

## DFS Test Report

**Report No.:** RFBDYS-WTW-P21030161A-1

**FCC ID:** Q6G-AP430CR

**Test Model:** AP430CR

**Received Date:** Oct. 07, 2021

**Test Date:** Oct. 26 ~ Nov. 02, 2021

**Issued Date:** Nov. 22, 2021

**Applicant:** WatchGuard Technologies, Inc.

**Address:** 505 Fifth Avenue South, Suite 500 Seattle WA United States 98104

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

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33383, Taiwan

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



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### Release Control Record

| Issue No.               | Description       | Date Issued   |
|-------------------------|-------------------|---------------|
| RFBDYS-WTW-P21030161A-1 | Original release. | Nov. 22, 2021 |

## 1 Certificate of Conformity

**Product:** Wireless Access Point

**Brand:** WatchGuard

**Test Model:** AP430CR

**Sample Status:** Engineering sample

**Applicant:** WatchGuard Technologies, Inc.

**Test Date:** Oct. 26 ~ Nov. 02 , 2021

**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 :** Pettie Chen , **Date:** Nov. 22, 2021  
Pettie Chen / Senior Specialist

**Approved by :** Jeremy Lin , **Date:** Nov. 22, 2021  
Jeremy Lin / Senior Engineer

## 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               | Test Model No. | Firmware Version |
|-----|-----------------------|----------------|------------------|
| 1   | Wireless Access Point | AP430CR        | 9.0.1.6          |

### 2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

| ANT No. | Antenna Type | Operation Frequency Range (MHz) | Gain (dBi) |
|---------|--------------|---------------------------------|------------|
| 1       | Dipole       | 5250~5350                       | 6.7        |
| 1       | Dipole       | 5470~5725                       | 7.2        |
| 2       | Dipole       | 5250~5350                       | 6.7        |
| 2       | Dipole       | 5470~5725                       | 7.2        |
| 3       | Dipole       | 5250~5350                       | 6.7        |
| 3       | Dipole       | 5470~5725                       | 7.2        |
| 4       | Dipole       | 5250~5350                       | 6.7        |
| 4       | Dipole       | 5470~5725                       | 7.2        |
| scan_1  | Dipole       | 5250~5350                       | 6.7        |
| scan_1  | Dipole       | 5470~5725                       | 7.2        |
| scan_2  | Dipole       | 5250~5350                       | 6.7        |
| scan_2  | Dipole       | 5470~5725                       | 7.2        |

Note:

Radio 2

5250~5350MHz Directional Gain = 6.7 dBi + 10log(4) = 12.72 dBi

5470~5725MHz Directional Gain = 7.2 dBi + 10log(4) = 13.22 dBi

Scan Radio

5250~5350MHz Directional Gain = 6.7 dBi + 10log(2) = 9.71 dBi

5470~5725MHz Directional Gain = 7.2 dBi + 10log(2) = 10.21 dBi

\* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

**Radio 2:**  
**CDD Mode**

802.11a

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 16.79             | 47.778           |
| 5470~5725            | 17.27             | 53.365           |

802.11ax (HE20)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 17.29             | 53.531           |
| 5470~5725            | 17.79             | 60.186           |

802.11ax (HE40)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 20.31             | 107.277          |
| 5470~5725            | 19.75             | 94.454           |

802.11ax (HE80)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 21.25             | 133.294          |
| 5470~5725            | 22.79             | 189.986          |

## Beamforming Mode

### 802.11ax (HE20)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 11.27             | 13.385           |
| 5470~5725            | 11.78             | 15.049           |

### 802.11ax (HE40)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 14.29             | 26.823           |
| 5470~5725            | 13.73             | 23.617           |

### 802.11ax (HE80)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 15.23             | 33.328           |
| 5470~5725            | 16.77             | 47.503           |

# Scanning radio:

## 802.11a

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 18.27             | 67.214           |
| 5470~5725            | 19.44             | 87.961           |

## 802.11ac (VHT20)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 18.29             | 67.402           |
| 5470~5725            | 19.59             | 91.017           |

## 802.11ac (VHT40)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 22.79             | 189.903          |
| 5470~5725            | 22.70             | 186.348          |

## 802.11ac (VHT80)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 14.07             | 25.511           |
| 5470~5725            | 22.46             | 176.360          |



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

Table 5: The EIRP Output Power List

### Radio 2: CDD Mode

#### 802.11a

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 23.49             | 223.357          |
| 5470~5725            | 24.47             | 279.898          |

#### 802.11ax (HE20)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 23.99             | 250.611          |
| 5470~5725            | 24.99             | 315.500          |

#### 802.11ax (HE40)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 27.01             | 502.343          |
| 5470~5725            | 26.95             | 495.450          |

#### 802.11ax (HE80)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 27.95             | 623.735          |
| 5470~5725            | 29.99             | 997.700          |

## Beamforming Mode

### 802.11ax (HE20)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 23.99             | 250.611          |
| 5470~5725            | 25.00             | 316.228          |

### 802.11ax (HE40)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 27.01             | 502.343          |
| 5470~5725            | 26.95             | 495.450          |

### 802.11ax (HE80)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 27.95             | 623.735          |
| 5470~5725            | 29.99             | 997.700          |

# Scanning radio:

## 802.11a

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 24.97             | 314.051          |
| 5470~5725            | 26.64             | 461.318          |

## 802.11ac (VHT20)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 24.99             | 315.500          |
| 5470~5725            | 26.79             | 477.529          |

## 802.11ac (VHT40)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 29.49             | 889.201          |
| 5470~5725            | 29.90             | 977.237          |

## 802.11ac (VHT80)

| Frequency Band (MHz) | Max. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 20.77             | 119.399          |
| 5470~5725            | 29.66             | 924.698          |

## 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.

### Radio 2:

Maximum EIRP of this device is **997.700mW** which greater than 500mW, therefore it's require TPC function.

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

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

### Scanning radio:

Maximum EIRP of this device is **977.237mW** which greater than 500mW, therefore it's require TPC function.

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

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

## 2.7 Statement of Manufacturer

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

### 3 U-NII DFS Rule Requirements

#### 3.1 Working Modes and Required Test Items

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

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

| Requirement                     | Operational Mode |                                |                             |
|---------------------------------|------------------|--------------------------------|-----------------------------|
|                                 | Master           | Client without radar detection | Client with radar detection |
| Non-Occupancy Period            | ✓                | ✓ note                         | ✓                           |
| DFS Detection Threshold         | ✓                | Not required                   | ✓                           |
| Channel Availability Check Time | ✓                | Not required                   | Not required                |
| U-NII Detection Bandwidth       | ✓                | Not required                   | ✓                           |

Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.

Table 7: Applicability of DFS Requirements during Normal Operation.

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

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

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

### 3.2 Test Limits and Radar Signal Parameters

#### Detection Threshold Values

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

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

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: DFS Response Requirement Values

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

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

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

## Parameters of DFS Test Signals

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

Table 10: Short Pulse Radar Test Waveforms

| Radar Type                  | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                                                                                                                                           | Number of Pulses                                                                                                                     | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|-----------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                           | 1                  | 1428                                                                                                                                                                                                                                                                                 | 18                                                                                                                                   | See Note 1                                 | See Note 1               |
| 1                           | 1                  | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 60%                                        | 30                       |
| 2                           | 1-5                | 150-230                                                                                                                                                                                                                                                                              | 23-29                                                                                                                                | 60%                                        | 30                       |
| 3                           | 6-10               | 200-500                                                                                                                                                                                                                                                                              | 16-18                                                                                                                                | 60%                                        | 30                       |
| 4                           | 11-20              | 200-500                                                                                                                                                                                                                                                                              | 12-16                                                                                                                                | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                                                                                                                                                      |                                                                                                                                      | 80%                                        | 120                      |

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Table 11: Long Pulse Radar Test Waveform

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

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

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

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

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

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

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

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

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

Table 12: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage Of Successful Detection | Minimum Number Of Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--------------------------------------------|--------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 70%                                        | 30                       |



## 4 Test & Support Equipment List

### 4.1 Test Instruments

Table 13: Test Instruments List

| Description       | Brand        | Model No.    | Serial No.          | Calibrated Date | Calibrated Until |
|-------------------|--------------|--------------|---------------------|-----------------|------------------|
| Spectrum analyzer | R&S          | ESR          | 101264              | Mar. 26, 2021   | Mar. 25, 2022    |
| Signal generator  | KEYSIGHT     | N5182B       | MY53052282          | Dec. 21, 2020   | Dec. 20, 2021    |
| Horn antenna      | Schwarzbeck  | BBHA 9120 D  | 209                 | Nov. 22, 2020   | Nov. 21, 2021    |
| RF coaxial cable  | HUBER SUHNER | SUCOFLEX 104 | CABLE-DFS-01-254644 | 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     | Spec. |
|-----|-----------------|-------|-----------|------------|-------|
| 1   | Wireless module | Intel | AX200     | PD9AX200NG | ---   |

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

Table 15: Software/Firmware Information.

| No. | Product         | Model No. | Software/Firmware Version |
|-----|-----------------|-----------|---------------------------|
| 1.  | Wireless module | AX200     | 21.80.2.1                 |

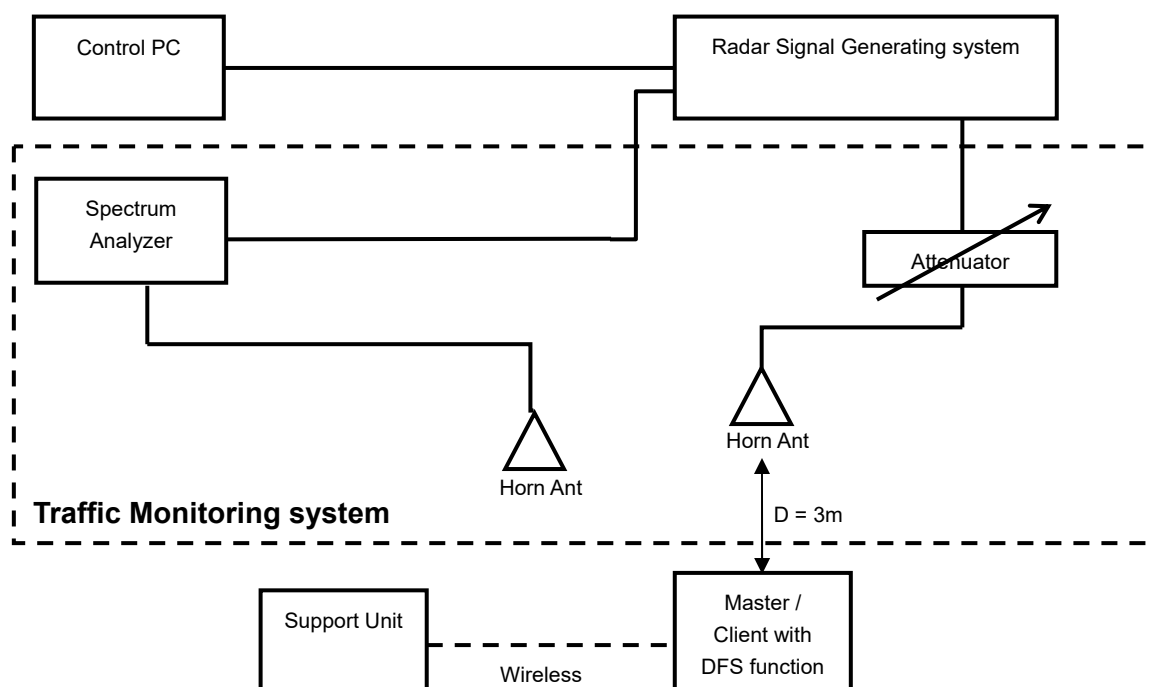
Note: This device No.1 was functioned as a ☐Master ☒Slave device during the DFS Master test.

## 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



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

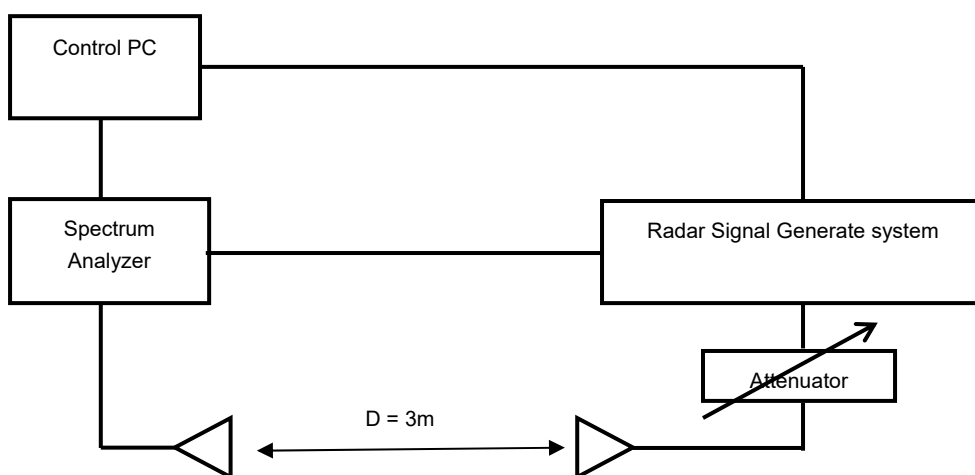
|   |                                                                                                                                                                            |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|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

## 5.2 Calibration of DFS Detection Threshold Level

The measured channel is 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.

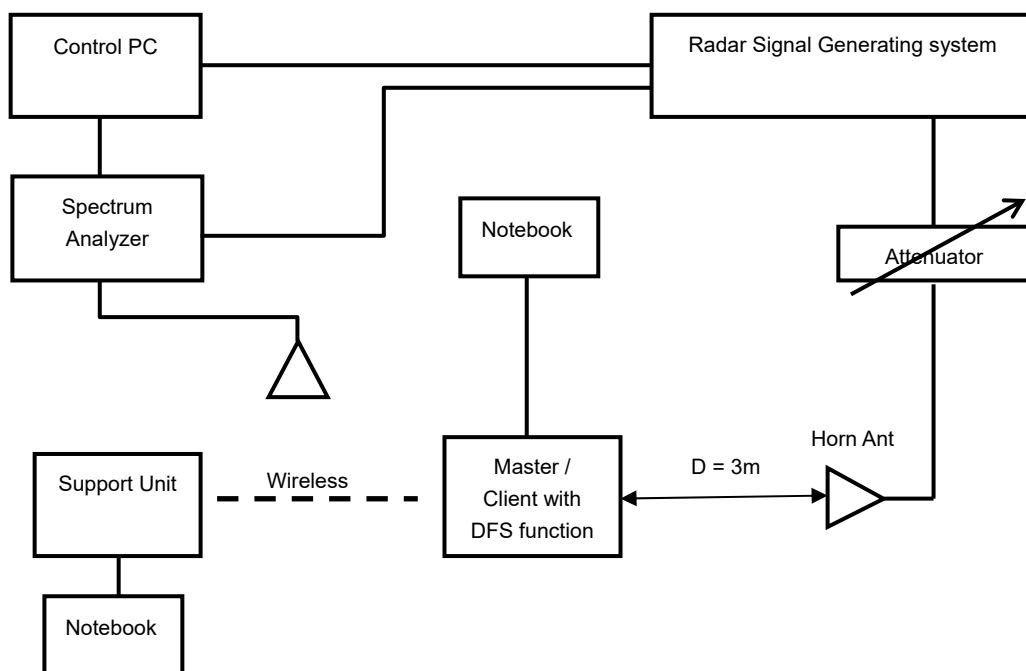


## 5.3 Deviation from Test Standard

No deviation.

## 5.4 Radiated Test Setup Configuration

### 5.4.1 Master Mode



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

## 6 Test Results

### 6.1 Summary of Test Results

#### 6.1.1 Master mode

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

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

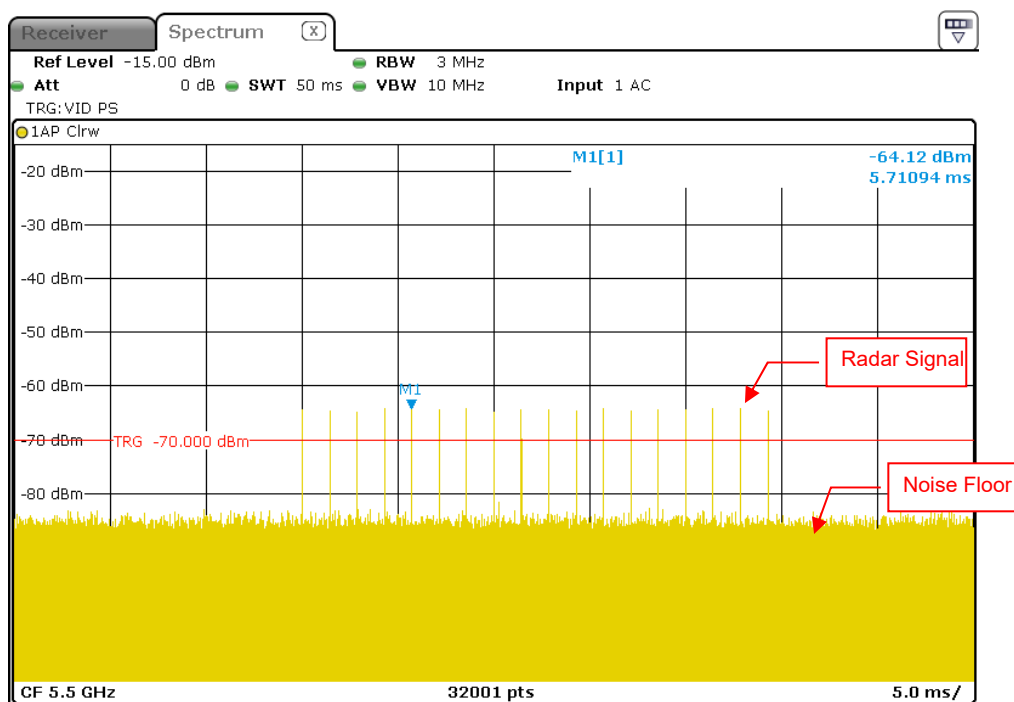
## 6.2 Test Results

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

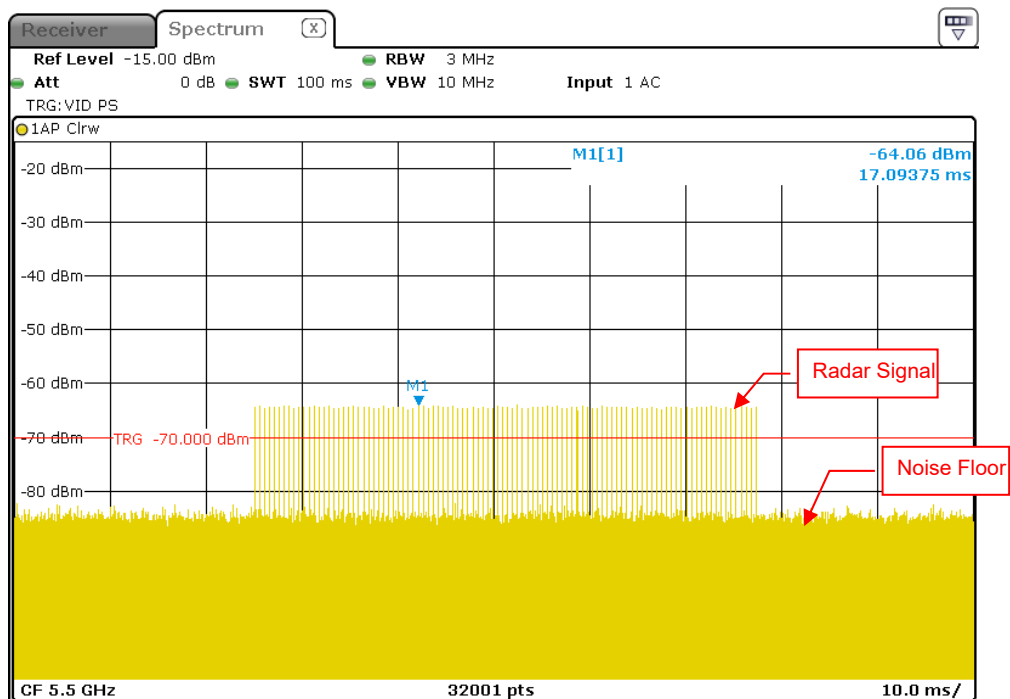
The radar test waveforms are injected into the Master.

#### DFS Detection Threshold

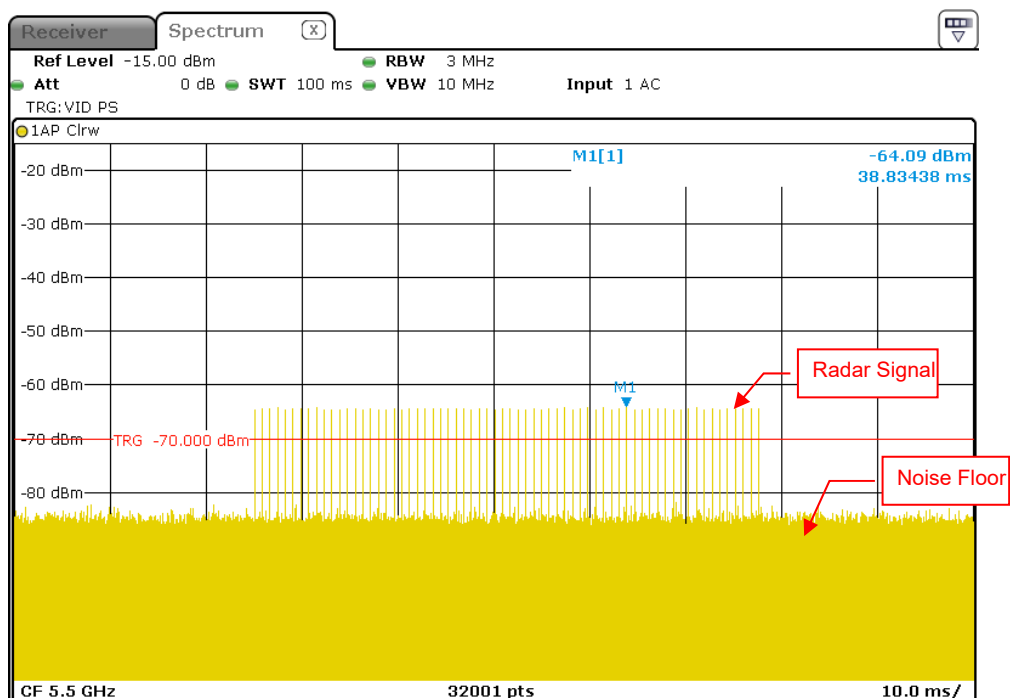
For detection threshold level of -64dBm, the tested level is lower than required level for 1dB, hence it provides margin to the limit.



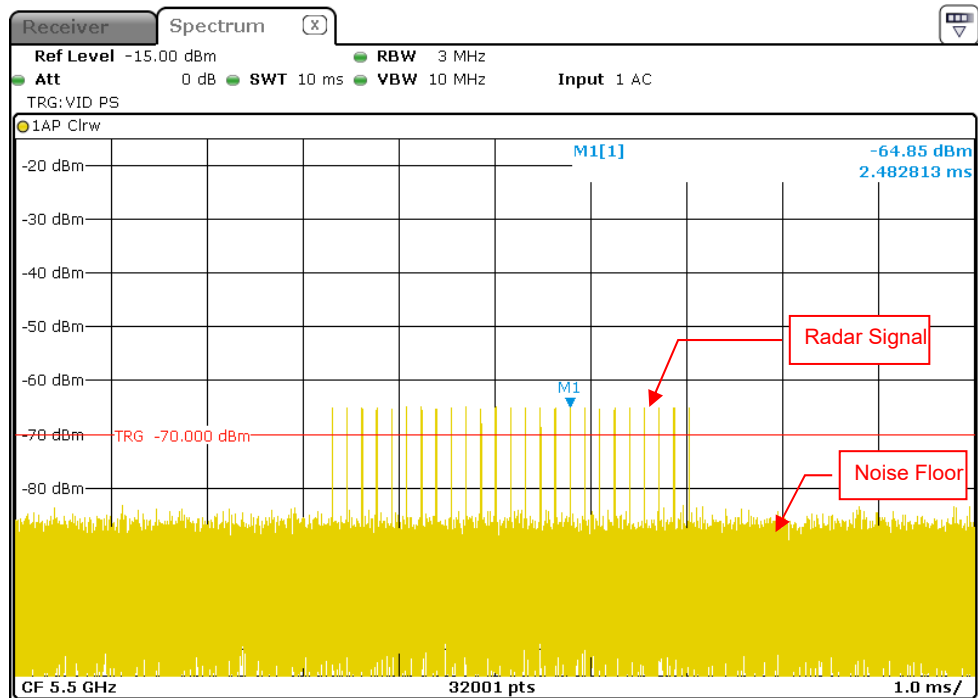
Radar Signal 0



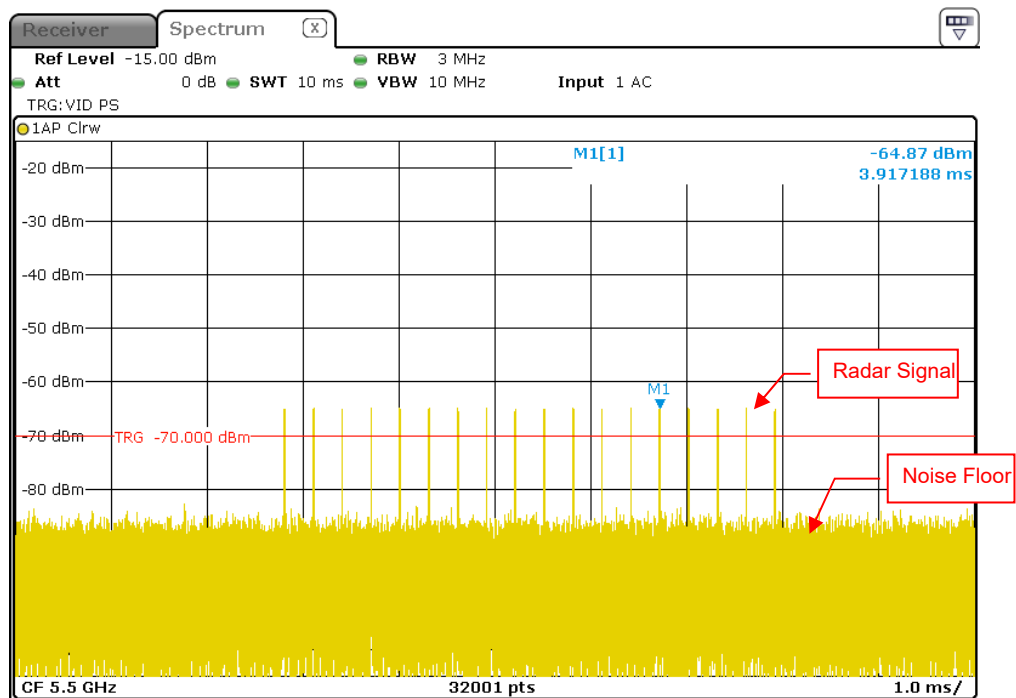
Radar Signal 1 (Test A)



Radar Signal 1 (Test B)

