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# DFS TEST REPORT

**REPORT NO.:** RF971031L01-2

**MODEL NO.:** 74-4876-04

**RECEIVED:** Nov. 21, 2008

**TESTED:** Dec. 01, 2008

**ISSUED:** Dec. 12, 2008

**APPLICANT:** HON HAI Precision IND., CO., LTD.

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**ISSUED BY:** Bureau Veritas Consumer Products Services  
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## Table of Contents

|         |                                                         |    |
|---------|---------------------------------------------------------|----|
| 1.      | LAB DECLARATION.....                                    | 3  |
| 2.      | EUT INFORMATION.....                                    | 4  |
| 2.1     | OPERATING FREQUENCY BANDS AND MODE OF EUT .....         | 4  |
| 2.2     | EUT SOFTWARE AND FIRMWARE VERSION .....                 | 4  |
| 2.3     | DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT .....      | 4  |
| 2.4     | EUT MAXIMUM AND MINIMUM CONDUCTED POWER .....           | 5  |
| 2.5     | EUT MAXIMUM AND MINIMUM E.I.R.P. POWER .....            | 6  |
| 3.      | U-NII DFS RULE REQUIREMENTS.....                        | 7  |
| 3.1     | WORKING MODES AND REQUIRED TEST ITEMS .....             | 7  |
| 3.2     | TEST LIMITS AND RADAR SIGNAL PARAMETERS .....           | 8  |
| 4.      | TEST & SUPPORT EQUIPMENT LIST .....                     | 10 |
| 4.1     | TEST INSTRUMENTS .....                                  | 10 |
| 4.2     | DESCRIPTION OF SUPPORT UNITS .....                      | 10 |
| 5.      | TEST PROCEDURE.....                                     | 11 |
| 5.1     | BV ADT DFS MEASUREMENT SYSTEM:.....                     | 11 |
| 5.2     | CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:.....      | 12 |
| 5.3     | DEVIATION FROM TEST STANDARD .....                      | 13 |
| 5.4     | CONDUCTED TEST SETUP CONFIGURATION.....                 | 13 |
| 5.4.1   | MASTER MODE .....                                       | 13 |
| 6.      | TEST RESULTS .....                                      | 14 |
| 6.1     | SUMMARY OF TEST RESULTS .....                           | 14 |
| 6.2     | DETELED TEST RESULTS.....                               | 15 |
| 6.2.1   | TEST MODE: DEVICE OPERATING IN MASTER MODE .....        | 15 |
| 6.2.1.1 | DFS DETECTION THRESHOLD.....                            | 15 |
| 6.2.1.2 | CHANNEL AVAILABILITY CHECK TIME .....                   | 22 |
| 6.2.1.3 | CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME..... | 24 |
| 6.2.1.4 | NON- OCCUPANCY PERIOD .....                             | 51 |
| 6.2.1.5 | UNIFORM SPREADING .....                                 | 51 |
| 6.2.1.6 | U-NII DETECTION BANDWIDTH.....                          | 52 |
| 6.2.1.7 | TRANSMIT POWER CONTROL (TPC).....                       | 56 |
| 7.      | TESTING LABORATORIES INFORMATION.....                   | 57 |
| 8.      | APPENDIX.....                                           | 58 |
| 8.1     | APPENDIX-A.....                                         | 58 |
| 8.2     | APPENDIX-B.....                                         | 59 |



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## 1. LAB DECLARATION

**PRODUCT:** 802.11 a/b/g/n MiniPCI module

**MODEL:** 74-4876-04

**BRAND:** Cisco

**APPLICANT:** HON HAI Precision IND., CO., LTD.

**TESTED:** Dec. 01, 2008

**TEST SAMPLE:** ENGINEERING SAMPLE

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

**FCC 06-96**

The above equipment (model: 74-4876-04) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Peggy Chen , **DATE:** Dec. 12, 2008  
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Gary Chang / Assistant Manager

## 2. EUT INFORMATION

### 2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

**TABLE 1: OPERATING FREQUENCY BANDS AND MODE OF EUT**

| OPERATIONAL MODE | OPERATING FREQUENCY RANGE |              |
|------------------|---------------------------|--------------|
|                  | 5250~5350MHz              | 5470~5725MHz |
| Master           | ✓                         | ✓            |

### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

**TABLE 2: THE EUT SOFTWARE/FIRMWARE VERSION**

| NO. | PRODUCT                       | MODEL NO.  | SOFTWARE/FIRMWARE VERSION |
|-----|-------------------------------|------------|---------------------------|
| 1   | 802.11b/g/a/n/ MiniPCI module | 74-4876-04 | 12.4                      |
| 2   | STEELER                       | Cisco891-W | AP801AGN-A-K9 12.4        |

**Note:** The MiniPCI module (74-4876-04) is in STEELER (Cisco891-W).

### 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

**TABLE 3: ANTENNA LIST**

| ANT NO. | ANTENNA TYPE | OPERATION FREQUENCY RANGE (MHz) | MAX. GAIN (dBi) |
|---------|--------------|---------------------------------|-----------------|
| 1       | Dipole       | 5250 – 5350 MHz                 | 5               |
| 1       | Dipole       | 5470 – 5725 MHz                 | 5               |

## 2.4 EUT MAXIMUM AND MINIMUM CONDUCTED POWER

TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER

### IEEE 802.11a

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER        |                  | MIN. POWER        |                  |
|---------|----------------------|-------------------|------------------|-------------------|------------------|
|         |                      | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1       | 5250~5350            | 15.11             | 32.434           | 8                 | 6.31             |
| 1       | 5470~5725            | 15.08             | 32.211           | 8                 | 6.31             |

### DRAFT 802.11n (20MHz)

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER        |                  | MIN. POWER        |                  |
|---------|----------------------|-------------------|------------------|-------------------|------------------|
|         |                      | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1       | 5250~5350            | 16.10             | 40.741           | 8                 | 6.31             |
| 1       | 5470~5725            | 16.06             | 40.368           | 8                 | 6.31             |

### DRAFT 802.11n (40MHz)

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER        |                  | MIN. POWER        |                  |
|---------|----------------------|-------------------|------------------|-------------------|------------------|
|         |                      | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1       | 5250~5350            | 16.06             | 40.322           | 8                 | 6.31             |
| 1       | 5470~5725            | 16.07             | 40.461           | 8                 | 6.31             |

## 2.5 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

TABLE 5: THE E.I.R.P OUTPUT POWER LIST

### IEEE 802.11a

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER        |                  | MIN. POWER        |                  |
|---------|----------------------|-------------------|------------------|-------------------|------------------|
|         |                      | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1       | 5250~5350            | 20.11             | 102.565          | 13                | 19.953           |
| 1       | 5470~5725            | 20.08             | 101.859          | 13                | 19.953           |

### DRAFT 802.11n (20MHz)

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER        |                  | MIN. POWER        |                  |
|---------|----------------------|-------------------|------------------|-------------------|------------------|
|         |                      | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1       | 5250~5350            | 21.10             | 128.825          | 13                | 19.953           |
| 1       | 5470~5725            | 21.06             | 127.644          | 13                | 19.953           |

### DRAFT 802.11n (40MHz)

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER        |                  | MIN. POWER        |                  |
|---------|----------------------|-------------------|------------------|-------------------|------------------|
|         |                      | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1       | 5250~5350            | 21.06             | 127.644          | 13                | 19.953           |
| 1       | 5470~5725            | 21.07             | 127.938          | 13                | 19.953           |

### 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 1 and 2 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            | ✓                | Not required                   | ✓                           |
| DFS Detection Threshold         | ✓                | Not required                   | ✓                           |
| Channel Availability Check Time | ✓                | Not required                   | Not required                |
| Uniform Spreading               | ✓                | Not required                   | Not required                |
| U-NII Detection Bandwidth       | ✓                | Not required                   | ✓                           |

**TABLE 7: APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION**

| REQUIREMENT                       | OPERATIONAL MODE |                                |                             |
|-----------------------------------|------------------|--------------------------------|-----------------------------|
|                                   | MASTER           | CLIENT WITHOUT RADAR DETECTION | CLIENT WITH RADAR DETECTION |
| DFS Detection Threshold           | ✓                | Not required                   | ✓                           |
| Channel Closing Transmission Time | ✓                | ✓                              | ✓                           |
| Channel Move Time                 | ✓                | ✓                              | ✓                           |
| U-NII Detection Bandwidth         | ✓                | Not required                   | ✓                           |

## 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 (SEE Note 1 and 2) |
|------------------------|--------------------------|
| $\geq 200$ milliwatt   | -64 dBm                  |
| $< 200$ milliwatt      | -62 dBm                  |

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

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

**TABLE 9: DFS RESPONSE REQUIREMENT VALUES**

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

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

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

**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 1 is used and 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 |
|-----------------------------|--------------------|------------|------------------|--------------------------------------------|--------------------------|
| 1                           | 1                  | 1428       | 18               | 60%                                        | 30                       |
| 2                           | 1-5                | 150-230    | 23-29            | 60%                                        | 30                       |
| 3                           | 6-10               | 200-500    | 16-18            | 60%                                        | 30                       |
| 4                           | 11-20              | 200-500    | 12-16            | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4) |                    |            |                  | 80%                                        | 120                      |

**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                       |

**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 1: TEST INSTRUMENTS LIST.

| DESCRIPTION & MANUFACTURER | MODEL NO.      | BRAND     | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|----------------------------|----------------|-----------|---------------------|-------------------------|
| R&S Spectrum analyzer      | FSP40          | R&S       | Oct. 21, 2008       | Oct. 21, 2009           |
| Signal generator           | 8645A          | Agilent   | Jun. 10, 2008       | Jun. 09, 2009           |
| Oscilloscope               | TDS 5104       | Tektronix | Sep. 01, 2008       | Aug. 31, 2009           |
| Control PC                 | Pavilion a320d | HP        | --                  |                         |

### 4.2 DESCRIPTION OF SUPPORT UNITS

TABLE 2: SUPPORT UNIT INFORMATION.

| NO. | PRODUCT                    | BRAND   | MODEL NO.     | ID               |
|-----|----------------------------|---------|---------------|------------------|
| 1   | IEEE 802.11a/b/g/n Cardbus | ATHEROS | AR5BCB-0072TA | PPD-AR5BCB-00072 |

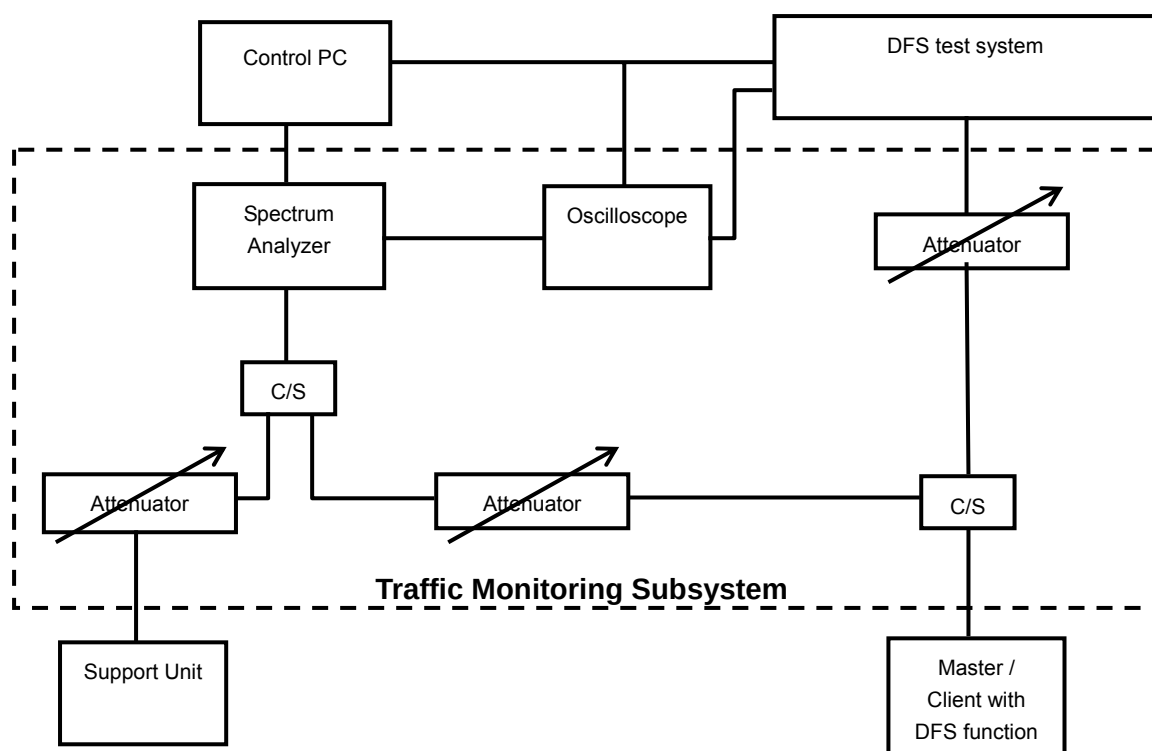
**NOTE:** This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

## 5. TEST PROCEDURE

### 5.1 BV ADT DFS MEASUREMENT SYSTEM:

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

### CONDUCTED SETUP CONFIGURATION OF ADT DFS MEASUREMENT SYSTEM



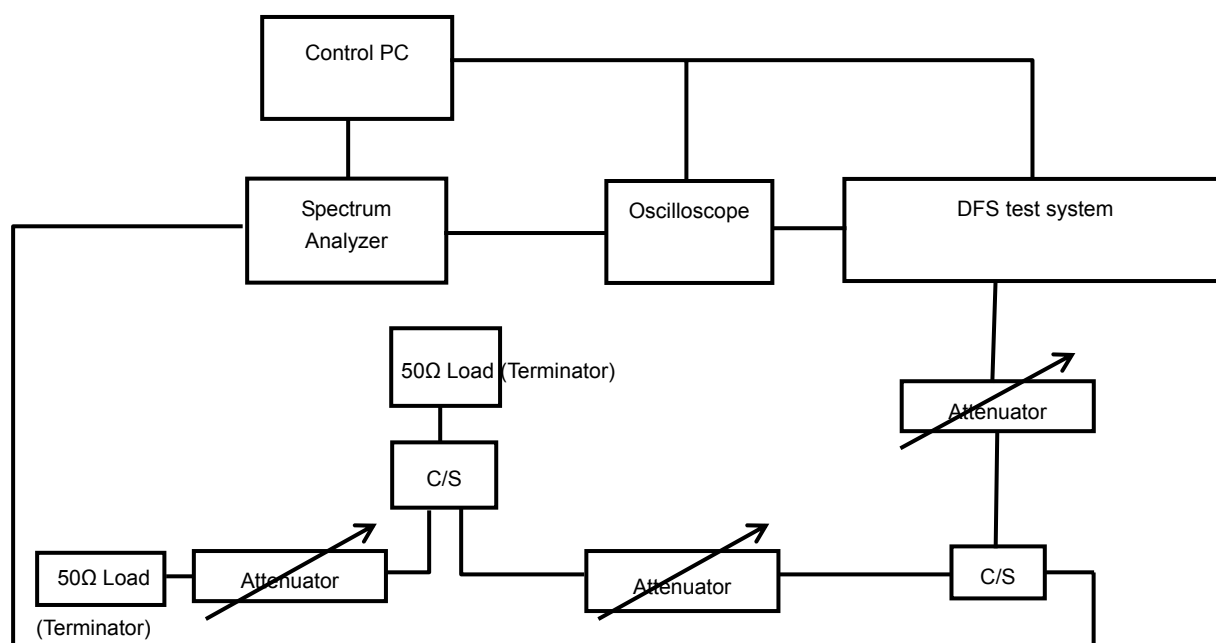
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6  $\frac{1}{2}$  Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

<http://ntiacsd.ntia.doc.gov/dfs/>.

