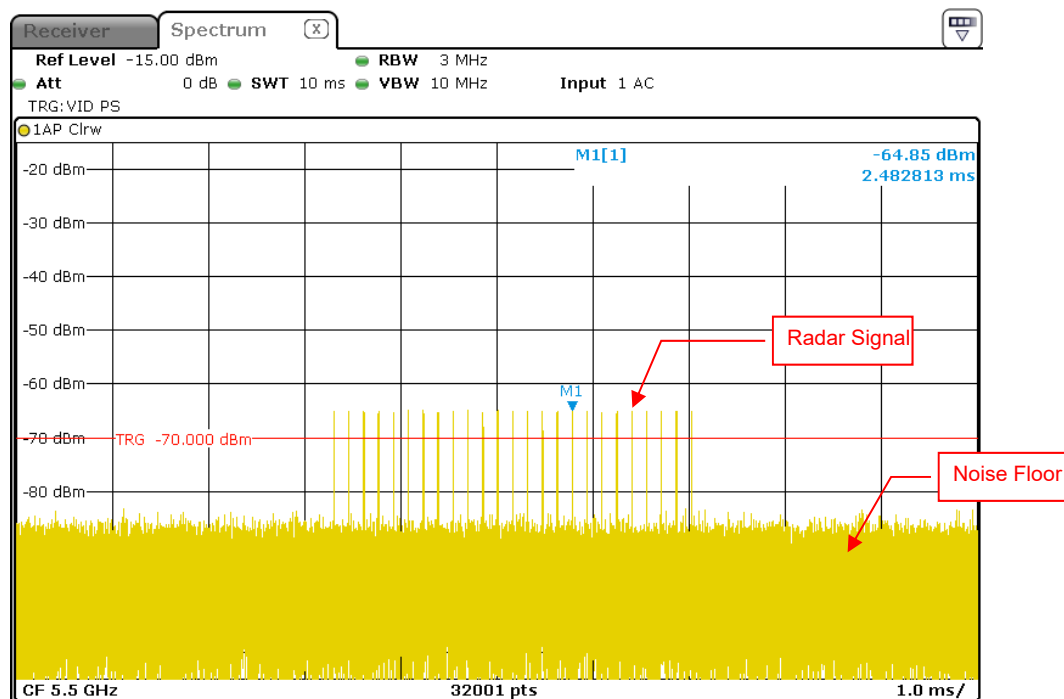
Radar Signal 0



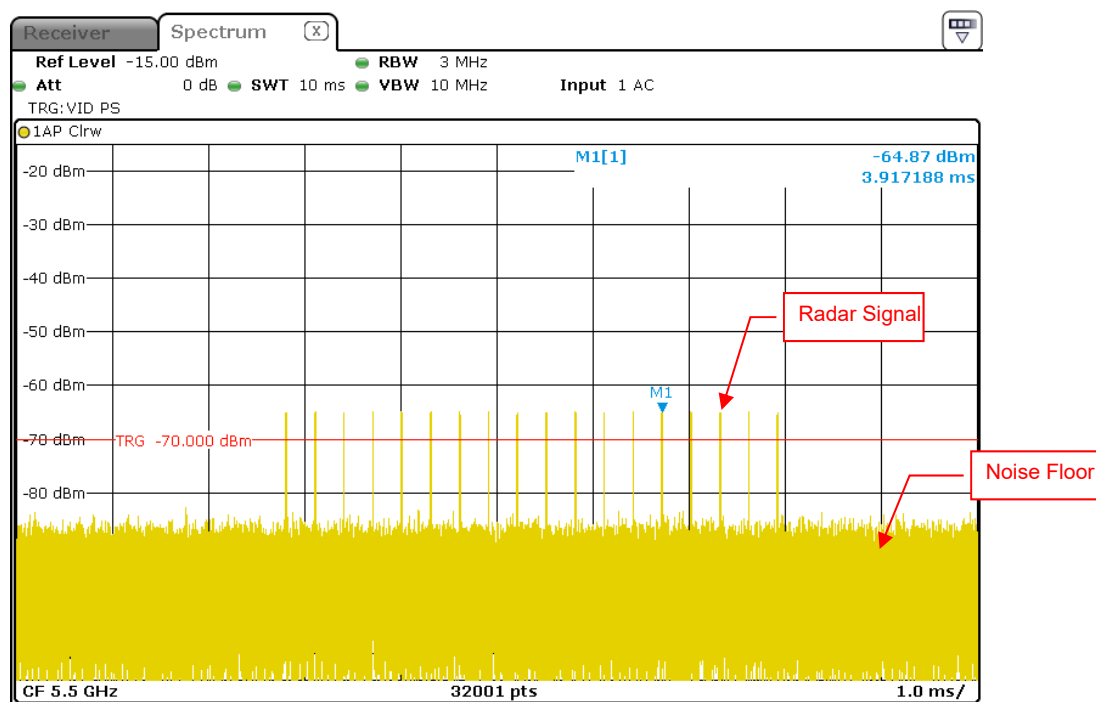
Radar Signal 1 (Test A)



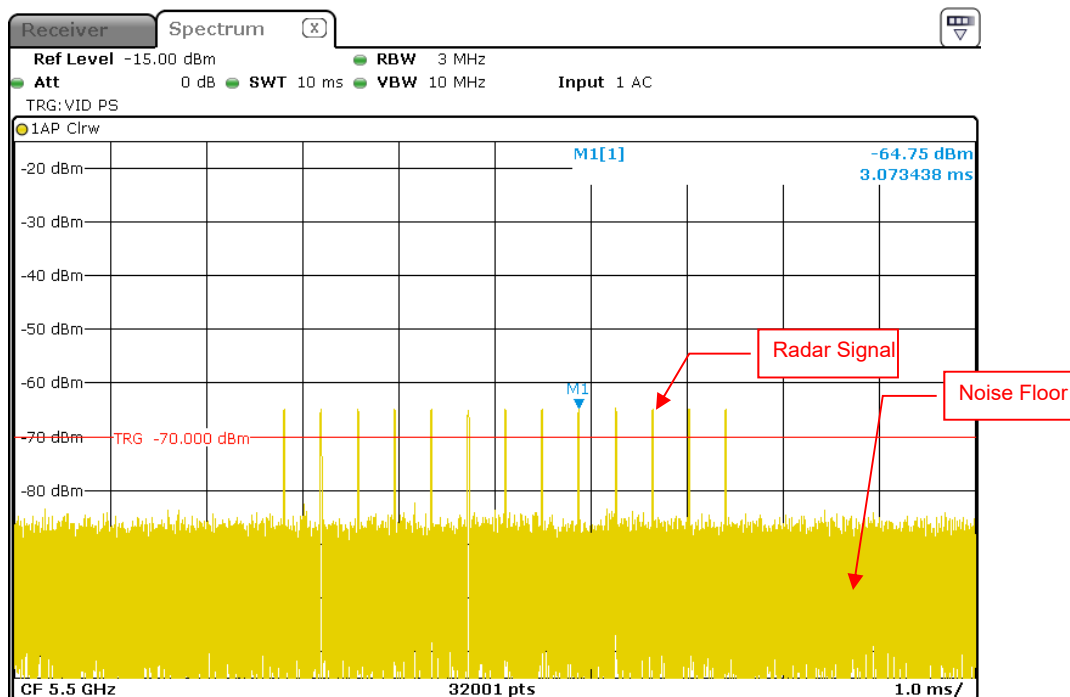
Radar Signal 1 (Test B)