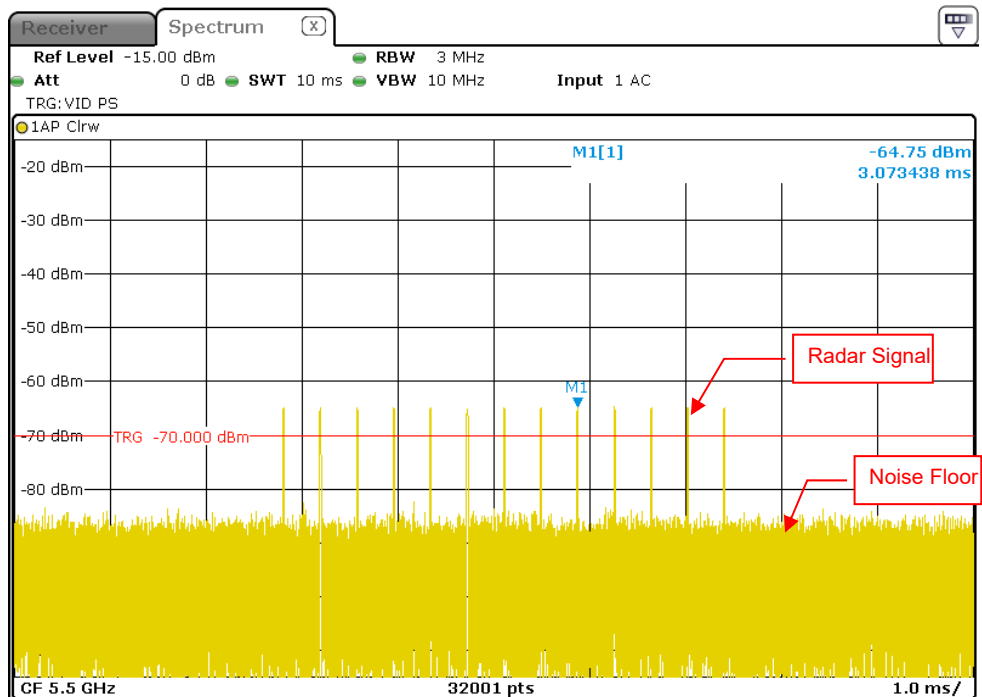


Radar Signal 2

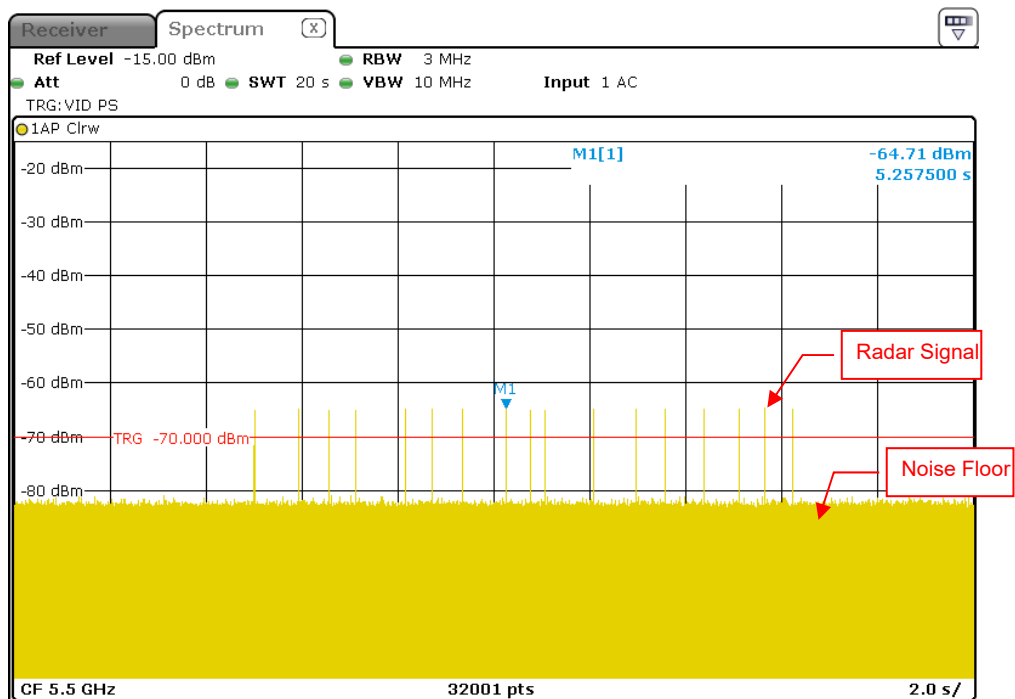


Radar Signal 3

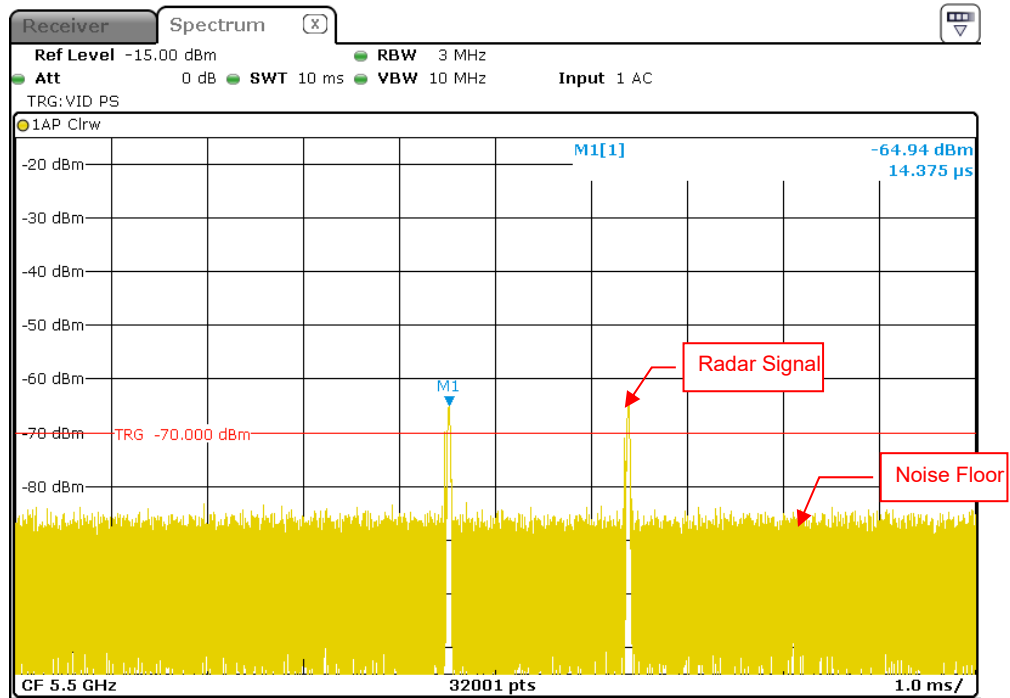




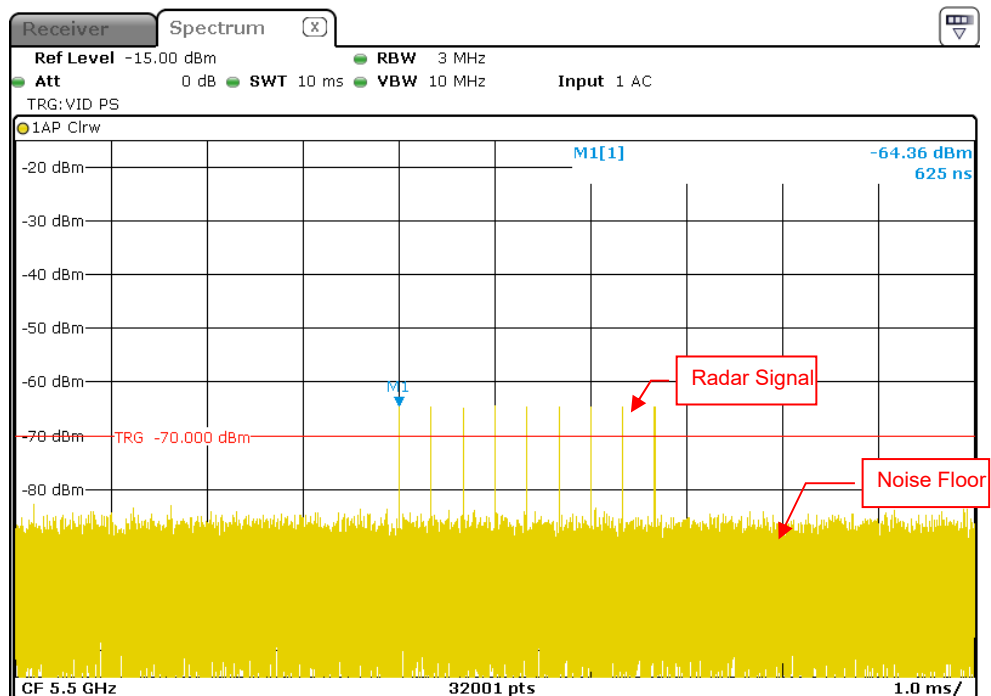
Radar Signal 4



Radar Signal 5



Single Burst of Radar Signal 5

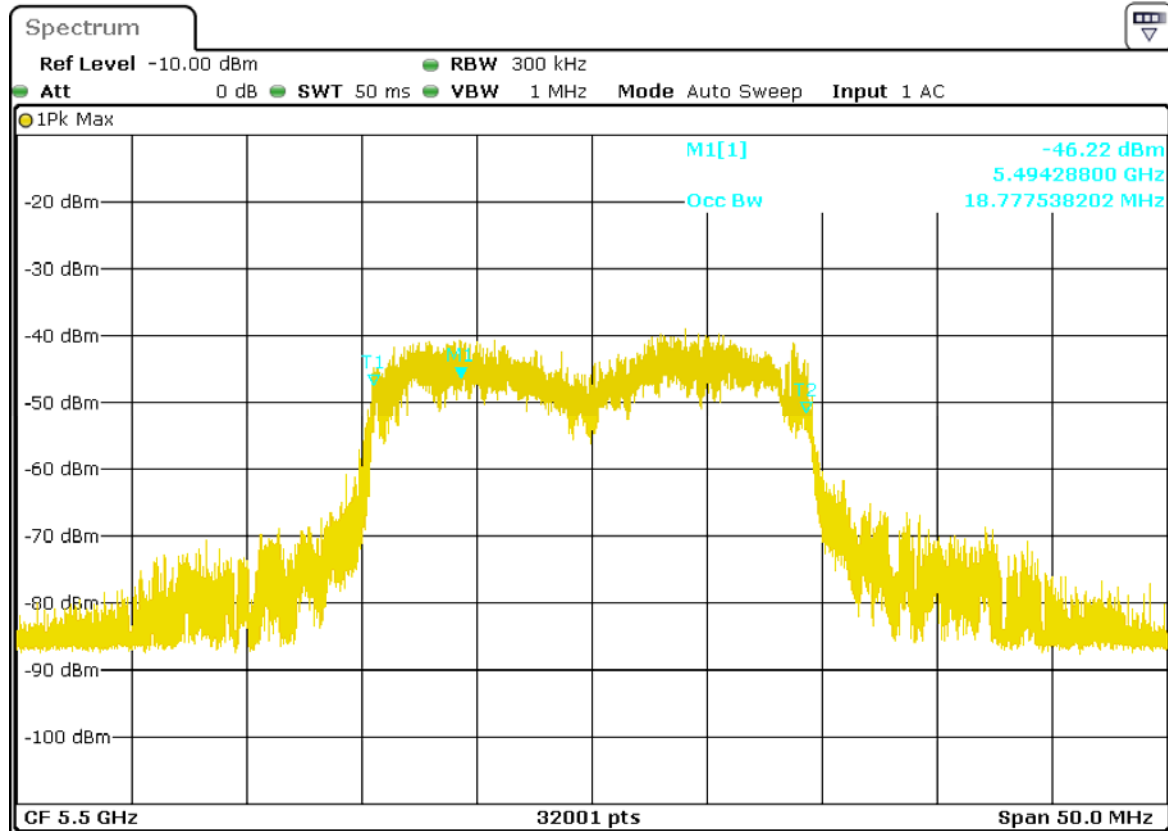


Radar Signal 6

## 6.2.2 U-NII Detection Bandwidth

Radio 2

IEEE 802.11ax (HE20)



U-NII 99% Channel bandwidth

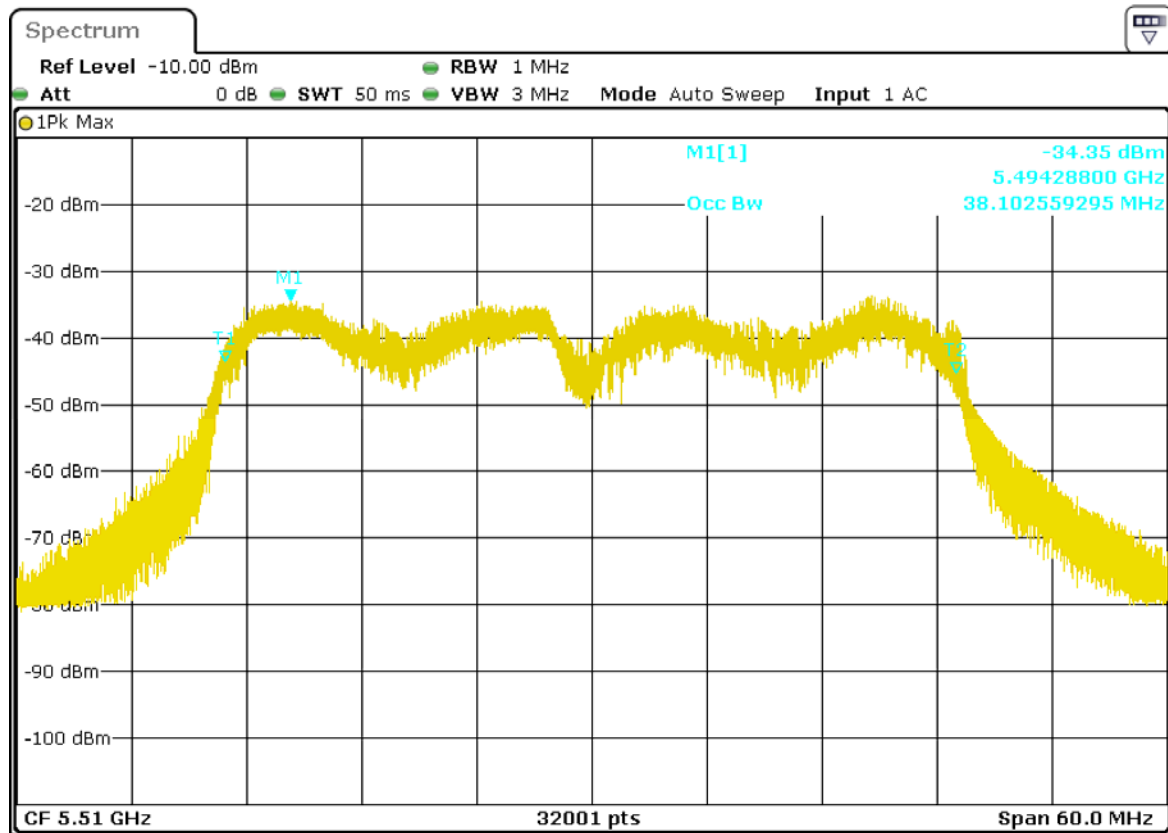
### Notes:

UUT Occupied Bandwidth : 18.78 MHz

UUT Occupied Bandwidth low edge (FL) : 5490.61 MHz

UUT Occupied Bandwidth high edge (FH) : 5509.39 MHz

## IEEE 802.11ax (HE40)

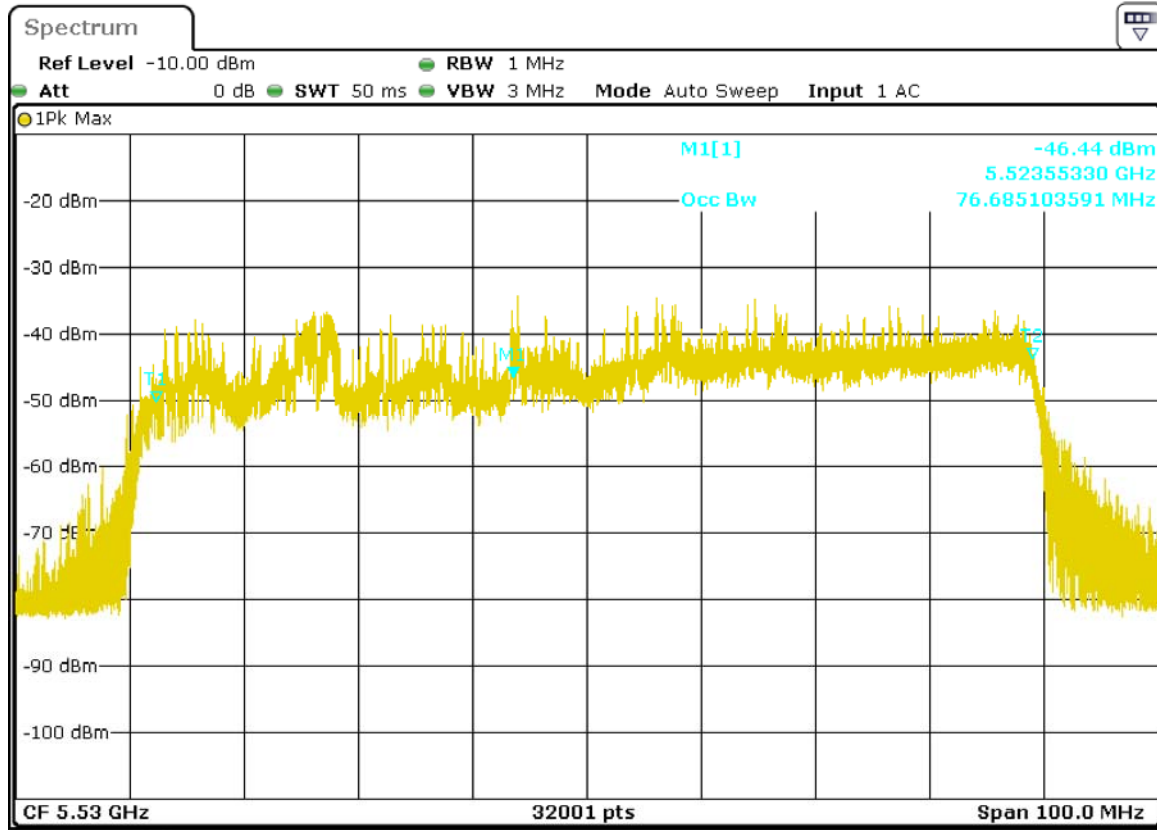


U-NII 99% Channel bandwidth

### Notes:

UUT Occupied Bandwidth : 38.10 MHz  
 UUT Occupied Bandwidth low edge (FL) : 5490.95 MHz  
 UUT Occupied Bandwidth high edge (FH) : 5529.05 MHz

## IEEE 802.11ax (HE80)



U-NII 99% Channel bandwidth

### Notes:

UUT Occupied Bandwidth : 76.69 MHz  
UUT Occupied Bandwidth low edge (FL) : 5491.66 MHz  
UUT Occupied Bandwidth high edge (FH) : 5568.35 MHz

# Detection Bandwidth Test - IEEE 802.11ax (HE20)

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 18.78MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth):18.78MHz

Detection bandwidth (5510(FH) – 5490(FL)) : 20MHz

Test Result : Pass

| Radar<br>Frequency<br>(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 (FH)                   | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5511                        | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - IEEE 802.11ax (HE40)

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 38.10MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 38.10MHz

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  | No  | No  | No  | No  | 0.0                |
| 5490 (FL)             | Yes                      | No  | 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                      | 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 | No  | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 5512                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5513                  | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 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 (FH)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5531                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - IEEE 802.11ax (HE80)

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 76.69 MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 76.69 MHz

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

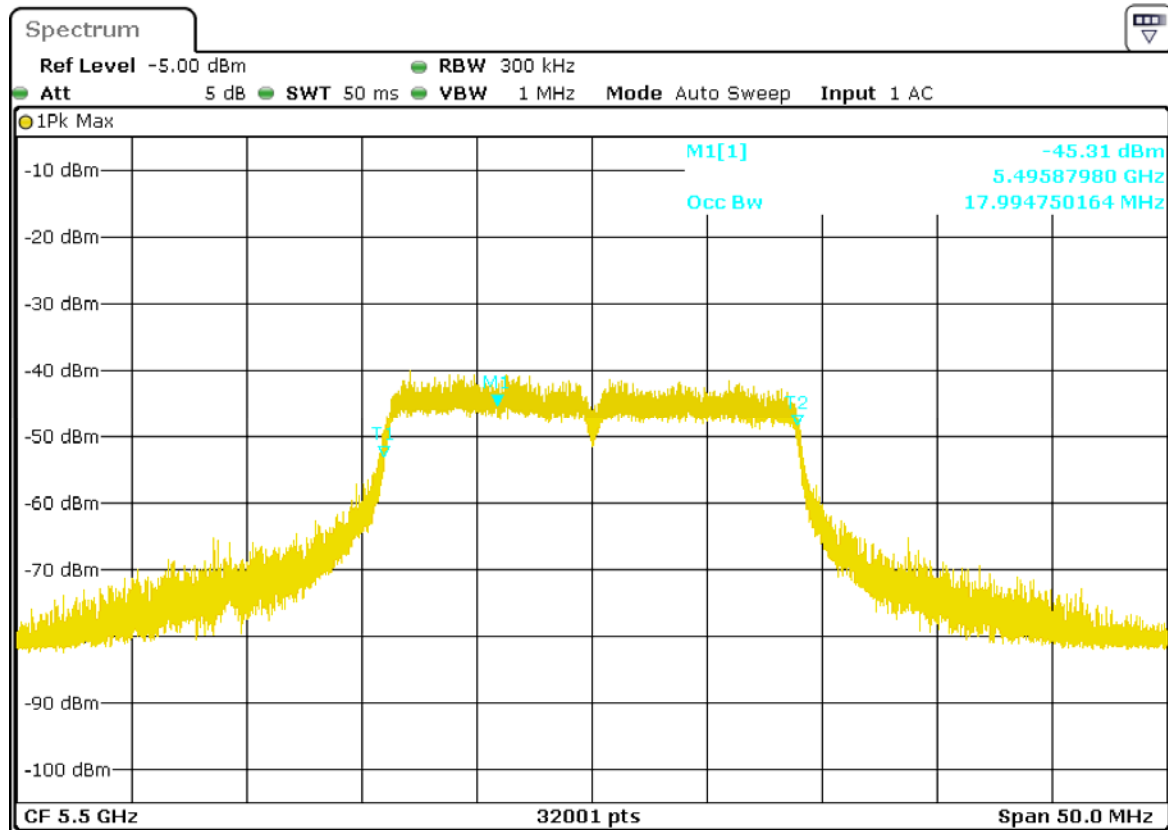
Test Result : Pass

| 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 | No  | Yes | 90.0               |
| 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                      | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 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 | No  | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 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                      | No  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90.0               |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 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 | No  | Yes | 90.0  |
| 5570 (FH) | 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   |

# Scan Radio IEEE 802.11ac (VHT20)

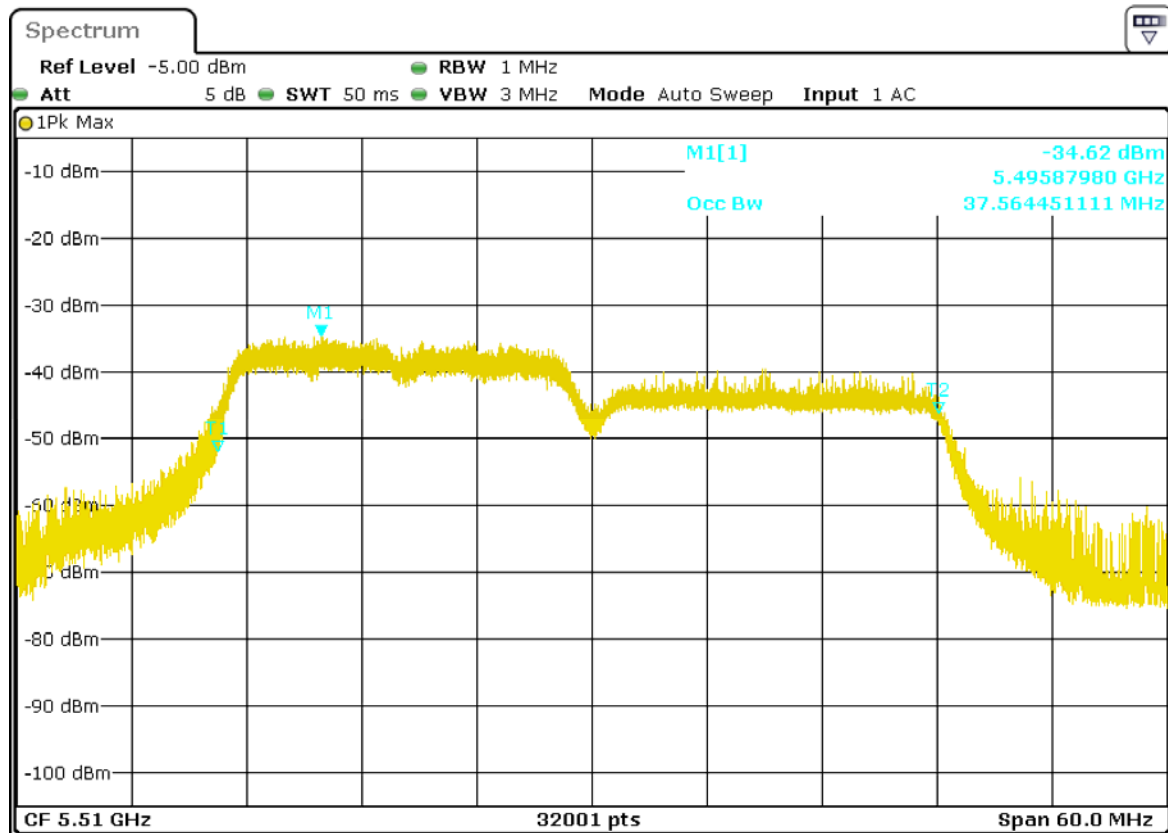


U-NII 99% Channel bandwidth

## Notes:

UUT Occupied Bandwidth : 17.99 MHz  
 UUT Occupied Bandwidth low edge (FL) : 5491.01 MHz  
 UUT Occupied Bandwidth high edge (FH) : 5509.00 MHz

## IEEE 802.11ac (VHT40)

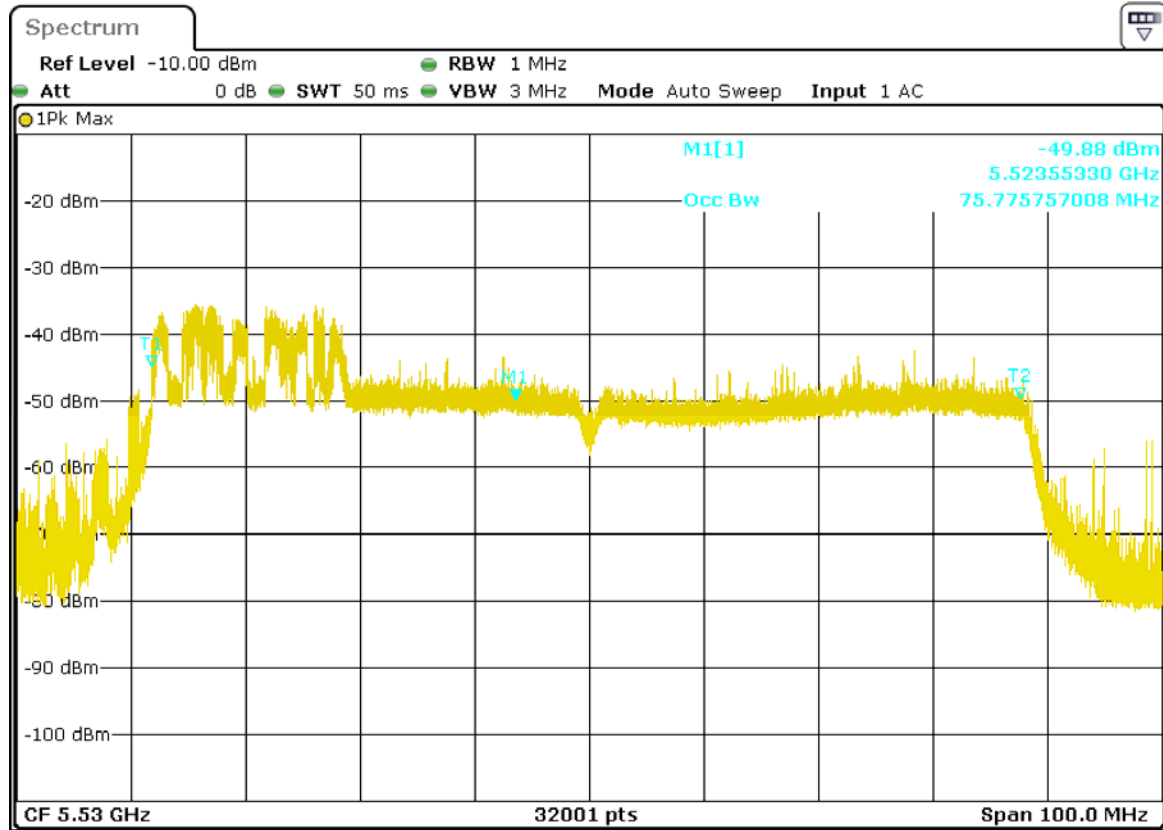


U-NII 99% Channel bandwidth

### Notes:

UUT Occupied Bandwidth : 37.56 MHz  
UUT Occupied Bandwidth low edge (FL) : 5491.22 MHz  
UUT Occupied Bandwidth high edge (FH) : 5528.78 MHz

## IEEE 802.11ac (VHT80)



U-NII 99% Channel bandwidth

### Notes:

UUT Occupied Bandwidth : 75.78 MHz  
 UUT Occupied Bandwidth low edge (FL) : 5492.11 MHz  
 UUT Occupied Bandwidth high edge (FH) : 5567.89 MHz

# Detection Bandwidth Test - IEEE 802.11ac (VHT20)

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 17.99MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth):17.99MHz

Detection bandwidth (5510(FH) – 5490(FL)) : 20MHz

Test Result : Pass

| Radar<br>Frequency<br>(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 (FH)                   | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5511                        | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - IEEE 802.11ac (VHT40)

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 37.56MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.56MHz

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  | 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 | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 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 (FH)             | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 5531                  | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0.0                |

# Detection Bandwidth Test - IEEE 802.11ac (VHT80)

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 75.78 MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 75.78 MHz

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 | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100.0              |
| 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 (FH) | 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

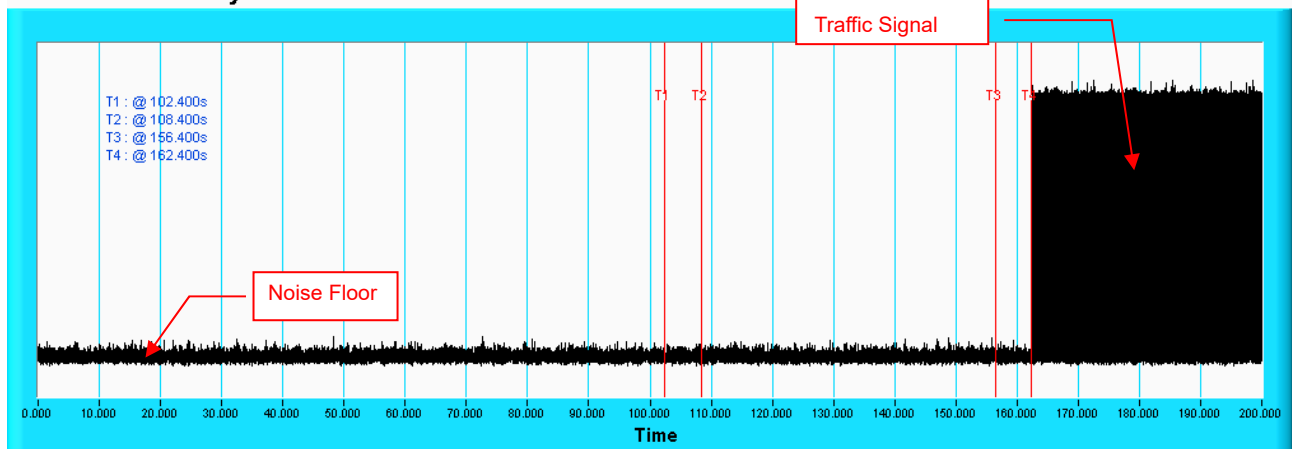
If the EUT successfully detected the radar burst, it should be observed as the EUT has no transmissions occurred until the EUT starts transmitting on another channel.