## 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5500MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Master antenna gain is 5 dBi Cable loss is 1 dB, margin is 3 dB and required detection threshold is -61 dBm ( $= -62+5-1-3$ )dBm.

### CONDUCTED SETUP CONFIGURATION OF CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

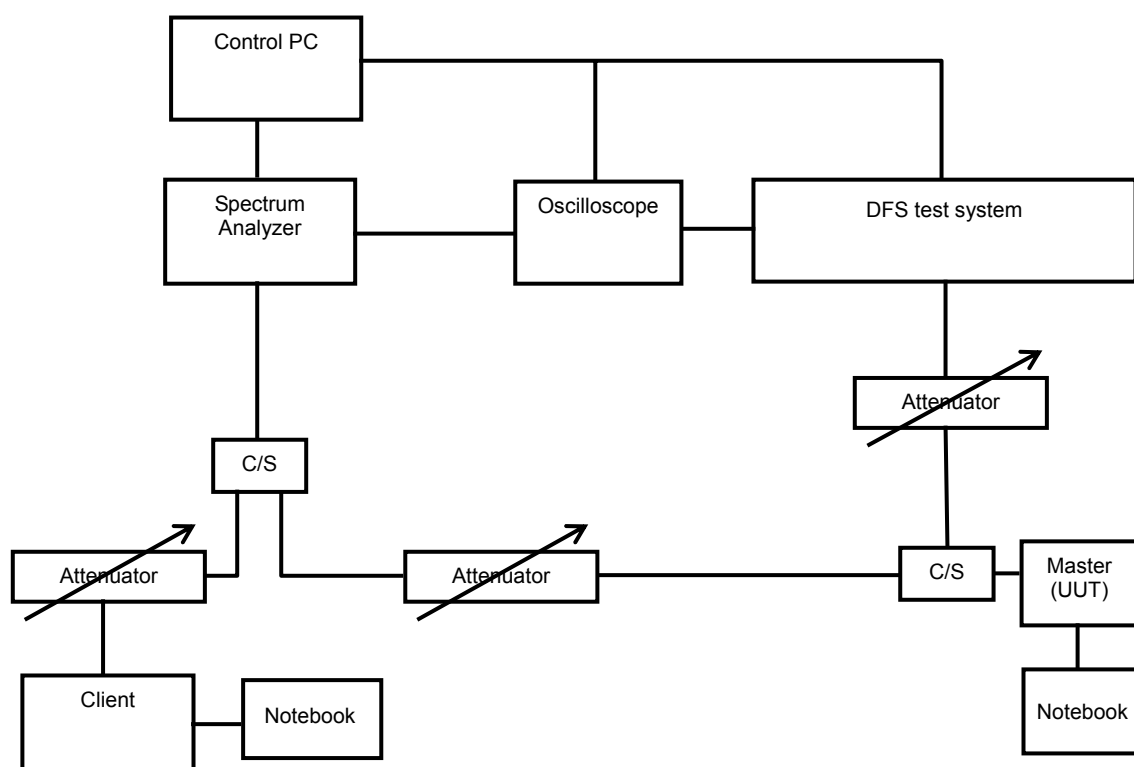


### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 CONDUCTED TEST SETUP CONFIGURATION

#### 5.4.1 MASTER MODE



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

## 6. TEST RESULTS

### 6.1 SUMMARY OF TEST RESULTS

| CLAUSE | TEST PARAMETER                    | REMARKS    | PASS/FAIL |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable | Pass      |
| 15.407 | Channel Availability Check Time   | Applicable | Pass      |
| 15.407 | Channel Move Time                 | Applicable | Pass      |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass      |
| 15.407 | Non- Occupancy Period             | Applicable | Pass      |
| 15.407 | Uniform Spreading                 | Applicable | Pass      |
| 15.407 | U-NII Detection Bandwidth         | Applicable | Pass      |
| 15.407 | Non-associated test               | Applicable | Pass      |

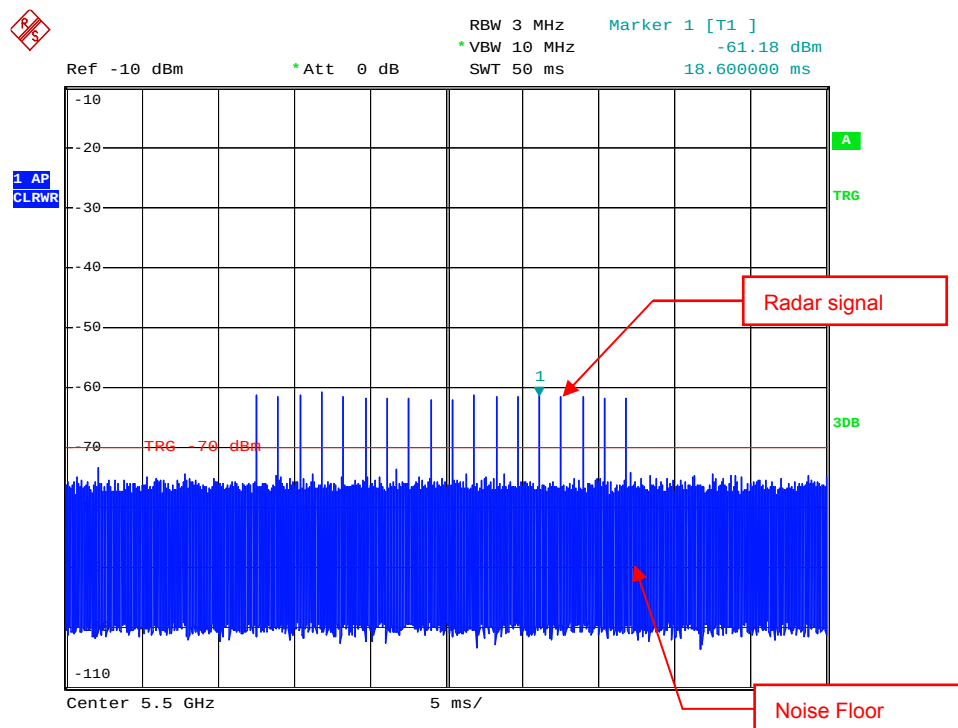
## 6.2 DETELED TEST RESULTS

### 6.2.1 TEST MODE: DEVICE OPERATING IN MASTER MODE

Master with injection at the Master. (Radar Test Waveforms are injected into the Master).

#### 6.2.1.1 DFS DETECTION THRESHOLD

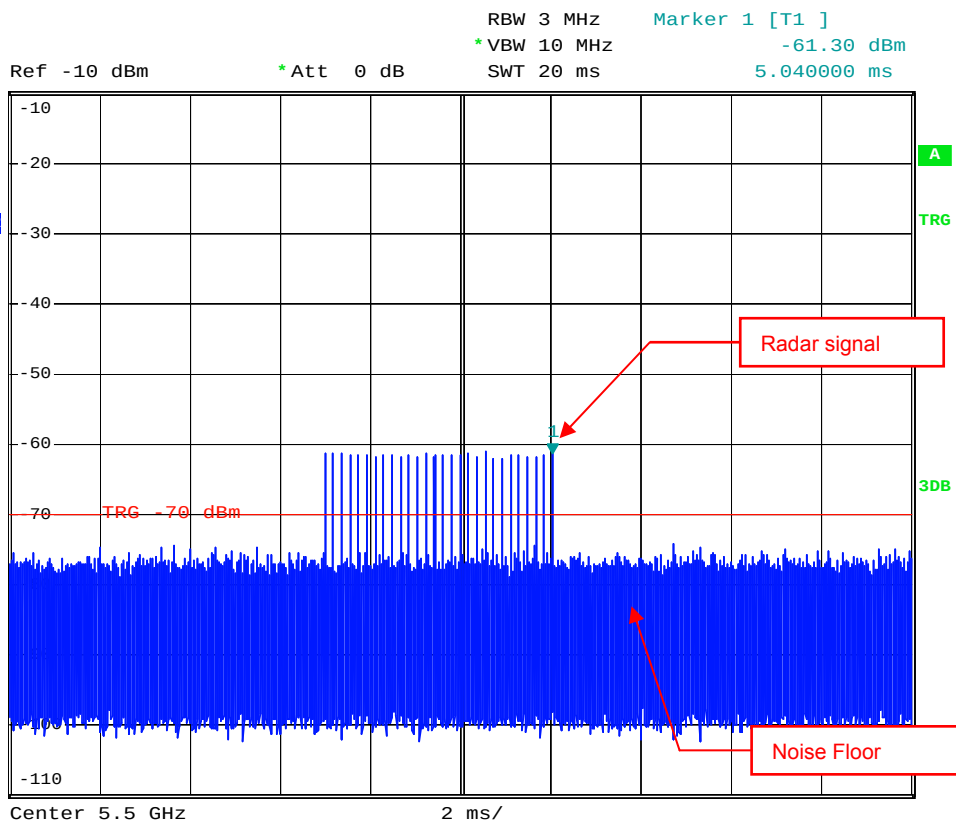
For a detection threshold level of  $-62\text{dBm}$  and the Master antenna gain is  $5\text{ dBi}$ , Cable loss is  $1\text{ dB}$ , margin is  $3\text{ dB}$  and required detection threshold is  $-61\text{ dBm}$  ( $= -62 + 5 - 1 - 3$ )dBm. The conducted radar burst level is set to  $-61\text{ dBm}$ .



Radar Signal 1



1 AP  
CLRWR

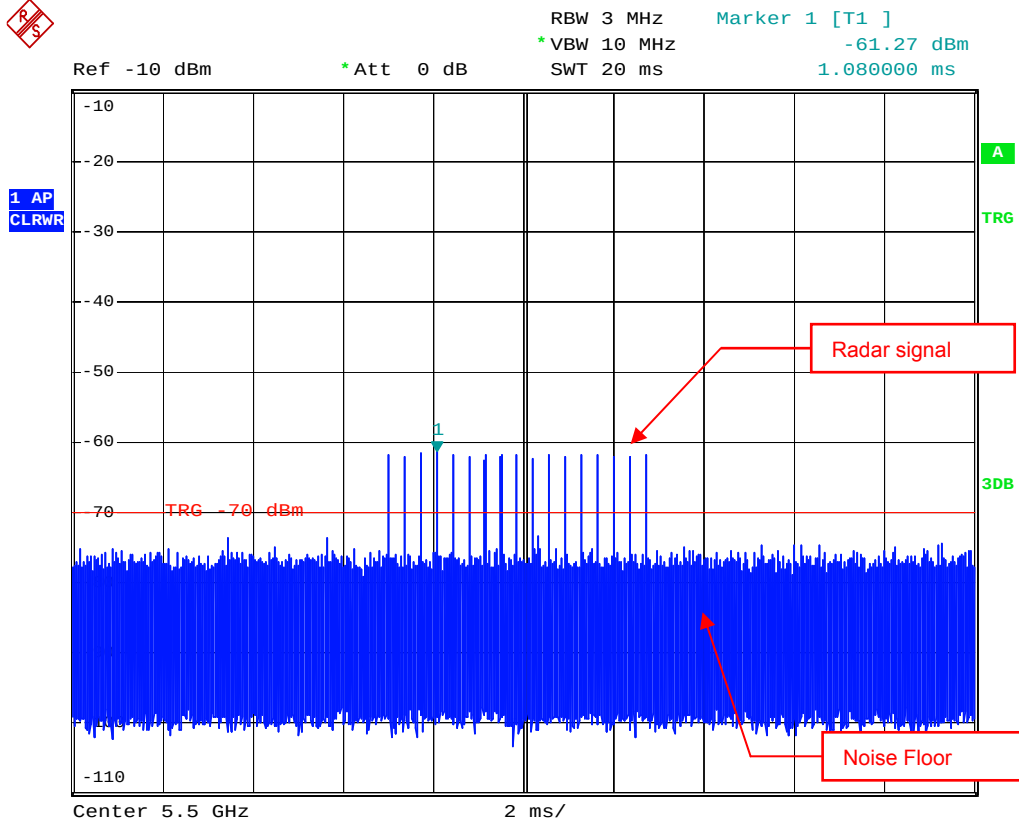


Radar Signal 2

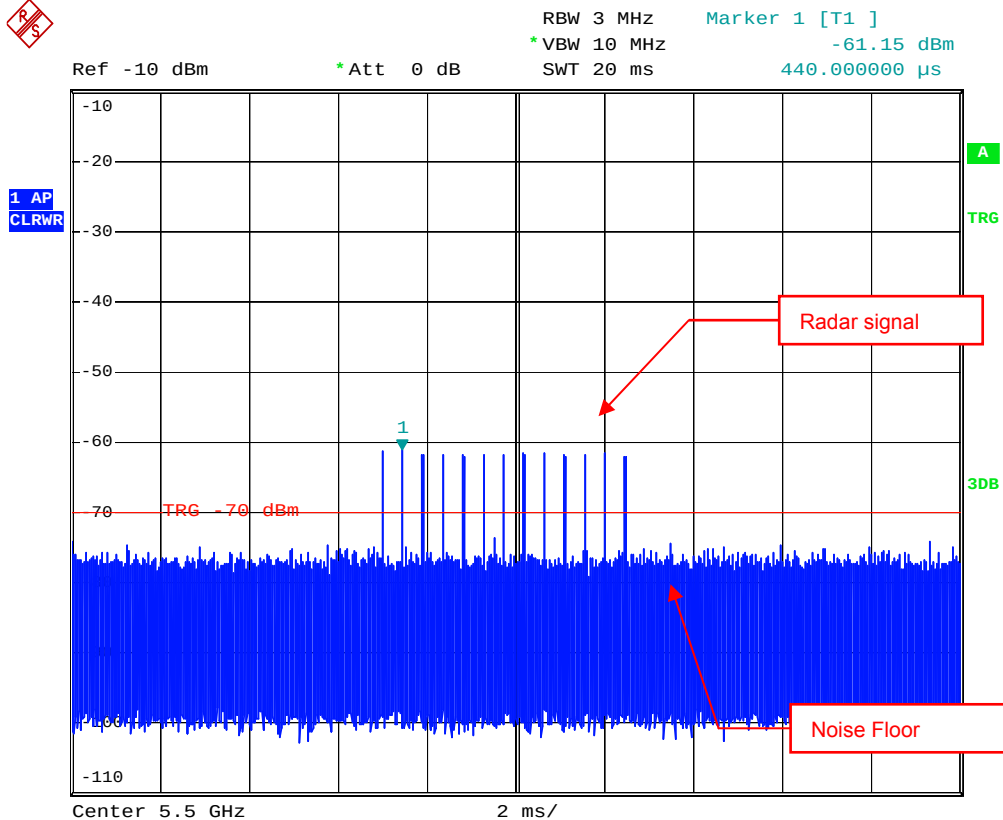




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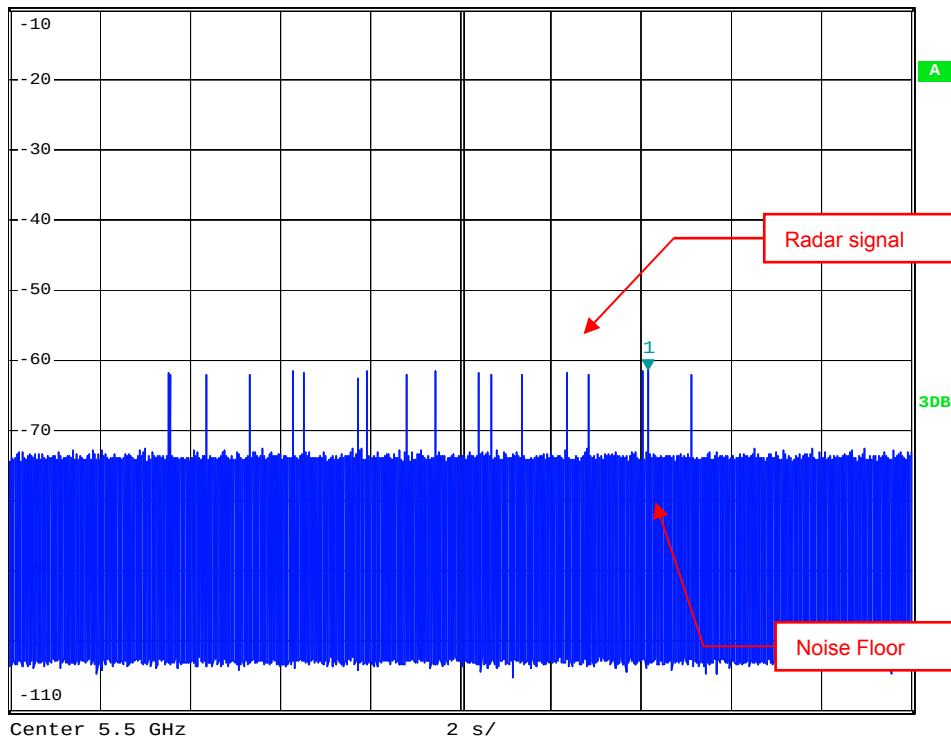
Radar Signal 3