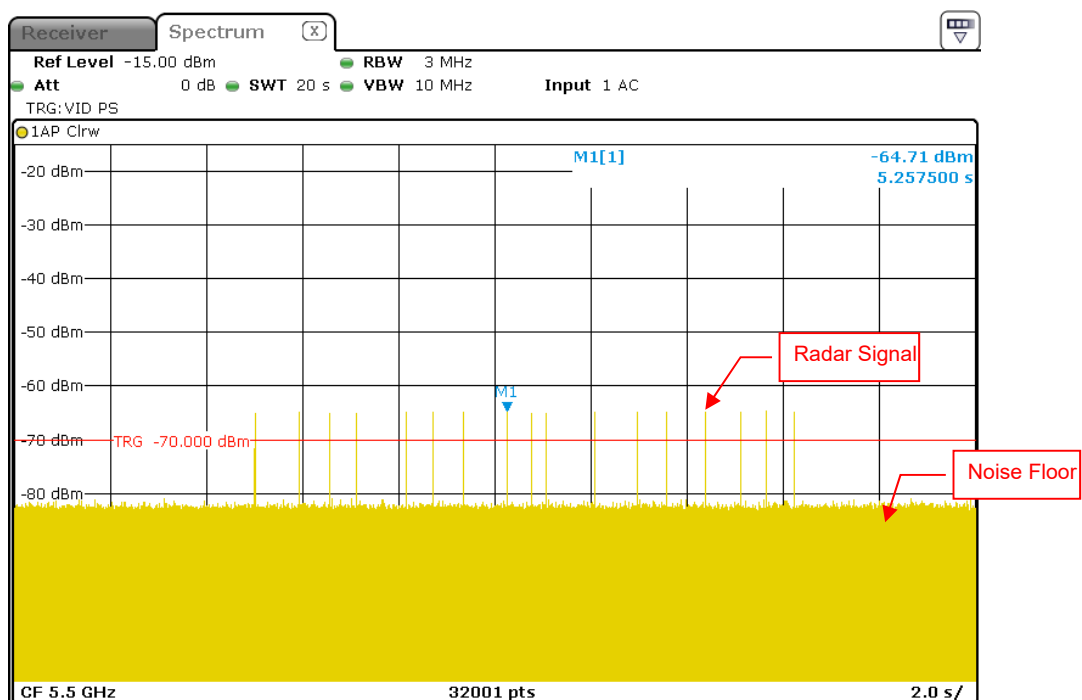
Radar Signal 2



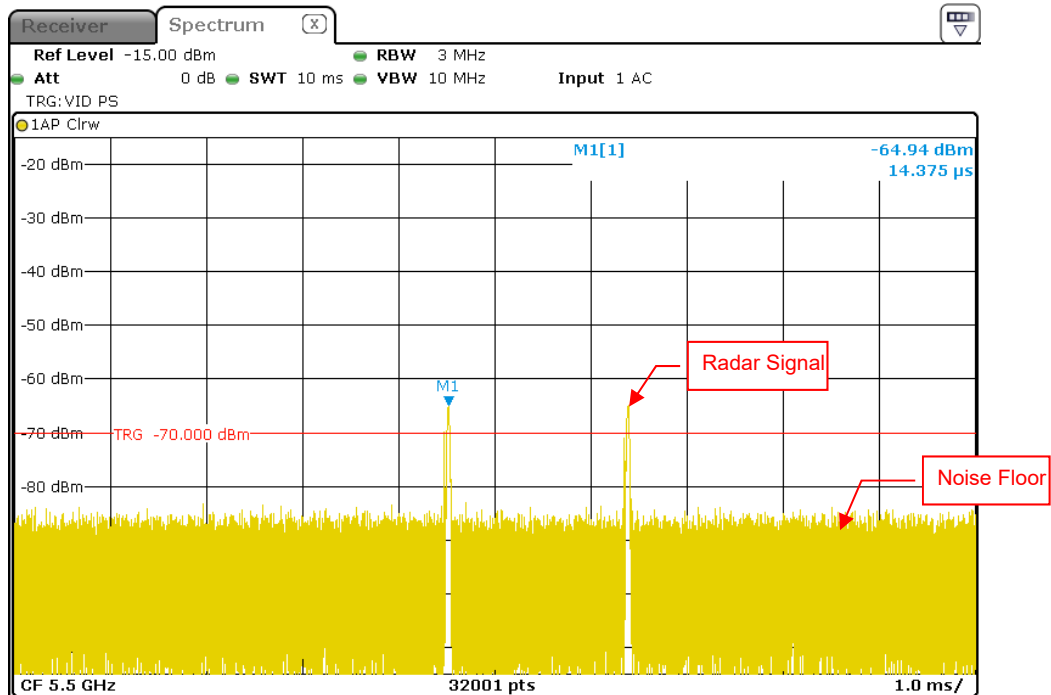
Radar Signal 3



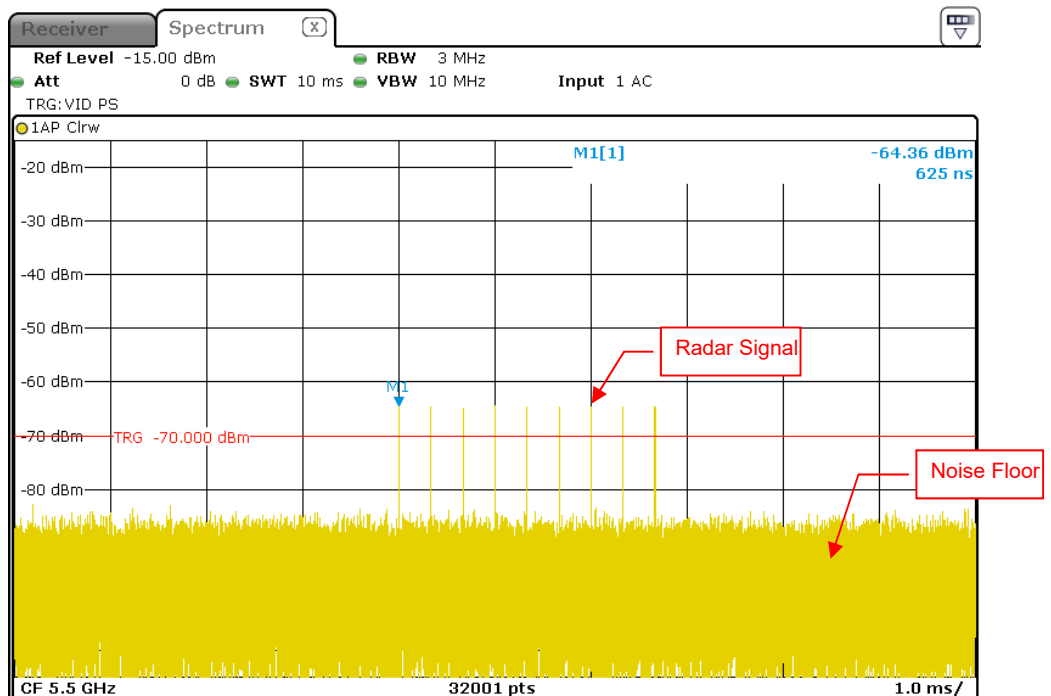
Radar Signal 4



Radar Signal 5



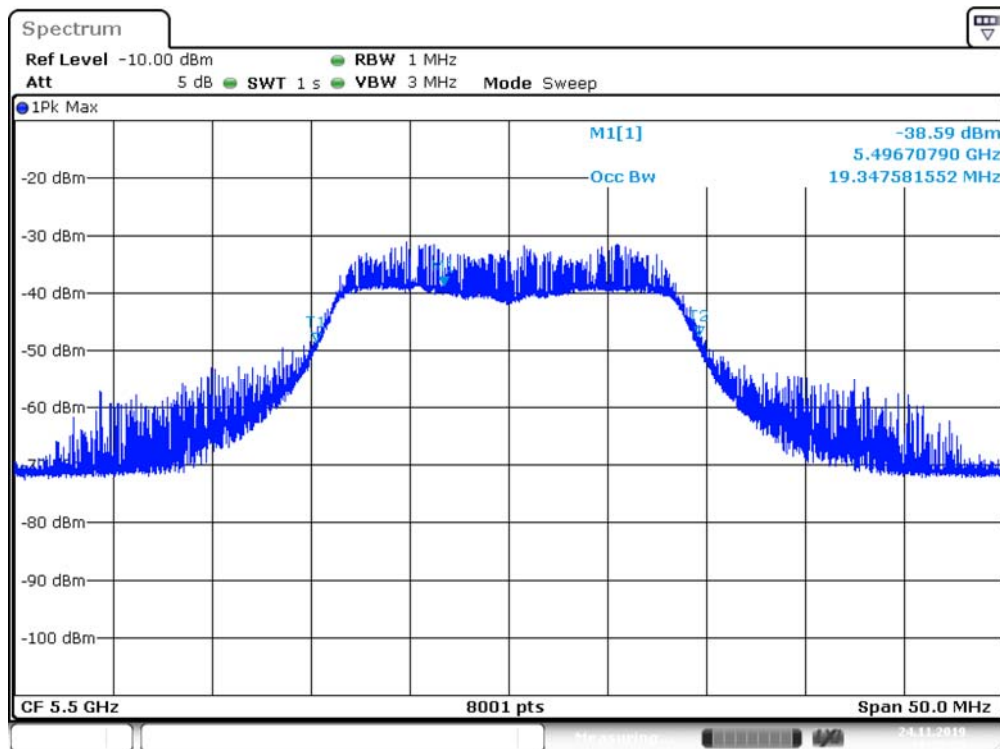
Single Burst of Radar Signal 5



Radar Signal 6

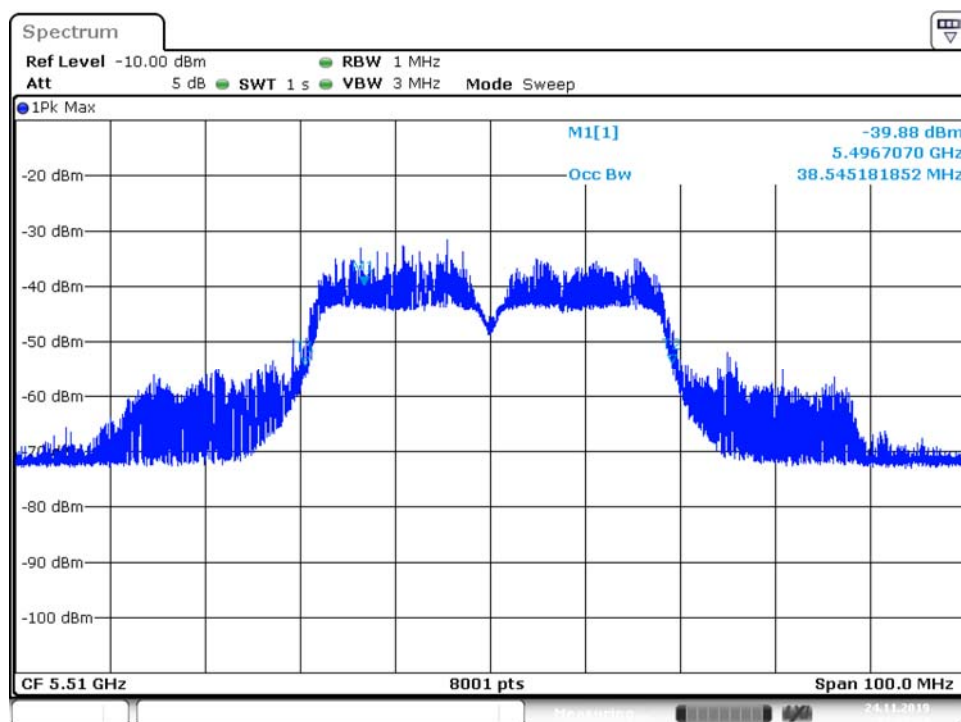
## 6.2.2 Detection Bandwidth

### IEEE 802.11ac VHT20



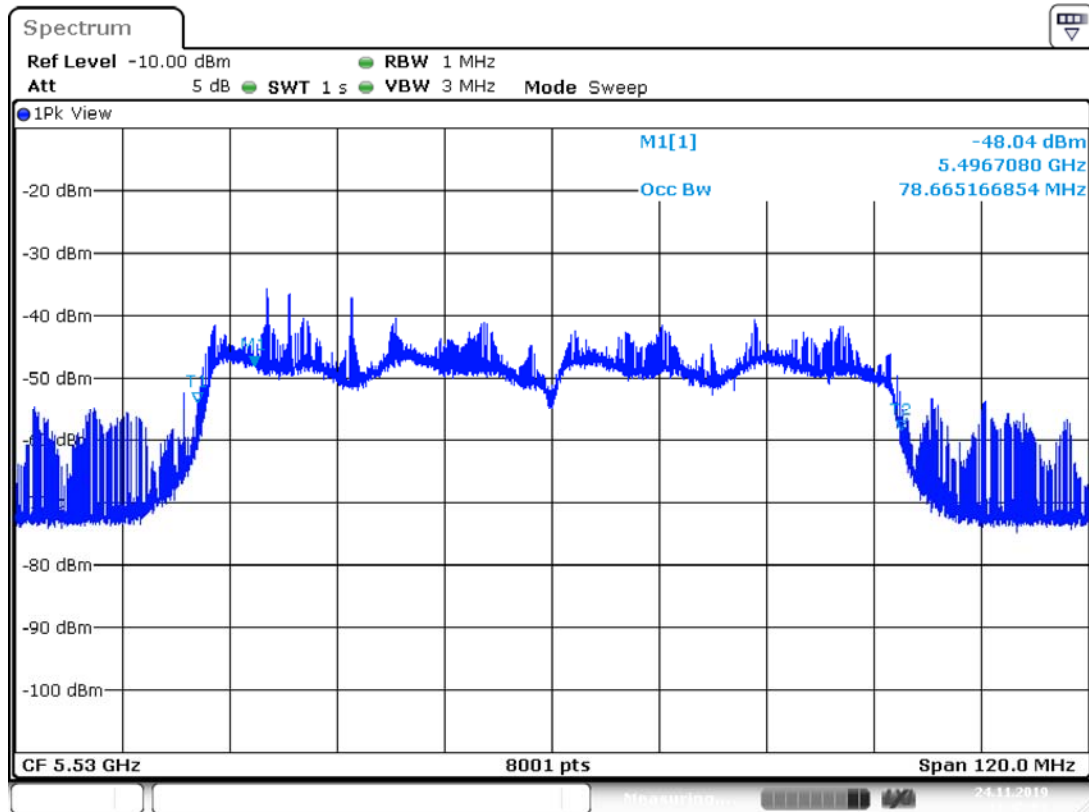
U-NII 99% Channel bandwidth

### IEEE 802.11ac VHT40



U-NII 99% Channel bandwidth

## IEEE 802.11ac VHT80



U-NII 99% Channel bandwidth

| Detection Bandwidth Test - 802.11ac (VHT20)                                                                                                                                                                                     |                          |     |     |     |     |     |     |     |     |     |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| Radar Type 0<br>EUT Frequency: 5500MHz<br>EUT 99% Power bandwidth: 19.34MHz<br>Detection bandwidth limit (100% of EUT 99% Power bandwidth): 19.34MHz<br>Detection bandwidth (5510(FH) – 5490(FL)) : 20MHz<br>Test Result : PASS |                          |     |     |     |     |     |     |     |     |     |                    |
| Radar Frequency (MHz)                                                                                                                                                                                                           | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|                                                                                                                                                                                                                                 | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5489                                                                                                                                                                                                                            | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |
| 5490                                                                                                                                                                                                                            | No                       | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5491                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5492                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5493                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5494                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5495                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5496                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5497                                                                                                                                                                                                                            | Yes                      | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | 100.0              |
| 5498                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5499                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5500                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5501                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5502                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5503                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5504                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | 90.0               |
| 5505                                                                                                                                                                                                                            | No                       | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5506                                                                                                                                                                                                                            | No                       | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | 90.0               |
| 5507                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | 90.0               |
| 5508                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5509                                                                                                                                                                                                                            | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5510                                                                                                                                                                                                                            | Yes                      | Yes | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5511                                                                                                                                                                                                                            | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - 802.11ac (VHT40)

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 38.54MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 38.54MHz

Detection bandwidth (5530(FH) – 5490(FL)) : 40MHz

Test Result : PASS

| Radar Frequency (MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5489                  | No                       | No  | No  | No  | No  | No  | Yes | No  | No  | No  | 10.0               |
| 5490                  | No                       | No  | No  | No  | No  | No  | No  | No  | Yes | Yes | 90.0               |
| 5491                  | No                       | Yes | Yes | No  | No  | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5492                  | No                       | Yes | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | 90.0               |
| 5493                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5494                  | No                       | No  | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5495                  | Yes                      | Yes | Yes | Yes | No  | Yes | Yes | Yes | No  | Yes | 90.0               |
| 5496                  | Yes                      | Yes | Yes | Yes | Yes | No  | Yes | Yes | Yes | Yes | 90.0               |
| 5497                  | Yes                      | Yes | Yes | Yes | No  | Yes | Yes | Yes | Yes | No  | 90.0               |
| 5498                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | 90.0               |
| 5499                  | No                       | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5500                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | 90.0               |
| 5501                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | 90.0               |
| 5502                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5503                  | No                       | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | 90.0               |
| 5504                  | Yes                      | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5505                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | 90.0               |
| 5506                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5507                  | Yes                      | Yes | Yes | No  | Yes | Yes | No  | No  | Yes | No  | 90.0               |
| 5508                  | Yes                      | Yes | Yes | Yes | Yes | No  | Yes | Yes | No  | Yes | 90.0               |
| 5509                  | Yes                      | Yes | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5510                  | Yes                      | Yes | Yes | No  | Yes | No  | Yes | No  | Yes | Yes | 90.0               |
| 5511                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5512                  | Yes                      | Yes | Yes | Yes | Yes | Yes | No  | No  | Yes | Yes | 90.0               |
| 5513                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5514                  | No                       | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5515                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5516                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5517                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5518                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5519                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5520                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5521                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5522                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No  | Yes | 90.0               |
| 5523                  | Yes                      | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5524                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5525                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5526                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5527                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5528                  | Yes                      | Yes | No  | Yes | Yes | No  | No  | Yes | Yes | Yes | 90.0               |
| 5529                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5530                  | Yes                      | Yes | Yes | Yes | Yes | Yes | No  | Yes | No  | Yes | 90.0               |
| 5531                  | No                       | Yes | No  | Yes | No  | No  | Yes | Yes | Yes | No  | 50.0               |

# Detection Bandwidth Test - 802.11ac (VHT80)

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 78.66MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 78.66MHz

Detection bandwidth (5570(FH) – 5490(FL)) : 80MHz

Test Result : PASS

| Radar Frequency (MHz) | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5489                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |
| 5490 (FL)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5491                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5492                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5493                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5494                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5495                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5496                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5497                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5498                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5499                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5500                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5501                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5502                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5503                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5504                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5505                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5506                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5507                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5508                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5509                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5510                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5511                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5512                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5513                  | Yes                      | Yes | Yes | Yes | No  | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5514                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5515                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5516                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5517                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5518                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5519                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5520                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5521                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5522                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5523                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5524                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5525                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5526                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5527                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5528                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5529                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5530                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5531                  | Yes                      | Yes | Yes | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5532                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5533                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |

|      |     |     |     |     |     |     |     |     |     |     |       |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 5534 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5535 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5536 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5537 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5538 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5539 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5540 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5541 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5542 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5543 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5544 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5545 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5546 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5547 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5548 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5549 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5550 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5551 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5552 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5553 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5554 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5555 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5556 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5557 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5558 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5559 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5560 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5561 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5562 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5563 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5564 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5565 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5566 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5567 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5568 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5569 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5570 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0 |
| 5571 | No  | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0   |

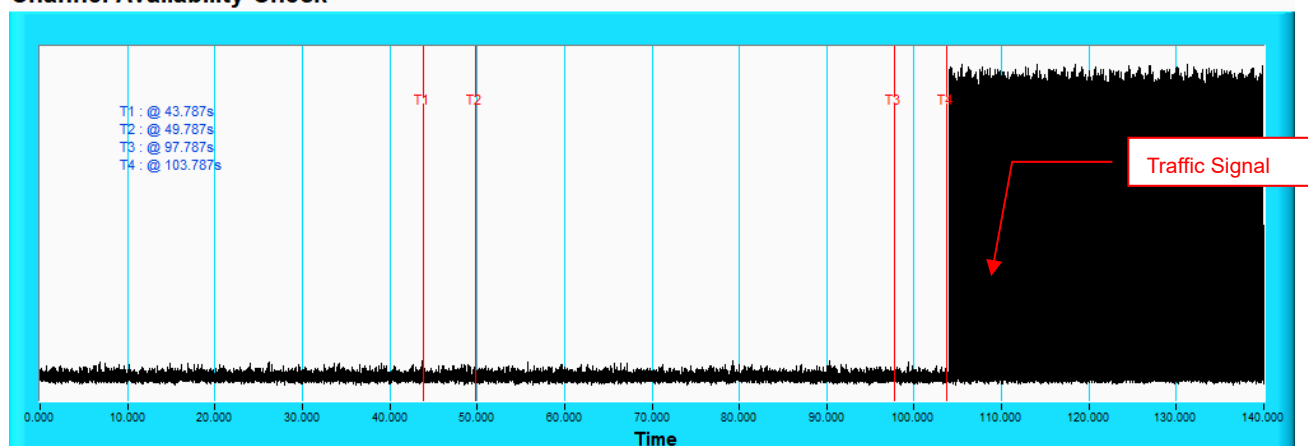
### 6.2.3 Channel Availability Check Time