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

Note: Worst case channel for final “Channel Availability Check” test.

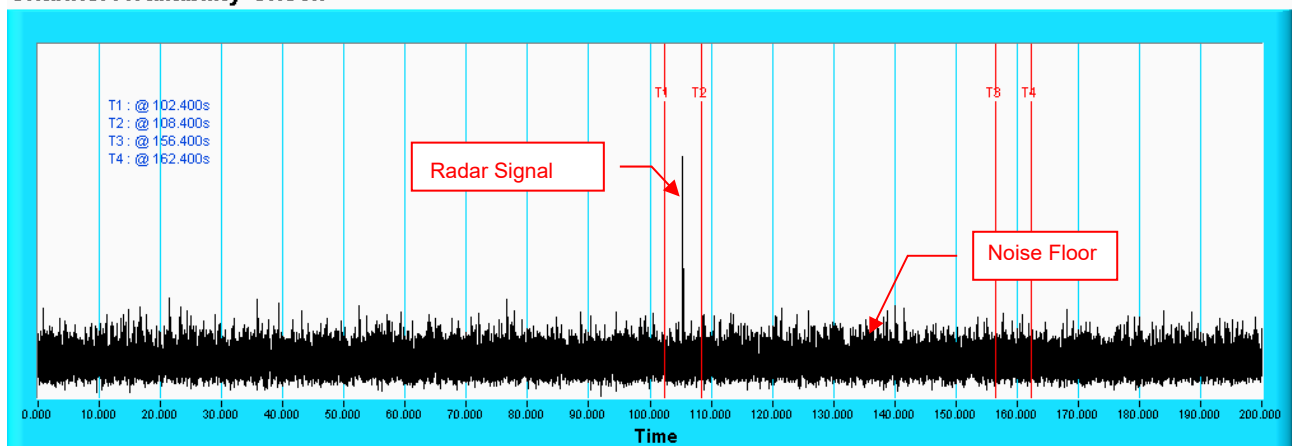
## Radio 2

### Initial Channel Availability Check Time Channel Availability Check



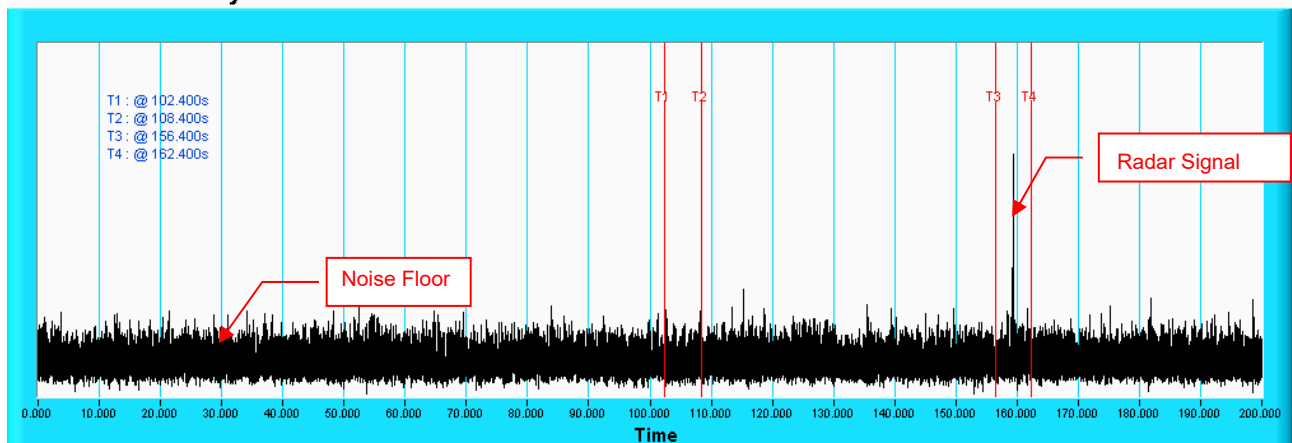
Note: T1 denotes the end of power-up time period is 102.4<sup>th</sup> second. T4 denotes the end of Channel Availability Check time is 162.4<sup>th</sup> second. Channel Availability Check time is equal to ( T4 – T1) 60 seconds.

### 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 102.4<sup>th</sup> second. T2 denotes 108.4<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 162.4<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 102.4<sup>th</sup> second. T3 denotes 156.4<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 162.4<sup>th</sup> second.

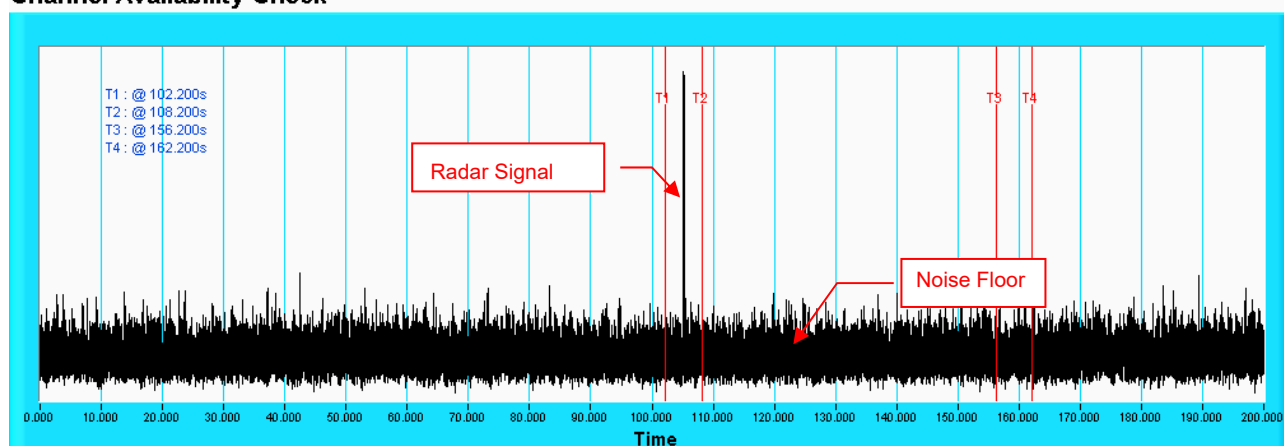
## Scan Radio

### Initial Channel Availability Check Time Channel Availability Check



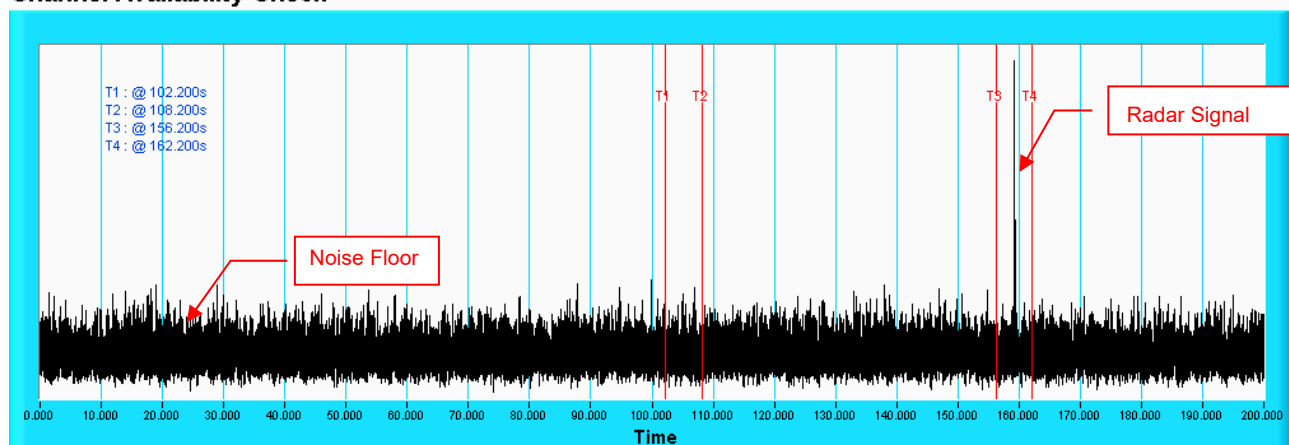
Note: T1 denotes the end of power-up time period is 102.2<sup>th</sup> second. T4 denotes the end of Channel Availability Check time is 162.2<sup>th</sup> second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

### 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 102.2<sup>th</sup> second. T2 denotes 108.2<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 162.2<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 102.2<sup>th</sup> second. T3 denotes 156.2<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 162.2<sup>th</sup> second.

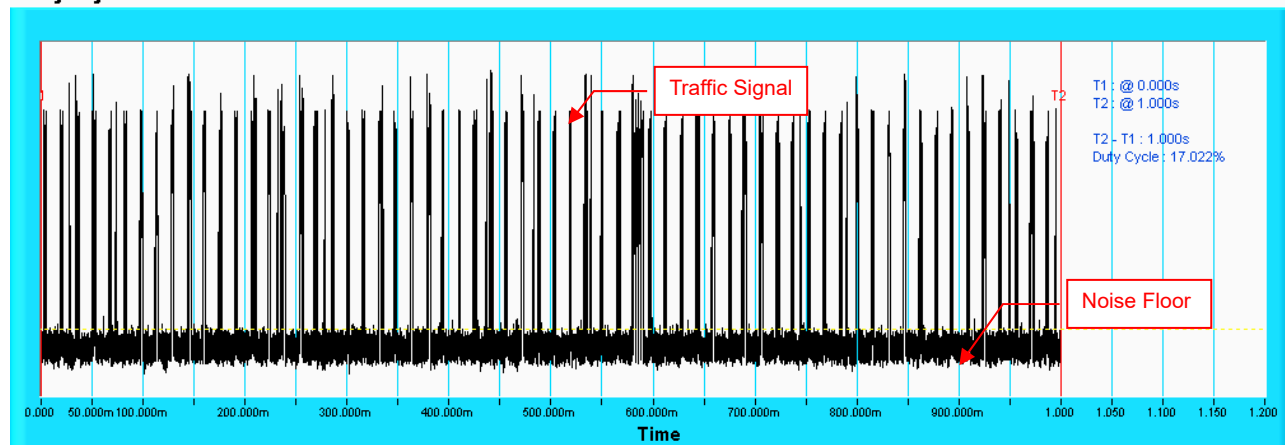
## 6.2.4 Channel Closing Transmission and Channel Move Time

### Wireless Traffic Loading

Radio 2

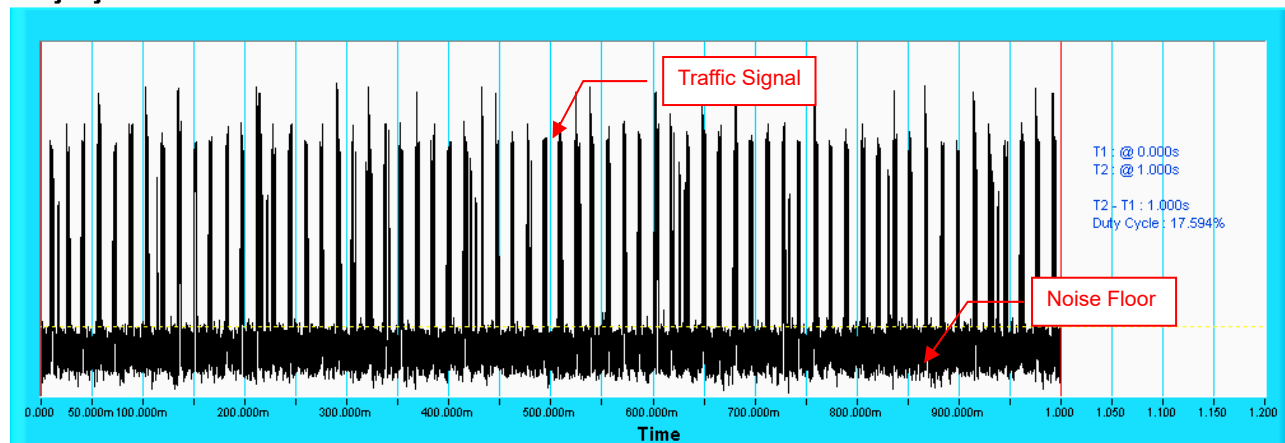
802.11ax (HE20)

Duty Cycle



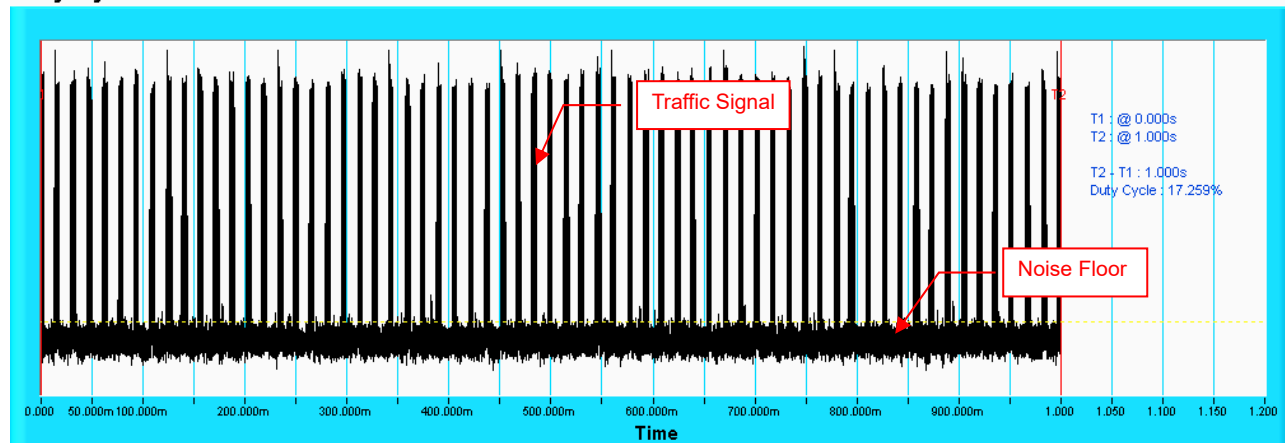
802.11ax (HE40)

Duty Cycle



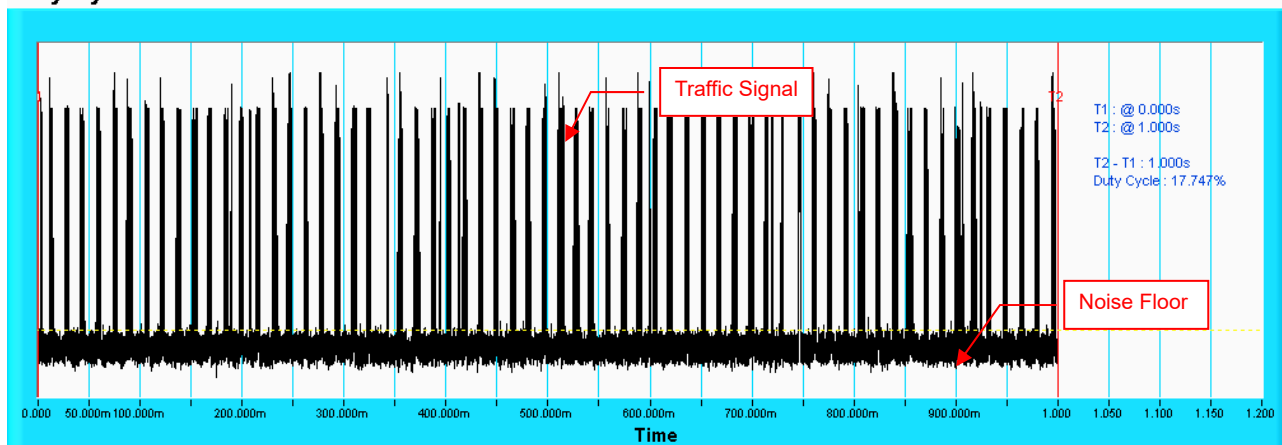
802.11ax (HE80)

Duty Cycle

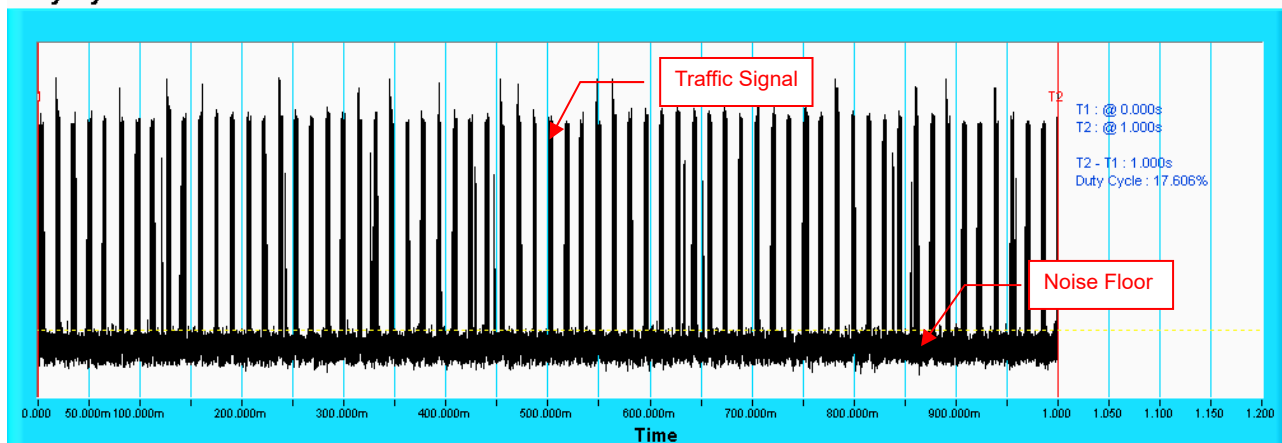


Note: Traffic signal: from master transmit to slave.

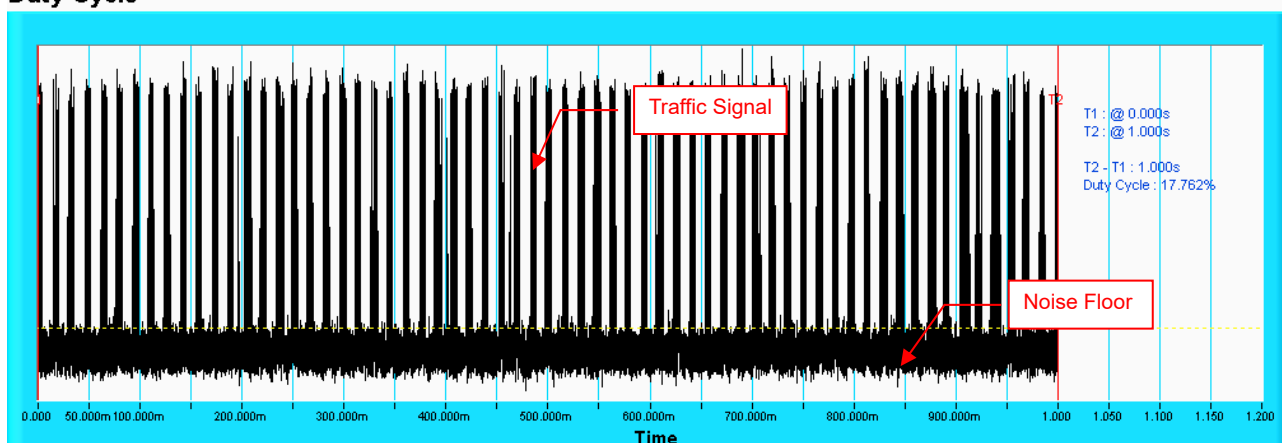
Scan Radio  
802.11ac (VHT20)  
Duty Cycle



802.11ac (VHT40)  
Duty Cycle



802.11ac (VHT80)  
Duty Cycle



Note: Traffic signal: from master transmit to slave.

## Radio 2

### IEEE 802.11ax (HE20)

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 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \begin{array}{l} \left\lceil \frac{1}{360} \right\rceil \cdot \\ \left\lceil \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\rceil \end{array} \right\}$ | 18               | 30                      | 93.33                                  |
| 2                           | 1-5                                                                                                                                                                                                                                                                                | 150-230                                                                                                                                                                                  | 23-29            | 30                      | 96.67                                  |
| 3                           | 6-10                                                                                                                                                                                                                                                                               | 200-500                                                                                                                                                                                  | 16-18            | 30                      | 93.33                                  |
| 4                           | 11-20                                                                                                                                                                                                                                                                              | 200-500                                                                                                                                                                                  | 12-16            | 30                      | 83.33                                  |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                          |                  | 120                     | 91.67                                  |

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                                    |

# IEEE 802.11ax (HE40)

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 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \begin{array}{l} \frac{1}{360} \\ 19 \cdot 10^6 \\ \text{PRI}_{\mu\text{sec}} \end{array} \right\}$ | 18               | 30                      | 100                                    |
| 2                           | 1-5                                                                                                                                                                                                                                                                                | 150-230                                                                                                                     | 23-29            | 30                      | 100                                    |
| 3                           | 6-10                                                                                                                                                                                                                                                                               | 200-500                                                                                                                     | 16-18            | 30                      | 86.67                                  |
| 4                           | 11-20                                                                                                                                                                                                                                                                              | 200-500                                                                                                                     | 12-16            | 30                      | 83.33                                  |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                    |                                                                                                                             |                  | 120                     | 92.5                                   |

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                                    |

# IEEE 802.11ax (HE80)

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 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left\lceil \frac{1}{360} \right\rceil \cdot \left\lceil \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\rceil \right\}$ | 18               | 30                      | 83.33                                  |
| 2                           | 1-5                                                                                                                                                                                                                                                                                | 150-230                                                                                                                                                  | 23-29            | 30                      | 83.33                                  |
| 3                           | 6-10                                                                                                                                                                                                                                                                               | 200-500                                                                                                                                                  | 16-18            | 30                      | 80                                     |
| 4                           | 11-20                                                                                                                                                                                                                                                                              | 200-500                                                                                                                                                  | 12-16            | 30                      | 80                                     |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                    |                                                                                                                                                          |                  | 120                     | 81.67                                  |

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                      | 96.67                                  |

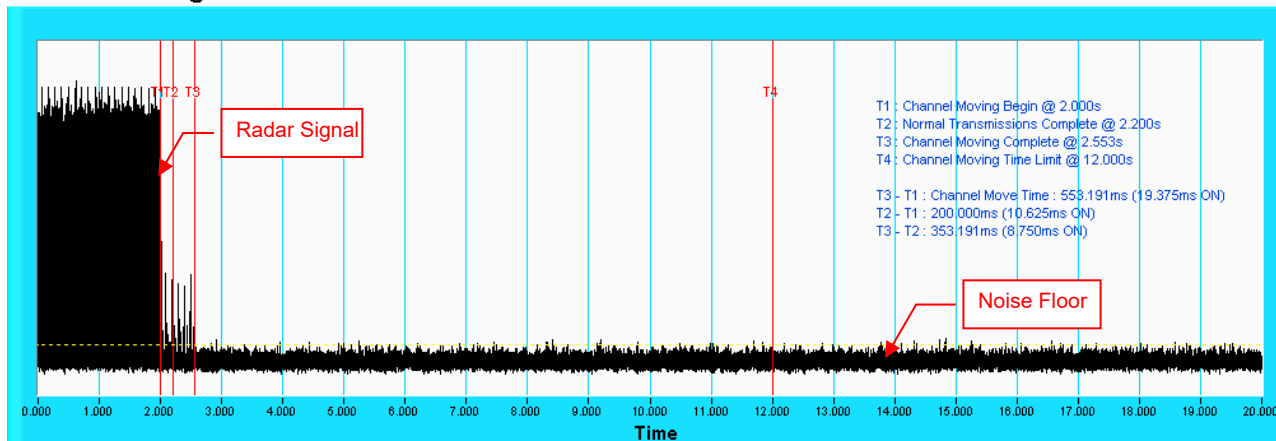


## Radio 2

Radar signal 0

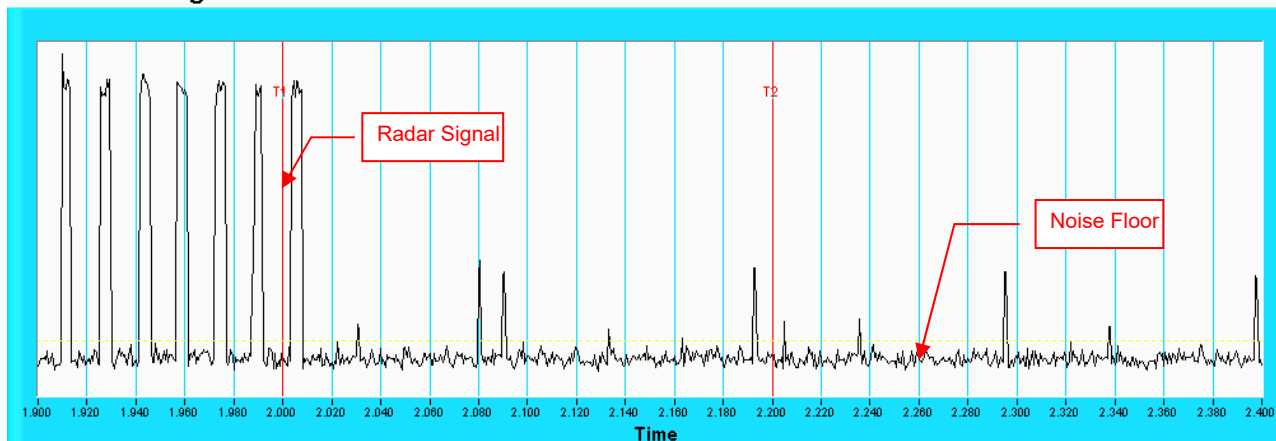
802.11ax (HE80)

### Channel Closing Transmission Time & Channel Move Time



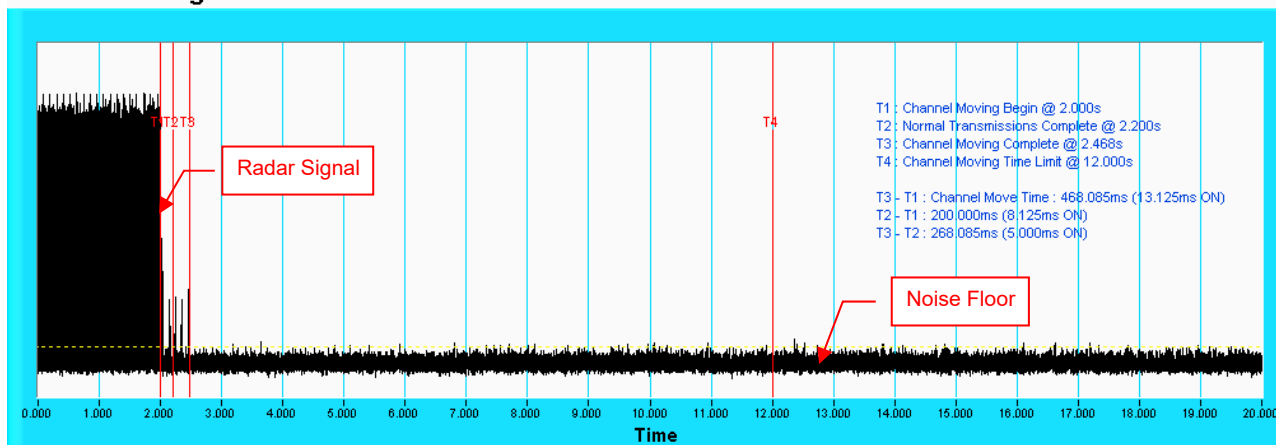
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time



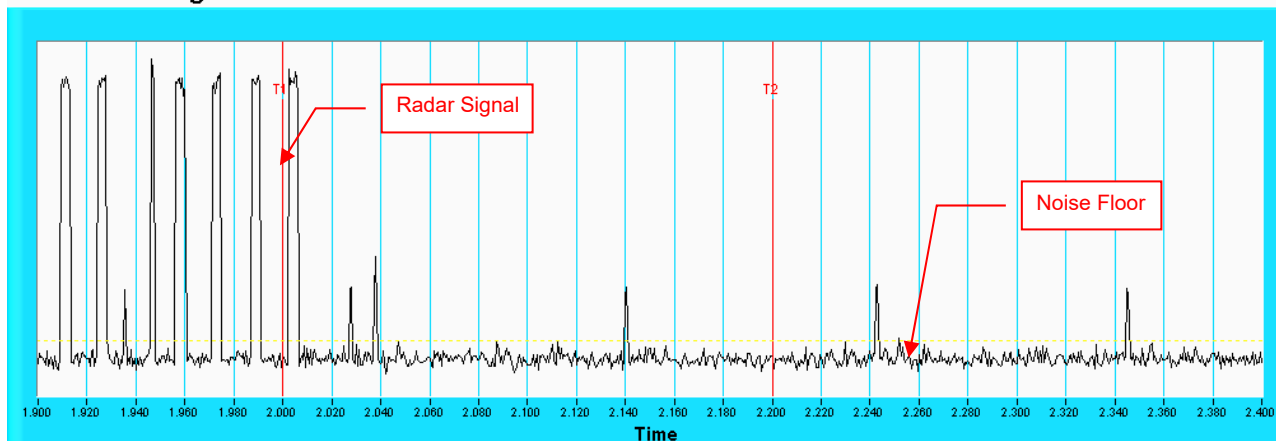
Note: Room-in of the first 500ms after radar signal applied.