Radar Signal 4


1 AP  
VIEW

Ref -10 dBm      \*Att 0 dB      RBW 3 MHz      Marker 1 [T1]      -61.37 dBm  
 \*VBW 10 MHz      SWT 20 s      14.151000 s

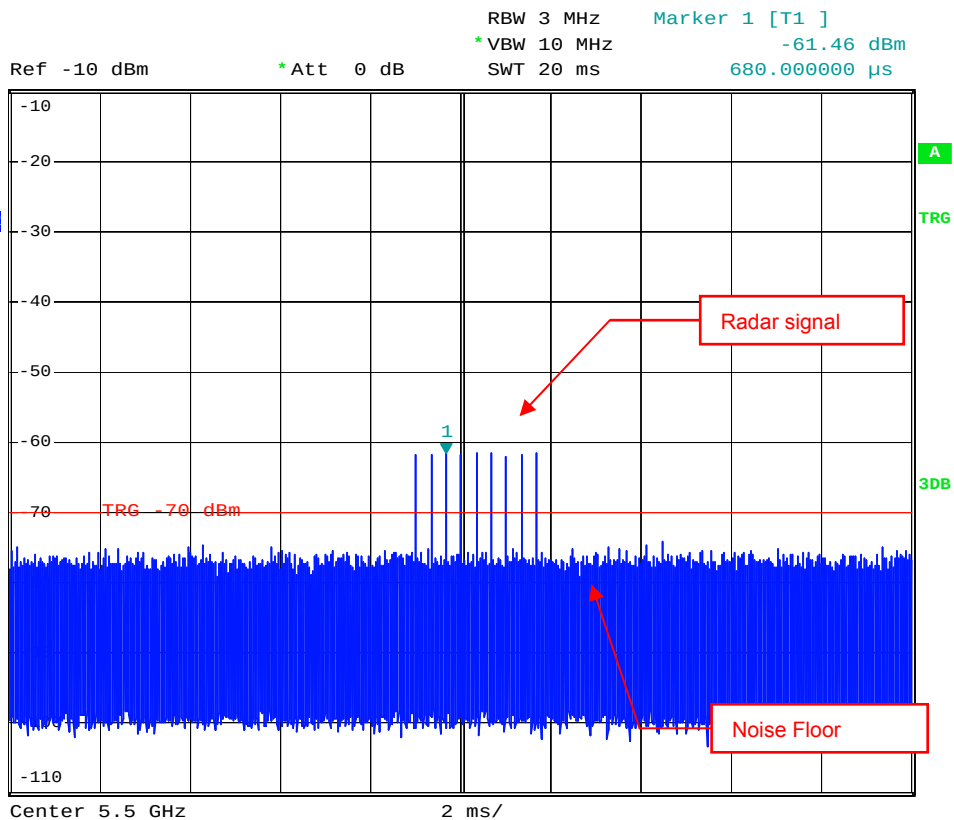


Radar Signal 5





1 AP  
CLRWR



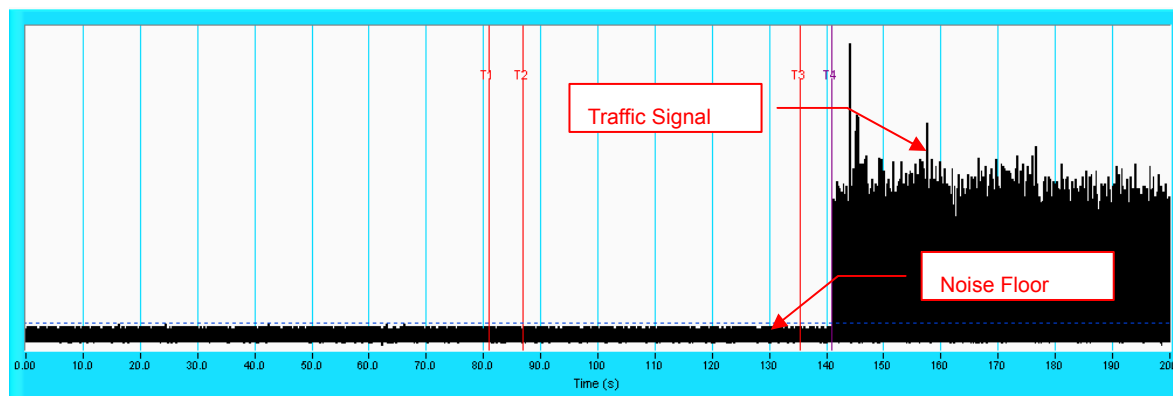
Radar Signal 6

### 6.2.1.2 CHANNEL AVAILABILITY CHECK TIME

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

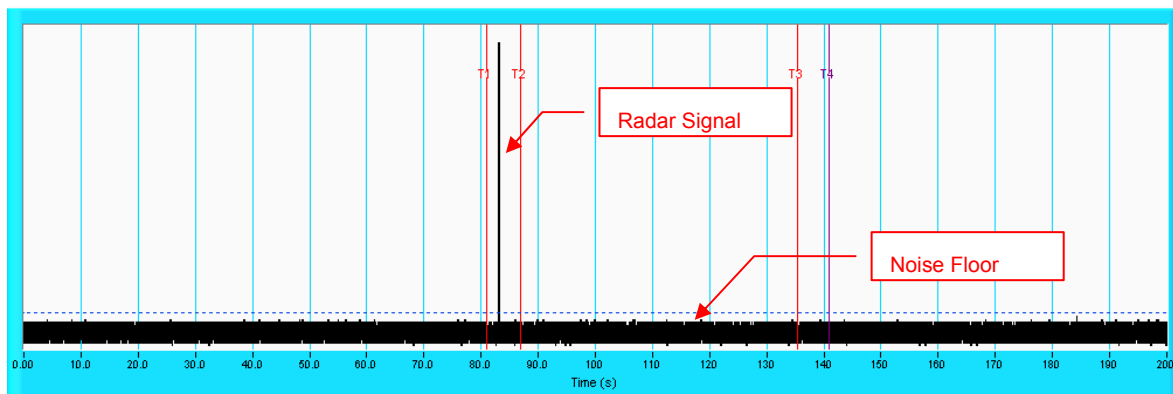
| Timing of Radar Signal | Observation |                   |
|------------------------|-------------|-------------------|
|                        | UUT         | Spectrum Analyzer |
| Within 1 to 6 second   | Detected    | No transmissions  |
| Within 54 to 60 second | Detected    | No transmissions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

### Initial Channel Availability Check Time



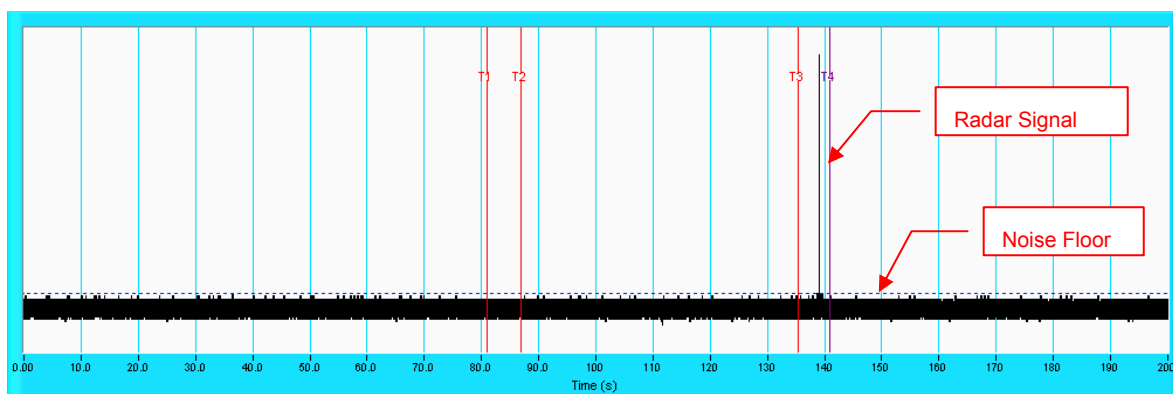
**NOTE:** T1 denotes the end of power-up time period is 81 second. T4 denotes the end of Channel Availability Check time is 141 second. Channel Availability Check time is equal to  $(T4 - T1)$  60 seconds.

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



**NOTE:** T1 denotes the end of power up time period is 81 second. T2 denotes 87 second, the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 141 second.

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



**NOTE:** T1 denotes the end of power up time period is 81 second. T3 denotes 135 second and T4 denotes the 141 second. 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.

### 6.2.1.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

#### IEEE 802.11n 20MHz

**Table 1: Short Pulse Radar Test Waveforms.**

| Radar Type                  | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|------------|------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | 1428       | 18               | 30                      | 86.7                                   |
| 2                           | 1-5                | 150-230    | 23-29            | 30                      | 73.3                                   |
| 3                           | 6-10               | 200-500    | 16-18            | 30                      | 76.7                                   |
| 4                           | 11-20              | 200-500    | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                    |            |                  | 120                     | 80                                     |

**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                      | 93.3                                   |

**Table 3: Frequency Hopping Radar Test Waveform**

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



## IEEE 802.11n 40MHz

**Table 1: Short Pulse Radar Test Waveforms.**

| Radar Type                  | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|------------|------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | 1428       | 18               | 30                      | 83.3                                   |
| 2                           | 1-5                | 150-230    | 23-29            | 30                      | 80.0                                   |
| 3                           | 6-10               | 200-500    | 16-18            | 30                      | 80.0                                   |
| 4                           | 11-20              | 200-500    | 12-16            | 30                      | 83.3                                   |
| Aggregate (Radar Types 1-4) |                    |            |                  | 120                     | 81.7                                   |

**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                                     |

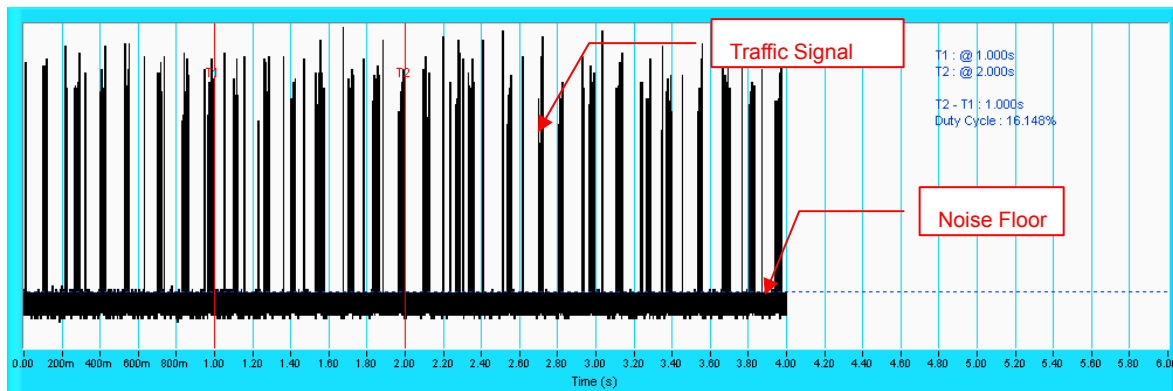
**Table 3: Frequency Hopping Radar Test Waveform**

| 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                      | 90                                     |

# WLAN TRAFFIC

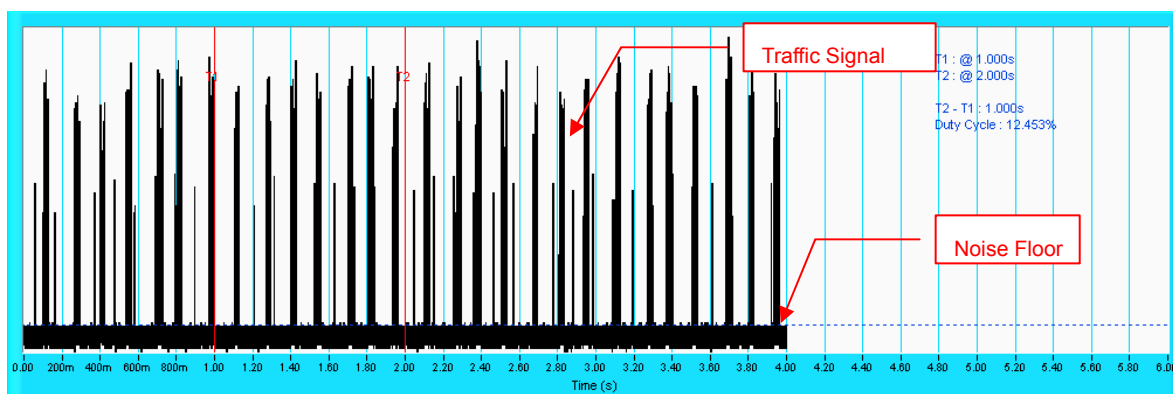
IEEE 802.11n 20MHz

Date Rate: MCS4



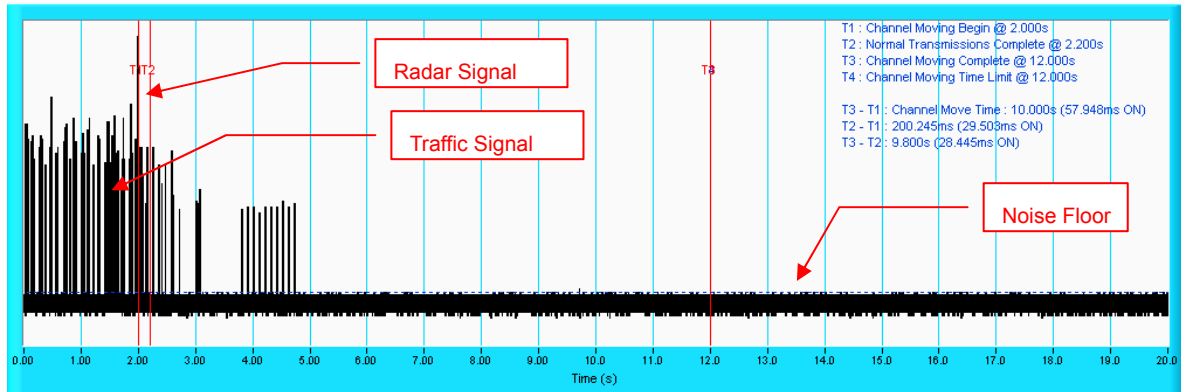
IEEE 802.11n 40MHz

Date Rate: MCS2

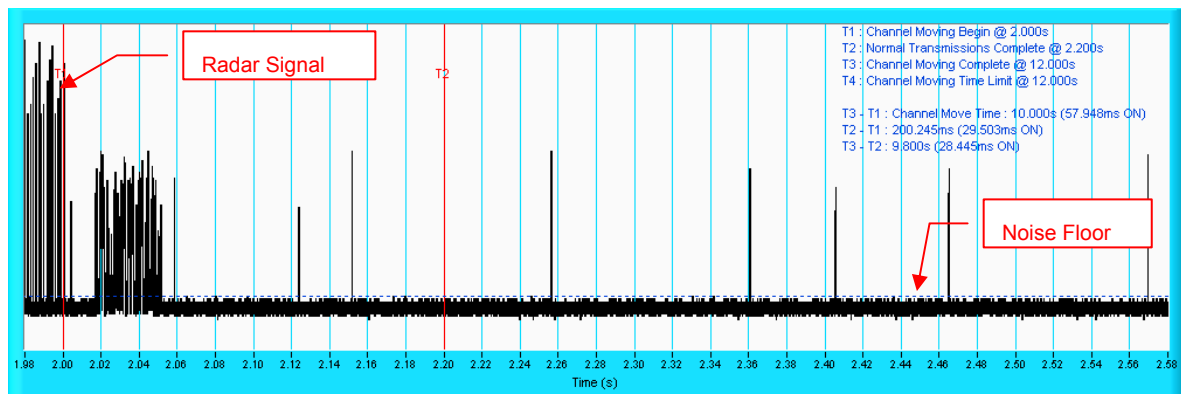


## Radar signal 1

IEEE 802.11n 20MHz.