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

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

### Initial Channel Availability Check Time

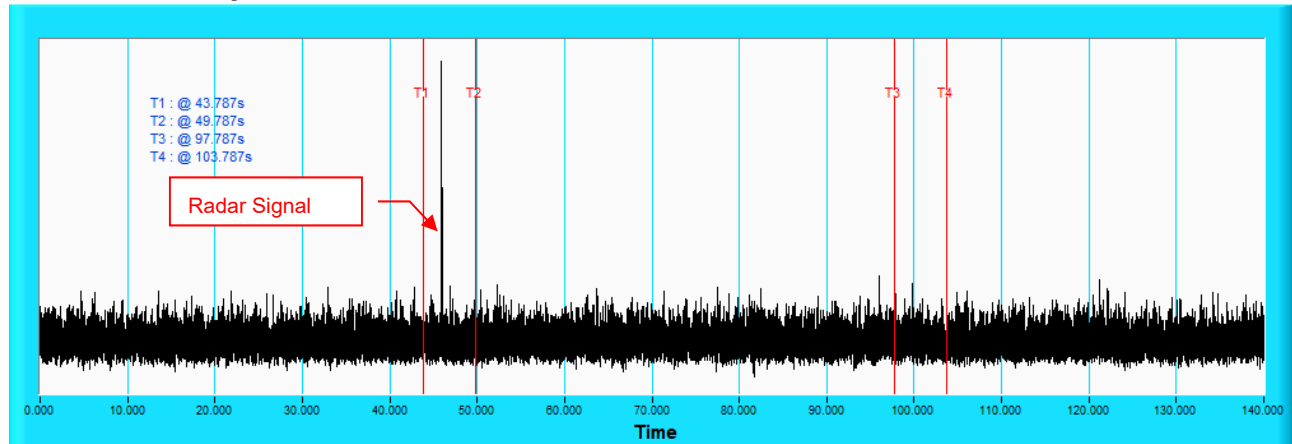
#### Channel Availability Check



**NOTE:** T1 denotes the end of power-up time period is 43.787<sup>th</sup> second. T4 denotes the end of Channel Availability Check time is 103.787<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

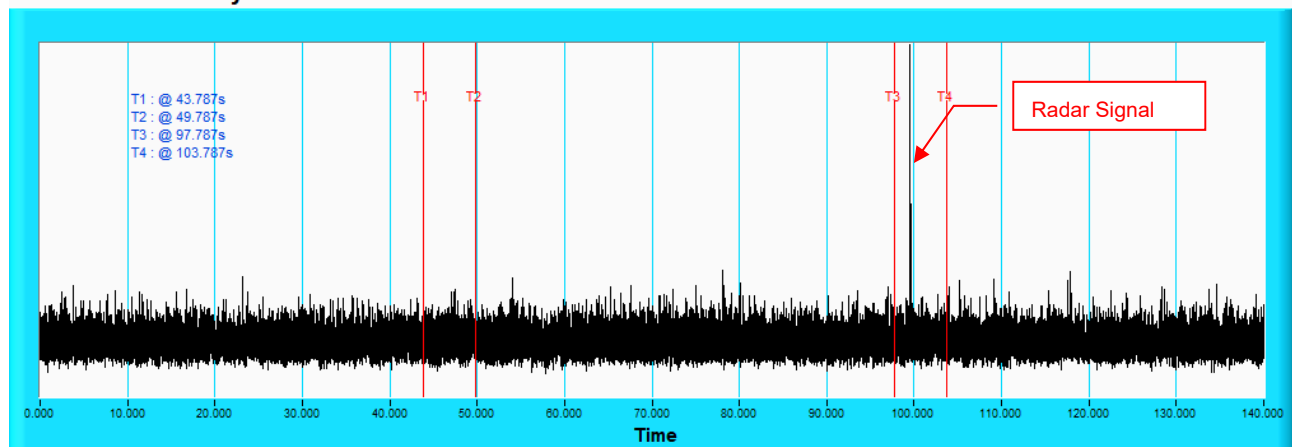
### Channel Availability Check



**NOTE:** T1 denotes the end of power up time period is 43.787<sup>th</sup> second. T2 denotes 49.787<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 103.787<sup>th</sup> second.

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

### Channel Availability Check



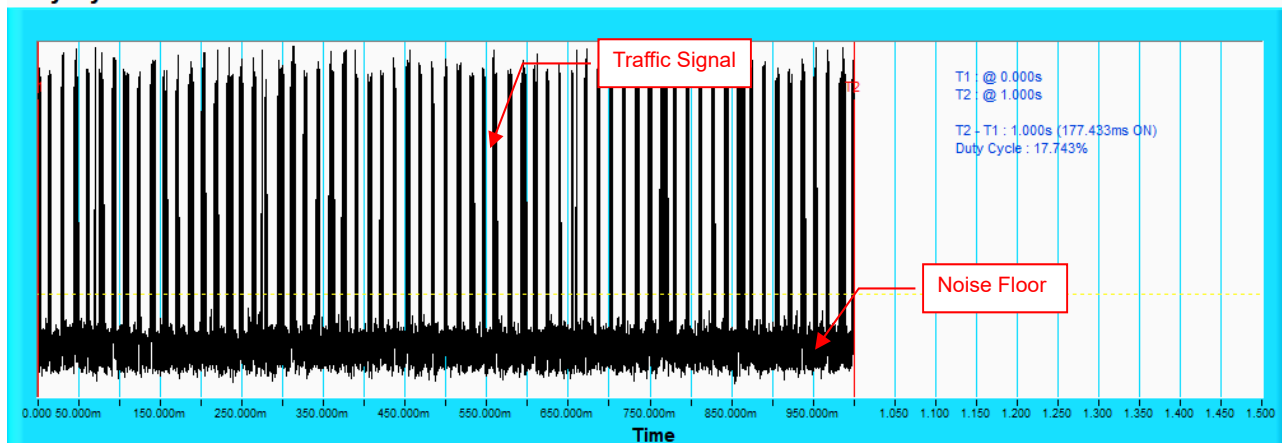
**NOTE:** T1 denotes the end of power up time period is 43.787<sup>th</sup> second. T3 denotes 97.787<sup>th</sup> second and the radar burst was commenced within 54<sup>th</sup> second to 60<sup>th</sup> second window starting from the end of power-up sequence. T4 denotes the 103.787<sup>th</sup> second.

## 6.2.4 Channel Closing Transmission and Channel Move Time

### Wireless Traffic Loading

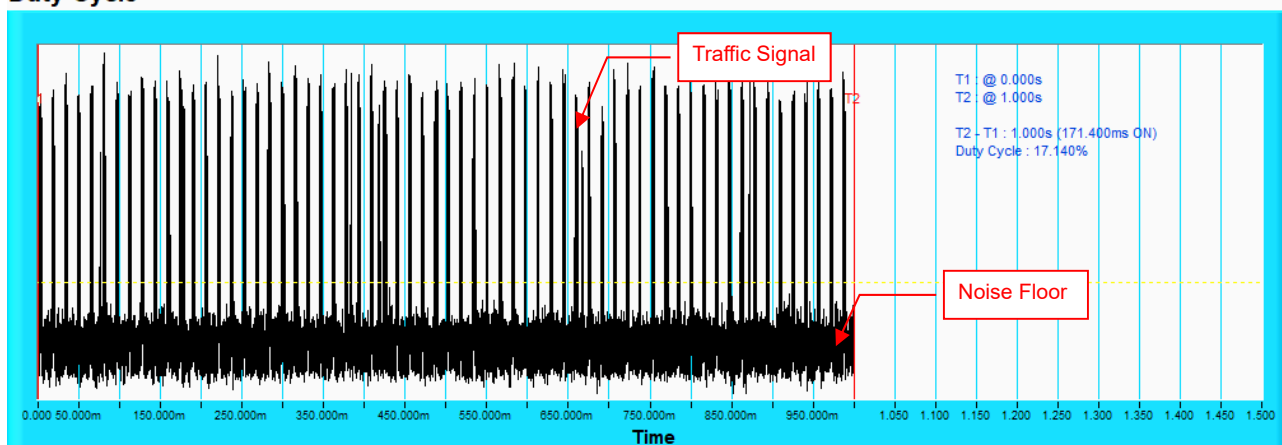
#### 802.11ac (VHT20)

##### Duty Cycle



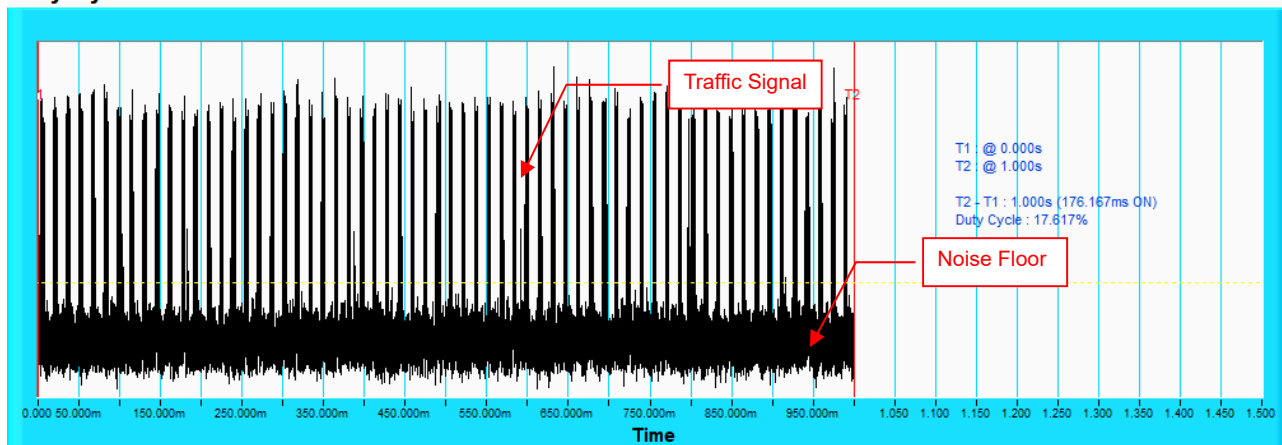
#### 802.11ac (VHT40)

##### Duty Cycle



#### 802.11ac (VHT80)

##### Duty Cycle



# 802.11ac (VHT20)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                                   | PRI (μsec)                                                                                                                                                            | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \begin{array}{l} \left( \frac{1}{360} \right) \cdot \\ \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \end{array} \right\}$ | 18               | 30                      | 100                                    |
| 2                           | 1-5                                                                                                                                                                                                                                                                                  | 150-230                                                                                                                                                               | 23-29            | 30                      | 80                                     |
| 3                           | 6-10                                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                                               | 16-18            | 30                      | 80                                     |
| 4                           | 11-20                                                                                                                                                                                                                                                                                | 200-500                                                                                                                                                               | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                       |                  | 120                     | 85.825                                 |

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                                   |

### 802.11ac (VHT40)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                                   | PRI (μsec)                                                                                                    | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\left\{ \begin{array}{l} \frac{1}{360} \\ 19 \cdot 10^6 \\ \text{PRI}_{\mu \text{sec}} \end{array} \right\}$ | 18               | 30                      | 90                                     |
| 2                           | 1-5                                                                                                                                                                                                                                                                                  | 150-230                                                                                                       | 23-29            | 30                      | 83.3                                   |
| 3                           | 6-10                                                                                                                                                                                                                                                                                 | 200-500                                                                                                       | 16-18            | 30                      | 86.7                                   |
| 4                           | 11-20                                                                                                                                                                                                                                                                                | 200-500                                                                                                       | 12-16            | 30                      | 76.7                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                      |                                                                                                               |                  | 120                     | 84.175                                 |

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                                    |

# 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                           | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right\} \right\}$ | 18               | 30                      | 100                                    |
| 2                           | 1-5                                                                                                                                                                                                                                                                                  | 150-230                                                                                                                                   | 23-29            | 30                      | 96.7                                   |
| 3                           | 6-10                                                                                                                                                                                                                                                                                 | 200-500                                                                                                                                   | 16-18            | 30                      | 96.7                                   |
| 4                           | 11-20                                                                                                                                                                                                                                                                                | 200-500                                                                                                                                   | 12-16            | 30                      | 86.7                                   |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                      |                                                                                                                                           |                  | 120                     | 95.025                                 |

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                                    |

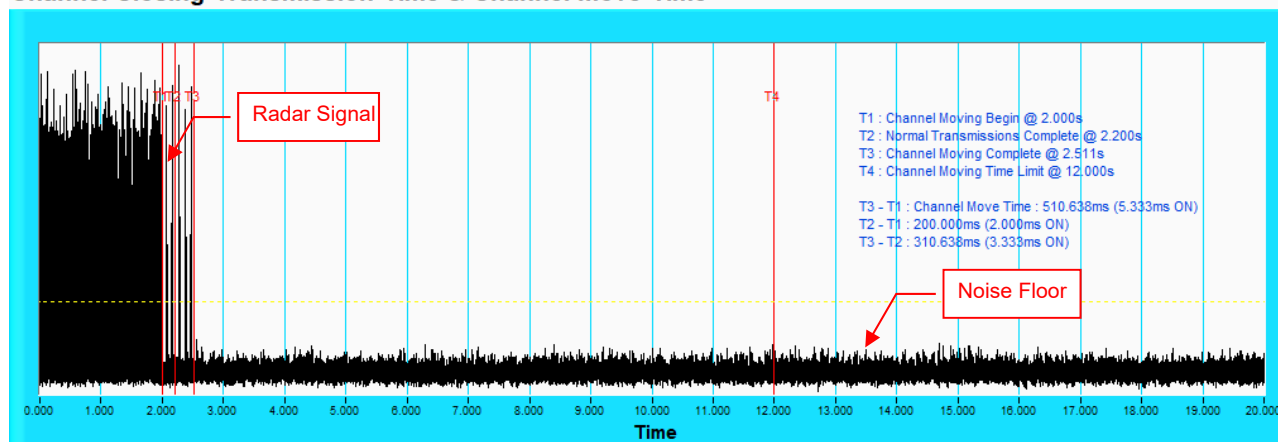
Table 3: Frequency Hopping Radar Test Waveform

| 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                                    |