# **Radar signal 1** **802.11ax (HE80)** **Channel Closing Transmission Time & Channel Move Time**



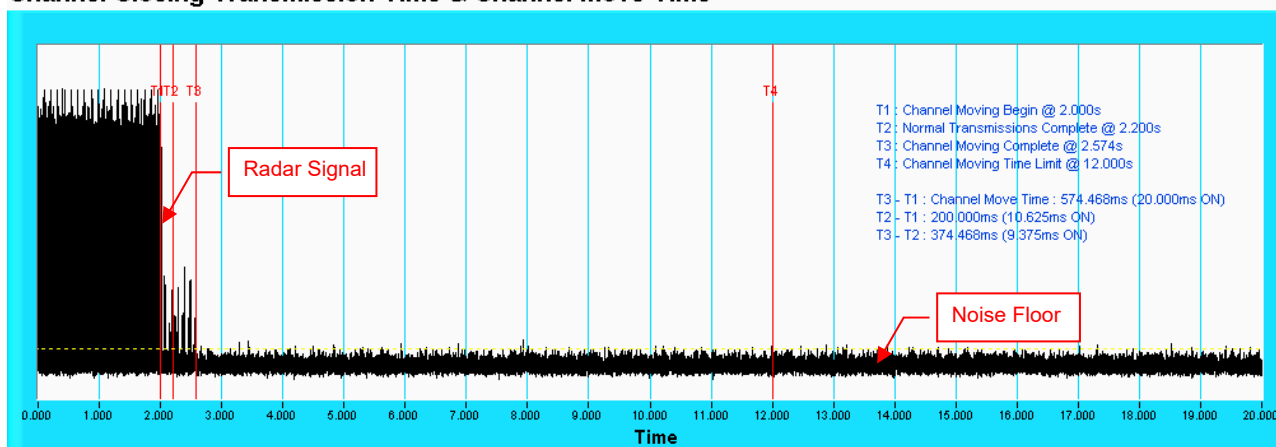
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

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



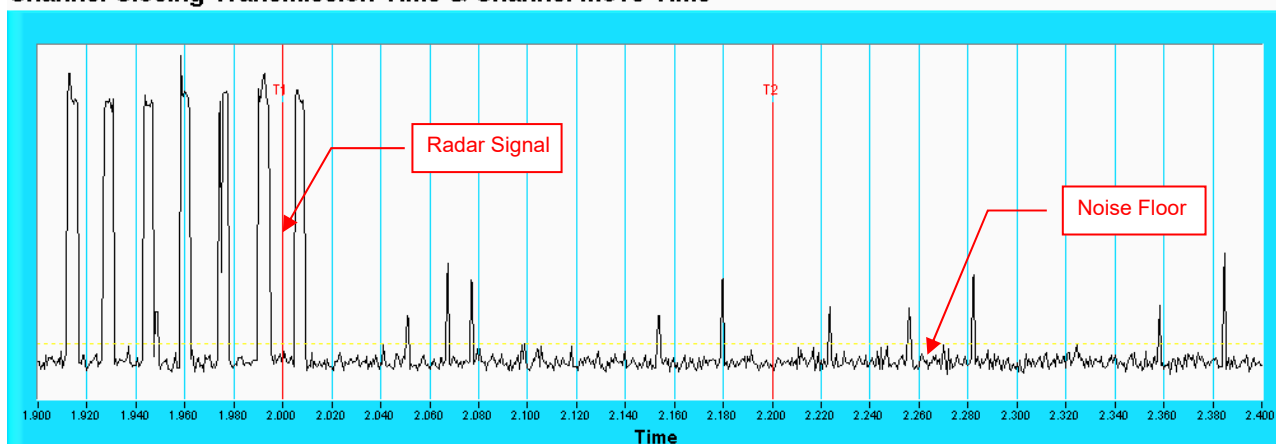
Note: Room-in of the first 500ms after radar signal applied.

## Radar signal 2 802.11ax (HE80) 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.

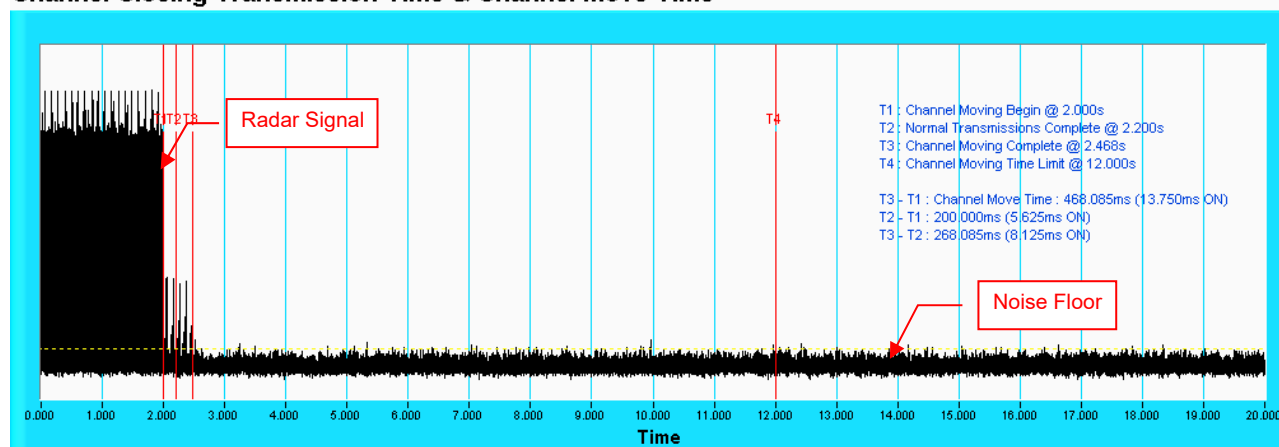
## Channel Closing Transmission Time & Channel Move Time



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

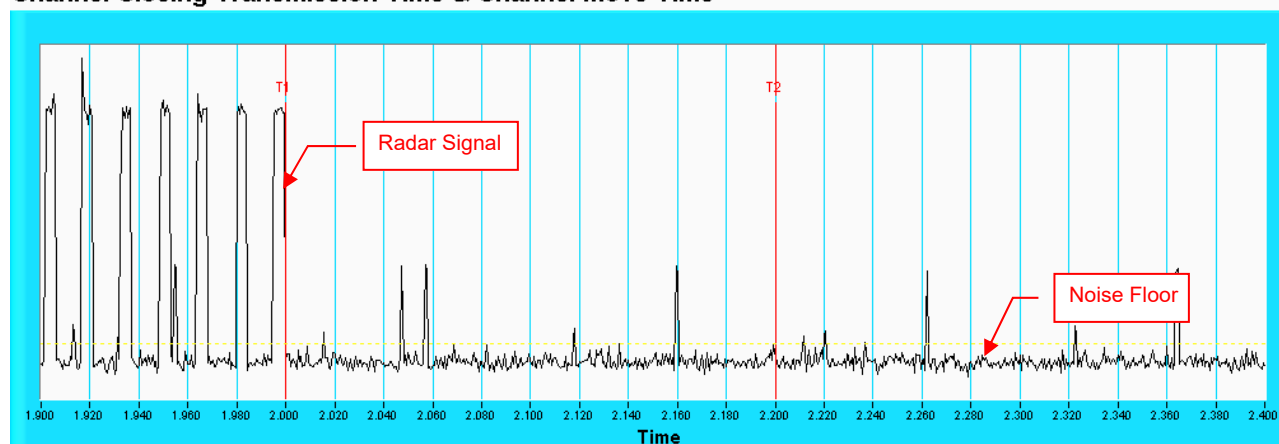
### Radar signal 3 802.11ax (HE80)

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



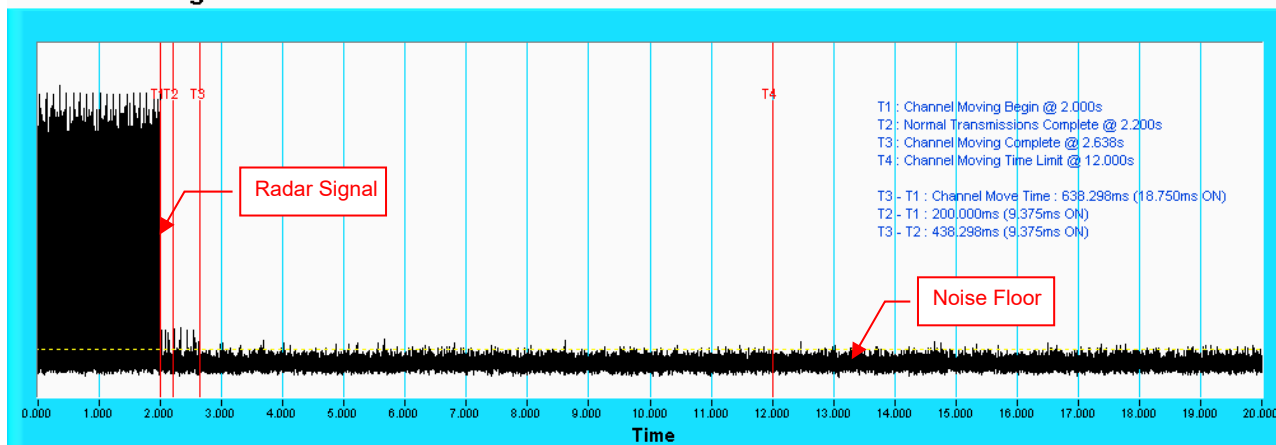
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

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



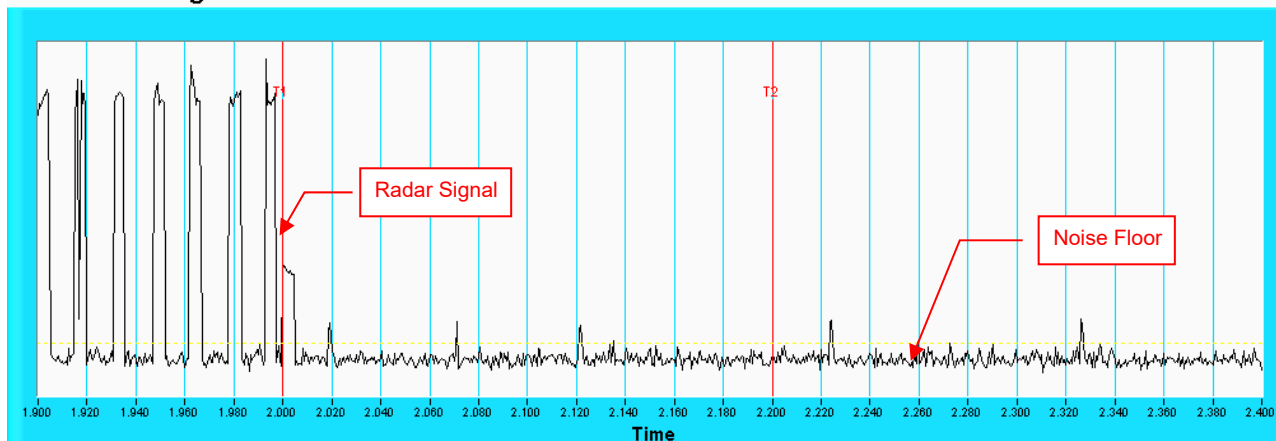
Note: Room-in of the first 500ms after radar signal applied.

# **Radar signal 4** **802.11ax (HE80)** **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.

## Radio 2

802.11ax (HE20)

| 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                                     | 5497                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5495                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5501                 | 11                                          | 1393                                           | 74               | 718                                      | No        |
| 5                                     | 5503                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5505                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5490                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5491                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5492                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10                                    | 5500                 | 19                                          | 1139                                           | 61               | 878                                      | No        |
| 11                                    | 5507                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5496                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5509                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5502                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5493                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5506                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5499                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5504                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5508                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5494                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5510                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5494                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5501                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5491                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5497                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5506                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5490                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5505                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5495                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5496                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |
| Detection Rate: 93.33 %               |                      |                                             |                                                |                  |                                          |           |

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5503                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5500                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5495                 | 28               | 4               | 161     | Yes       |
| 4       | 5504                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5494                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5507                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5491                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5496                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5498                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5490                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5501                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5499                 | 23               | 1.3             | 189     | No        |
| 13      | 5497                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5505                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5492                 | 29               | 5               | 170     | Yes       |
| 16      | 5493                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5506                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5502                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5508                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5509                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5510                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5494                 | 28               | 4               | 160     | Yes       |
| 23      | 5492                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5509                 | 23               | 1               | 205     | Yes       |
| 25      | 5501                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5508                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5491                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5490                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5497                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5498                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 96.67 %

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5492                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5496                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5501                 | 18               | 9               | 316     | No        |
| 4       | 5490                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5494                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5505                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5493                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5502                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5508                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5500                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5503                 | 16               | 6.1             | 474     | No        |
| 12      | 5499                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5497                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5510                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5504                 | 18               | 10              | 395     | Yes       |
| 16      | 5507                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5498                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5509                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5491                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5506                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5495                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5504                 | 18               | 9               | 411     | Yes       |
| 23      | 5494                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5495                 | 16               | 6               | 431     | Yes       |
| 25      | 5506                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5510                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5502                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5498                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5507                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5501                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 93.33 %



Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5493                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5495                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5492                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5506                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5504                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5510                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5502                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5499                 | 14               | 15.3            | 258     | No        |
| 9       | 5509                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5490                 | 15               | 16.9            | 236     | No        |
| 11      | 5500                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5501                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5503                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5494                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5505                 | 16               | 19.9            | 395     | No        |
| 16      | 5508                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5496                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5491                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5507                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5497                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5498                 | 14               | 15.3            | 351     | No        |
| 22      | 5490                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5506                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5510                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5491                 | 15               | 17              | 324     | Yes       |
| 26      | 5504                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5495                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5492                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5509                 | 12               | 11.6            | 438     | No        |
| 30      | 5501                 | 12               | 12.7            | 270     | Yes       |

Detection Rate: 83.33 %

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 13                       | 5500.00                     | LP_Signal_01     | Yes       |
| 2       | 5                        | 5500.00                     | LP_Signal_02     | Yes       |
| 3       | 9                        | 5500.00                     | LP_Signal_03     | Yes       |
| 4       | 19                       | 5500.00                     | LP_Signal_04     | Yes       |
| 5       | 16                       | 5500.00                     | LP_Signal_05     | Yes       |
| 6       | 12                       | 5500.00                     | LP_Signal_06     | Yes       |
| 7       | 13                       | 5500.00                     | LP_Signal_07     | Yes       |
| 8       | 10                       | 5500.00                     | LP_Signal_08     | Yes       |
| 9       | 13                       | 5500.00                     | LP_Signal_09     | Yes       |
| 10      | 6                        | 5500.00                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497.01                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5498.21                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5495.81                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5494.61                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5497.81                     | LP_Signal_15     | Yes       |
| 16      | 12                       | 5495.41                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5498.61                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5494.61                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5495.41                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5494.61                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5503.39                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5505.79                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5501.39                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5504.59                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5504.99                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5507.39                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5502.99                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5501.79                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5505.39                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5502.59                     | LP_Signal_30     | Yes       |

Detection Rate: 100 %

The Long Pulse Radar pattern shown in Appendix A.1

### 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 %

| 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

802.11ax (HE40)

| 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                                     | 5508                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5491                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5504                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5498                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5                                     | 5503                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5493                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5496                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5497                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5502                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10                                    | 5490                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5506                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5495                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5500                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5499                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5505                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5492                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5501                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5509                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5507                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5510                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5494                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5492                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5502                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5504                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5508                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5509                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5497                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5490                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5494                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5493                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |
| Detection Rate: 100 %                 |                      |                                             |                                                |                  |                                          |           |

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5508                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5505                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5492                 | 28               | 4               | 161     | Yes       |
| 4       | 5507                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5493                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5501                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5496                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5491                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5498                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5510                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5502                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5495                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5503                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5499                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5500                 | 29               | 5               | 170     | Yes       |
| 16      | 5506                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5504                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5494                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5490                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5497                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5509                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5508                 | 28               | 4               | 160     | Yes       |
| 23      | 5495                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5505                 | 23               | 1               | 205     | Yes       |
| 25      | 5496                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5494                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5490                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5499                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5497                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5503                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 100 %

Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5499                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5501                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5498                 | 18               | 9               | 316     | Yes       |
| 4       | 5500                 | 18               | 9.3             | 439     | No        |
| 5       | 5509                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5491                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5497                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5508                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5502                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5494                 | 17               | 8.6             | 236     | No        |
| 11      | 5490                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5495                 | 16               | 6.3             | 461     | No        |
| 13      | 5506                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5503                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5504                 | 18               | 10              | 395     | Yes       |
| 16      | 5510                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5493                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5507                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5505                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5492                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5496                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5494                 | 18               | 9               | 411     | Yes       |
| 23      | 5491                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5497                 | 16               | 6               | 431     | Yes       |
| 25      | 5509                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5501                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5503                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5496                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5507                 | 16               | 6.2             | 438     | No        |
| 30      | 5502                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 86.67 %

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5491                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5497                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5495                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5499                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5500                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5503                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5496                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5509                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5498                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5490                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5493                 | 12               | 11.2            | 474     | No        |
| 12      | 5505                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5506                 | 13               | 14.4            | 437     | No        |
| 14      | 5510                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5504                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5502                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5492                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5507                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5508                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5501                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5494                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5503                 | 15               | 17.8            | 411     | No        |
| 23      | 5504                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5496                 | 12               | 11.1            | 431     | No        |
| 25      | 5493                 | 15               | 17              | 324     | Yes       |
| 26      | 5506                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5500                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5510                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5498                 | 12               | 11.6            | 438     | No        |
| 30      | 5508                 | 12               | 12.7            | 270     | Yes       |

Detection Rate: 83.33 %



### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 5                        | 5510.00                     | LP_Signal_01     | Yes       |
| 2       | 13                       | 5510.00                     | LP_Signal_02     | Yes       |
| 3       | 8                        | 5510.00                     | LP_Signal_03     | Yes       |
| 4       | 18                       | 5510.00                     | LP_Signal_04     | Yes       |
| 5       | 7                        | 5510.00                     | LP_Signal_05     | Yes       |
| 6       | 11                       | 5510.00                     | LP_Signal_06     | Yes       |
| 7       | 7                        | 5510.00                     | LP_Signal_07     | Yes       |
| 8       | 10                       | 5510.00                     | LP_Signal_08     | Yes       |
| 9       | 15                       | 5510.00                     | LP_Signal_09     | Yes       |
| 10      | 7                        | 5510.00                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497.35                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5498.55                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5496.15                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5494.95                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5498.15                     | LP_Signal_15     | Yes       |
| 16      | 12                       | 5495.75                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5498.95                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5494.95                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5495.75                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5494.95                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5523.05                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5525.45                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5521.05                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5524.25                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5524.65                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5527.05                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5522.65                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5521.45                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5525.05                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5522.25                     | LP_Signal_30     | Yes       |

Detection Rate: 100 %

The Long Pulse Radar pattern shown in Appendix A.1

### 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 %

| 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

802.11ax (HE80)

| 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                                     | 5541                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5490                 | 16                                          | 1223                                           | 65               | 818                                      | No        |
| 3                                     | 5509                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5554                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5                                     | 5494                 | 22                                          | 1066                                           | 57               | 938                                      | No        |
| 6                                     | 5495                 | 7                                           | 1567                                           | 83               | 638                                      | No        |
| 7                                     | 5496                 | 2                                           | 1859                                           | 99               | 538                                      | No        |
| 8                                     | 5557                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5518                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10                                    | 5542                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5510                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5502                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5539                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5549                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5524                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5505                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5493                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5529                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5540                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5508                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5547                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5565                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5512                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5564                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5517                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5560                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5501                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5492                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5516                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5497                 |                                             | 517.1                                          | 28               | 1934                                     | No        |
| Detection Rate: 83.33 %               |                      |                                             |                                                |                  |                                          |           |

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5565                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5502                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5512                 | 28               | 4               | 161     | Yes       |
| 4       | 5569                 | 28               | 4.3             | 226     | No        |
| 5       | 5558                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5520                 | 23               | 1.1             | 230     | No        |
| 7       | 5496                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5518                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5566                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5524                 | 27               | 3.6             | 221     | No        |
| 11      | 5511                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5536                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5491                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5570                 | 29               | 4.5             | 203     | No        |
| 15      | 5519                 | 29               | 5               | 170     | Yes       |
| 16      | 5498                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5509                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5504                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5555                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5503                 | 23               | 1.2             | 220     | No        |
| 21      | 5530                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5507                 | 28               | 4               | 160     | Yes       |
| 23      | 5493                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5513                 | 23               | 1               | 205     | Yes       |
| 25      | 5553                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5527                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5532                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5561                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5533                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5501                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 83.33 %

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5542                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5554                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5541                 | 18               | 9               | 316     | Yes       |
| 4       | 5493                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5558                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5545                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5496                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5502                 | 17               | 7.9             | 258     | No        |
| 9       | 5560                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5537                 | 17               | 8.6             | 236     | No        |
| 11      | 5500                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5567                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5497                 | 17               | 7.5             | 437     | No        |
| 14      | 5494                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5555                 | 18               | 10              | 395     | Yes       |
| 16      | 5527                 | 17               | 8.1             | 322     | No        |
| 17      | 5559                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5507                 | 17               | 7.6             | 255     | No        |
| 19      | 5510                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5550                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5491                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5544                 | 18               | 9               | 411     | Yes       |
| 23      | 5517                 | 17               | 7.5             | 279     | No        |
| 24      | 5512                 | 16               | 6               | 431     | Yes       |
| 25      | 5514                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5546                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5547                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5501                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5562                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5543                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 80 %

Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5542                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5554                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5541                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5493                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5558                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5545                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5496                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5502                 | 14               | 15.3            | 258     | No        |
| 9       | 5560                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5537                 | 15               | 16.9            | 236     | No        |
| 11      | 5500                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5567                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5497                 | 13               | 14.4            | 437     | No        |
| 14      | 5494                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5555                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5527                 | 14               | 15.7            | 322     | No        |
| 17      | 5559                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5507                 | 13               | 14.5            | 255     | No        |
| 19      | 5510                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5550                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5491                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5544                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5517                 | 13               | 14.3            | 279     | No        |
| 24      | 5512                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5514                 | 15               | 17              | 324     | Yes       |
| 26      | 5546                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5547                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5501                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5562                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5543                 | 12               | 12.7            | 270     | Yes       |

Detection Rate: 80 %

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 13                       | 5530.00                     | LP_Signal_01     | Yes       |
| 2       | 14                       | 5530.00                     | LP_Signal_02     | Yes       |
| 3       | 6                        | 5530.00                     | LP_Signal_03     | Yes       |
| 4       | 18                       | 5530.00                     | LP_Signal_04     | Yes       |
| 5       | 14                       | 5530.00                     | LP_Signal_05     | Yes       |
| 6       | 13                       | 5530.00                     | LP_Signal_06     | Yes       |
| 7       | 11                       | 5530.00                     | LP_Signal_07     | Yes       |
| 8       | 13                       | 5530.00                     | LP_Signal_08     | Yes       |
| 9       | 14                       | 5530.00                     | LP_Signal_09     | Yes       |
| 10      | 17                       | 5530.00                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5498.05                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5499.25                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5496.85                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5495.65                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5498.85                     | LP_Signal_15     | Yes       |
| 16      | 12                       | 5496.45                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5499.65                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5495.65                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5496.45                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5495.65                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5562.35                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5564.75                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5560.35                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5563.55                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5563.95                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5566.35                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5561.95                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5560.75                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5564.35                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5561.55                     | LP_Signal_30     | Yes       |

Detection Rate: 100 %

The Long Pulse Radar pattern shown in Appendix A.1



### 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   | No        |
| 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: 96.67 %

| 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                 | No                     |
| 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: 96.67% |

The Frequency Hopping Radar pattern shown in Appendix A.2

## Scan Radio

### IEEE 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 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 18               | 30                      | 86.67                                  |
| 2                           | 1-5                                                                                                                                                                                                                                                                                | 150-230                                                                                                                              | 23-29            | 30                      | 83.33                                  |
| 3                           | 6-10                                                                                                                                                                                                                                                                               | 200-500                                                                                                                              | 16-18            | 30                      | 80                                     |
| 4                           | 11-20                                                                                                                                                                                                                                                                              | 200-500                                                                                                                              | 12-16            | 30                      | 83.33                                  |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                    |                                                                                                                                      |                  | 120                     | 88.33                                  |

Table 2: Long Pulse Radar Test Waveform

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

Table 3: Frequency Hopping Radar Test Waveform

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

# IEEE 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 μsec, with a minimum increment of 1 μsec, 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                      | 96.67                                  |
| 2                           | 1-5                                                                                                                                                                                                                                                                                | 150-230                                                                                                      | 23-29            | 30                      | 100                                    |
| 3                           | 6-10                                                                                                                                                                                                                                                                               | 200-500                                                                                                      | 16-18            | 30                      | 90                                     |
| 4                           | 11-20                                                                                                                                                                                                                                                                              | 200-500                                                                                                      | 12-16            | 30                      | 83.33                                  |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                    |                                                                                                              |                  | 120                     | 92.5                                   |

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                      | 80                                     |

Table 3: Frequency Hopping Radar Test Waveform

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

# IEEE 802.11ac (VHT80)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec)                                                                                                                                                                                                                                                                 | PRI (μsec)                                                                                                                                                                            | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|----------------------------------------|
| 1                           | <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 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \begin{array}{l} \left\lceil \frac{1}{360} \right\rceil \cdot \left\lceil \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\rceil \end{array} \right\}$ | 18               | 30                      | 100                                    |
| 2                           | 1-5                                                                                                                                                                                                                                                                                | 150-230                                                                                                                                                                               | 23-29            | 30                      | 96.67                                  |
| 3                           | 6-10                                                                                                                                                                                                                                                                               | 200-500                                                                                                                                                                               | 16-18            | 30                      | 100                                    |
| 4                           | 11-20                                                                                                                                                                                                                                                                              | 200-500                                                                                                                                                                               | 12-16            | 30                      | 83.33                                  |
| Aggregate (Radar Types 1-4) |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                       |                  | 120                     | 95.0                                   |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 83.33                                  |