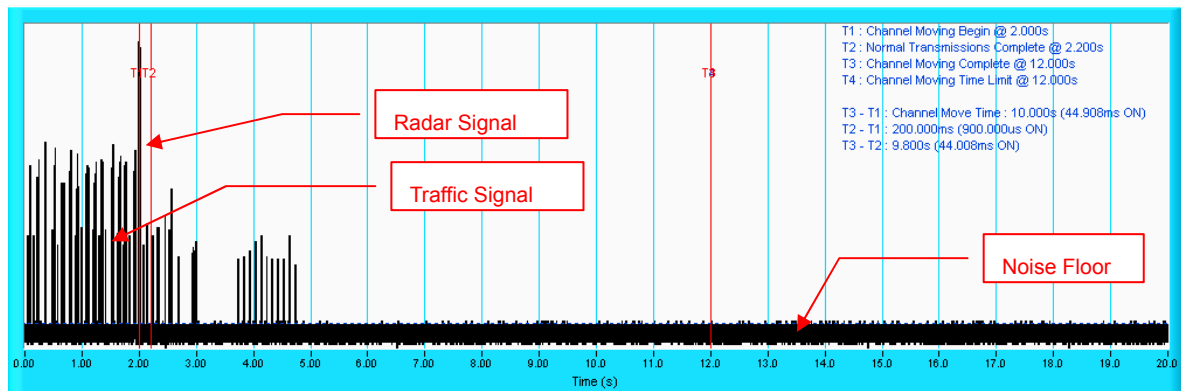


**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

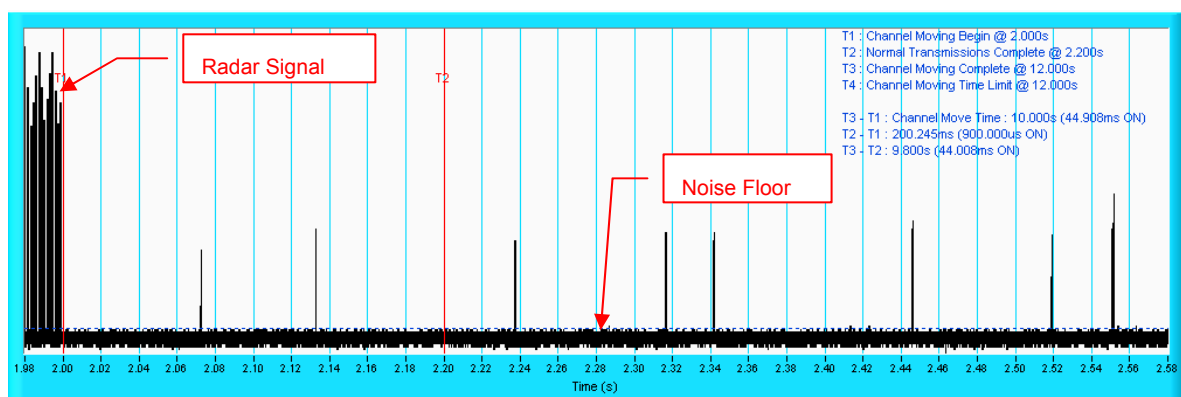


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms

## IEEE 802.11n 40MHz.



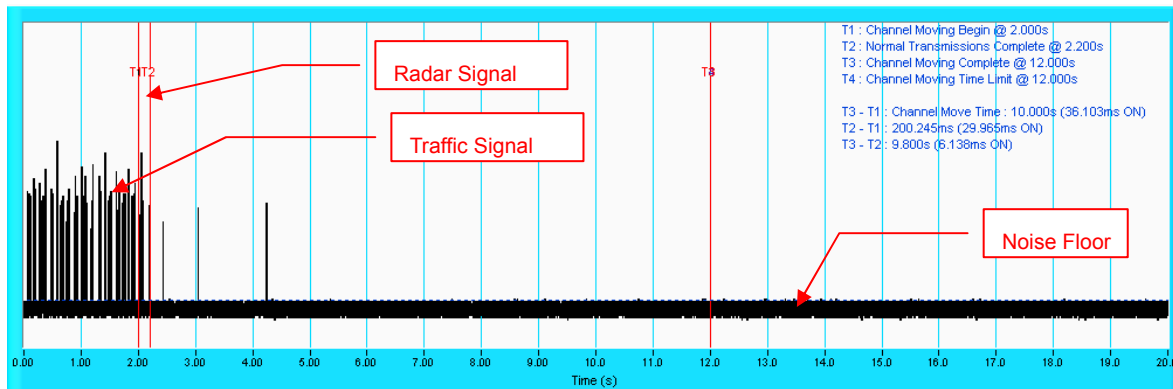
**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



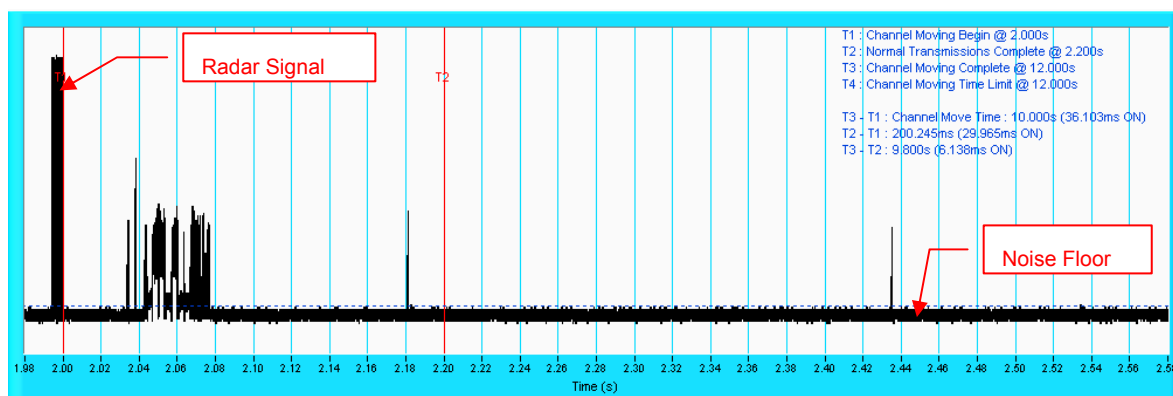
**NOTE:** An expanded plot for the device vacates the channel in the required 600ms.

## Radar signal 2

IEEE 802.11n 20MHz.

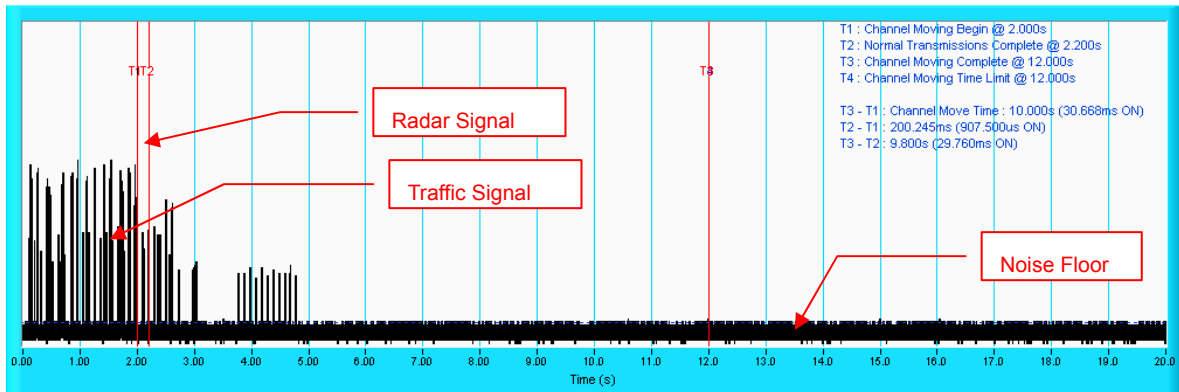


**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

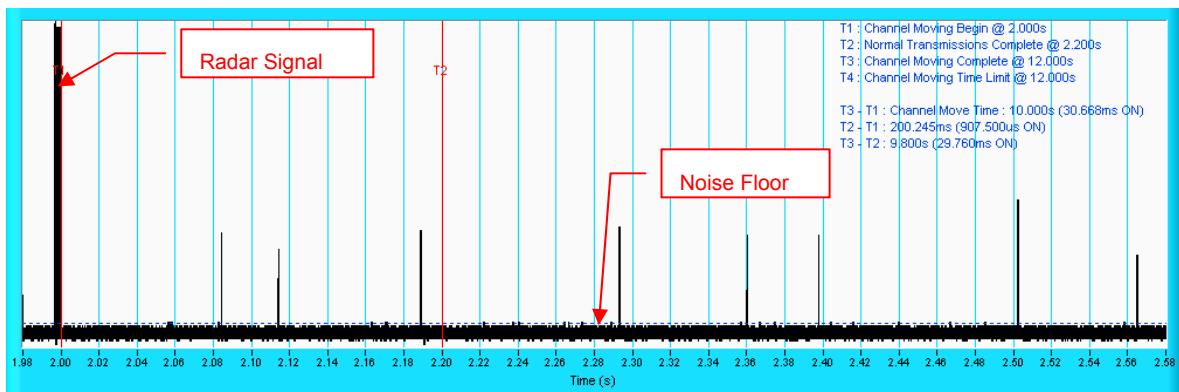


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms

## IEEE 802.11n 40MHz.



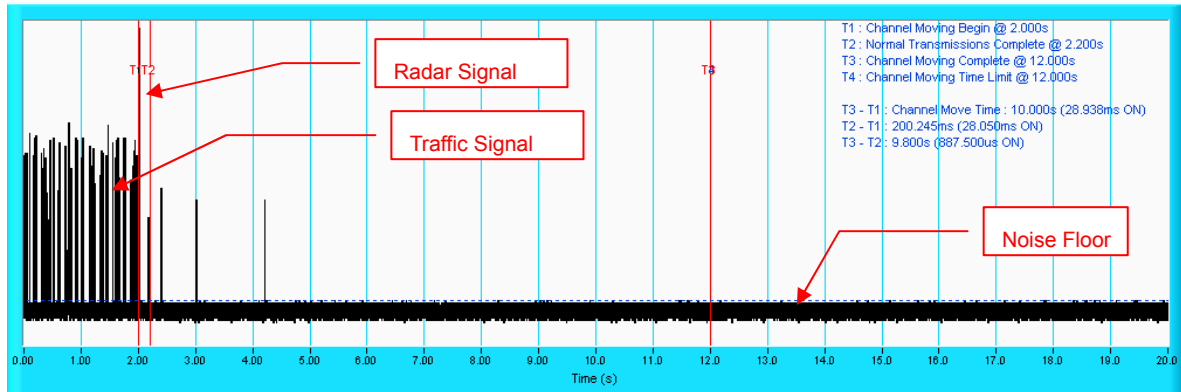
**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



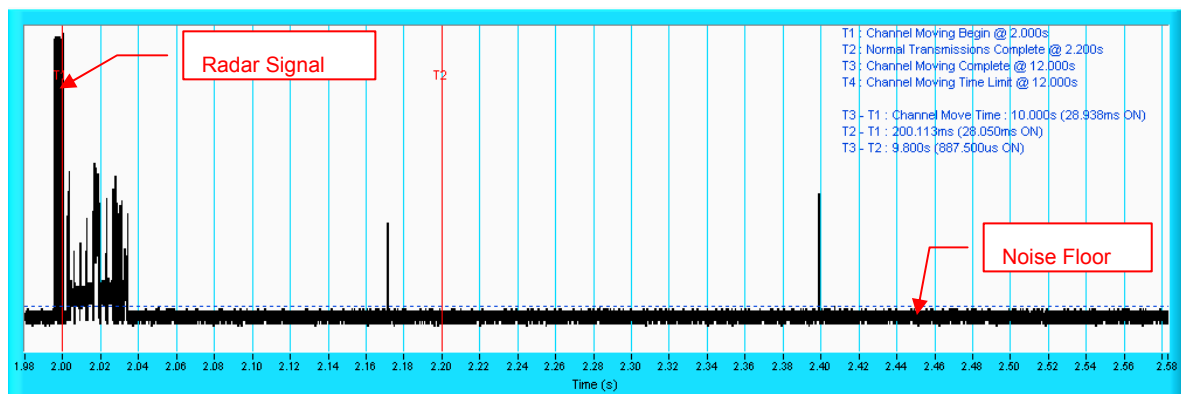
**NOTE:** An expanded plot for the device vacates the channel in the required 600ms.

## Radar signal 3

IEEE 802.11n 20MHz.