## Radar signal 0

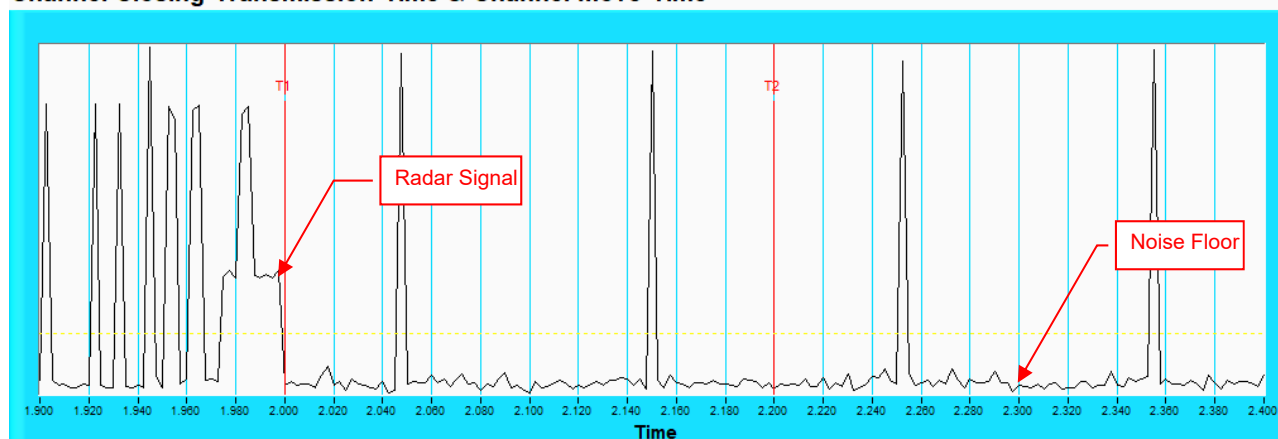
802.11ac (VHT80)

### 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

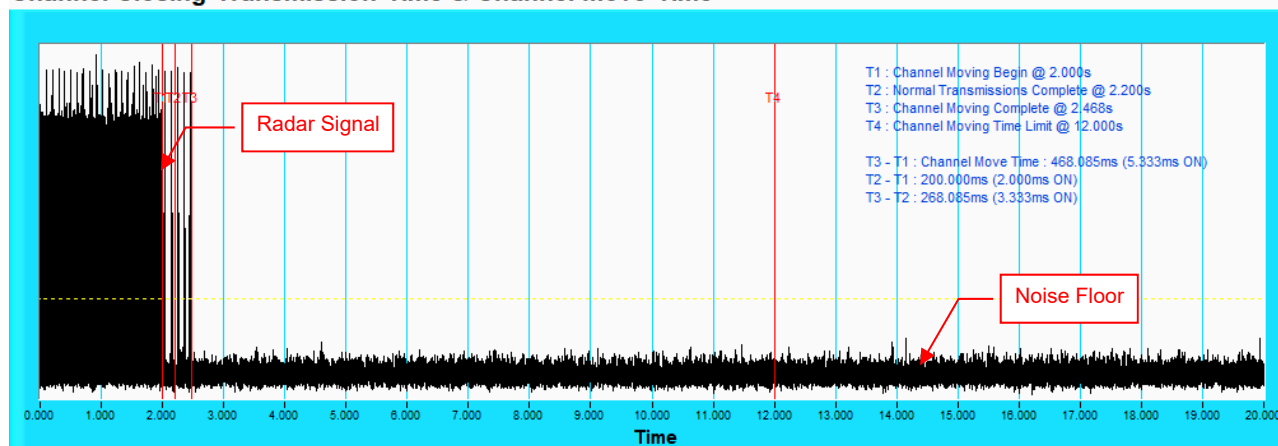


**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 1

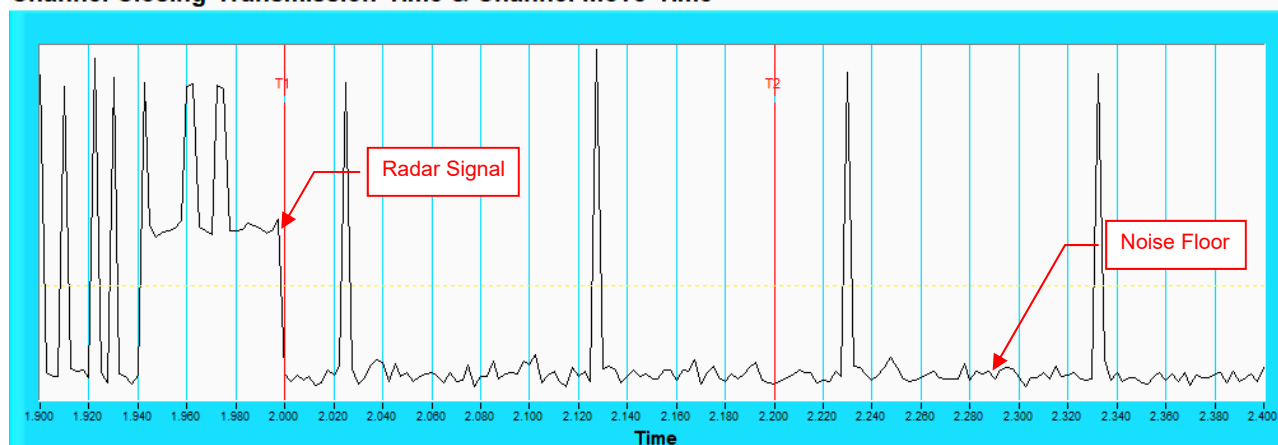
802.11ac (VHT80)

### 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

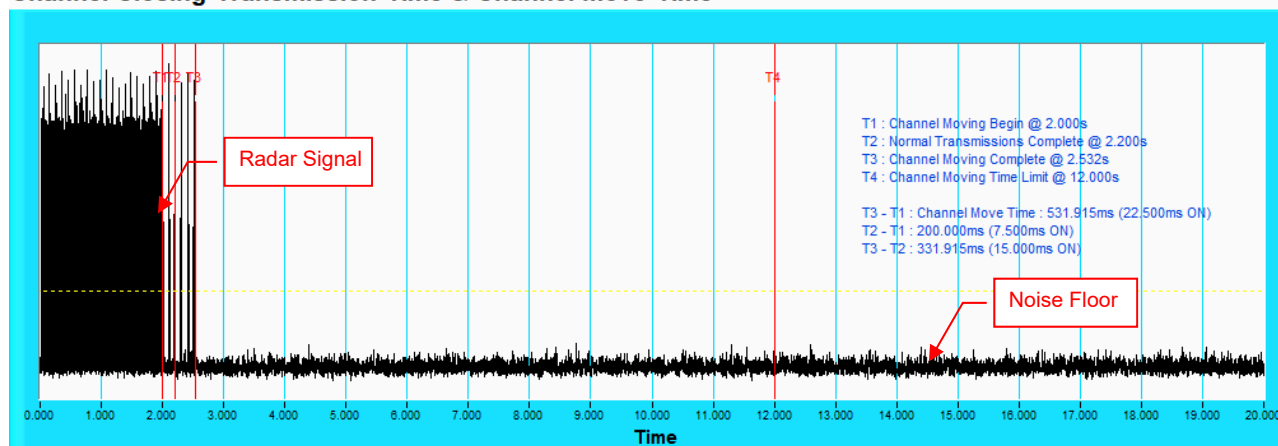


**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 2

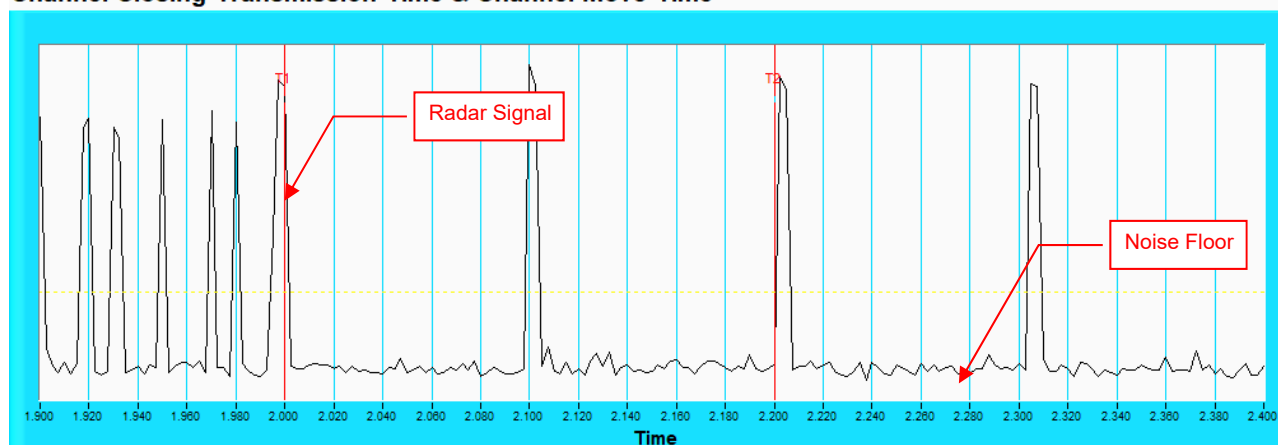
802.11ac (VHT80)

### 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

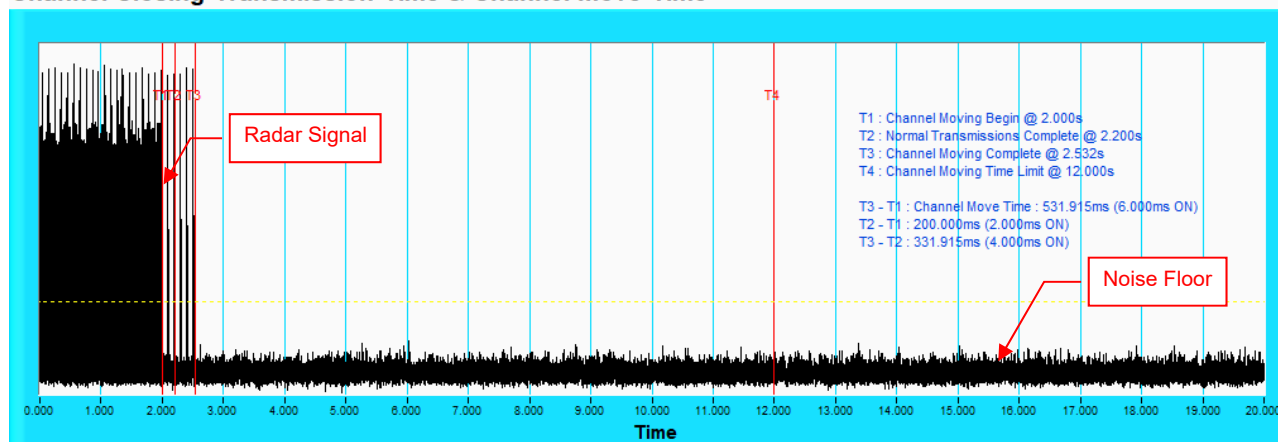


**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 3

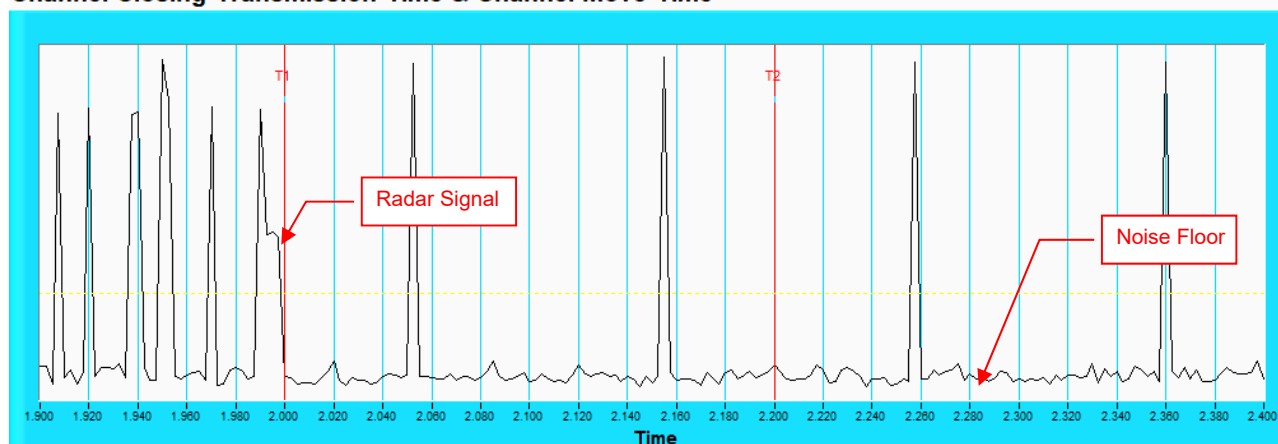
802.11ac (VHT80)