Table 3: Frequency Hopping Radar Test Waveform

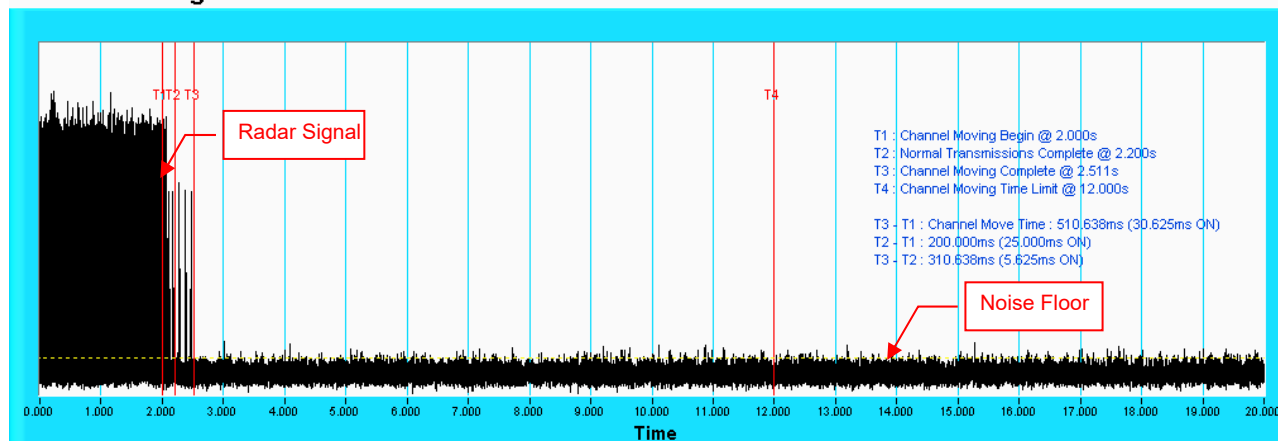
| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|--------------------------------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

## Scan radio

Radar signal 0

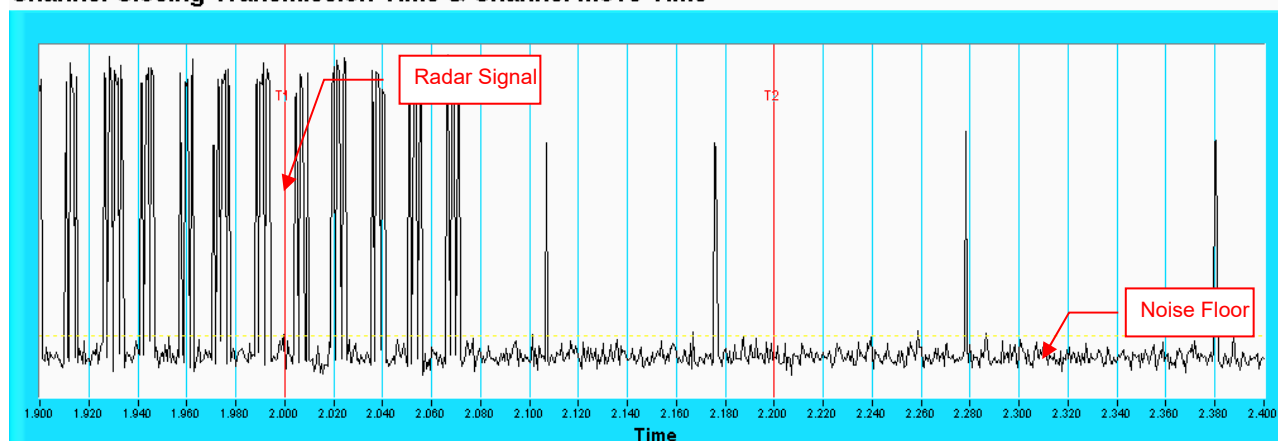
802.11ac (VHT80)

### Channel Closing Transmission Time & Channel Move Time



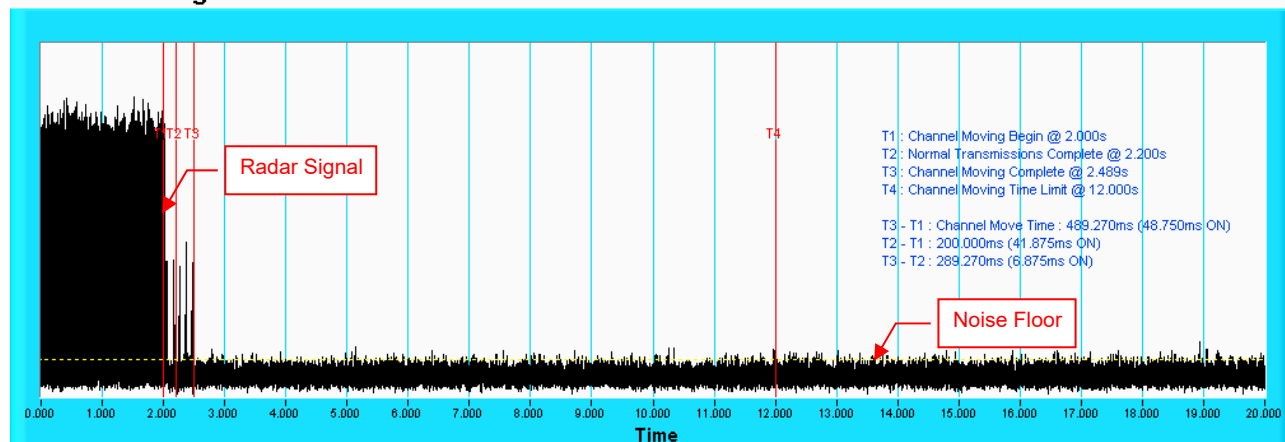
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time



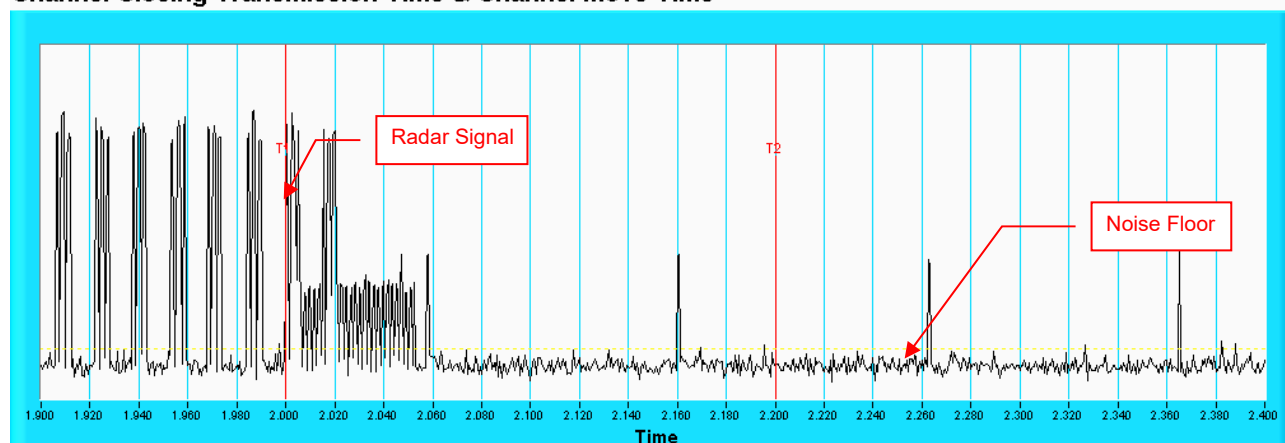
Note: Room-in of the first 500ms after radar signal applied.

# **Radar signal 1** **802.11ac (VHT80)** **Channel Closing Transmission Time & Channel Move Time**



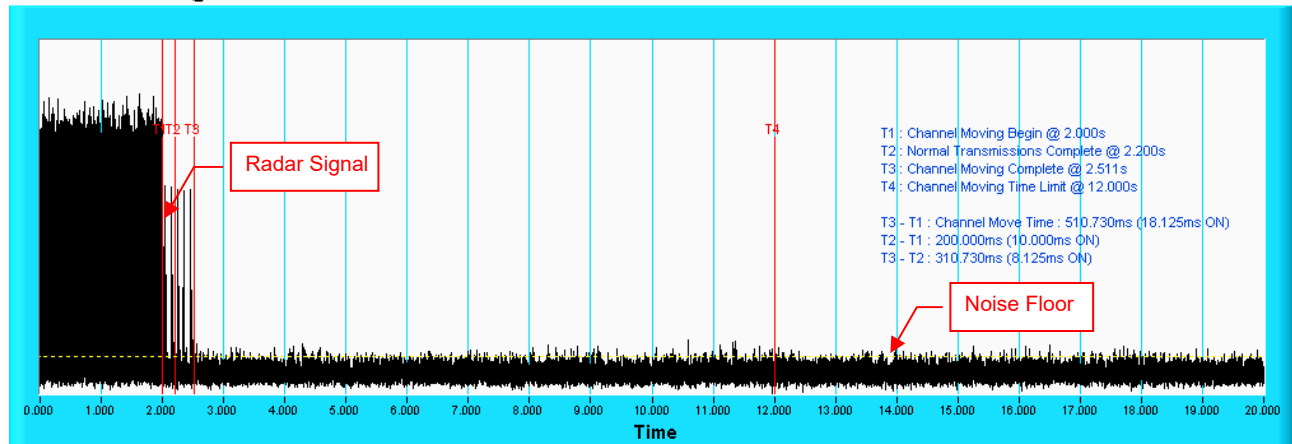
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

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



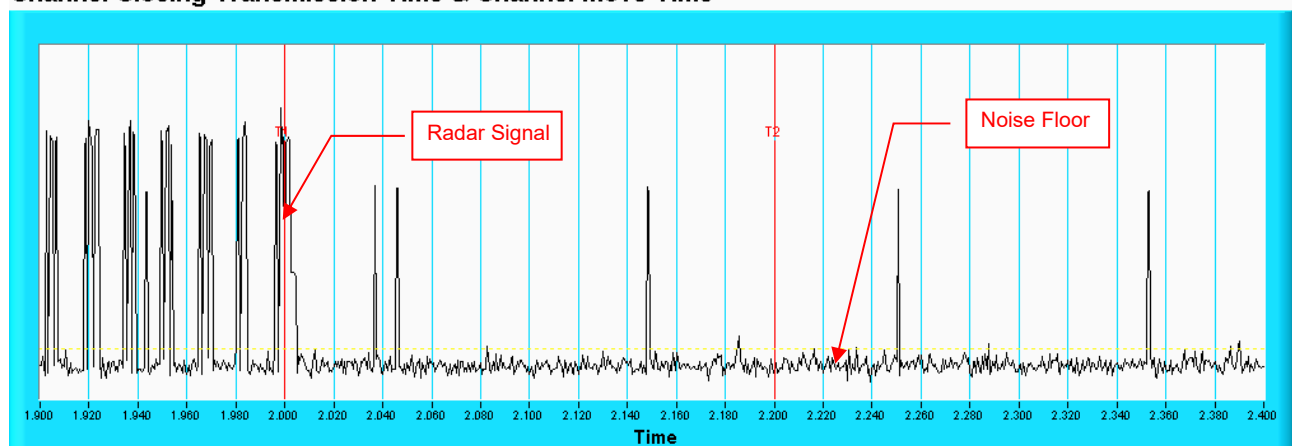
Note: Room-in of the first 500ms after radar signal applied.

## 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.

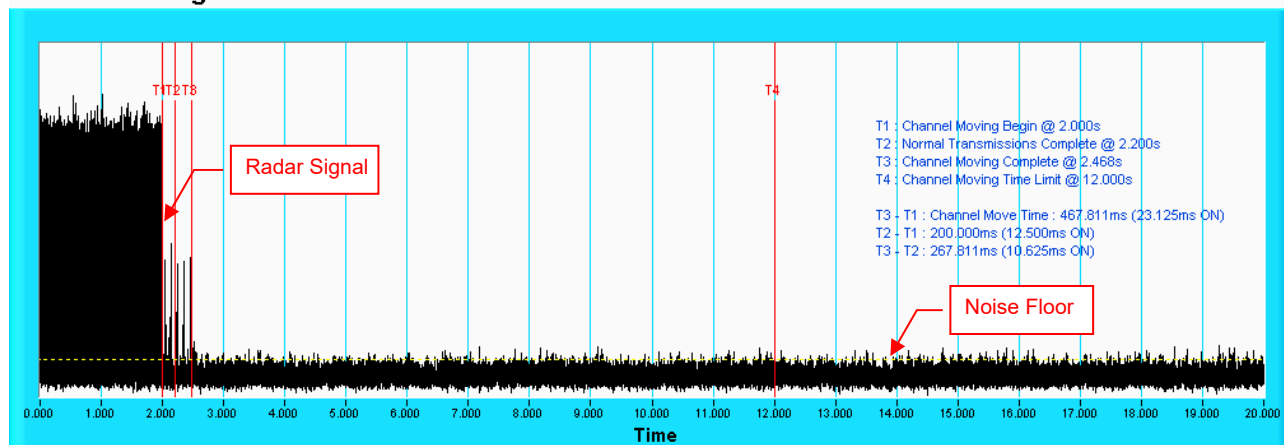
## Channel Closing Transmission Time & Channel Move Time



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

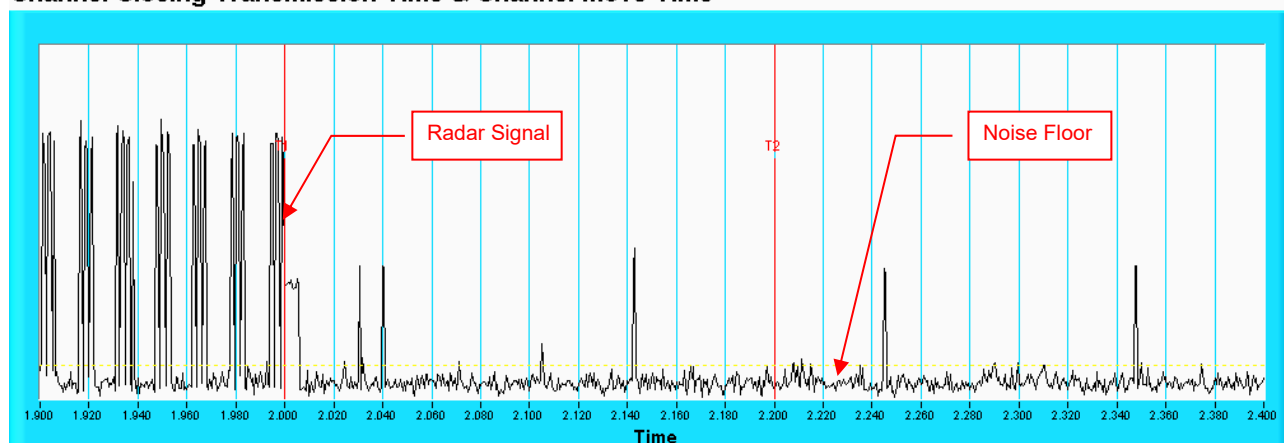


### Radar signal 3 802.11ac (VHT80) Channel Closing Transmission Time & Channel Move Time



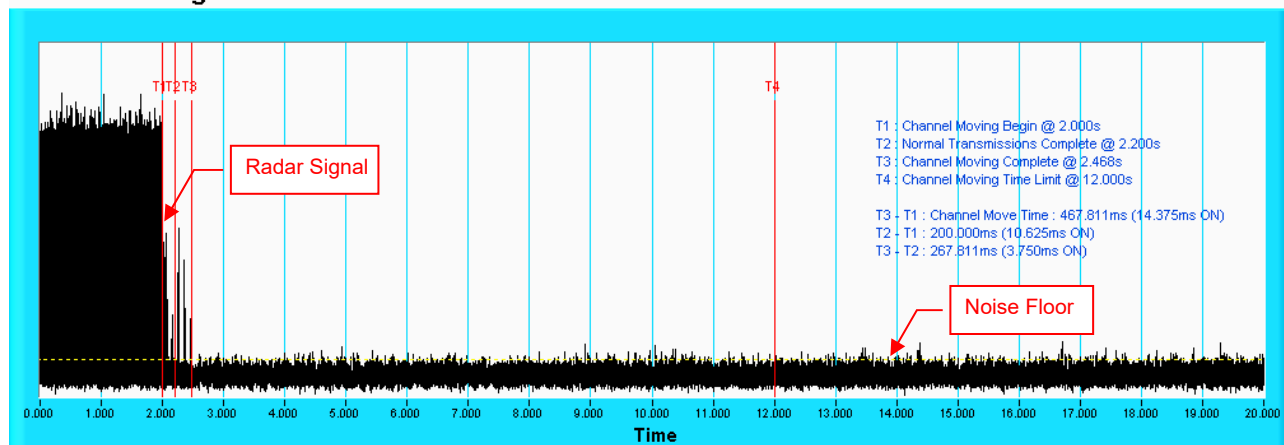
Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

### Channel Closing Transmission Time & Channel Move Time



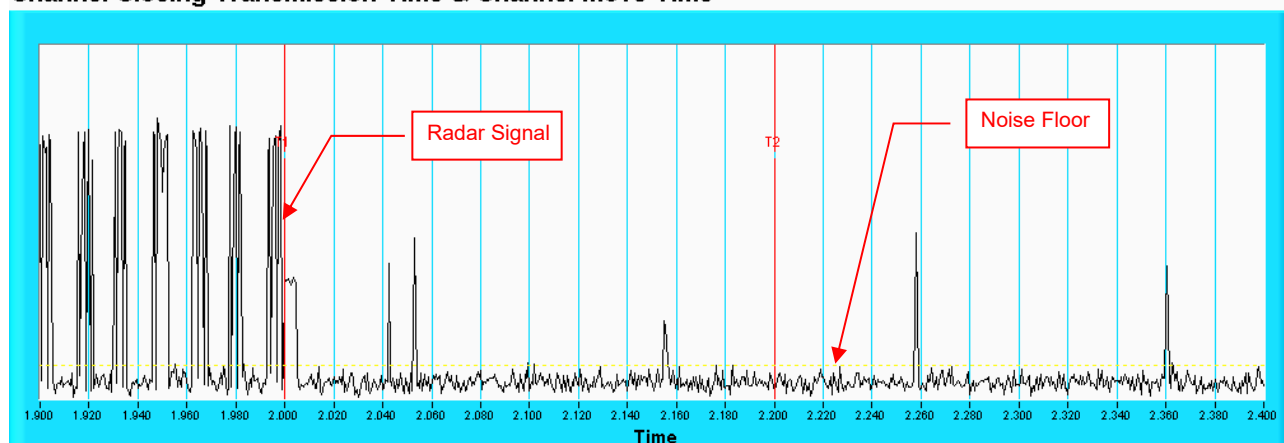
Note: Room-in of the first 500ms after radar signal applied.

# **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.

# Scan Radio

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                                     | 5510                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5490                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5494                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5511                 | 11                                          | 1393                                           | 74               | 718                                      | No        |
| 5                                     | 5491                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5501                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5508                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5493                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5492                 | 1                                           | 1931                                           | 102              | 518                                      | No        |
| 10                                    | 5502                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5504                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5498                 | 23                                          | 326.2                                          | 18               | 3066                                     | No        |
| 13                                    | 5509                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5499                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5503                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5500                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5507                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5505                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5497                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5495                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5506                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5489                 |                                             | 529.4                                          | 28               | 1889                                     | No        |
| 23                                    | 5496                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5497                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5490                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5511                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5492                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5503                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5494                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5498                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |
| Detection Rate: 86.67 %               |                      |                                             |                                                |                  |                                          |           |

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5504                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5492                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5494                 | 28               | 4               | 161     | Yes       |
| 4       | 5501                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5493                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5499                 | 23               | 1.1             | 230     | No        |
| 7       | 5509                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5497                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5503                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5511                 | 27               | 3.6             | 221     | No        |
| 11      | 5490                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5505                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5495                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5502                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5508                 | 29               | 5               | 170     | Yes       |
| 16      | 5510                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5491                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5506                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5496                 | 24               | 1.8             | 223     | No        |
| 20      | 5507                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5489                 | 26               | 2.9             | 224     | No        |
| 22      | 5498                 | 28               | 4               | 160     | No        |
| 23      | 5500                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5507                 | 23               | 1               | 205     | Yes       |
| 25      | 5508                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5494                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5493                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5509                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5506                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5495                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 83.33 %

Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5497                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5502                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5504                 | 18               | 9               | 316     | No        |
| 4       | 5499                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5503                 | 16               | 6.9             | 420     | No        |
| 6       | 5501                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5489                 | 18               | 9.5             | 463     | No        |
| 8       | 5508                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5507                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5492                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5491                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5490                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5494                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5505                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5493                 | 18               | 10              | 395     | Yes       |
| 16      | 5511                 | 17               | 8.1             | 322     | No        |
| 17      | 5496                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5506                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5495                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5498                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5509                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5510                 | 18               | 9               | 411     | Yes       |
| 23      | 5500                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5506                 | 16               | 6               | 431     | Yes       |
| 25      | 5490                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5495                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5511                 | 16               | 6.5             | 447     | No        |
| 28      | 5497                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5489                 | 16               | 6.2             | 438     | No        |
| 30      | 5498                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 80 %

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5494                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5507                 | 15               | 17.2            | 304     | No        |
| 3       | 5502                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5510                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5495                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5505                 | 12               | 11.3            | 249     | No        |
| 7       | 5491                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5490                 | 14               | 15.3            | 258     | Yes       |
| 9       | 5497                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5506                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5504                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5500                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5501                 | 13               | 14.4            | 437     | No        |
| 14      | 5498                 | 16               | 18.9            | 287     | No        |
| 15      | 5493                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5511                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5503                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5489                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5496                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5508                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5509                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5492                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5499                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5495                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5503                 | 15               | 17              | 324     | Yes       |
| 26      | 5506                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5499                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5497                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5494                 | 12               | 11.6            | 438     | No        |
| 30      | 5509                 | 12               | 12.7            | 270     | Yes       |

Detection Rate: 83.33 %

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 11                       | 5500.00                     | LP_Signal_01     | Yes       |
| 2       | 8                        | 5500.00                     | LP_Signal_02     | Yes       |
| 3       | 18                       | 5500.00                     | LP_Signal_03     | Yes       |
| 4       | 17                       | 5500.00                     | LP_Signal_04     | Yes       |
| 5       | 8                        | 5500.00                     | LP_Signal_05     | Yes       |
| 6       | 17                       | 5500.00                     | LP_Signal_06     | Yes       |
| 7       | 20                       | 5500.00                     | LP_Signal_07     | Yes       |
| 8       | 17                       | 5500.00                     | LP_Signal_08     | Yes       |
| 9       | 13                       | 5500.00                     | LP_Signal_09     | Yes       |
| 10      | 17                       | 5500.00                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497.40                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5498.60                     | LP_Signal_12     | No        |
| 13      | 13                       | 5496.20                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5495.00                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5498.20                     | LP_Signal_15     | No        |
| 16      | 12                       | 5495.80                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5499.00                     | LP_Signal_17     | No        |
| 18      | 10                       | 5495.00                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5495.80                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5495.00                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5503.00                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5505.40                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5501.00                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5504.20                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5504.60                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5507.00                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5502.60                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5501.40                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5505.00                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5502.20                     | LP_Signal_30     | Yes       |

Detection Rate: 90 %

The Long Pulse Radar pattern shown in Appendix A.1

### 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 %



| 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 (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                                     | 5519                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5521                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5492                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5500                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5                                     | 5494                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5498                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5496                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5490                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5515                 | 1                                           | 1931                                           | 102              | 518                                      | No        |
| 10                                    | 5525                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5526                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5518                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5502                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5499                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5506                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5513                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5497                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5523                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5517                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5501                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5510                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5509                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5516                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5504                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5527                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5524                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5507                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5514                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5508                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5512                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |
| Detection Rate: 96.67 %               |                      |                                             |                                                |                  |                                          |           |

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5490                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5510                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5494                 | 28               | 4               | 161     | Yes       |
| 4       | 5516                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5512                 | 24               | 1.9             | 193     | Yes       |
| 6       | 5499                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5496                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5497                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5502                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5523                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5498                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5524                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5528                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5503                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5527                 | 29               | 5               | 170     | Yes       |
| 16      | 5507                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5506                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5509                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5504                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5530                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5501                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5511                 | 28               | 4               | 160     | Yes       |
| 23      | 5513                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5525                 | 23               | 1               | 205     | Yes       |
| 25      | 5514                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5515                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5492                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5517                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5495                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5491                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 100 %

Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5516                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5492                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5503                 | 18               | 9               | 316     | No        |
| 4       | 5512                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5506                 | 16               | 6.9             | 420     | No        |
| 6       | 5525                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5528                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5508                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5493                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5498                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5500                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5514                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5513                 | 17               | 7.5             | 437     | No        |
| 14      | 5530                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5520                 | 18               | 10              | 395     | Yes       |
| 16      | 5499                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5491                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5505                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5519                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5509                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5504                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5502                 | 18               | 9               | 411     | Yes       |
| 23      | 5523                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5511                 | 16               | 6               | 431     | Yes       |
| 25      | 5497                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5515                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5510                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5517                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5529                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5507                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 90 %

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5525                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5528                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5504                 | 15               | 17.8            | 316     | Yes       |
| 4       | 5493                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5500                 | 13               | 13.1            | 420     | No        |
| 6       | 5506                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5496                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5523                 | 14               | 15.3            | 258     | No        |
| 9       | 5527                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5508                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5499                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5498                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5497                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5501                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5495                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5520                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5503                 | 13               | 13.4            | 468     | No        |
| 18      | 5507                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5492                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5517                 | 12               | 11.5            | 456     | Yes       |
| 21      | 5510                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5505                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5522                 | 13               | 14.3            | 279     | No        |
| 24      | 5494                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5514                 | 15               | 17              | 324     | Yes       |
| 26      | 5518                 | 13               | 14.5            | 419     | Yes       |
| 27      | 5512                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5526                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5502                 | 12               | 11.6            | 438     | Yes       |
| 30      | 5513                 | 12               | 12.7            | 270     | No        |

Detection Rate: 83.33 %

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 14                       | 5510.00                     | LP_Signal_01     | No        |
| 2       | 11                       | 5510.00                     | LP_Signal_02     | Yes       |
| 3       | 9                        | 5510.00                     | LP_Signal_03     | Yes       |
| 4       | 16                       | 5510.00                     | LP_Signal_04     | Yes       |
| 5       | 6                        | 5510.00                     | LP_Signal_05     | Yes       |
| 6       | 13                       | 5510.00                     | LP_Signal_06     | Yes       |
| 7       | 6                        | 5510.00                     | LP_Signal_07     | Yes       |
| 8       | 8                        | 5510.00                     | LP_Signal_08     | Yes       |
| 9       | 10                       | 5510.00                     | LP_Signal_09     | Yes       |
| 10      | 17                       | 5510.00                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5497.62                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5498.82                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5496.42                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5495.22                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5498.42                     | LP_Signal_15     | No        |
| 16      | 12                       | 5496.02                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5499.22                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5495.22                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5496.02                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5495.22                     | LP_Signal_20     | No        |
| 21      | 15                       | 5522.78                     | LP_Signal_21     | Yes       |
| 22      | 9                        | 5525.18                     | LP_Signal_22     | No        |
| 23      | 20                       | 5520.78                     | LP_Signal_23     | No        |
| 24      | 12                       | 5523.98                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5524.38                     | LP_Signal_25     | Yes       |
| 26      | 5                        | 5526.78                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5522.38                     | LP_Signal_27     | Yes       |
| 28      | 19                       | 5521.18                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5524.78                     | LP_Signal_29     | No        |
| 30      | 17                       | 5521.98                     | LP_Signal_30     | Yes       |