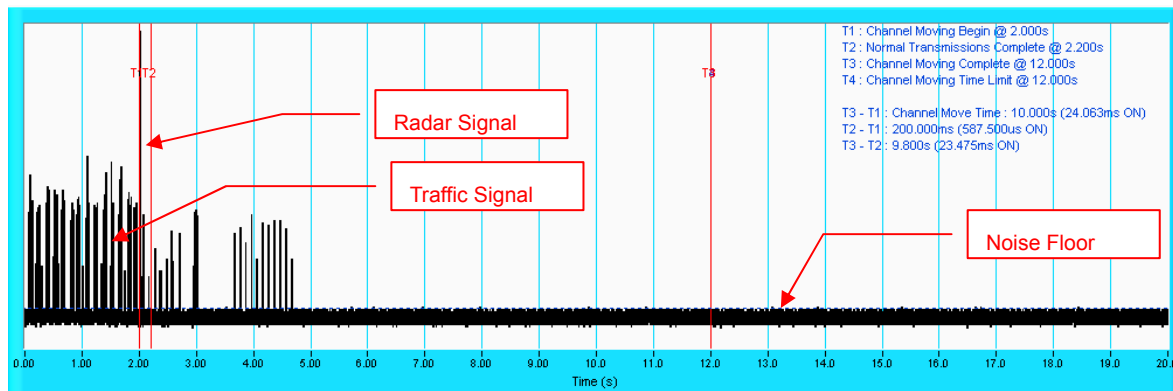


**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

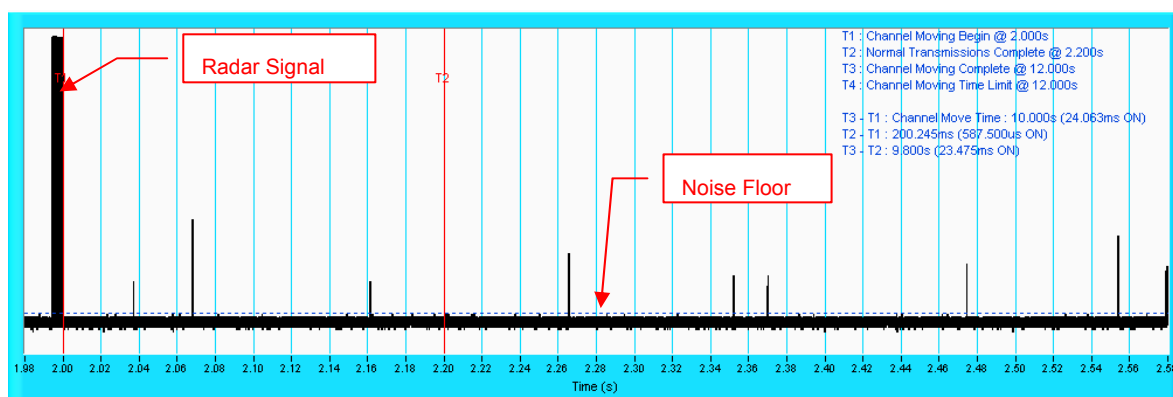


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms

## IEEE 802.11n 40MHz.



**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.

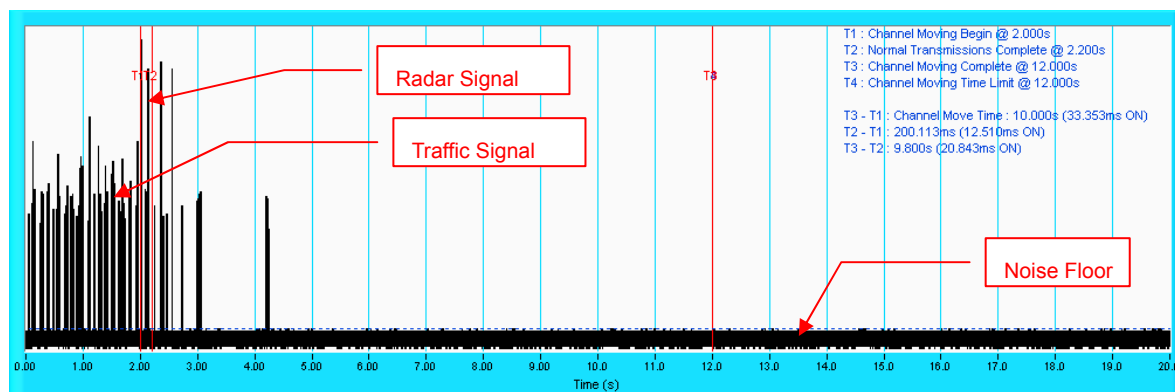


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms.

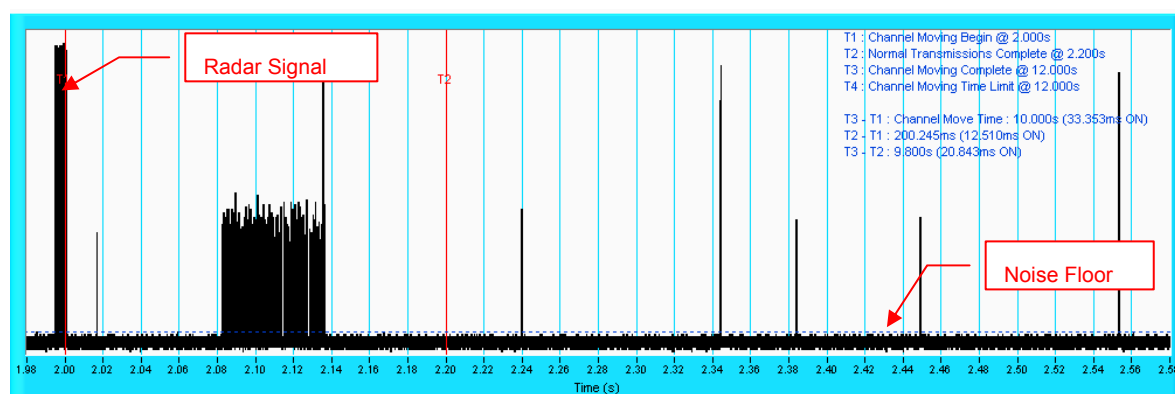


## Radar signal 4

IEEE 802.11n 20MHz.

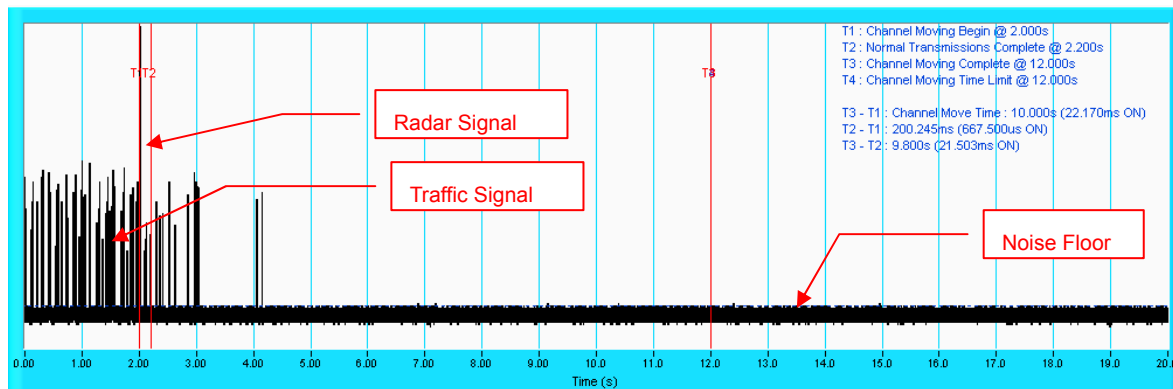


**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

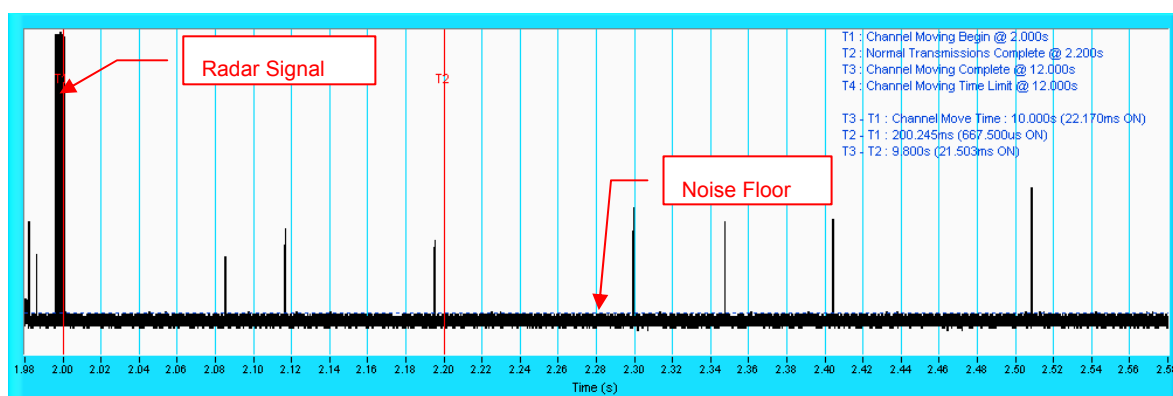


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms

## IEEE 802.11n 40MHz.



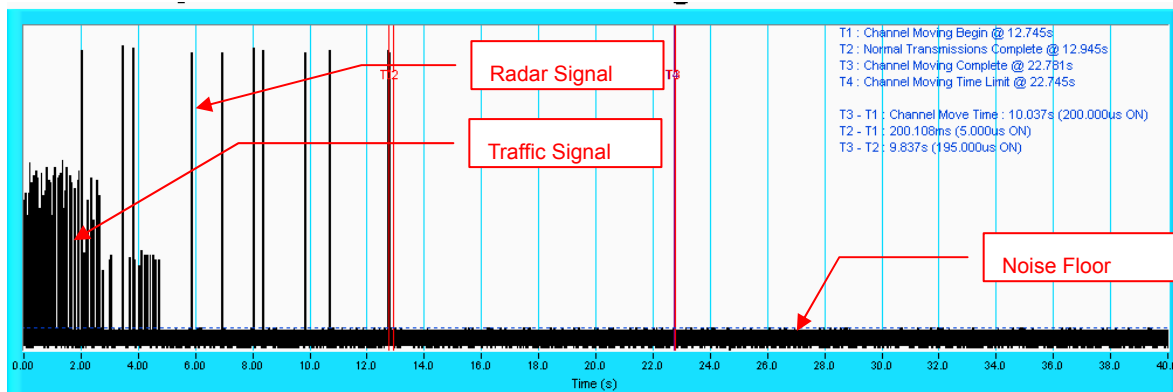
**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



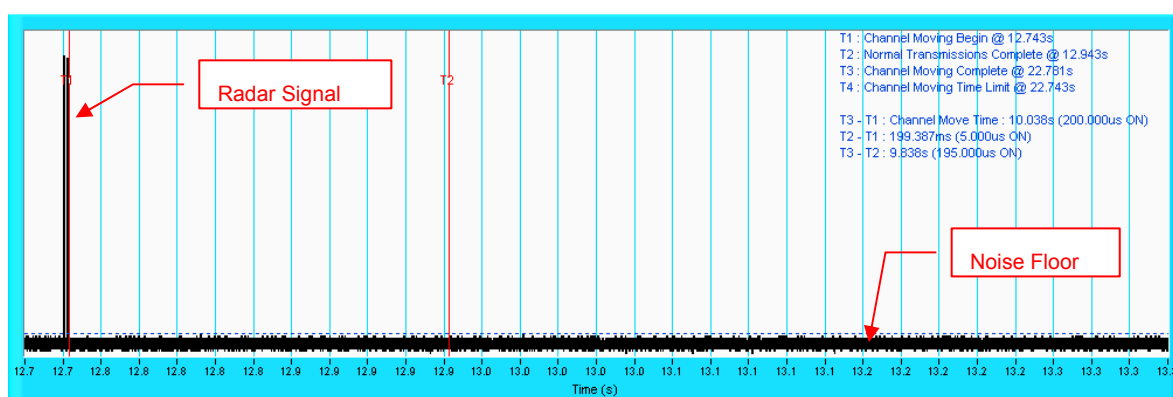
**NOTE:** An expanded plot for the device vacates the channel in the required 600ms.

## Radar signal 5

IEEE 802.11n 20MHz.

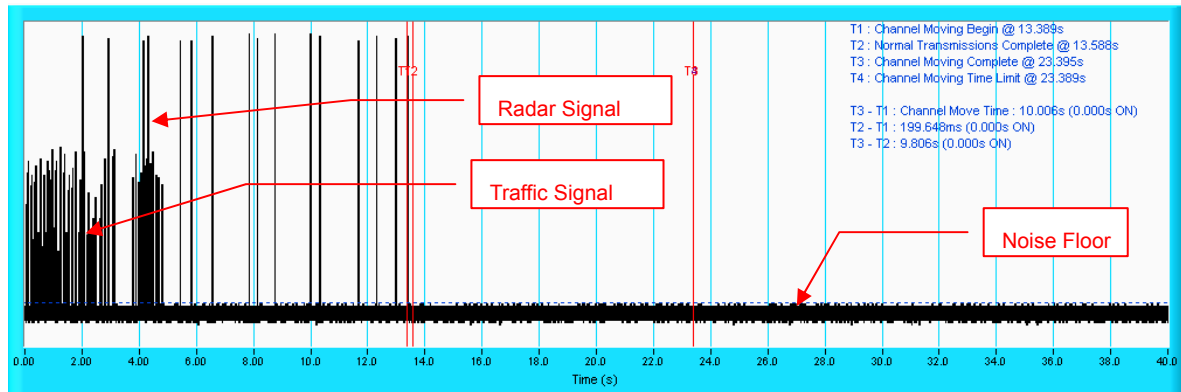


**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

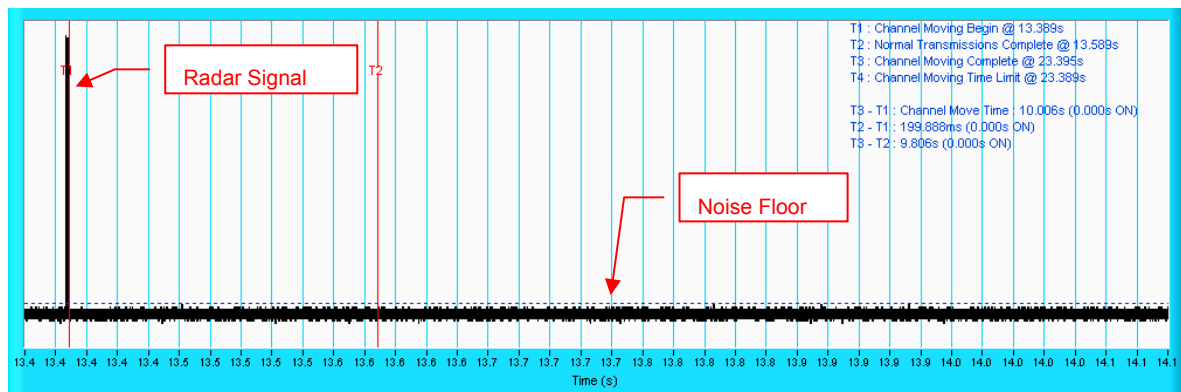


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms

## IEEE 802.11n 40MHz.



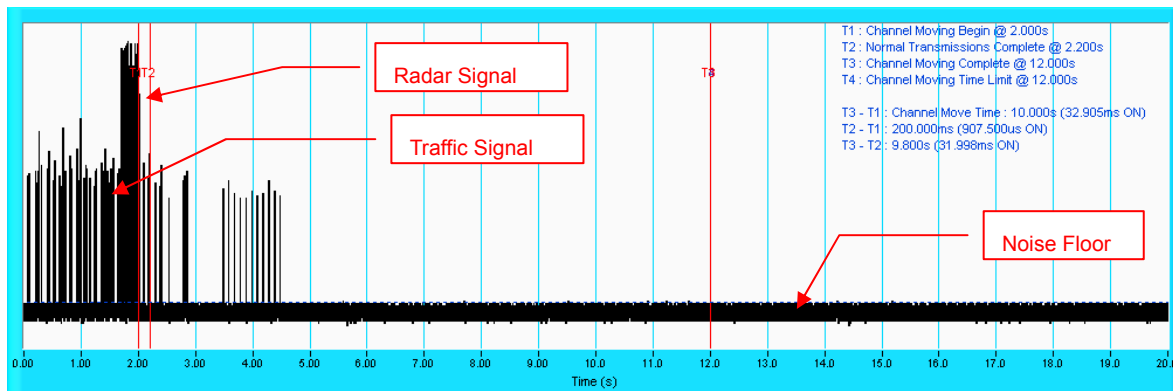
**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



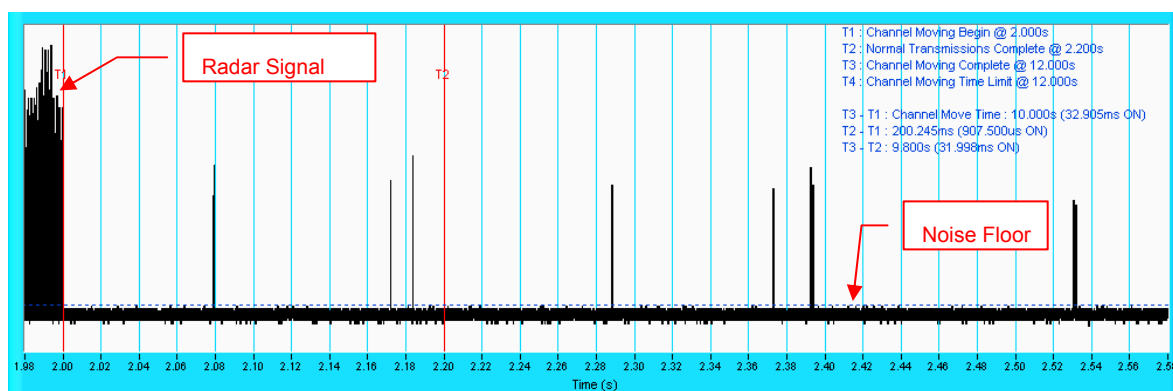
**NOTE:** An expanded plot for the device vacates the channel in the required 600ms.