### 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

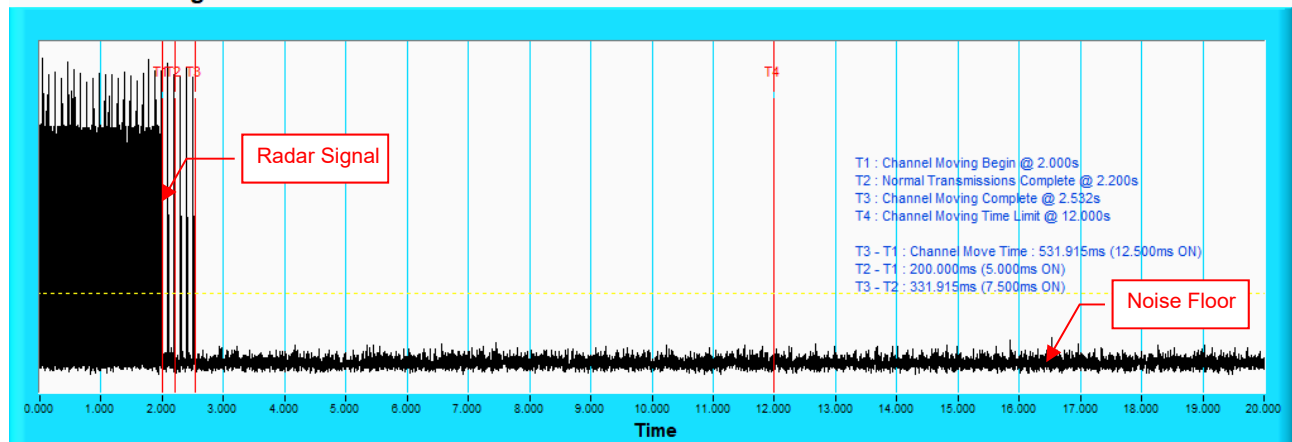


**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 4

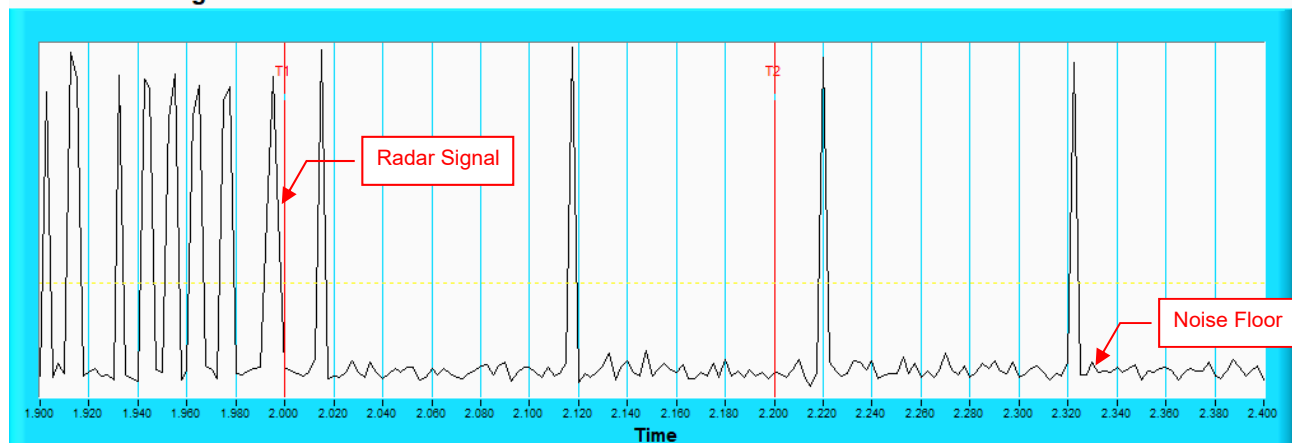
802.11ac (VHT80)

### 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.

# 802.11ac (VHT20)

| 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                                     | 5495                 | 15                                          | 1253                                           | 67               | 798                                      | Yes                   |
| 2                                     | 5499                 | 16                                          | 1223                                           | 65               | 818                                      | Yes                   |
| 3                                     | 5504                 | 4                                           | 1730                                           | 92               | 578                                      | Yes                   |
| 4                                     | 5494                 | 11                                          | 1393                                           | 74               | 718                                      | Yes                   |
| 5                                     | 5493                 | 22                                          | 1066                                           | 57               | 938                                      | Yes                   |
| 6                                     | 5508                 | 7                                           | 1567                                           | 83               | 638                                      | Yes                   |
| 7                                     | 5496                 | 2                                           | 1859                                           | 99               | 538                                      | Yes                   |
| 8                                     | 5507                 | 8                                           | 1520                                           | 81               | 658                                      | Yes                   |
| 9                                     | 5501                 | 1                                           | 1931                                           | 102              | 518                                      | Yes                   |
| 10                                    | 5495                 | 19                                          | 1139                                           | 61               | 878                                      | Yes                   |
| 11                                    | 5492                 | 21                                          | 1089                                           | 58               | 918                                      | Yes                   |
| 12                                    | 5501                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes                   |
| 13                                    | 5494                 | 9                                           | 1475                                           | 78               | 678                                      | Yes                   |
| 14                                    | 5495                 | 5                                           | 1672                                           | 89               | 598                                      | Yes                   |
| 15                                    | 5507                 | 6                                           | 1618                                           | 86               | 618                                      | Yes                   |
| 16                                    | 5501                 |                                             | 1111                                           | 59               | 900                                      | Yes                   |
| 17                                    | 5507                 |                                             | 1024                                           | 55               | 977                                      | Yes                   |
| 18                                    | 5503                 |                                             | 625.8                                          | 34               | 1598                                     | Yes                   |
| 19                                    | 5508                 |                                             | 730.5                                          | 39               | 1369                                     | Yes                   |
| 20                                    | 5504                 |                                             | 1181                                           | 63               | 847                                      | Yes                   |
| 21                                    | 5501                 |                                             | 400.6                                          | 22               | 2496                                     | Yes                   |
| 22                                    | 5499                 |                                             | 529.4                                          | 28               | 1889                                     | Yes                   |
| 23                                    | 5495                 |                                             | 347.6                                          | 19               | 2877                                     | Yes                   |
| 24                                    | 5494                 |                                             | 641.4                                          | 34               | 1559                                     | Yes                   |
| 25                                    | 5495                 |                                             | 508.9                                          | 27               | 1965                                     | Yes                   |
| 26                                    | 5499                 |                                             | 345.4                                          | 19               | 2895                                     | Yes                   |
| 27                                    | 5504                 |                                             | 580.7                                          | 31               | 1722                                     | Yes                   |
| 28                                    | 5494                 |                                             | 786.8                                          | 42               | 1271                                     | Yes                   |
| 29                                    | 5493                 |                                             | 808.4                                          | 43               | 1237                                     | Yes                   |
| 30                                    | 5508                 |                                             | 517.1                                          | 28               | 1934                                     | Yes                   |
|                                       |                      |                                             |                                                |                  |                                          | Detection Rate: 100 % |

## 802.11ac (VHT20)

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5494                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5496                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5501                 | 28               | 4               | 161     | Yes       |
| 4       | 5494                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5508                 | 24               | 1.9             | 193     | No        |
| 6       | 5508                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5495                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5496                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5495                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5504                 | 27               | 3.6             | 221     | No        |
| 11      | 5496                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5498                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5499                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5506                 | 29               | 4.5             | 203     | No        |
| 15      | 5495                 | 29               | 5               | 170     | Yes       |
| 16      | 5503                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5493                 | 24               | 2.1             | 218     | No        |
| 18      | 5499                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5505                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5497                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5503                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5498                 | 28               | 4               | 160     | Yes       |
| 23      | 5499                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5494                 | 23               | 1               | 205     | Yes       |
| 25      | 5496                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5501                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5494                 | 23               | 1.5             | 190     | No        |
| 28      | 5508                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5508                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5495                 | 24               | 1.7             | 216     | No        |

Detection Rate: 80 %

## 802.11ac (VHT20)

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5496                 | 16               | 6.7             | 467     | No        |
| 2       | 5500                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5503                 | 18               | 9               | 316     | Yes       |
| 4       | 5497                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5507                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5496                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5502                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5499                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5494                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5492                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5499                 | 16               | 6.1             | 474     | No        |
| 12      | 5493                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5494                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5507                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5501                 | 18               | 10              | 395     | Yes       |
| 16      | 5497                 | 17               | 8.1             | 322     | No        |
| 17      | 5502                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5506                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5502                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5492                 | 16               | 6.2             | 456     | No        |
| 21      | 5503                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5497                 | 18               | 9               | 411     | Yes       |
| 23      | 5495                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5496                 | 16               | 6               | 431     | Yes       |
| 25      | 5500                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5503                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5497                 | 16               | 6.5             | 447     | No        |
| 28      | 5507                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5496                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5502                 | 16               | 6.7             | 270     | No        |

Detection Rate: 80 %

## 802.11ac (VHT20)

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5505                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5508                 | 15               | 17.2            | 304     | No        |
| 3       | 5503                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5507                 | 16               | 18.5            | 439     | No        |
| 5       | 5503                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5504                 | 12               | 11.3            | 249     | No        |
| 7       | 5505                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5496                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5496                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5503                 | 15               | 16.9            | 236     | No        |
| 11      | 5501                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5500                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5500                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5496                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5505                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5503                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5494                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5507                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5498                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5508                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5508                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5499                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5505                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5508                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5503                 | 15               | 17              | 324     | Yes       |
| 26      | 5507                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5503                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5504                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5505                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5496                 | 12               | 12.7            | 270     | Yes       |

Detection Rate: 83.3 %

## 802.11ac (VHT20)

| Type 5 Radar Statistical Performances |                          |                             |                  |                       |
|---------------------------------------|--------------------------|-----------------------------|------------------|-----------------------|
| Trial #                               | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection             |
| 1                                     | 11                       | 5500.0                      | LP_Signal_01     | Yes                   |
| 2                                     | 19                       | 5500.0                      | LP_Signal_02     | Yes                   |
| 3                                     | 16                       | 5500.0                      | LP_Signal_03     | Yes                   |
| 4                                     | 8                        | 5500.0                      | LP_Signal_04     | Yes                   |
| 5                                     | 11                       | 5500.0                      | LP_Signal_05     | Yes                   |
| 6                                     | 8                        | 5500.0                      | LP_Signal_06     | Yes                   |
| 7                                     | 9                        | 5500.0                      | LP_Signal_07     | Yes                   |
| 8                                     | 19                       | 5500.0                      | LP_Signal_08     | Yes                   |
| 9                                     | 10                       | 5500.0                      | LP_Signal_09     | Yes                   |
| 10                                    | 11                       | 5500.0                      | LP_Signal_10     | Yes                   |
| 11                                    | 16                       | 5497.2                      | LP_Signal_11     | Yes                   |
| 12                                    | 19                       | 5498.4                      | LP_Signal_12     | Yes                   |
| 13                                    | 13                       | 5496.0                      | LP_Signal_13     | Yes                   |
| 14                                    | 10                       | 5494.8                      | LP_Signal_14     | Yes                   |
| 15                                    | 18                       | 5498.0                      | LP_Signal_15     | Yes                   |
| 16                                    | 12                       | 5495.6                      | LP_Signal_16     | Yes                   |
| 17                                    | 20                       | 5498.8                      | LP_Signal_17     | Yes                   |
| 18                                    | 10                       | 5494.8                      | LP_Signal_18     | Yes                   |
| 19                                    | 12                       | 5495.6                      | LP_Signal_19     | Yes                   |
| 20                                    | 10                       | 5494.8                      | LP_Signal_20     | Yes                   |
| 21                                    | 15                       | 5503.3                      | LP_Signal_21     | Yes                   |
| 22                                    | 9                        | 5505.7                      | LP_Signal_22     | Yes                   |
| 23                                    | 20                       | 5501.3                      | LP_Signal_23     | Yes                   |
| 24                                    | 12                       | 5504.5                      | LP_Signal_24     | Yes                   |
| 25                                    | 11                       | 5504.9                      | LP_Signal_25     | Yes                   |
| 26                                    | 5                        | 5507.3                      | LP_Signal_26     | Yes                   |
| 27                                    | 16                       | 5502.9                      | LP_Signal_27     | Yes                   |
| 28                                    | 19                       | 5501.7                      | LP_Signal_28     | Yes                   |
| 29                                    | 10                       | 5505.3                      | LP_Signal_29     | Yes                   |
| 30                                    | 17                       | 5502.5                      | LP_Signal_30     | Yes                   |
|                                       |                          |                             |                  | Detection Rate: 100 % |

The Long Pulse Radar pattern shown in Appendix A.1

## 802.11ac (VHT20)

| 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   | No                     |
| 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: 96.7 % |

## 802.11ac (VHT20)

| 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                 | No                     |
| 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: 96.7 % |

The Frequency Hopping Radar pattern shown in Appendix A.2

# 802.11ac (VHT40)

| 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                                     | 5498                 | 15                                          | 1253                                           | 67               | 798                                      | Yes                 |
| 2                                     | 5513                 | 16                                          | 1223                                           | 65               | 818                                      | Yes                 |
| 3                                     | 5518                 | 4                                           | 1730                                           | 92               | 578                                      | Yes                 |
| 4                                     | 5496                 | 11                                          | 1393                                           | 74               | 718                                      | Yes                 |
| 5                                     | 5502                 | 22                                          | 1066                                           | 57               | 938                                      | Yes                 |
| 6                                     | 5525                 | 7                                           | 1567                                           | 83               | 638                                      | Yes                 |
| 7                                     | 5518                 | 2                                           | 1859                                           | 99               | 538                                      | Yes                 |
| 8                                     | 5526                 | 8                                           | 1520                                           | 81               | 658                                      | Yes                 |
| 9                                     | 5492                 | 1                                           | 1931                                           | 102              | 518                                      | Yes                 |
| 10                                    | 5516                 | 19                                          | 1139                                           | 61               | 878                                      | Yes                 |
| 11                                    | 5498                 | 21                                          | 1089                                           | 58               | 918                                      | Yes                 |
| 12                                    | 5496                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes                 |
| 13                                    | 5526                 | 9                                           | 1475                                           | 78               | 678                                      | Yes                 |
| 14                                    | 5501                 | 5                                           | 1672                                           | 89               | 598                                      | Yes                 |
| 15                                    | 5518                 | 6                                           | 1618                                           | 86               | 618                                      | No                  |
| 16                                    | 5495                 |                                             | 1111                                           | 59               | 900                                      | Yes                 |
| 17                                    | 5519                 |                                             | 1024                                           | 55               | 977                                      | No                  |
| 18                                    | 5511                 |                                             | 625.8                                          | 34               | 1598                                     | Yes                 |
| 19                                    | 5524                 |                                             | 730.5                                          | 39               | 1369                                     | Yes                 |
| 20                                    | 5510                 |                                             | 1181                                           | 63               | 847                                      | Yes                 |
| 21                                    | 5519                 |                                             | 400.6                                          | 22               | 2496                                     | Yes                 |
| 22                                    | 5523                 |                                             | 529.4                                          | 28               | 1889                                     | Yes                 |
| 23                                    | 5492                 |                                             | 347.6                                          | 19               | 2877                                     | Yes                 |
| 24                                    | 5498                 |                                             | 641.4                                          | 34               | 1559                                     | No                  |
| 25                                    | 5513                 |                                             | 508.9                                          | 27               | 1965                                     | Yes                 |
| 26                                    | 5518                 |                                             | 345.4                                          | 19               | 2895                                     | Yes                 |
| 27                                    | 5496                 |                                             | 580.7                                          | 31               | 1722                                     | Yes                 |
| 28                                    | 5502                 |                                             | 786.8                                          | 42               | 1271                                     | Yes                 |
| 29                                    | 5525                 |                                             | 808.4                                          | 43               | 1237                                     | Yes                 |
| 30                                    | 5518                 |                                             | 517.1                                          | 28               | 1934                                     | Yes                 |
|                                       |                      |                                             |                                                |                  |                                          | Detection Rate: 90% |