Detection Rate: 80 %

The Long Pulse Radar pattern shown in Appendix A.1

### 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 %

| 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                                     | 5562                 | 15                                          | 1253                                           | 67               | 798                                      | Yes       |
| 2                                     | 5534                 | 16                                          | 1223                                           | 65               | 818                                      | Yes       |
| 3                                     | 5499                 | 4                                           | 1730                                           | 92               | 578                                      | Yes       |
| 4                                     | 5502                 | 11                                          | 1393                                           | 74               | 718                                      | Yes       |
| 5                                     | 5559                 | 22                                          | 1066                                           | 57               | 938                                      | Yes       |
| 6                                     | 5495                 | 7                                           | 1567                                           | 83               | 638                                      | Yes       |
| 7                                     | 5551                 | 2                                           | 1859                                           | 99               | 538                                      | Yes       |
| 8                                     | 5517                 | 8                                           | 1520                                           | 81               | 658                                      | Yes       |
| 9                                     | 5510                 | 1                                           | 1931                                           | 102              | 518                                      | Yes       |
| 10                                    | 5536                 | 19                                          | 1139                                           | 61               | 878                                      | Yes       |
| 11                                    | 5497                 | 21                                          | 1089                                           | 58               | 918                                      | Yes       |
| 12                                    | 5501                 | 23                                          | 326.2                                          | 18               | 3066                                     | Yes       |
| 13                                    | 5530                 | 9                                           | 1475                                           | 78               | 678                                      | Yes       |
| 14                                    | 5503                 | 5                                           | 1672                                           | 89               | 598                                      | Yes       |
| 15                                    | 5539                 | 6                                           | 1618                                           | 86               | 618                                      | Yes       |
| 16                                    | 5505                 |                                             | 1111                                           | 59               | 900                                      | Yes       |
| 17                                    | 5493                 |                                             | 1024                                           | 55               | 977                                      | Yes       |
| 18                                    | 5507                 |                                             | 625.8                                          | 34               | 1598                                     | Yes       |
| 19                                    | 5514                 |                                             | 730.5                                          | 39               | 1369                                     | Yes       |
| 20                                    | 5533                 |                                             | 1181                                           | 63               | 847                                      | Yes       |
| 21                                    | 5543                 |                                             | 400.6                                          | 22               | 2496                                     | Yes       |
| 22                                    | 5532                 |                                             | 529.4                                          | 28               | 1889                                     | Yes       |
| 23                                    | 5524                 |                                             | 347.6                                          | 19               | 2877                                     | Yes       |
| 24                                    | 5509                 |                                             | 641.4                                          | 34               | 1559                                     | Yes       |
| 25                                    | 5504                 |                                             | 508.9                                          | 27               | 1965                                     | Yes       |
| 26                                    | 5515                 |                                             | 345.4                                          | 19               | 2895                                     | Yes       |
| 27                                    | 5516                 |                                             | 580.7                                          | 31               | 1722                                     | Yes       |
| 28                                    | 5527                 |                                             | 786.8                                          | 42               | 1271                                     | Yes       |
| 29                                    | 5568                 |                                             | 808.4                                          | 43               | 1237                                     | Yes       |
| 30                                    | 5544                 |                                             | 517.1                                          | 28               | 1934                                     | Yes       |
| Detection Rate: 100 %                 |                      |                                             |                                                |                  |                                          |           |

### Type 2 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5490                 | 24               | 1.7             | 174     | Yes       |
| 2       | 5511                 | 27               | 3.8             | 176     | Yes       |
| 3       | 5492                 | 28               | 4               | 161     | Yes       |
| 4       | 5545                 | 28               | 4.3             | 226     | Yes       |
| 5       | 5494                 | 24               | 1.9             | 193     | No        |
| 6       | 5554                 | 23               | 1.1             | 230     | Yes       |
| 7       | 5568                 | 29               | 4.5             | 198     | Yes       |
| 8       | 5514                 | 26               | 2.9             | 227     | Yes       |
| 9       | 5498                 | 26               | 2.8             | 171     | Yes       |
| 10      | 5526                 | 27               | 3.6             | 221     | Yes       |
| 11      | 5548                 | 23               | 1.1             | 180     | Yes       |
| 12      | 5536                 | 23               | 1.3             | 189     | Yes       |
| 13      | 5502                 | 25               | 2.5             | 204     | Yes       |
| 14      | 5567                 | 29               | 4.5             | 203     | Yes       |
| 15      | 5504                 | 29               | 5               | 170     | Yes       |
| 16      | 5497                 | 26               | 3.1             | 201     | Yes       |
| 17      | 5559                 | 24               | 2.1             | 218     | Yes       |
| 18      | 5547                 | 25               | 2.6             | 208     | Yes       |
| 19      | 5500                 | 24               | 1.8             | 223     | Yes       |
| 20      | 5544                 | 23               | 1.2             | 220     | Yes       |
| 21      | 5519                 | 26               | 2.9             | 224     | Yes       |
| 22      | 5541                 | 28               | 4               | 160     | Yes       |
| 23      | 5564                 | 25               | 2.5             | 209     | Yes       |
| 24      | 5513                 | 23               | 1               | 205     | Yes       |
| 25      | 5510                 | 27               | 3.7             | 151     | Yes       |
| 26      | 5515                 | 25               | 2.5             | 186     | Yes       |
| 27      | 5516                 | 23               | 1.5             | 190     | Yes       |
| 28      | 5537                 | 23               | 1.3             | 185     | Yes       |
| 29      | 5503                 | 23               | 1.2             | 175     | Yes       |
| 30      | 5561                 | 24               | 1.7             | 216     | Yes       |

Detection Rate: 96.67 %

### Type 3 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5526                 | 16               | 6.7             | 467     | Yes       |
| 2       | 5522                 | 18               | 8.8             | 304     | Yes       |
| 3       | 5517                 | 18               | 9               | 316     | Yes       |
| 4       | 5493                 | 18               | 9.3             | 439     | Yes       |
| 5       | 5555                 | 16               | 6.9             | 420     | Yes       |
| 6       | 5542                 | 16               | 6.1             | 249     | Yes       |
| 7       | 5516                 | 18               | 9.5             | 463     | Yes       |
| 8       | 5551                 | 17               | 7.9             | 258     | Yes       |
| 9       | 5532                 | 17               | 7.8             | 212     | Yes       |
| 10      | 5524                 | 17               | 8.6             | 236     | Yes       |
| 11      | 5570                 | 16               | 6.1             | 474     | Yes       |
| 12      | 5529                 | 16               | 6.3             | 461     | Yes       |
| 13      | 5502                 | 17               | 7.5             | 437     | Yes       |
| 14      | 5563                 | 18               | 9.5             | 287     | Yes       |
| 15      | 5562                 | 18               | 10              | 395     | Yes       |
| 16      | 5564                 | 17               | 8.1             | 322     | Yes       |
| 17      | 5528                 | 16               | 7.1             | 468     | Yes       |
| 18      | 5548                 | 17               | 7.6             | 255     | Yes       |
| 19      | 5527                 | 16               | 6.8             | 423     | Yes       |
| 20      | 5538                 | 16               | 6.2             | 456     | Yes       |
| 21      | 5505                 | 17               | 7.9             | 351     | Yes       |
| 22      | 5490                 | 18               | 9               | 411     | Yes       |
| 23      | 5492                 | 17               | 7.5             | 279     | Yes       |
| 24      | 5496                 | 16               | 6               | 431     | Yes       |
| 25      | 5510                 | 17               | 8.7             | 324     | Yes       |
| 26      | 5544                 | 17               | 7.5             | 419     | Yes       |
| 27      | 5495                 | 16               | 6.5             | 447     | Yes       |
| 28      | 5533                 | 16               | 6.3             | 481     | Yes       |
| 29      | 5520                 | 16               | 6.2             | 438     | Yes       |
| 30      | 5519                 | 16               | 6.7             | 270     | Yes       |

Detection Rate: 100 %

### Type 4 Radar Statistical Performances

| Trial # | Test Frequency (MHz) | Pulses per Burst | Pulse Width(us) | PRI(us) | Detection |
|---------|----------------------|------------------|-----------------|---------|-----------|
| 1       | 5553                 | 12               | 12.5            | 467     | Yes       |
| 2       | 5554                 | 15               | 17.2            | 304     | Yes       |
| 3       | 5514                 | 15               | 17.8            | 316     | No        |
| 4       | 5519                 | 16               | 18.5            | 439     | Yes       |
| 5       | 5492                 | 13               | 13.1            | 420     | Yes       |
| 6       | 5498                 | 12               | 11.3            | 249     | Yes       |
| 7       | 5555                 | 16               | 18.8            | 463     | Yes       |
| 8       | 5531                 | 14               | 15.3            | 258     | No        |
| 9       | 5512                 | 14               | 15.1            | 212     | Yes       |
| 10      | 5493                 | 15               | 16.9            | 236     | Yes       |
| 11      | 5515                 | 12               | 11.2            | 474     | Yes       |
| 12      | 5501                 | 12               | 11.7            | 461     | Yes       |
| 13      | 5521                 | 13               | 14.4            | 437     | Yes       |
| 14      | 5550                 | 16               | 18.9            | 287     | Yes       |
| 15      | 5491                 | 16               | 19.9            | 395     | Yes       |
| 16      | 5523                 | 14               | 15.7            | 322     | Yes       |
| 17      | 5506                 | 13               | 13.4            | 468     | Yes       |
| 18      | 5525                 | 13               | 14.5            | 255     | Yes       |
| 19      | 5508                 | 13               | 12.9            | 423     | Yes       |
| 20      | 5532                 | 12               | 11.5            | 456     | No        |
| 21      | 5504                 | 14               | 15.3            | 351     | Yes       |
| 22      | 5499                 | 15               | 17.8            | 411     | Yes       |
| 23      | 5556                 | 13               | 14.3            | 279     | Yes       |
| 24      | 5495                 | 12               | 11.1            | 431     | Yes       |
| 25      | 5548                 | 15               | 17              | 324     | Yes       |
| 26      | 5522                 | 13               | 14.5            | 419     | No        |
| 27      | 5570                 | 12               | 12.1            | 447     | Yes       |
| 28      | 5552                 | 12               | 11.7            | 481     | Yes       |
| 29      | 5563                 | 12               | 11.6            | 438     | No        |
| 30      | 5568                 | 12               | 12.7            | 270     | Yes       |

Detection Rate:83.33 %

### Type 5 Radar Statistical Performances

| Trial # | Minimum Chirp Width(MHz) | Chirp Center Frequency(MHz) | Test Signal Name | Detection |
|---------|--------------------------|-----------------------------|------------------|-----------|
| 1       | 10                       | 5530.00                     | LP_Signal_01     | Yes       |
| 2       | 7                        | 5530.00                     | LP_Signal_02     | No        |
| 3       | 6                        | 5530.00                     | LP_Signal_03     | Yes       |
| 4       | 12                       | 5530.00                     | LP_Signal_04     | Yes       |
| 5       | 8                        | 5530.00                     | LP_Signal_05     | Yes       |
| 6       | 18                       | 5530.00                     | LP_Signal_06     | Yes       |
| 7       | 13                       | 5530.00                     | LP_Signal_07     | No        |
| 8       | 8                        | 5530.00                     | LP_Signal_08     | Yes       |
| 9       | 9                        | 5530.00                     | LP_Signal_09     | Yes       |
| 10      | 14                       | 5530.00                     | LP_Signal_10     | Yes       |
| 11      | 16                       | 5498.51                     | LP_Signal_11     | Yes       |
| 12      | 19                       | 5499.71                     | LP_Signal_12     | Yes       |
| 13      | 13                       | 5497.31                     | LP_Signal_13     | Yes       |
| 14      | 10                       | 5496.11                     | LP_Signal_14     | Yes       |
| 15      | 18                       | 5499.31                     | LP_Signal_15     | Yes       |
| 16      | 12                       | 5496.91                     | LP_Signal_16     | Yes       |
| 17      | 20                       | 5500.11                     | LP_Signal_17     | Yes       |
| 18      | 10                       | 5496.11                     | LP_Signal_18     | Yes       |
| 19      | 12                       | 5496.91                     | LP_Signal_19     | Yes       |
| 20      | 10                       | 5496.11                     | LP_Signal_20     | Yes       |
| 21      | 15                       | 5561.89                     | LP_Signal_21     | No        |
| 22      | 9                        | 5564.29                     | LP_Signal_22     | Yes       |
| 23      | 20                       | 5559.89                     | LP_Signal_23     | Yes       |
| 24      | 12                       | 5563.09                     | LP_Signal_24     | Yes       |
| 25      | 11                       | 5563.49                     | LP_Signal_25     | No        |
| 26      | 5                        | 5565.89                     | LP_Signal_26     | Yes       |
| 27      | 16                       | 5561.49                     | LP_Signal_27     | No        |
| 28      | 19                       | 5560.29                     | LP_Signal_28     | Yes       |
| 29      | 10                       | 5563.89                     | LP_Signal_29     | Yes       |
| 30      | 17                       | 5561.09                     | LP_Signal_30     | Yes       |

Detection Rate: 83.33 %

The Long Pulse Radar pattern shown in Appendix A.1

### 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 %

| 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

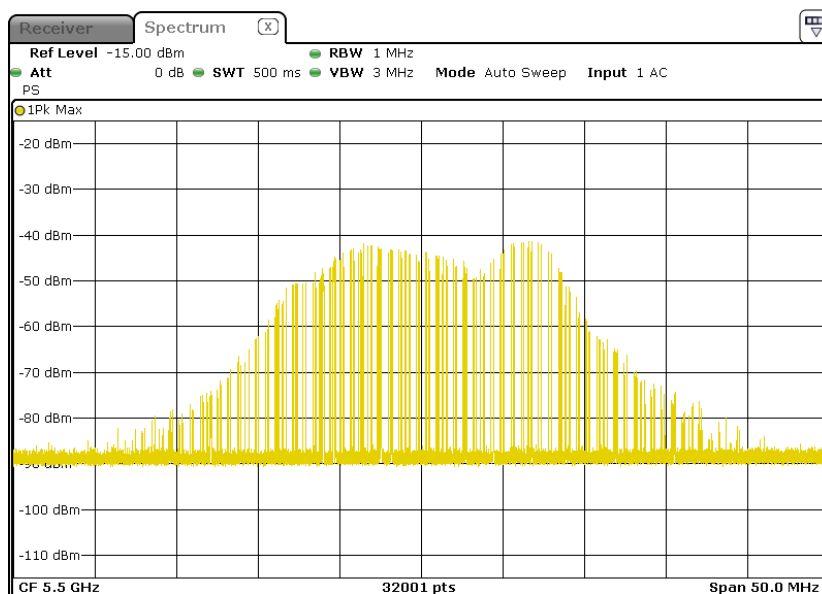
## 6.2.5 Non-Occupancy Period

### 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.

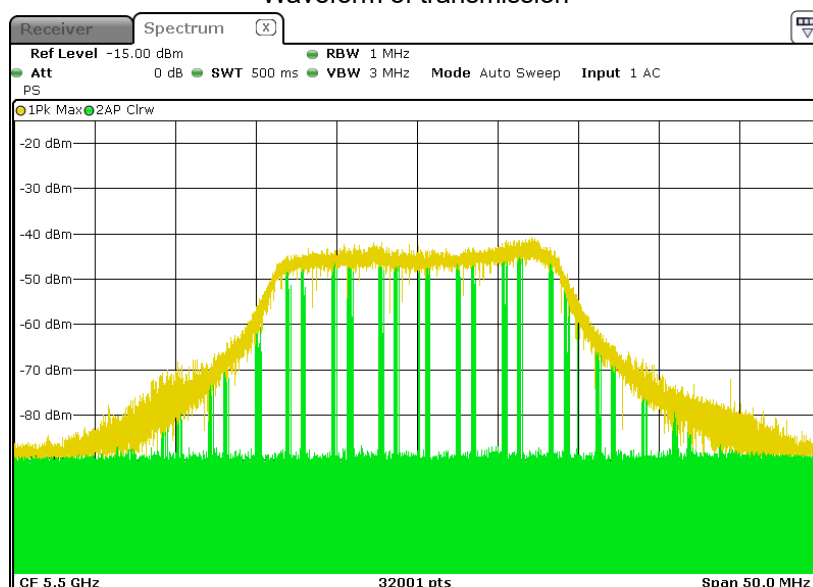
- 1) EUT (Master) links with Client on 5500MHz.

Waveform of EUT links up with Master



- 2) Client plays specified files via master.

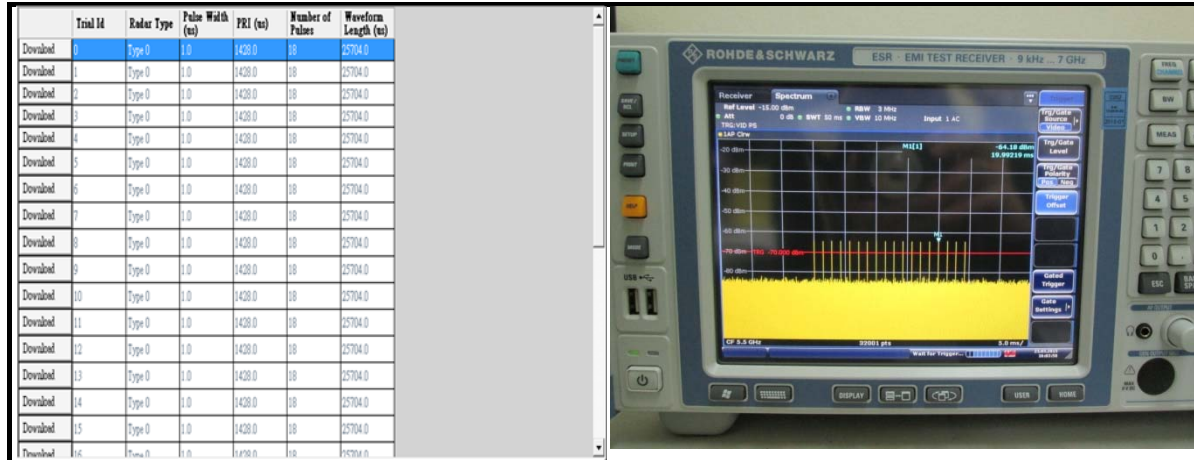
Waveform of transmission



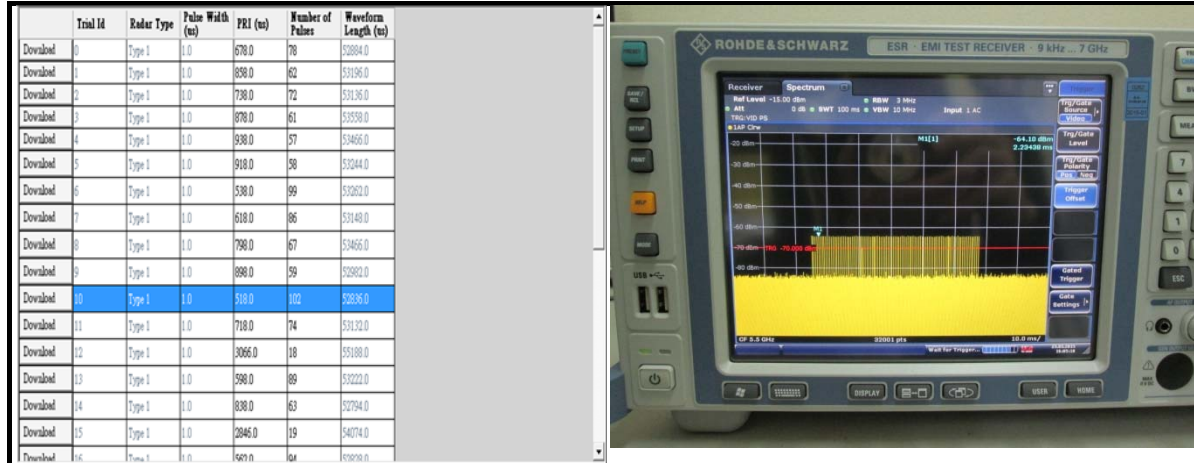


3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

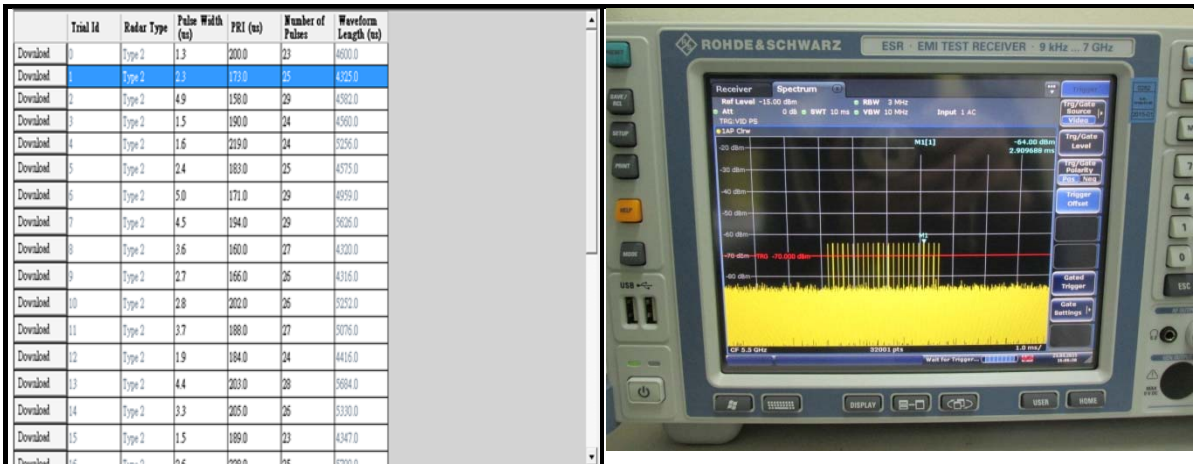
#### Radar 0



#### Radar 1

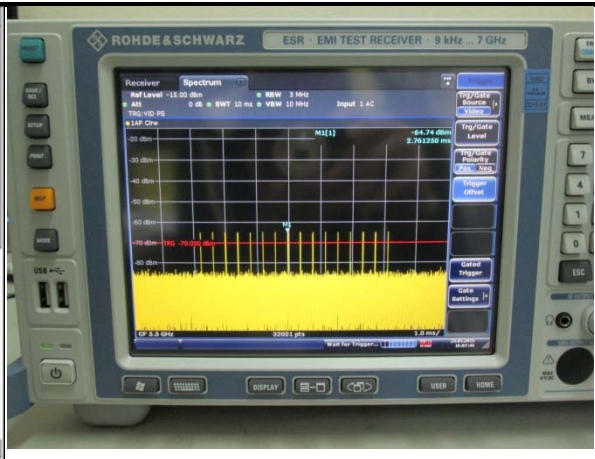


#### Radar 2



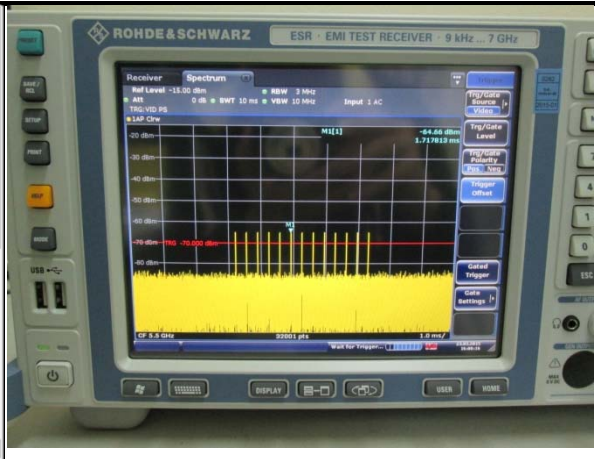
### Radar 3

| Download | Trial ID | Radar Type | Pulse Width (ns) | PRI (ns) | Number of Pulses | Waveform Length (ns) |
|----------|----------|------------|------------------|----------|------------------|----------------------|
| Download | 0        | Type 3     | 8.2              | 355.0    | 17               | 6035.0               |
| Download | 1        | Type 3     | 6.1              | 487.0    | 16               | 7792.0               |
| Download | 2        | Type 3     | 7.1              | 344.0    | 16               | 5504.0               |
| Download | 3        | Type 3     | 9.8              | 288.0    | 18               | 5194.0               |
| Download | 4        | Type 3     | 8.9              | 230.0    | 18               | 4140.0               |
| Download | 5        | Type 3     | 7.9              | 432.0    | 17               | 7344.0               |
| Download | 6        | Type 3     | 8.2              | 207.0    | 17               | 3519.0               |
| Download | 7        | Type 3     | 7.5              | 443.0    | 17               | 7531.0               |
| Download | 8        | Type 3     | 8.1              | 439.0    | 17               | 7463.0               |
| Download | 9        | Type 3     | 6.2              | 223.0    | 16               | 3568.0               |
| Download | 10       | Type 3     | 8.9              | 208.0    | 18               | 3744.0               |
| Download | 11       | Type 3     | 9.6              | 463.0    | 18               | 8334.0               |
| Download | 12       | Type 3     | 8.2              | 441.0    | 17               | 7497.0               |
| Download | 13       | Type 3     | 7.2              | 323.0    | 16               | 5108.0               |
| Download | 14       | Type 3     | 9.5              | 297.0    | 18               | 5346.0               |
| Download | 15       | Type 3     | 8.0              | 412.0    | 17               | 7004.0               |
| Download | 16       | Type 3     | 10.0             | 358.0    | 18               | 6120.0               |



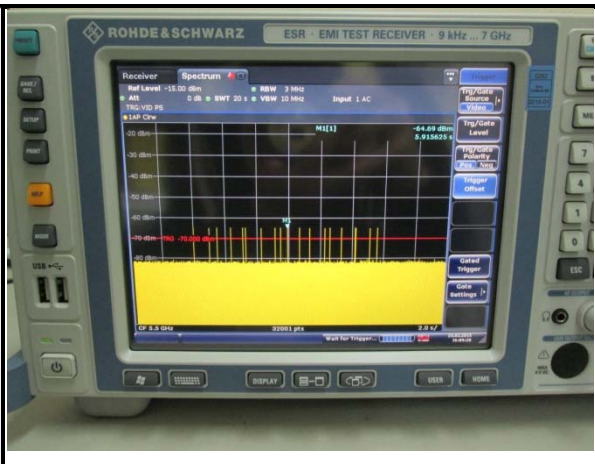
### Radar 4

| Download | Trial ID | Radar Type | Pulse Width (ns) | PRI (ns) | Number of Pulses | Waveform Length (ns) |
|----------|----------|------------|------------------|----------|------------------|----------------------|
| Download | 0        | Type 4     | 16.0             | 355.0    | 14               | 4970.0               |
| Download | 1        | Type 4     | 11.3             | 487.0    | 12               | 5844.0               |
| Download | 2        | Type 4     | 13.5             | 344.0    | 13               | 4472.0               |
| Download | 3        | Type 4     | 19.4             | 288.0    | 16               | 4608.0               |
| Download | 4        | Type 4     | 17.5             | 230.0    | 15               | 3450.0               |
| Download | 5        | Type 4     | 15.3             | 432.0    | 14               | 6048.0               |
| Download | 6        | Type 4     | 15.9             | 207.0    | 14               | 2698.0               |
| Download | 7        | Type 4     | 14.3             | 443.0    | 13               | 5759.0               |
| Download | 8        | Type 4     | 15.8             | 439.0    | 14               | 6146.0               |
| Download | 9        | Type 4     | 11.5             | 223.0    | 12               | 2676.0               |
| Download | 10       | Type 4     | 17.4             | 208.0    | 15               | 3120.0               |
| Download | 11       | Type 4     | 19.0             | 463.0    | 16               | 7408.0               |
| Download | 12       | Type 4     | 16.0             | 441.0    | 14               | 6174.0               |
| Download | 13       | Type 4     | 13.8             | 323.0    | 13               | 4199.0               |
| Download | 14       | Type 4     | 18.9             | 297.0    | 16               | 4752.0               |
| Download | 15       | Type 4     | 15.5             | 412.0    | 14               | 5708.0               |
| Download | 16       | Type 4     | 10.0             | 358.0    | 14               | 4184.0               |