## Radar signal 6

IEEE 802.11n 20MHz.

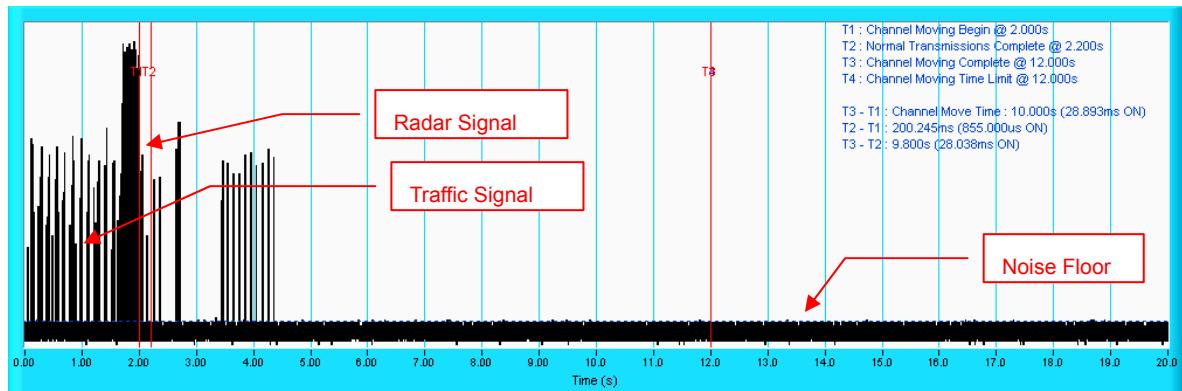


**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

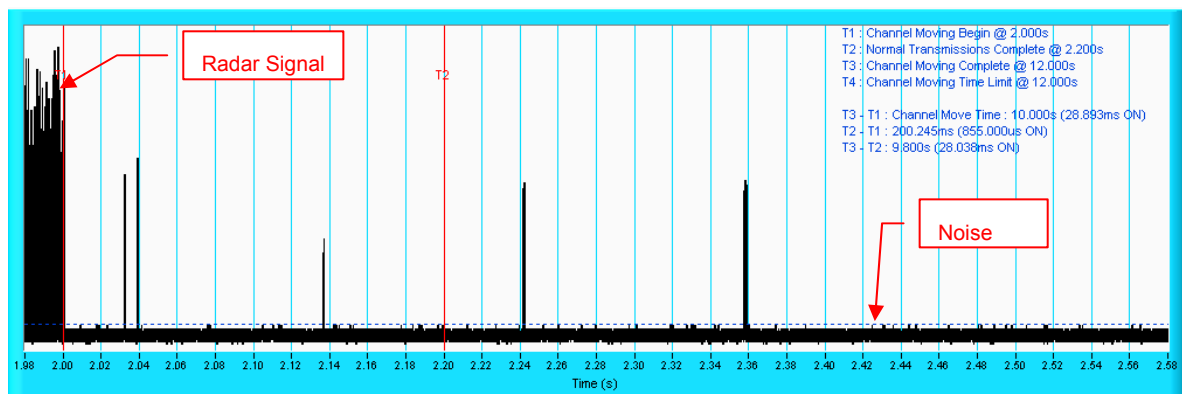


**NOTE:** An expanded plot for the device vacates the channel in the required 600ms

## IEEE 802.11n 40MHz.



**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.



**NOTE:** An expanded plot for the device vacates the channel in the required 600ms.

IEEE 802.11n 20MHz.

### Type 1 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 18               | 1.0u            | 1.428m  | Yes       |
| 2       | 18               | 1.0u            | 1.428m  | Yes       |
| 3       | 18               | 1.0u            | 1.428m  | Yes       |
| 4       | 18               | 1.0u            | 1.428m  | Yes       |
| 5       | 18               | 1.0u            | 1.428m  | Yes       |
| 6       | 18               | 1.0u            | 1.428m  | Yes       |
| 7       | 18               | 1.0u            | 1.428m  | Yes       |
| 8       | 18               | 1.0u            | 1.428m  | No        |
| 9       | 18               | 1.0u            | 1.428m  | Yes       |
| 10      | 18               | 1.0u            | 1.428m  | Yes       |
| 11      | 18               | 1.0u            | 1.428m  | Yes       |
| 12      | 18               | 1.0u            | 1.428m  | Yes       |
| 13      | 18               | 1.0u            | 1.428m  | Yes       |
| 14      | 18               | 1.0u            | 1.428m  | Yes       |
| 15      | 18               | 1.0u            | 1.428m  | No        |
| 16      | 18               | 1.0u            | 1.428m  | Yes       |
| 17      | 18               | 1.0u            | 1.428m  | Yes       |
| 18      | 18               | 1.0u            | 1.428m  | Yes       |
| 19      | 18               | 1.0u            | 1.428m  | Yes       |
| 20      | 18               | 1.0u            | 1.428m  | No        |
| 21      | 18               | 1.0u            | 1.428m  | Yes       |
| 22      | 18               | 1.0u            | 1.428m  | Yes       |
| 23      | 18               | 1.0u            | 1.428m  | Yes       |
| 24      | 18               | 1.0u            | 1.428m  | Yes       |
| 25      | 18               | 1.0u            | 1.428m  | No        |
| 26      | 18               | 1.0u            | 1.428m  | Yes       |
| 27      | 18               | 1.0u            | 1.428m  | Yes       |
| 28      | 18               | 1.0u            | 1.428m  | Yes       |
| 29      | 18               | 1.0u            | 1.428m  | Yes       |
| 30      | 18               | 1.0u            | 1.428m  | Yes       |

Detection Rate: 86.7 %

IEEE 802.11n 40MHz.

| Type 1 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 2                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 3                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 4                                     | 18               | 1.0u            | 1.428m  | No        |
| 5                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 6                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 7                                     | 18               | 1.0u            | 1.428m  | No        |
| 8                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 9                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 10                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 11                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 12                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 13                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 14                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 15                                    | 18               | 1.0u            | 1.428m  | No        |
| 16                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 17                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 18                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 19                                    | 18               | 1.0u            | 1.428m  | No        |
| 20                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 21                                    | 18               | 1.0u            | 1.428m  | No        |
| 22                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 23                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 24                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 25                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 26                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 27                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 28                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 29                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 30                                    | 18               | 1.0u            | 1.428m  | Yes       |
| Detection Rate: 83.3 %                |                  |                 |         |           |





IEEE 802.11n 20MHz.

## Type 2 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 27               | 3.6u            | 194.0u  | Yes       |
| 2       | 27               | 2.0u            | 175.0u  | Yes       |
| 3       | 23               | 3.7u            | 162.0u  | No        |
| 4       | 24               | 2.3u            | 185.0u  | Yes       |
| 5       | 29               | 3.0u            | 177.0u  | Yes       |
| 6       | 26               | 2.4u            | 168.0u  | Yes       |
| 7       | 25               | 1.8u            | 226.0u  | No        |
| 8       | 26               | 3.0u            | 164.0u  | No        |
| 9       | 28               | 4.9u            | 153.0u  | Yes       |
| 10      | 28               | 4.7u            | 154.0u  | Yes       |
| 11      | 26               | 4.8u            | 208.0u  | Yes       |
| 12      | 28               | 3.2u            | 219.0u  | Yes       |
| 13      | 26               | 2.0u            | 151.0u  | No        |
| 14      | 23               | 3.6u            | 178.0u  | Yes       |
| 15      | 25               | 3.9u            | 162.0u  | Yes       |
| 16      | 24               | 3.8u            | 170.0u  | No        |
| 17      | 27               | 1.4u            | 205.0u  | Yes       |
| 18      | 25               | 1.8u            | 205.0u  | Yes       |
| 19      | 28               | 1.7u            | 189.0u  | Yes       |
| 20      | 24               | 4.3u            | 196.0u  | Yes       |
| 21      | 26               | 2.1u            | 217.0u  | Yes       |
| 22      | 25               | 2.7u            | 202.0u  | No        |
| 23      | 28               | 3.7u            | 153.0u  | Yes       |
| 24      | 25               | 4.3u            | 160.0u  | No        |
| 25      | 27               | 5.0u            | 214.0u  | No        |
| 26      | 25               | 2.5u            | 204.0u  | Yes       |
| 27      | 28               | 3.3u            | 190.0u  | Yes       |
| 28      | 26               | 2.1u            | 179.0u  | Yes       |
| 29      | 28               | 3.0u            | 220.0u  | Yes       |
| 30      | 28               | 3.4u            | 193.0u  | Yes       |

Detection Rate: 73.3 %

IEEE 802.11n 40MHz.

### Type 2 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 24               | 1.7u            | 197.0u  | Yes       |
| 2       | 23               | 1.0u            | 159.0u  | Yes       |
| 3       | 24               | 1.2u            | 226.0u  | Yes       |
| 4       | 24               | 4.7u            | 197.0u  | Yes       |
| 5       | 24               | 1.4u            | 189.0u  | Yes       |
| 6       | 25               | 1.9u            | 171.0u  | No        |
| 7       | 24               | 1.6u            | 210.0u  | Yes       |
| 8       | 26               | 4.1u            | 168.0u  | Yes       |
| 9       | 28               | 3.5u            | 202.0u  | Yes       |
| 10      | 26               | 4.8u            | 174.0u  | Yes       |
| 11      | 27               | 2.4u            | 228.0u  | Yes       |
| 12      | 25               | 2.6u            | 155.0u  | Yes       |
| 13      | 28               | 1.2u            | 184.0u  | No        |
| 14      | 25               | 4.9u            | 166.0u  | Yes       |
| 15      | 28               | 3.5u            | 217.0u  | Yes       |
| 16      | 25               | 1.6u            | 183.0u  | No        |
| 17      | 28               | 2.6u            | 213.0u  | Yes       |
| 18      | 26               | 3.9u            | 170.0u  | Yes       |
| 19      | 28               | 3.8u            | 219.0u  | Yes       |
| 20      | 27               | 1.4u            | 179.0u  | Yes       |
| 21      | 25               | 3.6u            | 184.0u  | Yes       |
| 22      | 25               | 2.4u            | 172.0u  | No        |
| 23      | 26               | 1.0u            | 189.0u  | Yes       |
| 24      | 23               | 1.4u            | 193.0u  | Yes       |
| 25      | 25               | 1.8u            | 167.0u  | No        |
| 26      | 26               | 2.7u            | 219.0u  | Yes       |
| 27      | 24               | 3.1u            | 193.0u  | No        |
| 28      | 29               | 2.1u            | 197.0u  | Yes       |
| 29      | 24               | 1.9u            | 208.0u  | Yes       |
| 30      | 23               | 4.3u            | 155.0u  | Yes       |

Detection Rate: 80.0 %



A D T

IEEE 802.11n 20MHz.

## Type 3 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 16               | 7.9u            | 274.0u  | Yes       |
| 2       | 17               | 6.5u            | 264.0u  | Yes       |
| 3       | 17               | 6.7u            | 210.0u  | Yes       |
| 4       | 18               | 9.1u            | 384.0u  | Yes       |
| 5       | 17               | 10.0u           | 267.0u  | Yes       |
| 6       | 17               | 9.4u            | 278.0u  | No        |
| 7       | 16               | 6.9u            | 244.0u  | No        |
| 8       | 16               | 9.0u            | 437.0u  | Yes       |
| 9       | 17               | 9.3u            | 499.0u  | Yes       |
| 10      | 16               | 7.8u            | 273.0u  | No        |
| 11      | 17               | 6.2u            | 448.0u  | Yes       |
| 12      | 17               | 6.9u            | 462.0u  | Yes       |
| 13      | 16               | 9.6u            | 218.0u  | Yes       |
| 14      | 16               | 7.8u            | 404.0u  | Yes       |
| 15      | 17               | 8.8u            | 393.0u  | No        |
| 16      | 18               | 9.7u            | 224.0u  | Yes       |
| 17      | 18               | 7.9u            | 470.0u  | No        |
| 18      | 17               | 8.8u            | 475.0u  | Yes       |
| 19      | 17               | 6.6u            | 262.0u  | Yes       |
| 20      | 16               | 7.9u            | 285.0u  | Yes       |
| 21      | 18               | 6.3u            | 411.0u  | Yes       |
| 22      | 17               | 9.4u            | 204.0u  | Yes       |
| 23      | 18               | 6.6u            | 295.0u  | Yes       |
| 24      | 18               | 9.9u            | 371.0u  | Yes       |
| 25      | 18               | 7.0u            | 397.0u  | No        |
| 26      | 17               | 6.3u            | 404.0u  | Yes       |
| 27      | 18               | 7.1u            | 448.0u  | Yes       |
| 28      | 16               | 9.6u            | 481.0u  | Yes       |
| 29      | 16               | 7.3u            | 293.0u  | Yes       |
| 30      | 18               | 9.1u            | 414.0u  | No        |

Detection Rate: 76.7 %



A D T

IEEE 802.11n 40MHz.