## 802.11ac (VHT40)

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5509                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5522                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5493                 | 28               | 4               | 161     | Yes       |
| 4       | 5516                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5502                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5513                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5523                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5495                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5520                 | 26               | 2.8             | 171     | No        |
| 10      | 5526                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5502                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5522                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5504                 | 25               | 2.5             | 204     | No        |
| 14      | 5497                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5500                 | 29               | 5               | 170     | Yes       |
| 16      | 5494                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5513                 | 24               | 2.1             | 218     | No        |
| 18      | 5527                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5526                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5520                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5518                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5503                 | 28               | 4               | 160     | Yes       |
| 23      | 5509                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5522                 | 23               | 1               | 205     | No        |
| 25      | 5493                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5516                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5502                 | 23               | 1.5             | 190     | No        |
| 28      | 5513                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5523                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5495                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 83.3 %

## 802.11ac (VHT40)

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5493                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5524                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5494                 | 18               | 9               | 316     | Yes       |
| 4       | 5503                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5507                 | 16               | 6.9             | 420     | No        |
| 6       | 5501                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5526                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5505                 | 17               | 7.9             | 258     | No        |
| 9       | 5497                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5497                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5507                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5508                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5518                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5494                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5501                 | 18               | 10              | 395     | No        |
| 16      | 5515                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5517                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5524                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5509                 | 16               | 6.8             | 423     | No        |
| 20      | 5501                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5519                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5520                 | 18               | 9               | 411     | Yes       |
| 23      | 5507                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5496                 | 16               | 6               | 431     | Yes       |
| 25      | 5516                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5498                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5496                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5526                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5501                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5518                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 86.7 %

## 802.11ac (VHT40)

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5492                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5515                 | 15               | 17.2            | 304     | No        |
| 3       | 5517                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5506                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5518                 | 13               | 13.1            | 420     | No        |
| 6       | 5495                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5520                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5520                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5496                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5502                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5511                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5521                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5519                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5499                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5500                 | 16               | 19.9            | 395     | No        |
| 16      | 5521                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5497                 | 13               | 13.4            | 468     | No        |
| 18      | 5500                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5495                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5492                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5515                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5517                 | 15               | 17.8            | 411     | No        |
| 23      | 5506                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5518                 | 12               | 11.1            | 431     | No        |
| 25      | 5513                 | 15               | 17              | 324     | Yes       |
| 26      | 5507                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5503                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5505                 | 12               | 11.7            | 481     | No        |
| 29      | 5515                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5515                 | 12               | 12.7            | 270     | Yes       |

Detection Rate: 76.7 %

# 802.11ac (VHT40)

## Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 6                        | 5510.0                      | LP_Signal_01     | Yes       |
| 2       | 20                       | 5510.0                      | LP_Signal_02     | Yes       |
| 3       | 19                       | 5510.0                      | LP_Signal_03     | Yes       |
| 4       | 18                       | 5510.0                      | LP_Signal_04     | Yes       |
| 5       | 10                       | 5510.0                      | LP_Signal_05     | Yes       |
| 6       | 18                       | 5510.0                      | LP_Signal_06     | Yes       |
| 7       | 10                       | 5510.0                      | LP_Signal_07     | Yes       |
| 8       | 16                       | 5510.0                      | LP_Signal_08     | Yes       |
| 9       | 7                        | 5510.0                      | LP_Signal_09     | Yes       |
| 10      | 16                       | 5510.0                      | LP_Signal_10     | Yes       |
| 11      | 16                       | 5498.2                      | LP_Signal_11     | Yes       |
| 12      | 19                       | 5499.4                      | LP_Signal_12     | Yes       |
| 13      | 13                       | 5497.0                      | LP_Signal_13     | Yes       |
| 14      | 10                       | 5495.8                      | LP_Signal_14     | Yes       |
| 15      | 18                       | 5499.0                      | LP_Signal_15     | Yes       |
| 16      | 12                       | 5496.6                      | LP_Signal_16     | Yes       |
| 17      | 20                       | 5499.8                      | LP_Signal_17     | Yes       |
| 18      | 10                       | 5495.8                      | LP_Signal_18     | Yes       |
| 19      | 12                       | 5496.6                      | LP_Signal_19     | Yes       |
| 20      | 10                       | 5495.8                      | LP_Signal_20     | Yes       |
| 21      | 15                       | 5522.3                      | LP_Signal_21     | Yes       |
| 22      | 9                        | 5524.7                      | LP_Signal_22     | Yes       |
| 23      | 20                       | 5520.3                      | LP_Signal_23     | Yes       |
| 24      | 12                       | 5523.5                      | LP_Signal_24     | Yes       |
| 25      | 11                       | 5523.9                      | LP_Signal_25     | Yes       |
| 26      | 5                        | 5526.3                      | LP_Signal_26     | Yes       |
| 27      | 16                       | 5521.9                      | LP_Signal_27     | Yes       |
| 28      | 19                       | 5520.7                      | LP_Signal_28     | Yes       |
| 29      | 10                       | 5524.3                      | LP_Signal_29     | Yes       |
| 30      | 17                       | 5521.5                      | LP_Signal_30     | Yes       |

Detection Rate: 100 %

The Long Pulse Radar pattern shown in Appendix A.1

## 802.11ac (VHT40)

| 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 (VHT40)

| 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 Appendix A.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                                     | 5516                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5516                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5509                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5509                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5                                     | 5517                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5512                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5501                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5500                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5515                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10                                    | 5500                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5500                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5511                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5514                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5502                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5499                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5514                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5519                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5510                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5518                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5493                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5502                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5518                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5514                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5520                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5516                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5494                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5510                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5503                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5494                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5494                 |                                             | 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       | 5516                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5495                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5506                 | 28               | 4               | 161     | Yes       |
| 4       | 5500                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5524                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5494                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5515                 | 29               | 4.5             | 198     | No        |
| 8       | 5498                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5518                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5502                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5508                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5500                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5501                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5523                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5526                 | 29               | 5               | 170     | Yes       |
| 16      | 5519                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5506                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5509                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5514                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5525                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5508                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5526                 | 28               | 4               | 160     | Yes       |
| 23      | 5497                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5520                 | 23               | 1               | 205     | Yes       |
| 25      | 5528                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5526                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5527                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5498                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5496                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5520                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 96.7 %

## 802.11ac (VHT80)

| Type 3 Radar Statistical Performances |                      |                  |                 |         |                        |
|---------------------------------------|----------------------|------------------|-----------------|---------|------------------------|
| Trial #                               | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection              |
| 1                                     | 5517                 | 16               | 6.7             | 467     | Yes                    |
| 2                                     | 5501                 | 18               | 8.8             | 304     | Yes                    |
| 3                                     | 5501                 | 18               | 9               | 316     | Yes                    |
| 4                                     | 5494                 | 18               | 9.3             | 439     | Yes                    |
| 5                                     | 5521                 | 16               | 6.9             | 420     | Yes                    |
| 6                                     | 5515                 | 16               | 6.1             | 249     | Yes                    |
| 7                                     | 5511                 | 18               | 9.5             | 463     | Yes                    |
| 8                                     | 5496                 | 17               | 7.9             | 258     | Yes                    |
| 9                                     | 5521                 | 17               | 7.8             | 212     | Yes                    |
| 10                                    | 5514                 | 17               | 8.6             | 236     | No                     |
| 11                                    | 5502                 | 16               | 6.1             | 474     | Yes                    |
| 12                                    | 5498                 | 16               | 6.3             | 461     | Yes                    |
| 13                                    | 5514                 | 17               | 7.5             | 437     | Yes                    |
| 14                                    | 5525                 | 18               | 9.5             | 287     | Yes                    |
| 15                                    | 5528                 | 18               | 10              | 395     | Yes                    |
| 16                                    | 5503                 | 17               | 8.1             | 322     | Yes                    |
| 17                                    | 5521                 | 16               | 7.1             | 468     | Yes                    |
| 18                                    | 5522                 | 17               | 7.6             | 255     | Yes                    |
| 19                                    | 5522                 | 16               | 6.8             | 423     | Yes                    |
| 20                                    | 5515                 | 16               | 6.2             | 456     | Yes                    |
| 21                                    | 5517                 | 17               | 7.9             | 351     | Yes                    |
| 22                                    | 5494                 | 18               | 9               | 411     | Yes                    |
| 23                                    | 5518                 | 17               | 7.5             | 279     | Yes                    |
| 24                                    | 5496                 | 16               | 6               | 431     | Yes                    |
| 25                                    | 5499                 | 17               | 8.7             | 324     | Yes                    |
| 26                                    | 5519                 | 17               | 7.5             | 419     | Yes                    |
| 27                                    | 5496                 | 16               | 6.5             | 447     | Yes                    |
| 28                                    | 5521                 | 16               | 6.3             | 481     | Yes                    |
| 29                                    | 5507                 | 16               | 6.2             | 438     | Yes                    |
| 30                                    | 5510                 | 16               | 6.7             | 270     | Yes                    |
|                                       |                      |                  |                 |         | Detection Rate: 96.7 % |

## 802.11ac (VHT80)

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5520                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5495                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5499                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5504                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5505                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5517                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5493                 | 16               | 18.8            | 463     | No        |
| 8       | 5495                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5521                 | 14               | 15.1            | 212     | No        |
| 10      | 5505                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5499                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5494                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5506                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5528                 | 16               | 18.9            | 287     | No        |
| 15      | 5516                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5511                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5524                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5527                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5526                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5500                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5500                 | 14               | 15.3            | 351     | No        |
| 22      | 5506                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5502                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5495                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5493                 | 15               | 17              | 324     | Yes       |
| 26      | 5510                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5501                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5519                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5524                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5496                 | 12               | 12.7            | 270     | Yes       |

Detection Rate:86.7 %

# 802.11ac (VHT80)

## Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 20                       | 5530.0                      | LP_Signal_01     | Yes       |
| 2       | 11                       | 5530.0                      | LP_Signal_02     | Yes       |
| 3       | 20                       | 5530.0                      | LP_Signal_03     | Yes       |
| 4       | 19                       | 5530.0                      | LP_Signal_04     | Yes       |
| 5       | 20                       | 5530.0                      | LP_Signal_05     | Yes       |
| 6       | 14                       | 5530.0                      | LP_Signal_06     | Yes       |
| 7       | 16                       | 5530.0                      | LP_Signal_07     | Yes       |
| 8       | 9                        | 5530.0                      | LP_Signal_08     | Yes       |
| 9       | 6                        | 5530.0                      | LP_Signal_09     | Yes       |
| 10      | 6                        | 5530.0                      | LP_Signal_10     | Yes       |
| 11      | 16                       | 5498.2                      | LP_Signal_11     | Yes       |
| 12      | 19                       | 5499.4                      | LP_Signal_12     | Yes       |
| 13      | 13                       | 5497.0                      | LP_Signal_13     | Yes       |
| 14      | 10                       | 5495.8                      | LP_Signal_14     | Yes       |
| 15      | 18                       | 5499.0                      | LP_Signal_15     | Yes       |
| 16      | 12                       | 5496.6                      | LP_Signal_16     | Yes       |
| 17      | 20                       | 5499.8                      | LP_Signal_17     | Yes       |
| 18      | 10                       | 5495.8                      | LP_Signal_18     | Yes       |
| 19      | 12                       | 5496.6                      | LP_Signal_19     | Yes       |
| 20      | 10                       | 5495.8                      | LP_Signal_20     | Yes       |
| 21      | 15                       | 5562.3                      | LP_Signal_21     | Yes       |
| 22      | 9                        | 5564.7                      | LP_Signal_22     | Yes       |
| 23      | 20                       | 5560.3                      | LP_Signal_23     | Yes       |
| 24      | 12                       | 5563.5                      | LP_Signal_24     | Yes       |
| 25      | 11                       | 5563.9                      | LP_Signal_25     | Yes       |
| 26      | 5                        | 5566.3                      | LP_Signal_26     | Yes       |
| 27      | 16                       | 5561.9                      | LP_Signal_27     | Yes       |
| 28      | 19                       | 5560.7                      | LP_Signal_28     | Yes       |
| 29      | 10                       | 5564.3                      | LP_Signal_29     | Yes       |
| 30      | 17                       | 5561.5                      | LP_Signal_30     | Yes       |

Detection Rate: 100 %

The Long Pulse Radar pattern shown in Appendix A.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 Appendix A.2

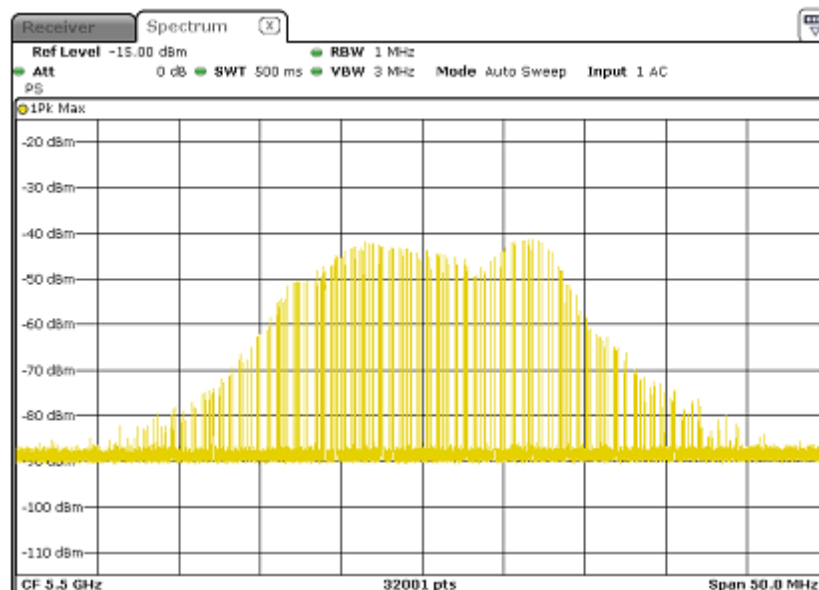
## 6.2.5 Non- Occupancy Period

### 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.

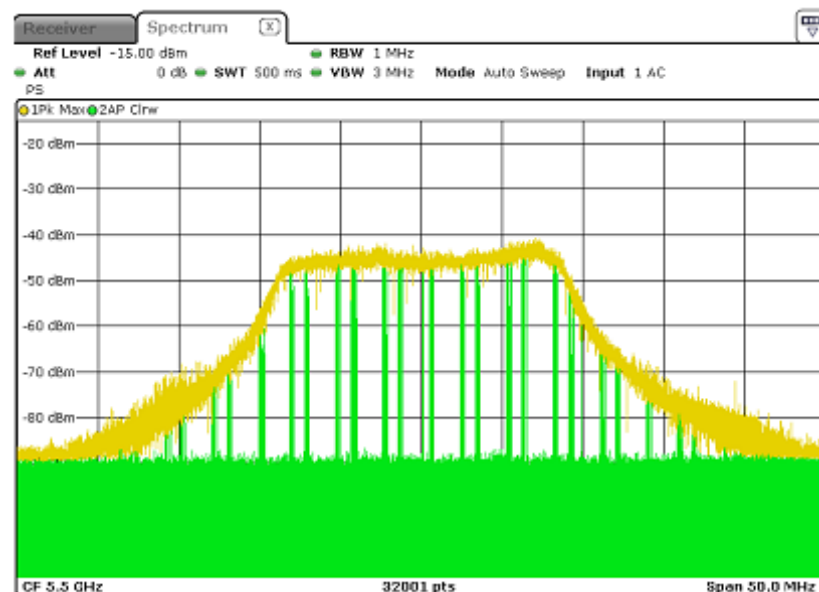
- 1) EUT (Master) links with Client on 5500MHz.