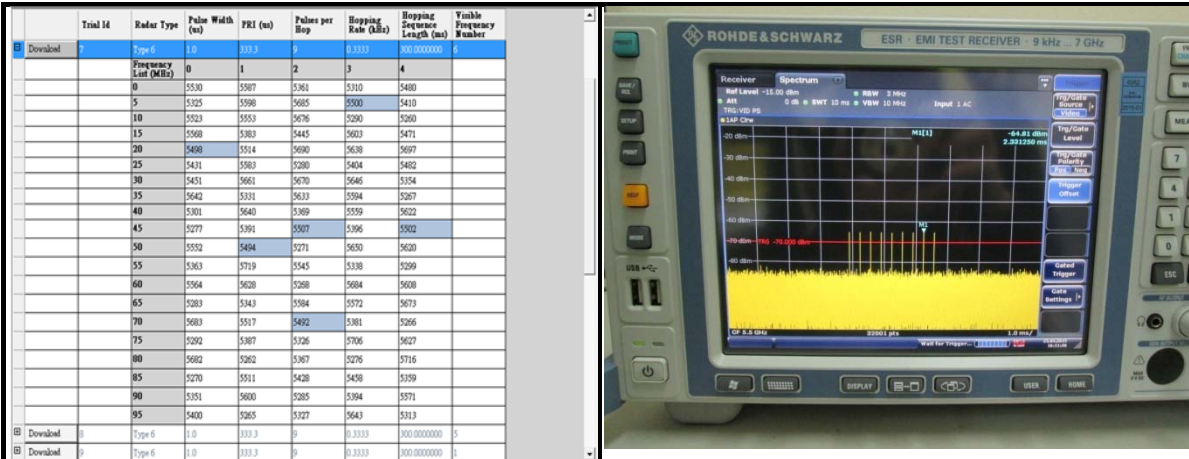


### Radar 5

| Download | Trial ID | Radar Type        | Number of Bursts | Burst Period (s)  | Waveform Length (s)        | Center Frequency (GHz) |            |            |  |
|----------|----------|-------------------|------------------|-------------------|----------------------------|------------------------|------------|------------|--|
| Download | Burst ID | Burst Offset (ns) | Pulse Width (ns) | Chirp Width (GHz) | Number of Pulses per Burst | PRI-1 (ns)             | PRI-2 (ns) | PRI-3 (ns) |  |
| Download | 0        | 145314.0          | 89.2             | 17                | 0                          | 1780.0                 | 1158.0     | 1569.0     |  |
| Download | 1        | 206226.0          | 94.4             | 17                | 0                          | 1000.0                 | 1202.0     | 1924.0     |  |
| Download | 2        | 4480.0            | 96.9             | 17                | 0                          | 1520.0                 | -          | -          |  |
| Download | 3        | 124774.0          | 90.6             | 17                | 0                          | 1936.0                 | 1943.0     | 1734.0     |  |
| Download | 4        | 127343.0          | 52.9             | 17                | 0                          | 1066.0                 | -          | -          |  |
| Download | 5        | 489356.0          | 66.7             | 17                | 0                          | 1618.0                 | 1820.0     | -          |  |
| Download | 6        | 646662.0          | 99.1             | 17                | 0                          | 1190.0                 | 1672.0     | 1826.0     |  |
| Download | 7        | 145407.0          | 88.9             | 17                | 0                          | 1357.0                 | 1365.0     | 1136.0     |  |
| Download | 8        | 306271.0          | 75.5             | 17                | 0                          | 1936.0                 | 1699.0     | -          |  |
| Download | 9        | 467690.0          | 82.9             | 17                | 0                          | 1704.0                 | 1061.0     | -          |  |
| Download | 10       | 627431.0          | 94.5             | 17                | 0                          | 1287.0                 | 1333.0     | 1492.0     |  |
| Download | 11       | 125722.0          | 72.1             | 17                | 0                          | 1722.0                 | 1576.0     | -          |  |
| Download | 12       | 286499.0          | 96.8             | 17                | 0                          | 1245.0                 | 1627.0     | 1280.0     |  |
| Download | 13       | 448457.0          | 51.6             | 17                | 0                          | 1875.0                 | -          | -          |  |
| Download | 14       | 610772.0          | 53.0             | 17                | 0                          | 1131.0                 | -          | -          |  |
| Download | 15       | 105717.0          | 96.2             | 17                | 0                          | 1825.0                 | 1178.0     | 1470.0     |  |
| Download | 16       | 266622.0          | 80.7             | 17                | 0                          | 1869.0                 | 1870.0     | -          |  |
| Download | 17       | 428794.0          | 90.6             | 17                | 0                          | 1569.0                 | -          | -          |  |
| Download | 0        | Type 5            | 18               | 0.66666667        | 12.00000000                | 5.500000000            | -          | -          |  |
| Download | 10       | Type 5            | 10               | 1.300000000       | 12.00000000                | 5.494200000            | -          | -          |  |
| Download | 11       | Type 5            | 11               | 0.428571429       | 11.00000000                | 4.490000000            | -          | -          |  |



## Radar 6

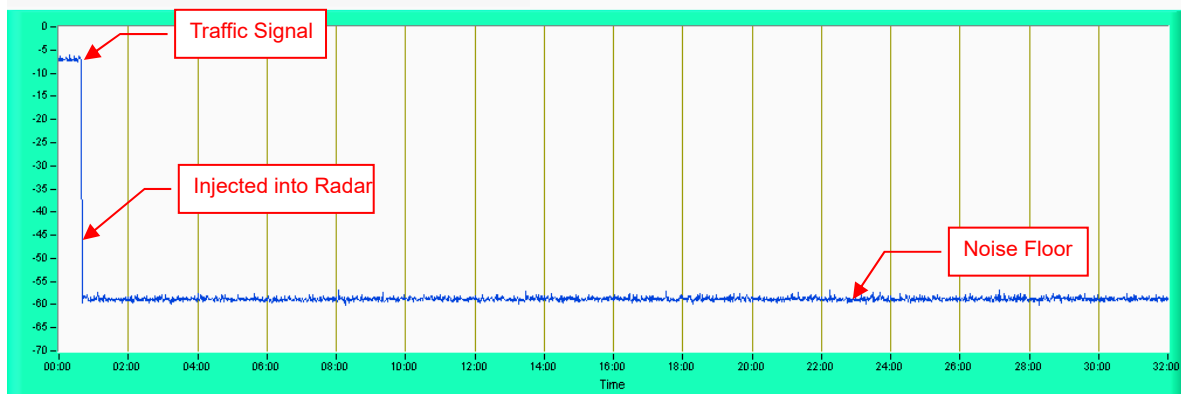


4) 5500MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

## Radio 2

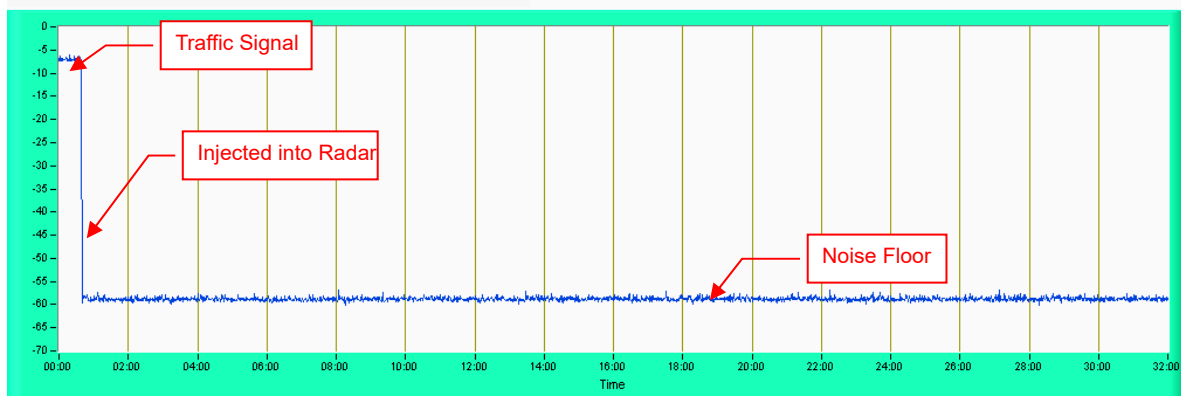
### 802.11ax (HE20)



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

## Scan Radio

### 802.11ac (VHT20)



### 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 MHz to 5350 MHz and 5470 MHz 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 and approved according to ISO/IEC 17025.

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

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

## Appendix A

### Radar Test Signal

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

##### Radio 2

##### 802.11ax (HE20)

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 | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 13          | 77.8            | 1665.0     | 1477.0     | -          |
| 2     | 1                | 13          | 51.9            | 1074.0     | -          | -          |
| 3     | 1                | 13          | 63.8            | 1584.0     | -          | -          |
| 4     | 3                | 13          | 96.6            | 1682.0     | 1786.0     | 1843.0     |
| 5     | 3                | 13          | 85.9            | 1795.0     | 1215.0     | 1729.0     |
| 6     | 2                | 13          | 73.7            | 1198.0     | 1549.0     | -          |
| 7     | 2                | 13          | 77.2            | 1837.0     | 1819.0     | -          |
| 8     | 2                | 13          | 68.4            | 1587.0     | 1114.0     | -          |
| 9     | 2                | 13          | 76.7            | 2000.0     | 1155.0     | -          |
| 10    | 1                | 13          | 53.2            | 1147.0     | -          | -          |
| 11    | 3                | 13          | 85.7            | 1433.0     | 1695.0     | 1394.0     |
| 12    | 3                | 13          | 94.3            | 1670.0     | 1426.0     | 1935.0     |
| 13    | 2                | 13          | 77.6            | 1294.0     | 1671.0     | -          |
| 14    | 1                | 13          | 65.7            | 1512.0     | -          | -          |
| 15    | 3                | 13          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 5           | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 5           | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 5           | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 5           | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 5           | 65.9            | 1432.0     | -          | -          |
| 6     | 3                | 5           | 83.8            | 1356.0     | 1292.0     | 1419.0     |
| 7     | 1                | 5           | 65.5            | 1543.0     | -          | -          |
| 8     | 3                | 5           | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 9           | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 9           | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 9           | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 9           | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 9           | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 9           | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 9           | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 9           | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 9           | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 9           | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 9           | 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                | 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: 5500.0MHz



| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 16          | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 16          | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 16          | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 16          | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 16          | 83.9            | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                | 16          | 89.1            | 1240.0     | 1384.0     | 1939.0     |
| 8     | 2                | 16          | 81.8            | 1833.0     | 1676.0     | -          |
| 9     | 1                | 16          | 50.3            | 1075.0     | -          | -          |
| 10    | 3                | 16          | 87.1            | 1116.0     | 1996.0     | 1756.0     |
| 11    | 2                | 16          | 71.3            | 1225.0     | 1815.0     | -          |
| 12    | 3                | 16          | 97.5            | 1884.0     | 1465.0     | 1132.0     |
| 13    | 3                | 16          | 90.6            | 1561.0     | 1040.0     | 1354.0     |
| 14    | 3                | 16          | 86.3            | 1596.0     | 1183.0     | 1792.0     |
| 15    | 3                | 16          | 97.6            | 1365.0     | 1073.0     | 1361.0     |
| 16    | 3                | 16          | 84.7            | 1021.0     | 1718.0     | 1854.0     |
| 17    | 3                | 16          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 12          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 12          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 12          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 12          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 12          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 12          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 12          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 12          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 12          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 12          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 12          | 89.4            | 1310.0     | 1594.0     | 1827.0     |

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 12 | 1 | 12 | 63.4 | 1568.0 | -      | - |
| 13 | 2 | 12 | 69.6 | 1307.0 | 1925.0 | - |
| 14 | 2 | 12 | 74.5 | 1264.0 | 1846.0 | - |
| 15 |   |    |      |        |        |   |
| 16 |   |    |      |        |        |   |
| 17 |   |    |      |        |        |   |
| 18 |   |    |      |        |        |   |
| 19 |   |    |      |        |        |   |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 15

Chirp Center Frequency: 5500.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 13          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 13          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 13          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 13          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 13          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 13          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 13          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 13          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 13          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 13          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 13          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 13          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 13          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 13          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 13          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 10          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 10          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 10          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 10          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 10          | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 10          | 67.6            | 1175.0     | 1027.0     | -          |
| 8     | 2                | 10          | 75.7            | 1026.0     | 1871.0     | -          |
| 9     | 1                | 10          | 60.9            | 1798.0     | -          | -          |
| 10    | 1                | 10          | 64.2            | 1138.0     | -          | -          |
| 11    | 2                | 10          | 78.8            | 1784.0     | 1604.0     | -          |
| 12    | 3                | 10          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 13          | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 13          | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 13          | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 13          | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 13          | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 13          | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 13          | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 13          | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 13          | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 13          | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 13          | 63.0            | 1730.0     | -          | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 12 | 3 | 13 | 91.8 | 1143.0 | 1270.0 | 1347.0 |
| 13 | 2 | 13 | 79.3 | 1274.0 | 1992.0 | -      |
| 14 | 1 | 13 | 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                | 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  
 Chrip Center Frequency: 5497.01 MHz

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

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_12  
 Number of Bursts in Trial: 19  
 Chrip Center Frequency: 5498.21 MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 19          | 98.9            | 1381.0     | 1680.0     | 1488.0     |
| 2     | 2                | 19          | 82.3            | 1716.0     | 1855.0     | -          |
| 3     | 3                | 19          | 86.7            | 1211.0     | 1400.0     | 1919.0     |
| 4     | 3                | 19          | 89.7            | 1861.0     | 1068.0     | 1282.0     |
| 5     | 3                | 19          | 98.6            | 1507.0     | 1194.0     | 1461.0     |
| 6     | 2                | 19          | 71.1            | 1921.0     | 1789.0     | -          |
| 7     | 1                | 19          | 55.9            | 1947.0     | -          | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 8  | 2 | 19 | 67.9 | 1350.0 | 1372.0 | -      |
| 9  | 3 | 19 | 84.4 | 1203.0 | 1107.0 | 1443.0 |
| 10 | 1 | 19 | 58.8 | 1715.0 | -      | -      |
| 11 | 1 | 19 | 65.6 | 1017.0 | -      | -      |
| 12 | 2 | 19 | 78.5 | 1911.0 | 1704.0 | -      |
| 13 | 2 | 19 | 82.3 | 1845.0 | 1686.0 | -      |
| 14 | 3 | 19 | 90.1 | 1938.0 | 1071.0 | 1266.0 |
| 15 | 3 | 19 | 90.2 | 1989.0 | 1089.0 | 1950.0 |
| 16 | 2 | 19 | 83.1 | 1943.0 | 1406.0 | -      |
| 17 | 1 | 19 | 58.8 | 1742.0 | -      | -      |
| 18 | 2 | 19 | 77.0 | 1187.0 | 1657.0 | -      |
| 19 | 1 | 19 | 55.0 | 1012.0 | -      | -      |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chrip Center Frequency: 5495.81 MHz

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

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5494.61 MHz

| 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: 5497.81 MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 18          | 93.3            | 1983.0     | 1912.0     | 1535.0     |
| 2     | 2                | 18          | 69.1            | 1102.0     | 1794.0     | -          |
| 3     | 3                | 18          | 86.9            | 1044.0     | 1152.0     | 1148.0     |
| 4     | 3                | 18          | 84.9            | 1894.0     | 1948.0     | 1118.0     |
| 5     | 2                | 18          | 72.3            | 1094.0     | 1916.0     | -          |
| 6     | 1                | 18          | 51.7            | 1447.0     | -          | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 7  | 1 | 18 | 58.3 | 1429.0 | -      | -      |
| 8  | 1 | 18 | 60.8 | 1979.0 | -      | -      |
| 9  | 1 | 18 | 57.1 | 1641.0 | -      | -      |
| 10 | 3 | 18 | 88.9 | 1886.0 | 1964.0 | 1489.0 |
| 11 | 2 | 18 | 72.0 | 1909.0 | 1297.0 | -      |
| 12 | 3 | 18 | 90.9 | 1261.0 | 1566.0 | 1370.0 |
| 13 | 1 | 18 | 59.8 | 1552.0 | -      | -      |
| 14 | 2 | 18 | 70.0 | 1759.0 | 1291.0 | -      |
| 15 | 2 | 18 | 67.2 | 1625.0 | 1881.0 | -      |
| 16 | 3 | 18 | 91.2 | 1382.0 | 1832.0 | 1661.0 |
| 17 | 1 | 18 | 56.5 | 1483.0 | -      | -      |
| 18 | 1 | 18 | 51.2 | 1237.0 | -      | -      |
| 19 | 2 | 18 | 74.1 | 1471.0 | 1245.0 | -      |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chrip Center Frequency: 5495.41MHz

| 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: 5498.61 MHz

| 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: 5494.61 MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 86.4            | 1259.0     | 1918.0     | 1455.0     |
| 2     | 3                | 10          | 92.2            | 1598.0     | 1719.0     | 1895.0     |
| 3     | 2                | 10          | 80.4            | 1816.0     | 1899.0     | -          |
| 4     | 1                | 10          | 54.3            | 1335.0     | -          | -          |
| 5     | 1                | 10          | 53.1            | 1303.0     | -          | -          |
| 6     | 2                | 10          | 69.4            | 1503.0     | 1546.0     | -          |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 7  | 2 | 10 | 69.1  | 1279.0 | 1639.0 | -      |
| 8  | 3 | 10 | 100.0 | 1375.0 | 1438.0 | 1595.0 |
| 9  | 2 | 10 | 79.6  | 1239.0 | 1705.0 | -      |
| 10 | 3 | 10 | 88.4  | 1374.0 | 1579.0 | 1623.0 |
| 11 | 1 | 10 | 53.3  | 1016.0 | -      | -      |
| 12 | 1 | 10 | 65.3  | 1709.0 | -      | -      |
| 13 |   |    |       |        |        |        |
| 14 |   |    |       |        |        |        |
| 15 |   |    |       |        |        |        |
| 16 |   |    |       |        |        |        |
| 17 |   |    |       |        |        |        |
| 18 |   |    |       |        |        |        |
| 19 |   |    |       |        |        |        |
| 20 |   |    |       |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chirp Center Frequency: 5495.41 MHz

| 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: 5494.61 MHz

| 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: 5503.39 MHz

| 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: 5505.79 MHz

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

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5501.39 MHz

| 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: 5504.59 MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 12          | 50.1            | 1841.0     | -          | -          |
| 2     | 3                | 12          | 93.5            | 1590.0     | 1081.0     | 1413.0     |
| 3     | 2                | 12          | 68.8            | 1707.0     | 1577.0     | -          |
| 4     | 1                | 12          | 56.3            | 1056.0     | -          | -          |
| 5     | 3                | 12          | 86.0            | 1953.0     | 1108.0     | 1987.0     |
| 6     | 2                | 12          | 75.2            | 1572.0     | 1536.0     | -          |
| 7     | 1                | 12          | 54.4            | 1517.0     | -          | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 8  | 2 | 12 | 71.1 | 1329.0 | 1243.0 | -      |
| 9  | 2 | 12 | 76.2 | 1940.0 | 1770.0 | -      |
| 10 | 2 | 12 | 80.2 | 1098.0 | 1209.0 | -      |
| 11 | 2 | 12 | 79.7 | 1588.0 | 1214.0 | -      |
| 12 | 3 | 12 | 90.9 | 1615.0 | 1862.0 | 1601.0 |
| 13 | 2 | 12 | 68.7 | 1377.0 | 1441.0 | -      |
| 14 | 2 | 12 | 67.4 | 1872.0 | 1313.0 | -      |
| 15 |   |    |      |        |        |        |
| 16 |   |    |      |        |        |        |
| 17 |   |    |      |        |        |        |
| 18 |   |    |      |        |        |        |
| 19 |   |    |      |        |        |        |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chrip Center Frequency: 5504.99 MHz

| 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: 5507.39 MHz

| 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    |                  |             |                 |            |            |            |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5502.99 MHz

| 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 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5501.79 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 12

Chirp Center Frequency: 5505.39 MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 50.5            | 1857.0     | -          | -          |
| 2     | 1                | 10          | 55.7            | 1246.0     | -          | -          |
| 3     | 3                | 10          | 85.8            | 1774.0     | 1002.0     | 1967.0     |



|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 4  | 2 | 10 | 76.9 | 1125.0 | 1474.0 | -      |
| 5  | 2 | 10 | 75.1 | 1254.0 | 1052.0 | -      |
| 6  | 3 | 10 | 92.3 | 1180.0 | 1486.0 | 1492.0 |
| 7  | 2 | 10 | 78.1 | 1301.0 | 1757.0 | -      |
| 8  | 3 | 10 | 92.2 | 1898.0 | 1252.0 | 1713.0 |
| 9  | 3 | 10 | 89.0 | 1260.0 | 1706.0 | 1411.0 |
| 10 | 2 | 10 | 70.9 | 1578.0 | 1620.0 | -      |
| 11 | 1 | 10 | 63.1 | 1782.0 | -      | -      |
| 12 | 1 | 10 | 55.3 | 1522.0 | -      | -      |
| 13 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5502.59 MHz

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

## 802.11ax (HE40)

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5510.0MHz

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

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 7  | 1 | 13 | 65.5 | 1543.0 | -      | -      |
| 8  | 3 | 13 | 98.6 | 1548.0 | 1796.0 | 1728.0 |
| 9  |   |    |      |        |        |        |
| 10 |   |    |      |        |        |        |
| 11 |   |    |      |        |        |        |
| 12 |   |    |      |        |        |        |
| 13 |   |    |      |        |        |        |
| 14 |   |    |      |        |        |        |
| 15 |   |    |      |        |        |        |
| 16 |   |    |      |        |        |        |
| 17 |   |    |      |        |        |        |
| 18 |   |    |      |        |        |        |
| 19 |   |    |      |        |        |        |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

Number of Bursts in Trial: 11

Chirp Center Frequency: 5510.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 8           | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 8           | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 8           | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 8           | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 8           | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 8           | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 8           | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 8           | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 8           | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 8           | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 8           | 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 per Burst | Chirp (MHz) | Pulse 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 7           | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 7           | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 7           | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 7           | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 7           | 83.9            | 1278.0     | 1232.0     | 1459.0     |
| 7     | 3                | 7           | 89.1            | 1240.0     | 1384.0     | 1939.0     |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 8  | 2 | 7 | 81.8 | 1833.0 | 1676.0 | -      |
| 9  | 1 | 7 | 50.3 | 1075.0 | -      | -      |
| 10 | 3 | 7 | 87.1 | 1116.0 | 1996.0 | 1756.0 |
| 11 | 2 | 7 | 71.3 | 1225.0 | 1815.0 | -      |
| 12 | 3 | 7 | 97.5 | 1884.0 | 1465.0 | 1132.0 |
| 13 | 3 | 7 | 90.6 | 1561.0 | 1040.0 | 1354.0 |
| 14 | 3 | 7 | 86.3 | 1596.0 | 1183.0 | 1792.0 |
| 15 | 3 | 7 | 97.6 | 1365.0 | 1073.0 | 1361.0 |
| 16 | 3 | 7 | 84.7 | 1021.0 | 1718.0 | 1854.0 |
| 17 | 3 | 7 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 11          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 11          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 11          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 11          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 11          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 11          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 11          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 11          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 11          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 11          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 11          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 11          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 11          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 11          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 7           | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 7           | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 7           | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 7           | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 7           | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 7           | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 7           | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 7           | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 7           | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 7           | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 7           | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 7           | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 7           | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 7           | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 7           | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 10          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 10          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 10          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 10          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 10          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 10          | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 10          | 67.6            | 1175.0     | 1027.0     | -          |
| 8     | 2                | 10          | 75.7            | 1026.0     | 1871.0     | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 9  | 1 | 10 | 60.9 | 1798.0 | -      | -      |
| 10 | 1 | 10 | 64.2 | 1138.0 | -      | -      |
| 11 | 2 | 10 | 78.8 | 1784.0 | 1604.0 | -      |
| 12 | 3 | 10 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 15          | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 15          | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 15          | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 15          | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 15          | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 15          | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 15          | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 15          | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 15          | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 15          | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 15          | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 15          | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 15          | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 15          | 64.3            | 1937.0     | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chirp Center Frequency: 5510.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 7           | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 7           | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 7           | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 7           | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 7           | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 7           | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 7           | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 7           | 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: 5497.35MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |
| 4     | 1                | 16          | 66.2            | 1393.0     | -          | -          |
| 5     | 2                | 16          | 70.8            | 1968.0     | 1821.0     | -          |
| 6     | 1                | 16          | 52.3            | 1740.0     | -          | -          |



|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 7  | 2 | 16 | 78.9 | 1308.0 | 1984.0 | - |
| 8  | 2 | 16 | 70.9 | 1050.0 | 1358.0 | - |
| 9  | 2 | 16 | 75.6 | 1437.0 | 1430.0 | - |
| 10 | 1 | 16 | 59.1 | 1697.0 | -      | - |
| 11 | 2 | 16 | 77.0 | 1397.0 | 1304.0 | - |
| 12 | 2 | 16 | 67.9 | 1803.0 | 1083.0 | - |
| 13 | 2 | 16 | 81.2 | 1720.0 | 1932.0 | - |
| 14 | 2 | 16 | 78.7 | 1247.0 | 1121.0 | - |
| 15 | 1 | 16 | 63.3 | 1634.0 | -      | - |
| 16 | 2 | 16 | 68.9 | 1849.0 | 1423.0 | - |
| 17 | 1 | 16 | 59.3 | 1093.0 | -      | - |
| 18 |   |    |      |        |        |   |
| 19 |   |    |      |        |        |   |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5498.55MHz

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

20

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chrip Center Frequency: 5496.15MHz

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chrip Center Frequency: 5494.95MHz

| Burst | Pulses per Burst | Chrip (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: 5498.15MHz

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

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 19 | 2 | 18 | 74.1 | 1471.0 | 1245.0 | - |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chrip Center Frequency: 5495.75MHz

| 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

Chrip Center Frequency: 5498.95MHz

| Burst | Pulses per Burst | Chrip (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: 5494.95MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chrip Center Frequency: 5495.75MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 12

Chrip Center Frequency: 5494.95MHz

| 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: 5523.05MHz

| 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: 5525.45MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5521.05MHz

| 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: 5524.25MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5524.65MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5527.05MHz

| 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 |   |   |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5522.65MHz

| 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    |                  |             |                 |            |            |            |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5521.45 MHz

| 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: 5525.05MHz

| 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    |                  |             |                 |            |            |            |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chrip Center Frequency: 5522.25 MHz

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

## 802.11ax (HE80)

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 14          | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 14          | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 14          | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 14          | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 14          | 65.9            | 1432.0     | -          | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 6  | 3 | 14 | 83.8 | 1356.0 | 1292.0 | 1419.0 |
| 7  | 1 | 14 | 65.5 | 1543.0 | -      | -      |
| 8  | 3 | 14 | 98.6 | 1548.0 | 1796.0 | 1728.0 |
| 9  |   |    |      |        |        |        |
| 10 |   |    |      |        |        |        |
| 11 |   |    |      |        |        |        |
| 12 |   |    |      |        |        |        |
| 13 |   |    |      |        |        |        |
| 14 |   |    |      |        |        |        |
| 15 |   |    |      |        |        |        |
| 16 |   |    |      |        |        |        |
| 17 |   |    |      |        |        |        |
| 18 |   |    |      |        |        |        |
| 19 |   |    |      |        |        |        |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

Number of Bursts in Trial: 11

Chirp Center Frequency: 5530.0MHz

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

Chrip Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse 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

Chrip Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 14          | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 14          | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 14          | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 14          | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 14          | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 14          | 83.9            | 1278.0     | 1232.0     | 1459.0     |



|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 7  | 3 | 14 | 89.1 | 1240.0 | 1384.0 | 1939.0 |
| 8  | 2 | 14 | 81.8 | 1833.0 | 1676.0 | -      |
| 9  | 1 | 14 | 50.3 | 1075.0 | -      | -      |
| 10 | 3 | 14 | 87.1 | 1116.0 | 1996.0 | 1756.0 |
| 11 | 2 | 14 | 71.3 | 1225.0 | 1815.0 | -      |
| 12 | 3 | 14 | 97.5 | 1884.0 | 1465.0 | 1132.0 |
| 13 | 3 | 14 | 90.6 | 1561.0 | 1040.0 | 1354.0 |
| 14 | 3 | 14 | 86.3 | 1596.0 | 1183.0 | 1792.0 |
| 15 | 3 | 14 | 97.6 | 1365.0 | 1073.0 | 1361.0 |
| 16 | 3 | 14 | 84.7 | 1021.0 | 1718.0 | 1854.0 |
| 17 | 3 | 14 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 13          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 13          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 13          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 13          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 13          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 13          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 13          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 13          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 13          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 13          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 13          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 13          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 13          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 13          | 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                | 11          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 11          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 11          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 11          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 11          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 11          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 11          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 11          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 11          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 11          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 11          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 11          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 11          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 11          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 11          | 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                | 13          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 13          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 13          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 13          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 13          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 13          | 72.2            | 1771.0     | 1184.0     | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 7  | 2 | 13 | 67.6 | 1175.0 | 1027.0 | -      |
| 8  | 2 | 13 | 75.7 | 1026.0 | 1871.0 | -      |
| 9  | 1 | 13 | 60.9 | 1798.0 | -      | -      |
| 10 | 1 | 13 | 64.2 | 1138.0 | -      | -      |
| 11 | 2 | 13 | 78.8 | 1784.0 | 1604.0 | -      |
| 12 | 3 | 13 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 14          | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 14          | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 14          | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 14          | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 14          | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 14          | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 14          | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 14          | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 14          | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 14          | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 14          | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 14          | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 14          | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 14          | 64.3            | 1937.0     | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

20

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chrip Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 17          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 17          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 17          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 17          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 17          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 17          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 17          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 17          | 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

Chrip Center Frequency: 5498.05MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 3  | 3 | 16 | 91.7 | 1999.0 | 1702.0 | 1462.0 |
| 4  | 1 | 16 | 66.2 | 1393.0 | -      | -      |
| 5  | 2 | 16 | 70.8 | 1968.0 | 1821.0 | -      |
| 6  | 1 | 16 | 52.3 | 1740.0 | -      | -      |
| 7  | 2 | 16 | 78.9 | 1308.0 | 1984.0 | -      |
| 8  | 2 | 16 | 70.9 | 1050.0 | 1358.0 | -      |
| 9  | 2 | 16 | 75.6 | 1437.0 | 1430.0 | -      |
| 10 | 1 | 16 | 59.1 | 1697.0 | -      | -      |
| 11 | 2 | 16 | 77.0 | 1397.0 | 1304.0 | -      |
| 12 | 2 | 16 | 67.9 | 1803.0 | 1083.0 | -      |
| 13 | 2 | 16 | 81.2 | 1720.0 | 1932.0 | -      |
| 14 | 2 | 16 | 78.7 | 1247.0 | 1121.0 | -      |
| 15 | 1 | 16 | 63.3 | 1634.0 | -      | -      |
| 16 | 2 | 16 | 68.9 | 1849.0 | 1423.0 | -      |
| 17 | 1 | 16 | 59.3 | 1093.0 | -      | -      |
| 18 |   |    |      |        |        |        |
| 19 |   |    |      |        |        |        |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5499.25MHz