## Type 3 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 16               | 7.9u            | 346.0u  | Yes       |
| 2       | 16               | 9.2u            | 402.0u  | Yes       |
| 3       | 16               | 8.1u            | 447.0u  | No        |
| 4       | 17               | 9.7u            | 300.0u  | Yes       |
| 5       | 16               | 9.4u            | 234.0u  | Yes       |
| 6       | 17               | 7.6u            | 315.0u  | Yes       |
| 7       | 16               | 9.7u            | 205.0u  | Yes       |
| 8       | 16               | 8.7u            | 249.0u  | Yes       |
| 9       | 17               | 6.1u            | 481.0u  | Yes       |
| 10      | 16               | 6.2u            | 498.0u  | No        |
| 11      | 16               | 9.0u            | 337.0u  | Yes       |
| 12      | 17               | 7.7u            | 299.0u  | Yes       |
| 13      | 17               | 7.8u            | 223.0u  | Yes       |
| 14      | 17               | 8.9u            | 482.0u  | Yes       |
| 15      | 16               | 9.2u            | 371.0u  | Yes       |
| 16      | 16               | 8.7u            | 366.0u  | Yes       |
| 17      | 18               | 10.0u           | 394.0u  | Yes       |
| 18      | 18               | 9.4u            | 432.0u  | Yes       |
| 19      | 17               | 7.2u            | 353.0u  | No        |
| 20      | 17               | 7.7u            | 428.0u  | No        |
| 21      | 17               | 9.0u            | 472.0u  | Yes       |
| 22      | 16               | 7.1u            | 277.0u  | Yes       |
| 23      | 17               | 8.3u            | 441.0u  | Yes       |
| 24      | 16               | 7.4u            | 430.0u  | Yes       |
| 25      | 16               | 7.3u            | 482.0u  | Yes       |
| 26      | 18               | 7.9u            | 265.0u  | Yes       |
| 27      | 18               | 9.0u            | 230.0u  | No        |
| 28      | 17               | 6.5u            | 328.0u  | Yes       |
| 29      | 17               | 7.2u            | 393.0u  | No        |
| 30      | 16               | 7.1u            | 245.0u  | Yes       |

Detection Rate: 80.0 %



IEEE 802.11n 20MHz.

## Type 4 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 14               | 14.5u           | 258.0u  | Yes       |
| 2       | 15               | 17.1u           | 385.0u  | Yes       |
| 3       | 14               | 12.4u           | 348.0u  | Yes       |
| 4       | 14               | 14.0u           | 229.0u  | Yes       |
| 5       | 14               | 11.7u           | 321.0u  | No        |
| 6       | 14               | 18.1u           | 315.0u  | Yes       |
| 7       | 15               | 11.8u           | 278.0u  | Yes       |
| 8       | 14               | 17.4u           | 415.0u  | Yes       |
| 9       | 15               | 12.5u           | 369.0u  | Yes       |
| 10      | 14               | 17.2u           | 200.0u  | Yes       |
| 11      | 13               | 12.2u           | 351.0u  | Yes       |
| 12      | 14               | 18.0u           | 448.0u  | Yes       |
| 13      | 15               | 18.1u           | 395.0u  | Yes       |
| 14      | 13               | 12.3u           | 392.0u  | No        |
| 15      | 13               | 16.4u           | 494.0u  | Yes       |
| 16      | 15               | 15.1u           | 245.0u  | Yes       |
| 17      | 12               | 16.8u           | 481.0u  | Yes       |
| 18      | 15               | 17.5u           | 296.0u  | Yes       |
| 19      | 13               | 17.4u           | 379.0u  | No        |
| 20      | 13               | 12.6u           | 441.0u  | Yes       |
| 21      | 14               | 13.1u           | 312.0u  | Yes       |
| 22      | 13               | 14.6u           | 495.0u  | Yes       |
| 23      | 15               | 14.4u           | 283.0u  | No        |
| 24      | 13               | 11.8u           | 309.0u  | Yes       |
| 25      | 15               | 18.4u           | 494.0u  | Yes       |
| 26      | 14               | 13.7u           | 443.0u  | Yes       |
| 27      | 13               | 14.3u           | 216.0u  | Yes       |
| 28      | 14               | 15.2u           | 314.0u  | Yes       |
| 29      | 12               | 16.4u           | 445.0u  | No        |
| 30      | 12               | 11.9u           | 374.0u  | Yes       |

Detection Rate: 83.3 %

IEEE 802.11n 40MHz.

### Type 4 Radar Statistical Performances

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 15               | 16.5u           | 260.0u  | Yes       |
| 2       | 14               | 11.8u           | 238.0u  | No        |
| 3       | 12               | 18.6u           | 327.0u  | Yes       |
| 4       | 14               | 11.5u           | 474.0u  | Yes       |
| 5       | 12               | 19.9u           | 375.0u  | Yes       |
| 6       | 12               | 15.9u           | 294.0u  | Yes       |
| 7       | 15               | 13.4u           | 349.0u  | Yes       |
| 8       | 16               | 18.6u           | 323.0u  | Yes       |
| 9       | 13               | 19.6u           | 303.0u  | Yes       |
| 10      | 13               | 11.8u           | 264.0u  | Yes       |
| 11      | 15               | 11.9u           | 315.0u  | Yes       |
| 12      | 12               | 16.6u           | 323.0u  | Yes       |
| 13      | 12               | 11.4u           | 301.0u  | Yes       |
| 14      | 14               | 13.4u           | 447.0u  | No        |
| 15      | 15               | 11.3u           | 489.0u  | Yes       |
| 16      | 14               | 19.6u           | 323.0u  | Yes       |
| 17      | 15               | 18.3u           | 322.0u  | Yes       |
| 18      | 14               | 17.5u           | 437.0u  | Yes       |
| 19      | 14               | 18.5u           | 494.0u  | Yes       |
| 20      | 15               | 17.4u           | 343.0u  | Yes       |
| 21      | 14               | 12.2u           | 323.0u  | No        |
| 22      | 12               | 19.8u           | 298.0u  | Yes       |
| 23      | 12               | 13.7u           | 341.0u  | Yes       |
| 24      | 14               | 15.7u           | 324.0u  | Yes       |
| 25      | 15               | 18.1u           | 254.0u  | No        |
| 26      | 16               | 18.3u           | 475.0u  | Yes       |
| 27      | 15               | 15.8u           | 297.0u  | Yes       |
| 28      | 16               | 16.0u           | 471.0u  | Yes       |
| 29      | 14               | 18.7u           | 492.0u  | Yes       |
| 30      | 13               | 14.4u           | 221.0u  | No        |

Detection Rate: 83.3 %



IEEE 802.11n 20MHz.

### Type 5 Radar Statistical Performances

| Trial # | Test Signal Name | Detection |
|---------|------------------|-----------|
| 1       | LP_Signal_01     | Yes       |
| 2       | LP_Signal_02     | No        |
| 3       | LP_Signal_03     | Yes       |
| 4       | LP_Signal_04     | Yes       |
| 5       | LP_Signal_05     | Yes       |
| 6       | LP_Signal_06     | Yes       |
| 7       | LP_Signal_07     | Yes       |
| 8       | LP_Signal_08     | Yes       |
| 9       | LP_Signal_09     | Yes       |
| 10      | LP_Signal_10     | Yes       |
| 11      | LP_Signal_11     | Yes       |
| 12      | LP_Signal_12     | Yes       |
| 13      | LP_Signal_13     | Yes       |
| 14      | LP_Signal_14     | Yes       |
| 15      | LP_Signal_15     | Yes       |
| 16      | LP_Signal_16     | Yes       |
| 17      | LP_Signal_17     | Yes       |
| 18      | LP_Signal_18     | Yes       |
| 19      | LP_Signal_19     | Yes       |
| 20      | LP_Signal_20     | Yes       |
| 21      | LP_Signal_21     | Yes       |
| 22      | LP_Signal_22     | Yes       |
| 23      | LP_Signal_23     | Yes       |
| 24      | LP_Signal_24     | Yes       |
| 25      | LP_Signal_25     | Yes       |
| 26      | LP_Signal_26     | Yes       |
| 27      | LP_Signal_27     | No        |
| 28      | LP_Signal_28     | Yes       |
| 29      | LP_Signal_29     | Yes       |
| 30      | LP_Signal_30     | Yes       |

Detection Rate: 93.3 %

The Long Pulse Radar pattern shown in Annex B.1



IEEE 802.11n 40MHz.

### Type 5 Radar Statistical Performances

| Trial # | Test Signal Name | Detection |
|---------|------------------|-----------|
| 1       | LP_Signal_01     | Yes       |
| 2       | LP_Signal_02     | Yes       |
| 3       | LP_Signal_03     | Yes       |
| 4       | LP_Signal_04     | Yes       |
| 5       | LP_Signal_05     | No        |
| 6       | LP_Signal_06     | Yes       |
| 7       | LP_Signal_07     | Yes       |
| 8       | LP_Signal_08     | Yes       |
| 9       | LP_Signal_09     | Yes       |
| 10      | LP_Signal_10     | Yes       |
| 11      | LP_Signal_11     | Yes       |
| 12      | LP_Signal_12     | Yes       |
| 13      | LP_Signal_13     | Yes       |
| 14      | LP_Signal_14     | Yes       |
| 15      | LP_Signal_15     | Yes       |
| 16      | LP_Signal_16     | Yes       |
| 17      | LP_Signal_17     | Yes       |
| 18      | LP_Signal_18     | Yes       |
| 19      | LP_Signal_19     | Yes       |
| 20      | LP_Signal_20     | Yes       |
| 21      | LP_Signal_21     | No        |
| 22      | LP_Signal_22     | Yes       |
| 23      | LP_Signal_23     | Yes       |
| 24      | LP_Signal_24     | Yes       |
| 25      | LP_Signal_25     | No        |
| 26      | LP_Signal_26     | Yes       |
| 27      | LP_Signal_27     | Yes       |
| 28      | LP_Signal_28     | Yes       |
| 29      | LP_Signal_29     | Yes       |
| 30      | LP_Signal_30     | Yes       |

Detection Rate: 90.0 %

The Long Pulse Radar pattern shown in Annex B.1





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IEEE 802.11n 20MHz.

**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                 | No        |
| 8       | HOP_FREQ_SEQ_08                 | Yes       |
| 9       | HOP_FREQ_SEQ_09                 | Yes       |
| 10      | HOP_FREQ_SEQ_10                 | Yes       |
| 11      | HOP_FREQ_SEQ_11                 | Yes       |
| 12      | HOP_FREQ_SEQ_12                 | Yes       |
| 13      | HOP_FREQ_SEQ_13                 | Yes       |
| 14      | HOP_FREQ_SEQ_14                 | Yes       |
| 15      | HOP_FREQ_SEQ_15                 | Yes       |
| 16      | HOP_FREQ_SEQ_16                 | Yes       |
| 17      | HOP_FREQ_SEQ_17                 | Yes       |
| 18      | HOP_FREQ_SEQ_18                 | Yes       |
| 19      | HOP_FREQ_SEQ_19                 | Yes       |
| 20      | HOP_FREQ_SEQ_20                 | Yes       |
| 21      | HOP_FREQ_SEQ_21                 | Yes       |
| 22      | HOP_FREQ_SEQ_22                 | Yes       |
| 23      | HOP_FREQ_SEQ_23                 | Yes       |
| 24      | HOP_FREQ_SEQ_24                 | Yes       |
| 25      | HOP_FREQ_SEQ_25                 | Yes       |
| 26      | HOP_FREQ_SEQ_26                 | No        |
| 27      | HOP_FREQ_SEQ_27                 | Yes       |
| 28      | HOP_FREQ_SEQ_28                 | Yes       |
| 29      | HOP_FREQ_SEQ_29                 | Yes       |
| 30      | HOP_FREQ_SEQ_30                 | Yes       |

**Detection Rate: 93.3 %**

The Frequency Hopping Radar pattern shown in Annex B.2



IEEE 802.11n 40MHz.

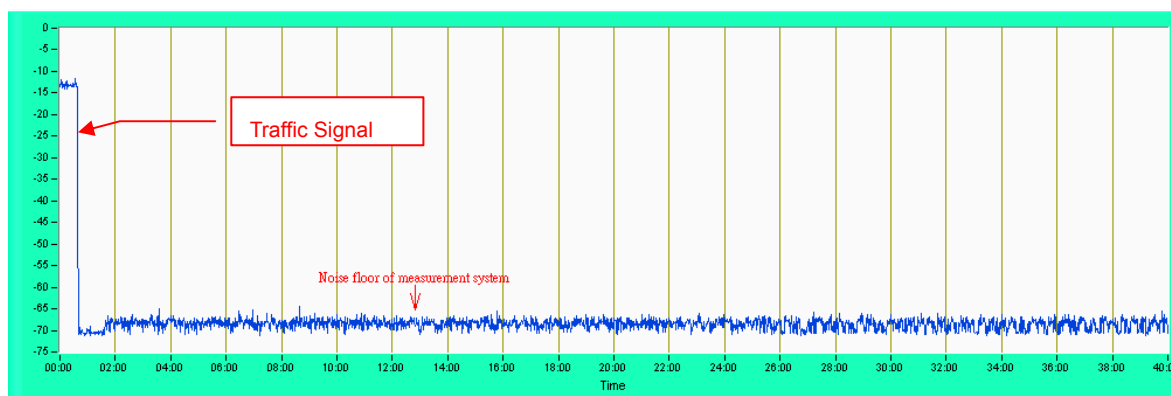
### Type 6 Radar Statistical Performances

| Trial # | Hopping Frequency Sequence Name | Detection              |
|---------|---------------------------------|------------------------|
| 1       | HOP_FREQ_SEQ_01                 | Yes                    |
| 2       | HOP_FREQ_SEQ_02                 | Yes                    |
| 3       | HOP_FREQ_SEQ_03                 | Yes                    |
| 4       | HOP_FREQ_SEQ_04                 | Yes                    |
| 5       | HOP_FREQ_SEQ_05                 | No                     |
| 6       | HOP_FREQ_SEQ_06                 | Yes                    |
| 7       | HOP_FREQ_SEQ_07                 | Yes                    |
| 8       | HOP_FREQ_SEQ_08                 | Yes                    |
| 9       | HOP_FREQ_SEQ_09                 | Yes                    |
| 10      | HOP_FREQ_SEQ_10                 | Yes                    |
| 11      | HOP_FREQ_SEQ_11                 | Yes                    |
| 12      | HOP_FREQ_SEQ_12                 | Yes                    |
| 13      | HOP_FREQ_SEQ_13                 | Yes                    |
| 14      | HOP_FREQ_SEQ_14                 | Yes                    |
| 15      | HOP_FREQ_SEQ_15                 | No                     |
| 16      | HOP_FREQ_SEQ_16                 | Yes                    |
| 17      | HOP_FREQ_SEQ_17                 | Yes                    |
| 18      | HOP_FREQ_SEQ_18                 | Yes                    |
| 19      | HOP_FREQ_SEQ_19                 | Yes                    |
| 20      | HOP_FREQ_SEQ_20                 | Yes                    |
| 21      | HOP_FREQ_SEQ_21                 | Yes                    |
| 22      | HOP_FREQ_SEQ_22                 | Yes                    |
| 23      | HOP_FREQ_SEQ_23                 | Yes                    |
| 24      | HOP_FREQ_SEQ_24                 | No                     |
| 25      | HOP_FREQ_SEQ_25                 | Yes                    |
| 26      | HOP_FREQ_SEQ_26                 | Yes                    |
| 27      | HOP_FREQ_SEQ_27                 | Yes                    |
| 28      | HOP_FREQ_SEQ_28                 | Yes                    |
| 29      | HOP_FREQ_SEQ_29                 | Yes                    |
| 30      | HOP_FREQ_SEQ_30                 | Yes                    |
|         |                                 | Detection Rate: 90.0 % |

The Frequency Hopping Radar pattern shown in Annex B.2

#### 6.2.1.4 NON- OCCUPANCY PERIOD

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.