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.

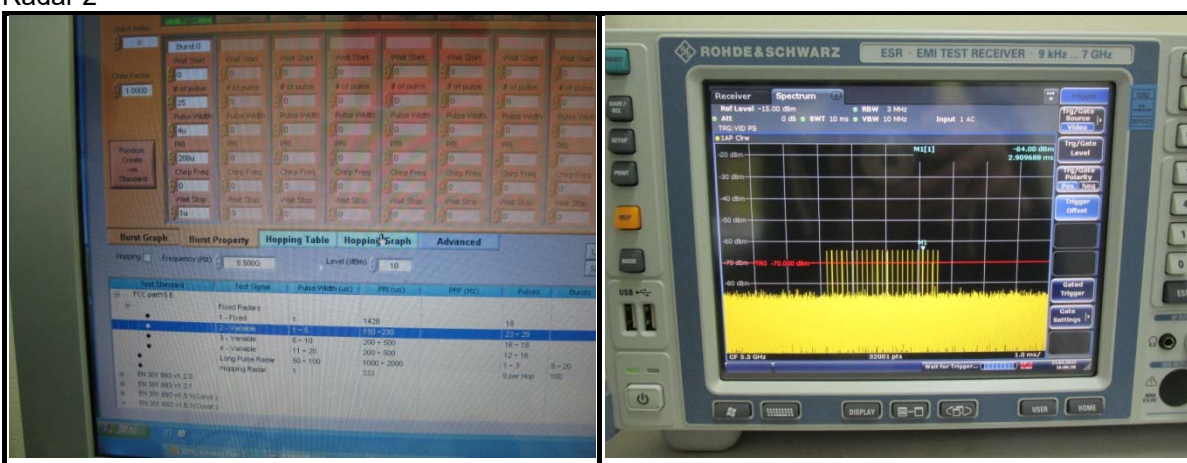
## Radar 0



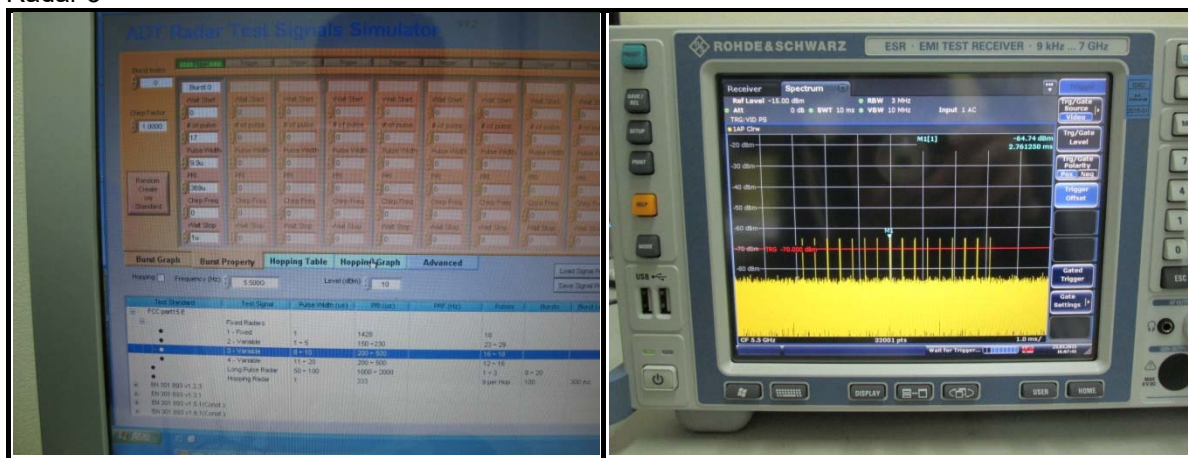
### Radar 1



## Radar 2



Radar 3



Radar 4



Radar 5



## Radar 6

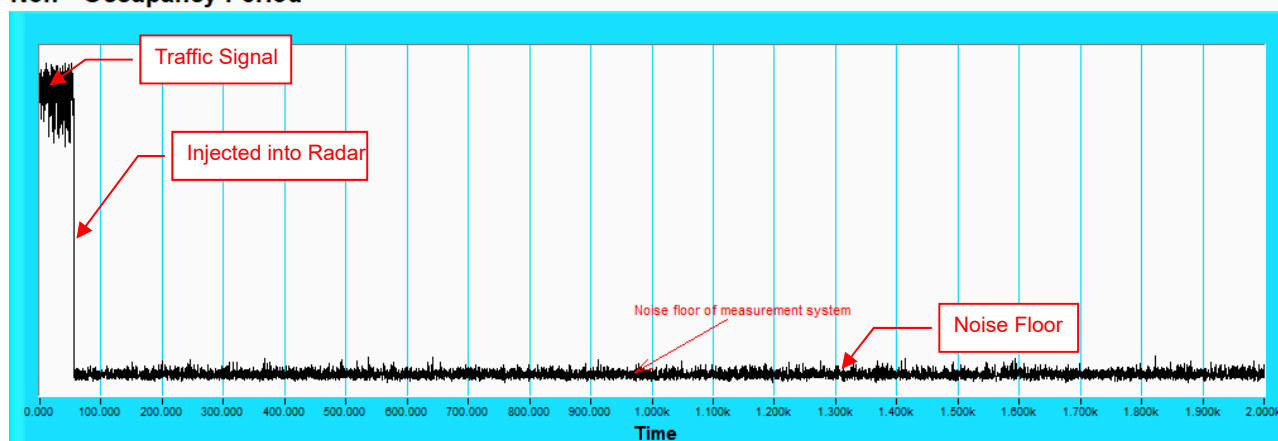


4) 5500MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

802.11ac VHT20

Non - Occupancy Period



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

## 6.2.6 Uniform Spreading

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The EUT randomly select next output channel without any bias or fixed pattern, so that all channels in DFS bands (5250 to 5350MHz and 5470 to 5725 MHz) will be used equally.

## 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 according to ISO/IEC 17025.

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

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

## 8. APPENDIX-A

### RADAR TEST SIGNAL

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

##### 802.11ac (VHT20)

| Long Pulse Radar Test Signal     |                  |             |                 |            |            |            |
|----------------------------------|------------------|-------------|-----------------|------------|------------|------------|
| Test Signal Name: LP_Signal_01   |                  |             |                 |            |            |            |
| Number of Bursts in Trial: 15    |                  |             |                 |            |            |            |
| Chrip Center Frequency 5500.0MHz |                  |             |                 |            |            |            |
| Burst                            | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 1                                | 2                | 11          | 77.8            | 1665.0     | 1477.0     | -          |
| 2                                | 1                | 11          | 51.9            | 1074.0     | -          | -          |
| 3                                | 1                | 11          | 63.8            | 1584.0     | -          | -          |
| 4                                | 3                | 11          | 96.6            | 1682.0     | 1786.0     | 1843.0     |
| 5                                | 3                | 11          | 85.9            | 1795.0     | 1215.0     | 1729.0     |
| 6                                | 2                | 11          | 73.7            | 1198.0     | 1549.0     | -          |
| 7                                | 2                | 11          | 77.2            | 1837.0     | 1819.0     | -          |
| 8                                | 2                | 11          | 68.4            | 1587.0     | 1114.0     | -          |
| 9                                | 2                | 11          | 76.7            | 2000.0     | 1155.0     | -          |
| 10                               | 1                | 11          | 53.2            | 1147.0     | -          | -          |
| 11                               | 3                | 11          | 85.7            | 1433.0     | 1695.0     | 1394.0     |
| 12                               | 3                | 11          | 94.3            | 1670.0     | 1426.0     | 1935.0     |
| 13                               | 2                | 11          | 77.6            | 1294.0     | 1671.0     | -          |
| 14                               | 1                | 11          | 65.7            | 1512.0     | -          | -          |
| 15                               | 3                | 11          | 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

Chrip Center Frequency: 5500.0MHz

| Burst | Pulses<br>per Burst | Chrip<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 2                   | 19             | 75.0               | 1880.0     | 1527.0     | -          |
| 2     | 3                   | 19             | 99.4               | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                   | 19             | 67.4               | 1531.0     | 1403.0     | -          |
| 4     | 2                   | 19             | 73.6               | 1449.0     | 1041.0     | -          |
| 5     | 1                   | 19             | 65.9               | 1432.0     | -          | -          |
| 6     | 3                   | 19             | 83.8               | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                   | 19             | 65.5               | 1543.0     | -          | -          |
| 8     | 3                   | 19             | 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: 5500.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 2                   | 16             | 73.8               | 1806.0     | 1538.0     | -          |
| 2     | 2                   | 16             | 69.5               | 1117.0     | 1649.0     | -          |
| 3     | 1                   | 16             | 51.9               | 1651.0     | -          | -          |
| 4     | 3                   | 16             | 84.6               | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                   | 16             | 95.4               | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                   | 16             | 68.0               | 1368.0     | 1351.0     | -          |
| 7     | 3                   | 16             | 89.6               | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                   | 16             | 81.9               | 1022.0     | 1689.0     | -          |
| 9     | 3                   | 16             | 88.3               | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                   | 16             | 53.7               | 1597.0     | -          | -          |
| 11    | 3                   | 16             | 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: 5500.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 8           | 68.1            | 1339.0     | 1355.0     | -          |
| 2     | 1                | 8           | 58.7            | 1251.0     | -          | -          |
| 3     | 2                | 8           | 75.3            | 1136.0     | 1640.0     | -          |
| 4     | 1                | 8           | 56.4            | 1753.0     | -          | -          |
| 5     | 3                | 8           | 99.7            | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                | 8           | 57.7            | 1013.0     | -          | -          |
| 7     | 1                | 8           | 59.5            | 1072.0     | -          | -          |
| 8     | 2                | 8           | 80.0            | 1482.0     | 1369.0     | -          |
| 9     | 2                | 8           | 82.0            | 1993.0     | 1197.0     | -          |
| 10    | 2                | 8           | 82.8            | 1883.0     | 1005.0     | -          |
| 11    | 3                | 8           | 88.0            | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                | 8           | 93.2            | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                | 8           | 70.4            | 1526.0     | 1360.0     | -          |
| 14    | 3                | 8           | 95.3            | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                | 8           | 81.9            | 1690.0     | 1545.0     | -          |
| 16    | 3                | 8           | 98.5            | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                | 8           | 65.0            | 1767.0     | -          | -          |
| 18    | 3                | 8           | 85.4            | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                | 8           | 91.6            | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                | 8           | 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: 5500.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 11          | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 11          | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 11          | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 11          | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 11          | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 11          | 83.9            | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                | 11          | 89.1            | 1240.0     | 1384.0     | 1939.0     |
| 8     | 2                | 11          | 81.8            | 1833.0     | 1676.0     | -          |
| 9     | 1                | 11          | 50.3            | 1075.0     | -          | -          |
| 10    | 3                | 11          | 87.1            | 1116.0     | 1996.0     | 1756.0     |
| 11    | 2                | 11          | 71.3            | 1225.0     | 1815.0     | -          |
| 12    | 3                | 11          | 97.5            | 1884.0     | 1465.0     | 1132.0     |
| 13    | 3                | 11          | 90.6            | 1561.0     | 1040.0     | 1354.0     |
| 14    | 3                | 11          | 86.3            | 1596.0     | 1183.0     | 1792.0     |
| 15    | 3                | 11          | 97.6            | 1365.0     | 1073.0     | 1361.0     |
| 16    | 3                | 11          | 84.7            | 1021.0     | 1718.0     | 1854.0     |
| 17    | 3                | 11          | 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: 5500.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 3                   | 8              | 92.9               | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                   | 8              | 67.7               | 1744.0     | 1747.0     | -          |
| 3     | 1                   | 8              | 65.8               | 1092.0     | -          | -          |
| 4     | 1                   | 8              | 56.3               | 1851.0     | -          | -          |
| 5     | 1                   | 8              | 53.7               | 1727.0     | -          | -          |
| 6     | 3                   | 8              | 83.5               | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                   | 8              | 65.8               | 1519.0     | -          | -          |
| 8     | 3                   | 8              | 85.9               | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                   | 8              | 76.3               | 1606.0     | 1926.0     | -          |
| 10    | 2                   | 8              | 81.5               | 1891.0     | 1714.0     | -          |
| 11    | 3                   | 8              | 89.4               | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                   | 8              | 63.4               | 1568.0     | -          | -          |
| 13    | 2                   | 8              | 69.6               | 1307.0     | 1925.0     | -          |
| 14    | 2                   | 8              | 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: 5500.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 3                   | 9              | 96.6               | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                   | 9              | 96.7               | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                   | 9              | 86.5               | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                   | 9              | 73.3               | 1908.0     | 1318.0     | -          |
| 5     | 1                   | 9              | 55.8               | 1688.0     | -          | -          |
| 6     | 1                   | 9              | 55.4               | 1145.0     | -          | -          |
| 7     | 3                   | 9              | 85.3               | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                   | 9              | 79.4               | 1344.0     | 1893.0     | -          |
| 9     | 1                   | 9              | 65.7               | 1476.0     | -          | -          |
| 10    | 2                   | 9              | 68.6               | 1008.0     | 1028.0     | -          |
| 11    | 2                   | 9              | 77.7               | 1972.0     | 1835.0     | -          |
| 12    | 2                   | 9              | 79.6               | 1882.0     | 1331.0     | -          |
| 13    | 3                   | 9              | 94.9               | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                   | 9              | 61.4               | 1451.0     | -          | -          |
| 15    | 3                   | 9              | 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: 5500.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5500.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 1                   | 10             | 54.1               | 1415.0     | -          | -          |
| 2     | 1                   | 10             | 50.7               | 1221.0     | -          | -          |
| 3     | 1                   | 10             | 52.3               | 1974.0     | -          | -          |
| 4     | 3                   | 10             | 99.8               | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                   | 10             | 68.4               | 1014.0     | 1099.0     | -          |
| 6     | 2                   | 10             | 80.8               | 1736.0     | 1505.0     | -          |
| 7     | 1                   | 10             | 62.5               | 1778.0     | -          | -          |
| 8     | 2                   | 10             | 74.8               | 1149.0     | 1204.0     | -          |
| 9     | 1                   | 10             | 50.8               | 1049.0     | -          | -          |
| 10    | 1                   | 10             | 54.0               | 1417.0     | -          | -          |
| 11    | 1                   | 10             | 63.0               | 1730.0     | -          | -          |
| 12    | 3                   | 10             | 91.8               | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                   | 10             | 79.3               | 1274.0     | 1992.0     | -          |
| 14    | 1                   | 10             | 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: 5500.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 11          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 11          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 11          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 11          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 11          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 11          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 11          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 11          | 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: 5497.2 MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5498.4 MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5496.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5494.8MHz

| 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: 5498.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.6MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5498.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5494.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.6MHz

| 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: 5494.8MHz

| 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

Chrip Center Frequency: 5503.3MHz

| Burst | Pulses per Burst | Chrip (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: 5505.7MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5501.3MHz

| 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: 5504.5MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5504.9MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5507.3MHz

| 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

Chrip Center Frequency: 5502.9MHz

| Burst | Pulses per Burst | Chrip (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: 5501.7MHz

| 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: 5505.3MHz

| 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

Chirp Center Frequency: 5502.5MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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    |                     |                |                    |            |            |            |