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

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 16 | 2 | 19 | 83.1 | 1943.0 | 1406.0 | - |
| 17 | 1 | 19 | 58.8 | 1742.0 | -      | - |
| 18 | 2 | 19 | 77.0 | 1187.0 | 1657.0 | - |
| 19 | 1 | 19 | 55.0 | 1012.0 | -      | - |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chirp Center Frequency: 5496.85MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5495.65MHz

| 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: 5498.85 MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 18          | 93.3            | 1983.0     | 1912.0     | 1535.0     |
| 2     | 2                | 18          | 69.1            | 1102.0     | 1794.0     | -          |
| 3     | 3                | 18          | 86.9            | 1044.0     | 1152.0     | 1148.0     |
| 4     | 3                | 18          | 84.9            | 1894.0     | 1948.0     | 1118.0     |
| 5     | 2                | 18          | 72.3            | 1094.0     | 1916.0     | -          |
| 6     | 1                | 18          | 51.7            | 1447.0     | -          | -          |
| 7     | 1                | 18          | 58.3            | 1429.0     | -          | -          |
| 8     | 1                | 18          | 60.8            | 1979.0     | -          | -          |
| 9     | 1                | 18          | 57.1            | 1641.0     | -          | -          |
| 10    | 3                | 18          | 88.9            | 1886.0     | 1964.0     | 1489.0     |
| 11    | 2                | 18          | 72.0            | 1909.0     | 1297.0     | -          |
| 12    | 3                | 18          | 90.9            | 1261.0     | 1566.0     | 1370.0     |
| 13    | 1                | 18          | 59.8            | 1552.0     | -          | -          |
| 14    | 2                | 18          | 70.0            | 1759.0     | 1291.0     | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 15 | 2 | 18 | 67.2 | 1625.0 | 1881.0 | -      |
| 16 | 3 | 18 | 91.2 | 1382.0 | 1832.0 | 1661.0 |
| 17 | 1 | 18 | 56.5 | 1483.0 | -      | -      |
| 18 | 1 | 18 | 51.2 | 1237.0 | -      | -      |
| 19 | 2 | 18 | 74.1 | 1471.0 | 1245.0 | -      |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chrip Center Frequency: 5496.45 MHz

| 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

Chrip Center Frequency: 5499.65MHz



| 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: 5495.65MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 13 |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chrip Center Frequency: 5496.45MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 12

Chrip Center Frequency: 5495.65MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5562.35MHz

| 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

Chrip Center Frequency: 5564.75MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chrip Center Frequency: 5560.35MHz

| 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: 5563.55 MHz

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

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 13 | 2 | 12 | 68.7 | 1377.0 | 1441.0 | - |
| 14 | 2 | 12 | 67.4 | 1872.0 | 1313.0 | - |
| 15 |   |    |      |        |        |   |
| 16 |   |    |      |        |        |   |
| 17 |   |    |      |        |        |   |
| 18 |   |    |      |        |        |   |
| 19 |   |    |      |        |        |   |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5563.95 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5566.35 MHz

| 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: 5561.95 MHz

| 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

Chrip Center Frequency: 5560.75 MHz

| Burst | Pulses per Burst | Chrip (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: 5564.35MHz



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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5561.55 MHz

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

## Scan Radio

### 802.11an (HT20)

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 | Chrip (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 per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 8           | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 8           | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 8           | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 8           | 73.6            | 1449.0     | 1041.0     | -          |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 5  | 1 | 8 | 65.9 | 1432.0 | -      | -      |
| 6  | 3 | 8 | 83.8 | 1356.0 | 1292.0 | 1419.0 |
| 7  | 1 | 8 | 65.5 | 1543.0 | -      | -      |
| 8  | 3 | 8 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 18          | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 18          | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 18          | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 18          | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 18          | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 18          | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 18          | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 18          | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 18          | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 18          | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 18          | 91.3            | 1961.0     | 1106.0     | 1001.0     |
| 12    |                  |             |                 |            |            |            |
| 13    |                  |             |                 |            |            |            |
| 14    |                  |             |                 |            |            |            |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

Number of Bursts in Trial: 20

Chirp Center Frequency: 5500.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 17          | 68.1            | 1339.0     | 1355.0     | -          |
| 2     | 1                | 17          | 58.7            | 1251.0     | -          | -          |
| 3     | 2                | 17          | 75.3            | 1136.0     | 1640.0     | -          |
| 4     | 1                | 17          | 56.4            | 1753.0     | -          | -          |
| 5     | 3                | 17          | 99.7            | 1196.0     | 1708.0     | 1159.0     |
| 6     | 1                | 17          | 57.7            | 1013.0     | -          | -          |
| 7     | 1                | 17          | 59.5            | 1072.0     | -          | -          |
| 8     | 2                | 17          | 80.0            | 1482.0     | 1369.0     | -          |
| 9     | 2                | 17          | 82.0            | 1993.0     | 1197.0     | -          |
| 10    | 2                | 17          | 82.8            | 1883.0     | 1005.0     | -          |
| 11    | 3                | 17          | 88.0            | 1061.0     | 1928.0     | 1101.0     |
| 12    | 3                | 17          | 93.2            | 1207.0     | 1907.0     | 1223.0     |
| 13    | 2                | 17          | 70.4            | 1526.0     | 1360.0     | -          |
| 14    | 3                | 17          | 95.3            | 1171.0     | 1955.0     | 1775.0     |
| 15    | 2                | 17          | 81.9            | 1690.0     | 1545.0     | -          |
| 16    | 3                | 17          | 98.5            | 1975.0     | 1169.0     | 1062.0     |
| 17    | 1                | 17          | 65.0            | 1767.0     | -          | -          |
| 18    | 3                | 17          | 85.4            | 1011.0     | 1637.0     | 1425.0     |
| 19    | 3                | 17          | 91.6            | 1878.0     | 1445.0     | 1325.0     |
| 20    | 2                | 17          | 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                | 8           | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 8           | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 8           | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 8           | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 8           | 77.1            | 1166.0     | 1646.0     | -          |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 6  | 3 | 8 | 83.9 | 1278.0 | 1232.0 | 1459.0 |
| 7  | 3 | 8 | 89.1 | 1240.0 | 1384.0 | 1939.0 |
| 8  | 2 | 8 | 81.8 | 1833.0 | 1676.0 | -      |
| 9  | 1 | 8 | 50.3 | 1075.0 | -      | -      |
| 10 | 3 | 8 | 87.1 | 1116.0 | 1996.0 | 1756.0 |
| 11 | 2 | 8 | 71.3 | 1225.0 | 1815.0 | -      |
| 12 | 3 | 8 | 97.5 | 1884.0 | 1465.0 | 1132.0 |
| 13 | 3 | 8 | 90.6 | 1561.0 | 1040.0 | 1354.0 |
| 14 | 3 | 8 | 86.3 | 1596.0 | 1183.0 | 1792.0 |
| 15 | 3 | 8 | 97.6 | 1365.0 | 1073.0 | 1361.0 |
| 16 | 3 | 8 | 84.7 | 1021.0 | 1718.0 | 1854.0 |
| 17 | 3 | 8 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 17          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 17          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 17          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 17          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 17          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 17          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 17          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 17          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 17          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 17          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 17          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 17          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 17          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 17          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 20          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 20          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 20          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 20          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 20          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 20          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 20          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 20          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 20          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 20          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 20          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 20          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 20          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 20          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 20          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 17          | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 17          | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 17          | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 17          | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 17          | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 17          | 72.2            | 1771.0     | 1184.0     | -          |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 7  | 2 | 17 | 67.6 | 1175.0 | 1027.0 | -      |
| 8  | 2 | 17 | 75.7 | 1026.0 | 1871.0 | -      |
| 9  | 1 | 17 | 60.9 | 1798.0 | -      | -      |
| 10 | 1 | 17 | 64.2 | 1138.0 | -      | -      |
| 11 | 2 | 17 | 78.8 | 1784.0 | 1604.0 | -      |
| 12 | 3 | 17 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 13          | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 13          | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 13          | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 13          | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 13          | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 13          | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 13          | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 13          | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 13          | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 13          | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 13          | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 13          | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 13          | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 13          | 64.3            | 1937.0     | -          | -          |
| 15    |                  |             |                 |            |            |            |
| 16    |                  |             |                 |            |            |            |
| 17    |                  |             |                 |            |            |            |
| 18    |                  |             |                 |            |            |            |
| 19    |                  |             |                 |            |            |            |

20

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chrip Center Frequency: 5500.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 17          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 17          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 17          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 17          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 17          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 17          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 17          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 17          | 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

Chrip Center Frequency: 5497.4 MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |



|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 4  | 1 | 16 | 66.2 | 1393.0 | -      | - |
| 5  | 2 | 16 | 70.8 | 1968.0 | 1821.0 | - |
| 6  | 1 | 16 | 52.3 | 1740.0 | -      | - |
| 7  | 2 | 16 | 78.9 | 1308.0 | 1984.0 | - |
| 8  | 2 | 16 | 70.9 | 1050.0 | 1358.0 | - |
| 9  | 2 | 16 | 75.6 | 1437.0 | 1430.0 | - |
| 10 | 1 | 16 | 59.1 | 1697.0 | -      | - |
| 11 | 2 | 16 | 77.0 | 1397.0 | 1304.0 | - |
| 12 | 2 | 16 | 67.9 | 1803.0 | 1083.0 | - |
| 13 | 2 | 16 | 81.2 | 1720.0 | 1932.0 | - |
| 14 | 2 | 16 | 78.7 | 1247.0 | 1121.0 | - |
| 15 | 1 | 16 | 63.3 | 1634.0 | -      | - |
| 16 | 2 | 16 | 68.9 | 1849.0 | 1423.0 | - |
| 17 | 1 | 16 | 59.3 | 1093.0 | -      | - |
| 18 |   |    |      |        |        |   |
| 19 |   |    |      |        |        |   |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5498.6 MHz

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

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 17 | 1 | 19 | 58.8 | 1742.0 | -      | - |
| 18 | 2 | 19 | 77.0 | 1187.0 | 1657.0 | - |
| 19 | 1 | 19 | 55.0 | 1012.0 | -      | - |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chirp Center Frequency: 5496.2 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5495 MHz

| 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: 5498.2 MHz

| 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: 5495.8 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 20

Chirp Center Frequency: 5499 MHz

| 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

Chrip Center Frequency: 5495 MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 16 |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chirp Center Frequency: 5495.8 MHz

| 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

Chirp Center Frequency: 5495 MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 10          | 88.6            | 1501.0     | 1067.0     | 1927.0     |

|    |   |    |      |        |        |        |
|----|---|----|------|--------|--------|--------|
| 2  | 1 | 10 | 57.4 | 1723.0 | -      | -      |
| 3  | 3 | 10 | 96.6 | 1086.0 | 1658.0 | 1324.0 |
| 4  | 2 | 10 | 69.7 | 1751.0 | 1945.0 | -      |
| 5  | 2 | 10 | 77.9 | 1642.0 | 1317.0 | -      |
| 6  | 1 | 10 | 62.0 | 1866.0 | -      | -      |
| 7  | 3 | 10 | 88.4 | 1997.0 | 1077.0 | 1366.0 |
| 8  | 3 | 10 | 97.3 | 1790.0 | 1896.0 | 1367.0 |
| 9  | 3 | 10 | 96.2 | 1391.0 | 1787.0 | 1672.0 |
| 10 | 3 | 10 | 95.4 | 1020.0 | 1892.0 | 1414.0 |
| 11 | 1 | 10 | 54.8 | 1084.0 | -      | -      |
| 12 | 2 | 10 | 80.4 | 1850.0 | 1436.0 | -      |
| 13 |   |    |      |        |        |        |
| 14 |   |    |      |        |        |        |
| 15 |   |    |      |        |        |        |
| 16 |   |    |      |        |        |        |
| 17 |   |    |      |        |        |        |
| 18 |   |    |      |        |        |        |
| 19 |   |    |      |        |        |        |
| 20 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5503 MHz

| 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: 5505.4 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5501 MHz

| 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

Chrip Center Frequency: 5504.2 MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 17 |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5504.6 MHz

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5507 MHz

| 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 |   |   |      |        |        |        |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5502.6 MHz

| 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    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5501.4 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 12

Chirp Center Frequency: 5505 MHz

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

|    |   |    |      |        |   |   |
|----|---|----|------|--------|---|---|
| 12 | 1 | 10 | 55.3 | 1522.0 | - | - |
| 13 |   |    |      |        |   |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5502.2 MHz

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

### 802.11an (HT40)

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5510.0MHz

| 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: 5510.0MHz

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

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

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 17

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                | 6           | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 6           | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 6           | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 6           | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 6           | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 6           | 83.9            | 1278.0     | 1232.0     | 1459.0     |



|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 7  | 3 | 6 | 89.1 | 1240.0 | 1384.0 | 1939.0 |
| 8  | 2 | 6 | 81.8 | 1833.0 | 1676.0 | -      |
| 9  | 1 | 6 | 50.3 | 1075.0 | -      | -      |
| 10 | 3 | 6 | 87.1 | 1116.0 | 1996.0 | 1756.0 |
| 11 | 2 | 6 | 71.3 | 1225.0 | 1815.0 | -      |
| 12 | 3 | 6 | 97.5 | 1884.0 | 1465.0 | 1132.0 |
| 13 | 3 | 6 | 90.6 | 1561.0 | 1040.0 | 1354.0 |
| 14 | 3 | 6 | 86.3 | 1596.0 | 1183.0 | 1792.0 |
| 15 | 3 | 6 | 97.6 | 1365.0 | 1073.0 | 1361.0 |
| 16 | 3 | 6 | 84.7 | 1021.0 | 1718.0 | 1854.0 |
| 17 | 3 | 6 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 13          | 92.9            | 1085.0     | 1564.0     | 1407.0     |
| 2     | 2                | 13          | 67.7            | 1744.0     | 1747.0     | -          |
| 3     | 1                | 13          | 65.8            | 1092.0     | -          | -          |
| 4     | 1                | 13          | 56.3            | 1851.0     | -          | -          |
| 5     | 1                | 13          | 53.7            | 1727.0     | -          | -          |
| 6     | 3                | 13          | 83.5            | 1679.0     | 1930.0     | 1025.0     |
| 7     | 1                | 13          | 65.8            | 1519.0     | -          | -          |
| 8     | 3                | 13          | 85.9            | 1134.0     | 1034.0     | 1808.0     |
| 9     | 2                | 13          | 76.3            | 1606.0     | 1926.0     | -          |
| 10    | 2                | 13          | 81.5            | 1891.0     | 1714.0     | -          |
| 11    | 3                | 13          | 89.4            | 1310.0     | 1594.0     | 1827.0     |
| 12    | 1                | 13          | 63.4            | 1568.0     | -          | -          |
| 13    | 2                | 13          | 69.6            | 1307.0     | 1925.0     | -          |
| 14    | 2                | 13          | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 6           | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 6           | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 6           | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 6           | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 6           | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 6           | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 6           | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 6           | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 6           | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 6           | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 6           | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 6           | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 6           | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 6           | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 6           | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 8           | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 8           | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 8           | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 8           | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 8           | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 8           | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 8           | 67.6            | 1175.0     | 1027.0     | -          |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 8  | 2 | 8 | 75.7 | 1026.0 | 1871.0 | -      |
| 9  | 1 | 8 | 60.9 | 1798.0 | -      | -      |
| 10 | 1 | 8 | 64.2 | 1138.0 | -      | -      |
| 11 | 2 | 8 | 78.8 | 1784.0 | 1604.0 | -      |
| 12 | 3 | 8 | 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 per Burst | Chirp (MHz) | Pulse 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    |                  |             |                 |            |            |            |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

Chirp Center Frequency: 5510.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 17          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 17          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 17          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 17          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 17          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 17          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 17          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 17          | 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: 5497.62MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |
| 4     | 1                | 16          | 66.2            | 1393.0     | -          | -          |
| 5     | 2                | 16          | 70.8            | 1968.0     | 1821.0     | -          |
| 6     | 1                | 16          | 52.3            | 1740.0     | -          | -          |

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 7  | 2 | 16 | 78.9 | 1308.0 | 1984.0 | - |
| 8  | 2 | 16 | 70.9 | 1050.0 | 1358.0 | - |
| 9  | 2 | 16 | 75.6 | 1437.0 | 1430.0 | - |
| 10 | 1 | 16 | 59.1 | 1697.0 | -      | - |
| 11 | 2 | 16 | 77.0 | 1397.0 | 1304.0 | - |
| 12 | 2 | 16 | 67.9 | 1803.0 | 1083.0 | - |
| 13 | 2 | 16 | 81.2 | 1720.0 | 1932.0 | - |
| 14 | 2 | 16 | 78.7 | 1247.0 | 1121.0 | - |
| 15 | 1 | 16 | 63.3 | 1634.0 | -      | - |
| 16 | 2 | 16 | 68.9 | 1849.0 | 1423.0 | - |
| 17 | 1 | 16 | 59.3 | 1093.0 | -      | - |
| 18 |   |    |      |        |        |   |
| 19 |   |    |      |        |        |   |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5498.82MHz

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

20

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chrip Center Frequency: 5496.42MHz

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

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chrip Center Frequency: 5495.22MHz

| Burst | Pulses per Burst | Chrip (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: 5498.42MHz

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

|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 19 | 2 | 18 | 74.1 | 1471.0 | 1245.0 | - |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 14

Chrip Center Frequency: 5496.02MHz

| 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

Chrip Center Frequency: 5499.22MHz

| Burst | Pulses per Burst | Chrip (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: 5495.22MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chrip Center Frequency: 5496.02MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 12

Chrip Center Frequency: 5495.22MHz

| 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: 5522.78MHz

| 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: 5525.18MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5520.78MHz

| 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: 5523.98MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5524.38MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5526.78MHz

| 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 |   |   |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 17

Chrip Center Frequency: 5522.38MHz

| 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

Chrip Center Frequency: 5521.18MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
|-------|------------------|-------------|-----------------|------------|------------|------------|

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 12

Chirp Center Frequency: 5524.78MHz

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



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5521.98MHz

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

### 802.11ac (HT80)

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_01

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 7           | 75.0            | 1880.0     | 1527.0     | -          |
| 2     | 3                | 7           | 99.4            | 1401.0     | 1262.0     | 1257.0     |
| 3     | 2                | 7           | 67.4            | 1531.0     | 1403.0     | -          |
| 4     | 2                | 7           | 73.6            | 1449.0     | 1041.0     | -          |
| 5     | 1                | 7           | 65.9            | 1432.0     | -          | -          |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 6  | 3 | 7 | 83.8 | 1356.0 | 1292.0 | 1419.0 |
| 7  | 1 | 7 | 65.5 | 1543.0 | -      | -      |
| 8  | 3 | 7 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 6           | 73.8            | 1806.0     | 1538.0     | -          |
| 2     | 2                | 6           | 69.5            | 1117.0     | 1649.0     | -          |
| 3     | 1                | 6           | 51.9            | 1651.0     | -          | -          |
| 4     | 3                | 6           | 84.6            | 1976.0     | 1032.0     | 1271.0     |
| 5     | 3                | 6           | 95.4            | 1060.0     | 1903.0     | 1388.0     |
| 6     | 2                | 6           | 68.0            | 1368.0     | 1351.0     | -          |
| 7     | 3                | 6           | 89.6            | 1338.0     | 1514.0     | 1573.0     |
| 8     | 2                | 6           | 81.9            | 1022.0     | 1689.0     | -          |
| 9     | 3                | 6           | 88.3            | 1810.0     | 1330.0     | 1838.0     |
| 10    | 1                | 6           | 53.7            | 1597.0     | -          | -          |
| 11    | 3                | 6           | 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

Chrip Center Frequency: 5530.0MHz

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

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 17

Chrip Center Frequency: 5530.0MHz

| Burst | Pulses per Burst | Chrip (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 8           | 67.9            | 1320.0     | 1133.0     | -          |
| 2     | 1                | 8           | 62.3            | 1957.0     | -          | -          |
| 3     | 1                | 8           | 53.3            | 1592.0     | -          | -          |
| 4     | 3                | 8           | 90.0            | 1900.0     | 1153.0     | 1346.0     |
| 5     | 2                | 8           | 77.1            | 1166.0     | 1646.0     | -          |
| 6     | 3                | 8           | 83.9            | 1278.0     | 1232.0     | 1459.0     |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 7  | 3 | 8 | 89.1 | 1240.0 | 1384.0 | 1939.0 |
| 8  | 2 | 8 | 81.8 | 1833.0 | 1676.0 | -      |
| 9  | 1 | 8 | 50.3 | 1075.0 | -      | -      |
| 10 | 3 | 8 | 87.1 | 1116.0 | 1996.0 | 1756.0 |
| 11 | 2 | 8 | 71.3 | 1225.0 | 1815.0 | -      |
| 12 | 3 | 8 | 97.5 | 1884.0 | 1465.0 | 1132.0 |
| 13 | 3 | 8 | 90.6 | 1561.0 | 1040.0 | 1354.0 |
| 14 | 3 | 8 | 86.3 | 1596.0 | 1183.0 | 1792.0 |
| 15 | 3 | 8 | 97.6 | 1365.0 | 1073.0 | 1361.0 |
| 16 | 3 | 8 | 84.7 | 1021.0 | 1718.0 | 1854.0 |
| 17 | 3 | 8 | 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 per Burst | Chirp (MHz) | Pulse 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: 5530.0MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 3                | 13          | 96.6            | 1182.0     | 1609.0     | 1581.0     |
| 2     | 3                | 13          | 96.7            | 1829.0     | 1799.0     | 1154.0     |
| 3     | 3                | 13          | 86.5            | 1923.0     | 1396.0     | 1865.0     |
| 4     | 2                | 13          | 73.3            | 1908.0     | 1318.0     | -          |
| 5     | 1                | 13          | 55.8            | 1688.0     | -          | -          |
| 6     | 1                | 13          | 55.4            | 1145.0     | -          | -          |
| 7     | 3                | 13          | 85.3            | 1336.0     | 1504.0     | 1820.0     |
| 8     | 2                | 13          | 79.4            | 1344.0     | 1893.0     | -          |
| 9     | 1                | 13          | 65.7            | 1476.0     | -          | -          |
| 10    | 2                | 13          | 68.6            | 1008.0     | 1028.0     | -          |
| 11    | 2                | 13          | 77.7            | 1972.0     | 1835.0     | -          |
| 12    | 2                | 13          | 79.6            | 1882.0     | 1331.0     | -          |
| 13    | 3                | 13          | 94.9            | 1830.0     | 1070.0     | 1349.0     |
| 14    | 1                | 13          | 61.4            | 1451.0     | -          | -          |
| 15    | 3                | 13          | 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                | 8           | 52.6            | 1210.0     | -          | -          |
| 2     | 3                | 8           | 84.1            | 1314.0     | 1725.0     | 1529.0     |
| 3     | 3                | 8           | 97.7            | 1139.0     | 1868.0     | 1805.0     |
| 4     | 3                | 8           | 97.3            | 1341.0     | 1446.0     | 1755.0     |
| 5     | 3                | 8           | 98.8            | 1544.0     | 1386.0     | 1302.0     |
| 6     | 2                | 8           | 72.2            | 1771.0     | 1184.0     | -          |
| 7     | 2                | 8           | 67.6            | 1175.0     | 1027.0     | -          |

|    |   |   |      |        |        |        |
|----|---|---|------|--------|--------|--------|
| 8  | 2 | 8 | 75.7 | 1026.0 | 1871.0 | -      |
| 9  | 1 | 8 | 60.9 | 1798.0 | -      | -      |
| 10 | 1 | 8 | 64.2 | 1138.0 | -      | -      |
| 11 | 2 | 8 | 78.8 | 1784.0 | 1604.0 | -      |
| 12 | 3 | 8 | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 9           | 54.1            | 1415.0     | -          | -          |
| 2     | 1                | 9           | 50.7            | 1221.0     | -          | -          |
| 3     | 1                | 9           | 52.3            | 1974.0     | -          | -          |
| 4     | 3                | 9           | 99.8            | 1558.0     | 1696.0     | 1949.0     |
| 5     | 2                | 9           | 68.4            | 1014.0     | 1099.0     | -          |
| 6     | 2                | 9           | 80.8            | 1736.0     | 1505.0     | -          |
| 7     | 1                | 9           | 62.5            | 1778.0     | -          | -          |
| 8     | 2                | 9           | 74.8            | 1149.0     | 1204.0     | -          |
| 9     | 1                | 9           | 50.8            | 1049.0     | -          | -          |
| 10    | 1                | 9           | 54.0            | 1417.0     | -          | -          |
| 11    | 1                | 9           | 63.0            | 1730.0     | -          | -          |
| 12    | 3                | 9           | 91.8            | 1143.0     | 1270.0     | 1347.0     |
| 13    | 2                | 9           | 79.3            | 1274.0     | 1992.0     | -          |
| 14    | 1                | 9           | 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 per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 1                | 14          | 63.4            | 1043.0     | -          | -          |
| 2     | 1                | 14          | 52.0            | 1863.0     | -          | -          |
| 3     | 3                | 14          | 97.2            | 1973.0     | 1605.0     | 1583.0     |
| 4     | 2                | 14          | 78.7            | 1466.0     | 1743.0     | -          |
| 5     | 2                | 14          | 74.2            | 1280.0     | 1219.0     | -          |
| 6     | 3                | 14          | 88.7            | 1293.0     | 1934.0     | 1273.0     |
| 7     | 1                | 14          | 54.3            | 1991.0     | -          | -          |
| 8     | 3                | 14          | 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: 5498.51MHz

| Burst | Pulses per Burst | Chirp (MHz) | Pulse Width(us) | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------|------------------|-------------|-----------------|------------|------------|------------|
| 1     | 2                | 16          | 73.7            | 1208.0     | 1497.0     | -          |
| 2     | 3                | 16          | 97.4            | 1942.0     | 1754.0     | 1613.0     |
| 3     | 3                | 16          | 91.7            | 1999.0     | 1702.0     | 1462.0     |
| 4     | 1                | 16          | 66.2            | 1393.0     | -          | -          |
| 5     | 2                | 16          | 70.8            | 1968.0     | 1821.0     | -          |



|    |   |    |      |        |        |   |
|----|---|----|------|--------|--------|---|
| 6  | 1 | 16 | 52.3 | 1740.0 | -      | - |
| 7  | 2 | 16 | 78.9 | 1308.0 | 1984.0 | - |
| 8  | 2 | 16 | 70.9 | 1050.0 | 1358.0 | - |
| 9  | 2 | 16 | 75.6 | 1437.0 | 1430.0 | - |
| 10 | 1 | 16 | 59.1 | 1697.0 | -      | - |
| 11 | 2 | 16 | 77.0 | 1397.0 | 1304.0 | - |
| 12 | 2 | 16 | 67.9 | 1803.0 | 1083.0 | - |
| 13 | 2 | 16 | 81.2 | 1720.0 | 1932.0 | - |
| 14 | 2 | 16 | 78.7 | 1247.0 | 1121.0 | - |
| 15 | 1 | 16 | 63.3 | 1634.0 | -      | - |
| 16 | 2 | 16 | 68.9 | 1849.0 | 1423.0 | - |
| 17 | 1 | 16 | 59.3 | 1093.0 | -      | - |
| 18 |   |    |      |        |        |   |
| 19 |   |    |      |        |        |   |
| 20 |   |    |      |        |        |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5499.71MHz

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

|    |   |    |      |        |   |   |
|----|---|----|------|--------|---|---|
| 19 | 1 | 19 | 55.0 | 1012.0 | - | - |
| 20 |   |    |      |        |   |   |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

Chrip Center Frequency: 5497.31MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 12

Chrip Center Frequency: 5496.11MHz

| Burst | Pulses per Burst | Chrip (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: 5499.31 MHz

| 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: 5496.91 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 20

Chirp Center Frequency: 5500.11MHz

| 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

Chrip Center Frequency: 5496.11MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 17 |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 14

Chirp Center Frequency: 5496.91MHz

| 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

Chirp Center Frequency: 5496.11MHz

| 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: 5561.89MHz

| 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: 5564.29MHz

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

Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5559.89MHz

| 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: 5563.09 MHz

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

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5563.49 MHz

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

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5565.89 MHz

| 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: 5561.49 MHz

| 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

Chrip Center Frequency: 5560.29 MHz

| Burst | Pulses per Burst | Chrip (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: 5563.89MHz

| 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 |   |    |      |        |        |        |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5561.09 MHz

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

## A.2 The Frequency Hopping Radar pattern

Radio 2

**802.11ax (HE20)**

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

**802.11ax (HE40)**

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

**802.11ax (HE80)**

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

Scan Radio

**802.11an (HT20)**

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

# 802.11an (HT40)

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

**802.11ac (HT80)**

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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