## 802.11ac (VHT40)

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

Number of Bursts in Trial: 15

Chirp Center Frequency 5510.0MHz

| 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

Chrip Center Frequency: 5510.0MHz

| Burst | Pulses<br>per Burst | Chrip<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 2                   | 20             | 75.0               | 1880.0     | 1527.0     | -          |
| 2     | 3                   | 20             | 99.4               | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                   | 20             | 67.4               | 1531.0     | 1403.0     | -          |
| 4     | 2                   | 20             | 73.6               | 1449.0     | 1041.0     | -          |
| 5     | 1                   | 20             | 65.9               | 1432.0     | -          | -          |
| 6     | 3                   | 20             | 83.8               | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                   | 20             | 65.5               | 1543.0     | -          | -          |
| 8     | 3                   | 20             | 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

Chrip Center Frequency: 5510.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 19          | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 19          | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 19          | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 19          | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 19          | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 19          | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 19          | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 19          | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 19          | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 19          | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 19          | 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: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 2                   | 18             | 68.1               | 1339.0     | 1355.0     | -          |
| 2     | 1                   | 18             | 58.7               | 1251.0     | -          | -          |
| 3     | 2                   | 18             | 75.3               | 1136.0     | 1640.0     | -          |
| 4     | 1                   | 18             | 56.4               | 1753.0     | -          | -          |
| 5     | 3                   | 18             | 99.7               | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                   | 18             | 57.7               | 1013.0     | -          | -          |
| 7     | 1                   | 18             | 59.5               | 1072.0     | -          | -          |
| 8     | 2                   | 18             | 80.0               | 1482.0     | 1369.0     | -          |
| 9     | 2                   | 18             | 82.0               | 1993.0     | 1197.0     | -          |
| 10    | 2                   | 18             | 82.8               | 1883.0     | 1005.0     | -          |
| 11    | 3                   | 18             | 88.0               | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                   | 18             | 93.2               | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                   | 18             | 70.4               | 1526.0     | 1360.0     | -          |
| 14    | 3                   | 18             | 95.3               | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                   | 18             | 81.9               | 1690.0     | 1545.0     | -          |
| 16    | 3                   | 18             | 98.5               | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                   | 18             | 65.0               | 1767.0     | -          | -          |
| 18    | 3                   | 18             | 85.4               | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                   | 18             | 91.6               | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                   | 18             | 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: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 2                   | 10             | 67.9               | 1320.0     | 1133.0     | -          |
| 2     | 1                   | 10             | 62.3               | 1957.0     | -          | -          |
| 3     | 1                   | 10             | 53.3               | 1592.0     | -          | -          |
| 4     | 3                   | 10             | 90.0               | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                   | 10             | 77.1               | 1166.0     | 1646.0     | -          |
| 6     | 3                   | 10             | 83.9               | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                   | 10             | 89.1               | 1240.0     | 1384.0     | 1939.0     |
| 8     | 2                   | 10             | 81.8               | 1833.0     | 1676.0     | -          |
| 9     | 1                   | 10             | 50.3               | 1075.0     | -          | -          |
| 10    | 3                   | 10             | 87.1               | 1116.0     | 1996.0     | 1756.0     |
| 11    | 2                   | 10             | 71.3               | 1225.0     | 1815.0     | -          |
| 12    | 3                   | 10             | 97.5               | 1884.0     | 1465.0     | 1132.0     |
| 13    | 3                   | 10             | 90.6               | 1561.0     | 1040.0     | 1354.0     |
| 14    | 3                   | 10             | 86.3               | 1596.0     | 1183.0     | 1792.0     |
| 15    | 3                   | 10             | 97.6               | 1365.0     | 1073.0     | 1361.0     |
| 16    | 3                   | 10             | 84.7               | 1021.0     | 1718.0     | 1854.0     |
| 17    | 3                   | 10             | 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: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 3                   | 18             | 92.9               | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                   | 18             | 67.7               | 1744.0     | 1747.0     | -          |
| 3     | 1                   | 18             | 65.8               | 1092.0     | -          | -          |
| 4     | 1                   | 18             | 56.3               | 1851.0     | -          | -          |
| 5     | 1                   | 18             | 53.7               | 1727.0     | -          | -          |
| 6     | 3                   | 18             | 83.5               | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                   | 18             | 65.8               | 1519.0     | -          | -          |
| 8     | 3                   | 18             | 85.9               | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                   | 18             | 76.3               | 1606.0     | 1926.0     | -          |
| 10    | 2                   | 18             | 81.5               | 1891.0     | 1714.0     | -          |
| 11    | 3                   | 18             | 89.4               | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                   | 18             | 63.4               | 1568.0     | -          | -          |
| 13    | 2                   | 18             | 69.6               | 1307.0     | 1925.0     | -          |
| 14    | 2                   | 18             | 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: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 3                   | 10             | 96.6               | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                   | 10             | 96.7               | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                   | 10             | 86.5               | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                   | 10             | 73.3               | 1908.0     | 1318.0     | -          |
| 5     | 1                   | 10             | 55.8               | 1688.0     | -          | -          |
| 6     | 1                   | 10             | 55.4               | 1145.0     | -          | -          |
| 7     | 3                   | 10             | 85.3               | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                   | 10             | 79.4               | 1344.0     | 1893.0     | -          |
| 9     | 1                   | 10             | 65.7               | 1476.0     | -          | -          |
| 10    | 2                   | 10             | 68.6               | 1008.0     | 1028.0     | -          |
| 11    | 2                   | 10             | 77.7               | 1972.0     | 1835.0     | -          |
| 12    | 2                   | 10             | 79.6               | 1882.0     | 1331.0     | -          |
| 13    | 3                   | 10             | 94.9               | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                   | 10             | 61.4               | 1451.0     | -          | -          |
| 15    | 3                   | 10             | 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: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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

Chirp Center Frequency: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 1                   | 7              | 54.1               | 1415.0     | -          | -          |
| 2     | 1                   | 7              | 50.7               | 1221.0     | -          | -          |
| 3     | 1                   | 7              | 52.3               | 1974.0     | -          | -          |
| 4     | 3                   | 7              | 99.8               | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                   | 7              | 68.4               | 1014.0     | 1099.0     | -          |
| 6     | 2                   | 7              | 80.8               | 1736.0     | 1505.0     | -          |
| 7     | 1                   | 7              | 62.5               | 1778.0     | -          | -          |
| 8     | 2                   | 7              | 74.8               | 1149.0     | 1204.0     | -          |
| 9     | 1                   | 7              | 50.8               | 1049.0     | -          | -          |
| 10    | 1                   | 7              | 54.0               | 1417.0     | -          | -          |
| 11    | 1                   | 7              | 63.0               | 1730.0     | -          | -          |
| 12    | 3                   | 7              | 91.8               | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                   | 7              | 79.3               | 1274.0     | 1992.0     | -          |
| 14    | 1                   | 7              | 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: 5510.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 1                   | 16             | 63.4               | 1043.0     | -          | -          |
| 2     | 1                   | 16             | 52.0               | 1863.0     | -          | -          |
| 3     | 3                   | 16             | 97.2               | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                   | 16             | 78.7               | 1466.0     | 1743.0     | -          |
| 5     | 2                   | 16             | 74.2               | 1280.0     | 1219.0     | -          |
| 6     | 3                   | 16             | 88.7               | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                   | 16             | 54.3               | 1991.0     | -          | -          |
| 8     | 3                   | 16             | 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: 5498.2MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5499.4MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5497.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5499.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5496.6MHz

| 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: 5499.8MHz

| 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: 5495.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5496.6MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.8MHz

| Burst | Pulses per Burst | Chrip (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: 5522.3MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5524.7MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5520.3MHz

| 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: 5523.5MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5523.9MHz

| 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: 5526.3MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5521.9MHz

| 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: 5520.7MHz

| 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: 5524.3MHz

| 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

Chirp Center Frequency: 5521.5MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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 5530.0MHz

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

Chrip Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 11          | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 11          | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 11          | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 11          | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 11          | 65.9            | 1432.0     | -          | -          |
| 6     | 3                | 11          | 83.8            | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                | 11          | 65.5            | 1543.0     | -          | -          |
| 8     | 3                | 11          | 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: 5530.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 2                   | 20             | 73.8               | 1806.0     | 1538.0     | -          |
| 2     | 2                   | 20             | 69.5               | 1117.0     | 1649.0     | -          |
| 3     | 1                   | 20             | 51.9               | 1651.0     | -          | -          |
| 4     | 3                   | 20             | 84.6               | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                   | 20             | 95.4               | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                   | 20             | 68.0               | 1368.0     | 1351.0     | -          |
| 7     | 3                   | 20             | 89.6               | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                   | 20             | 81.9               | 1022.0     | 1689.0     | -          |
| 9     | 3                   | 20             | 88.3               | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                   | 20             | 53.7               | 1597.0     | -          | -          |
| 11    | 3                   | 20             | 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: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 19          | 68.1            | 1339.0     | 1355.0     | -          |
| 2     | 1                | 19          | 58.7            | 1251.0     | -          | -          |
| 3     | 2                | 19          | 75.3            | 1136.0     | 1640.0     | -          |
| 4     | 1                | 19          | 56.4            | 1753.0     | -          | -          |
| 5     | 3                | 19          | 99.7            | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                | 19          | 57.7            | 1013.0     | -          | -          |
| 7     | 1                | 19          | 59.5            | 1072.0     | -          | -          |
| 8     | 2                | 19          | 80.0            | 1482.0     | 1369.0     | -          |
| 9     | 2                | 19          | 82.0            | 1993.0     | 1197.0     | -          |
| 10    | 2                | 19          | 82.8            | 1883.0     | 1005.0     | -          |
| 11    | 3                | 19          | 88.0            | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                | 19          | 93.2            | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                | 19          | 70.4            | 1526.0     | 1360.0     | -          |
| 14    | 3                | 19          | 95.3            | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                | 19          | 81.9            | 1690.0     | 1545.0     | -          |
| 16    | 3                | 19          | 98.5            | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                | 19          | 65.0            | 1767.0     | -          | -          |
| 18    | 3                | 19          | 85.4            | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                | 19          | 91.6            | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                | 19          | 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: 5530.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5530.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|---------------------|----------------|--------------------|------------|------------|------------|
| 1     | 3                   | 14             | 92.9               | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                   | 14             | 67.7               | 1744.0     | 1747.0     | -          |
| 3     | 1                   | 14             | 65.8               | 1092.0     | -          | -          |
| 4     | 1                   | 14             | 56.3               | 1851.0     | -          | -          |
| 5     | 1                   | 14             | 53.7               | 1727.0     | -          | -          |
| 6     | 3                   | 14             | 83.5               | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                   | 14             | 65.8               | 1519.0     | -          | -          |
| 8     | 3                   | 14             | 85.9               | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                   | 14             | 76.3               | 1606.0     | 1926.0     | -          |
| 10    | 2                   | 14             | 81.5               | 1891.0     | 1714.0     | -          |
| 11    | 3                   | 14             | 89.4               | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                   | 14             | 63.4               | 1568.0     | -          | -          |
| 13    | 2                   | 14             | 69.6               | 1307.0     | 1925.0     | -          |
| 14    | 2                   | 14             | 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: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 16          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 16          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 16          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 16          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 16          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 16          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 16          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 16          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 16          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 16          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 16          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 16          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 16          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 16          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 16          | 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: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 9           | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 9           | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 9           | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 9           | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 9           | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 9           | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 9           | 67.6            | 1175.0     | 1027.0     | -          |
| 8     | 2                | 9           | 75.7            | 1026.0     | 1871.0     | -          |
| 9     | 1                | 9           | 60.9            | 1798.0     | -          | -          |
| 10    | 1                | 9           | 64.2            | 1138.0     | -          | -          |
| 11    | 2                | 9           | 78.8            | 1784.0     | 1604.0     | -          |
| 12    | 3                | 9           | 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: 5530.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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

Chirp Center Frequency: 5530.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5498.2MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5499.4MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5497.0MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5499.0MHz

| 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: 5496.6MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5499.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.8MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5496.6MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5495.8MHz

| Burst | Pulses<br>per Burst | Chrip<br>(MHz) | Pulse<br>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: 5562.3MHz

| 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: 5564.7MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5560.3MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5563.5MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5563.9MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5566.3MHz

| 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: 5561.9MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5560.7MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5564.3MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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: 5561.5MHz

| Burst | Pulses<br>per Burst | Chirp<br>(MHz) | Pulse<br>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

### 802.11ac (VHT20)

| 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         |

## 802.11ac (VHT40)

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         |

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