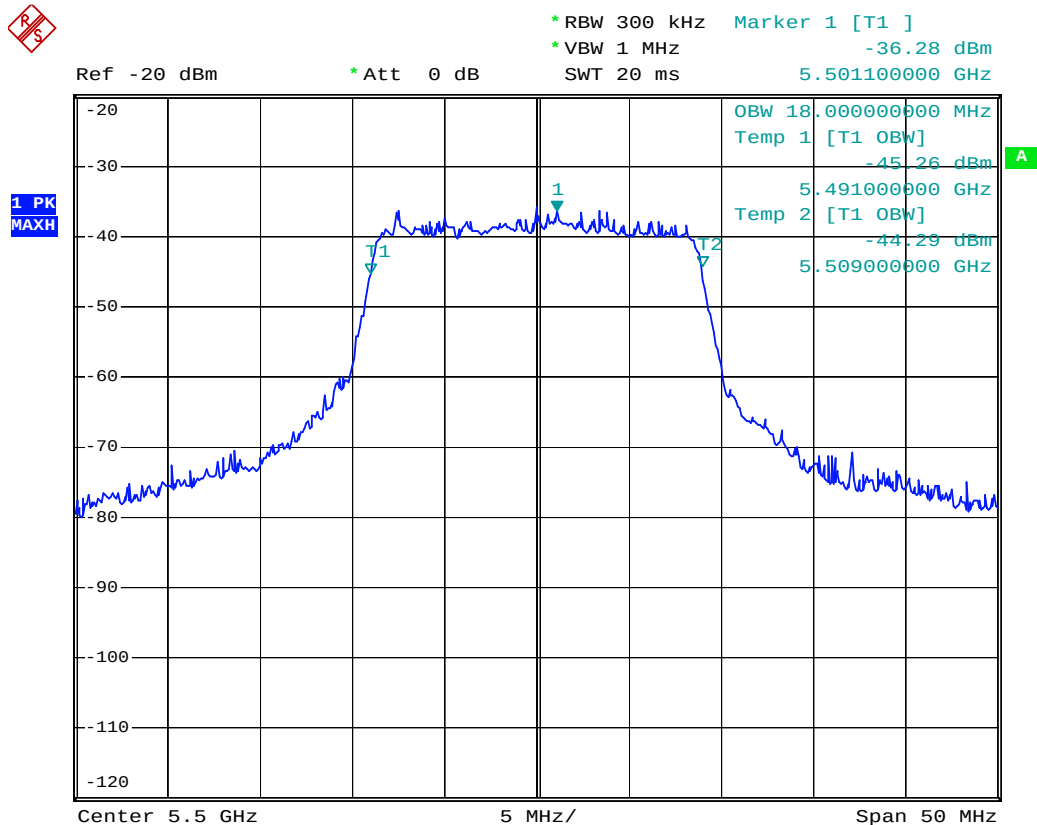
#### 6.2.1.5 UNIFORM SPREADING

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5150 to 5350MHz and 5470 to 5725 MHz shall select an operating channel, so that the probability of selecting a given channel shall be the same for all channels.

The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

## 6.2.1.6 U-NII DETECTION BANDWIDTH

IEEE 802.11n 20MHz

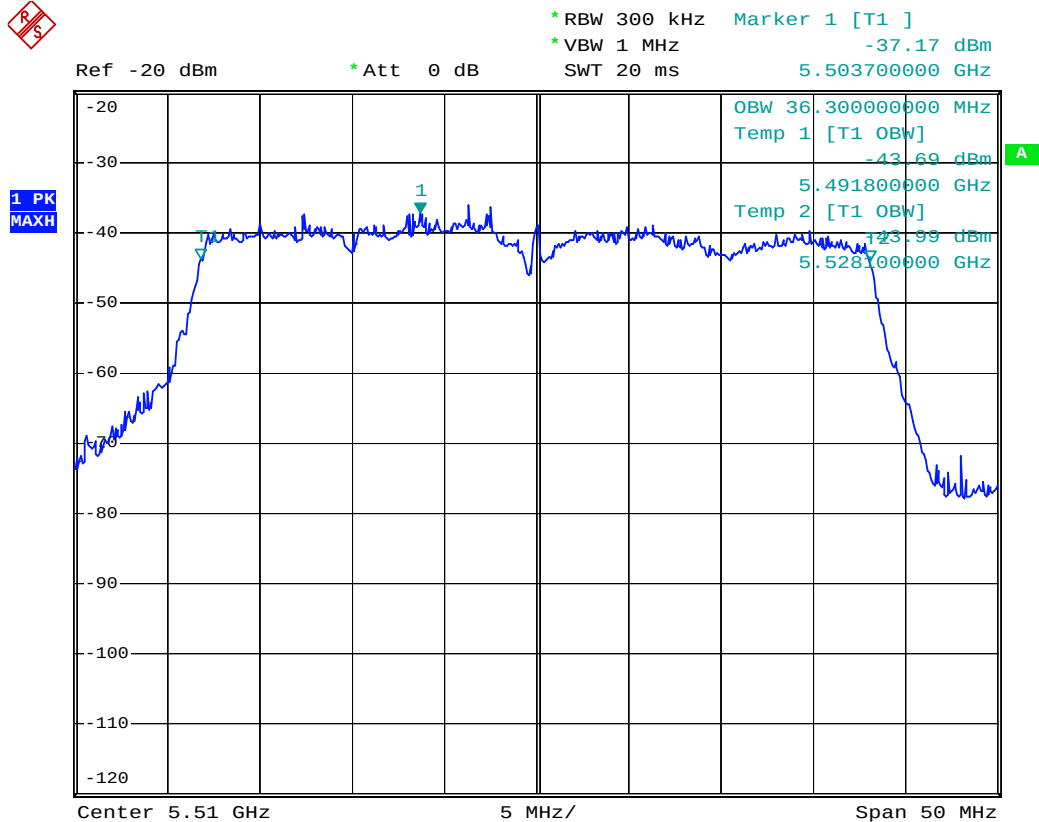


U-NII 99% Channel bandwidth



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## IEEE 802.11n 40MHz



U-NII 99% Channel bandwidth

# Detection Bandwidth Test - IEEE 802.11n 20MHz

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 18MHz

Detection bandwidth (80% of EUT 99% Power bandwidth): 14.4MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |   |   |   |   |   |   |   |   |    | Detection<br>Rate (%) |
|-----------------------------|--------------------------|---|---|---|---|---|---|---|---|----|-----------------------|
|                             | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                       |
| 5491                        | N                        | Y | Y | Y | Y | Y | N | Y | Y | Y  | 80.0                  |
| 5492                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5493 (FL)                   | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5494                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5495                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5496                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5497                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5498                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5499                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5500                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5501                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5502                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5503                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5504                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5505                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5506                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5507 (FH)                   | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5508                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5509                        | Y                        | Y | Y | Y | N | Y | Y | Y | N | Y  | 80.0                  |

| Detection Bandwidth Test IEEE 802.11N 40MHz                           |                          |   |   |   |   |   |   |   |   |    |                    |
|-----------------------------------------------------------------------|--------------------------|---|---|---|---|---|---|---|---|----|--------------------|
| EUT Frequency: 5510MHz                                                |                          |   |   |   |   |   |   |   |   |    |                    |
| EUT 99% Power bandwidth: 36.3MHz                                      |                          |   |   |   |   |   |   |   |   |    |                    |
| Detection bandwidth limit (80% of EUT 99% Power bandwidth): 29.04 MHz |                          |   |   |   |   |   |   |   |   |    |                    |
| Test Result : PASS                                                    |                          |   |   |   |   |   |   |   |   |    |                    |
| Radar Frequency (MHz)                                                 | Trial Number / Detection |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|                                                                       | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5491                                                                  | Y                        | Y | Y | Y | N | Y | Y | Y | N | Y  | 80                 |
| 5492                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5493                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5494                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5495 (FL)                                                             | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5496                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5497                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5498                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5499                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5500                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5501                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5502                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5503                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5504                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5505                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5506                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5507                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5508                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5509                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5510                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5511                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5512                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5513                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5514                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5515                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5516                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5517                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5518                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5519                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5520                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5521                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5522                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5523                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5524                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5525 (FH)                                                             | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5526                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5527                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5528                                                                  | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                |
| 5529                                                                  | Y                        | Y | Y | Y | Y | Y | Y | N | Y | Y  | 90                 |

### **6.2.1.7 TRANSMIT POWER CONTROL (TPC)**

DFS Report 6.2.17 section

According to FCC 15.407(h)(1) the TPC mechanism is not required for system with an e.i.r.p. of less 500mW





A D T

## 7. TESTING LABORATORIES INFORMATION

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

|                    |                      |
|--------------------|----------------------|
| <b>USA</b>         | FCC, NVLAP           |
| <b>Germany</b>     | TUV Rheinland        |
| <b>Japan</b>       | VCCI                 |
| <b>Norway</b>      | NEMKO                |
| <b>Canada</b>      | INDUSTRY CANADA, CSA |
| <b>R.O.C.</b>      | TAF, BSMI, NCC       |
| <b>Netherlands</b> | Telefication         |
| <b>Singapore</b>   | GOST-ASIA(MOU)       |
| <b>Russia</b>      | CERTIS(MOU)          |

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[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab:**

Tel: 886-3-5935343

Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety Telecom Lab:**

Tel: 886-3-3183232

Fax: 886-3-3185050

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

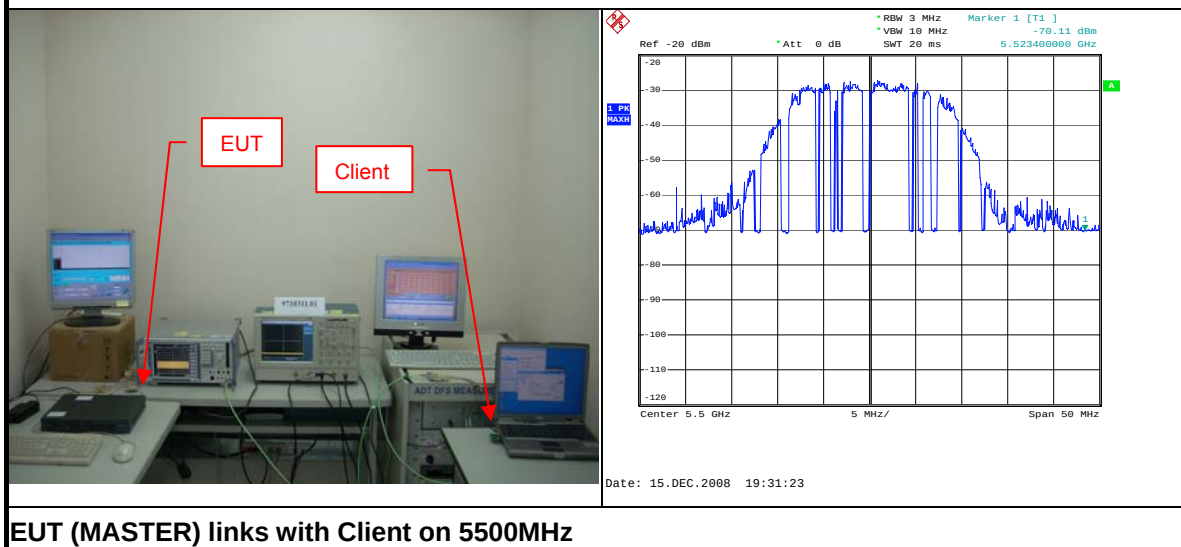
The address and road map of all our labs can be found in our web site also.

## 8. APPENDIX

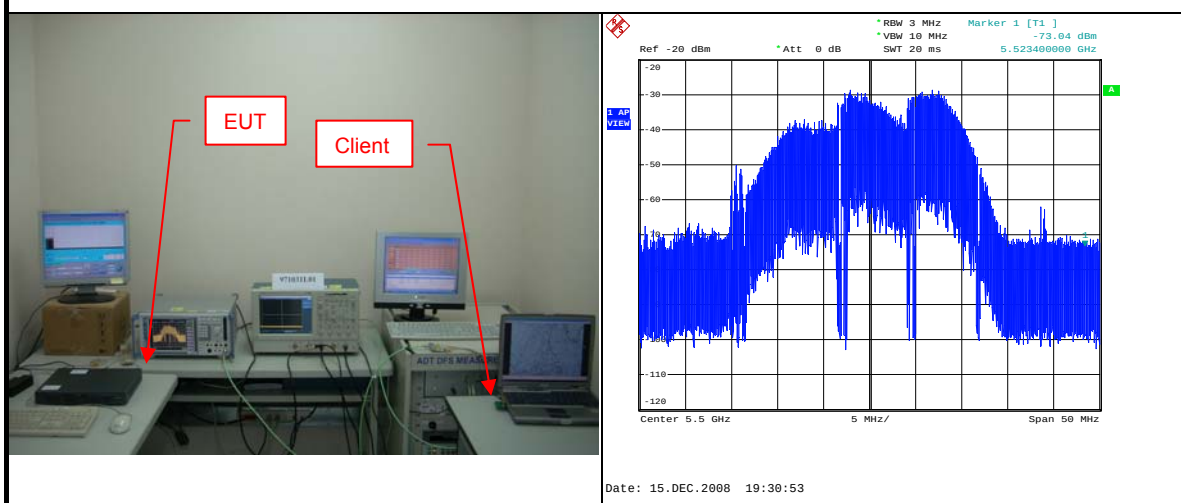
### 8.1 APPENDIX-A

#### Modifications or adding components during the test

1) Test results demonstrating Master links with Client on a test frequency.



2) The Master and DFS-certified Client device are associated, and the movie can be streamed as specified in the DFS Order.



## 8.2 APPENDIX-B

### RADAR TEST SIGNAL

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

IEEE 802.11n 20MHz.

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_01 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 1                | 9M         | 80.8u           | -                        | -                        | 722.1m             |
| 2                              | 3                | 13M        | 72.5u           | 1.236m                   | 1.680m                   | 816.0m             |
| 3                              | 3                | 15M        | 84.5u           | 1.152m                   | 1.874m                   | 287.5m             |
| 4                              | 1                | 16M        | 69.0u           | -                        | -                        | 935.9m             |
| 5                              | 2                | 6M         | 87.1u           | 1.357m                   | -                        | 567.9m             |
| 6                              | 1                | 13M        | 99.6u           | -                        | -                        | 40.82m             |
| 7                              | 3                | 8M         | 77.3u           | 1.590m                   | 1.199m                   | 186.6m             |
| 8                              | 2                | 17M        | 100.0u          | 1.002m                   | -                        | 151.3m             |
| 9                              | 2                | 10M        | 60.9u           | 1.008m                   | -                        | 720.7m             |
| 10                             | 3                | 17M        | 98.0u           | 1.033m                   | 1.506m                   | 23.80m             |
| 11                             | 2                | 13M        | 96.2u           | 993.8u                   | -                        | 148.1m             |
| 12                             | 1                | 13M        | 79.2u           | -                        | -                        | 314.1m             |

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_02 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 3                | 13M        | 54.8u           | 1.597m                   | 1.605m                   | 36.33m             |
| 2                              | 1                | 17M        | 69.0u           | -                        | -                        | 611.3m             |
| 3                              | 1                | 10M        | 81.1u           | -                        | -                        | 220.8m             |
| 4                              | 1                | 19M        | 86.7u           | -                        | -                        | 550.4m             |
| 5                              | 2                | 20M        | 99.6u           | 1.529m                   | -                        | 819.2m             |
| 6                              | 3                | 5M         | 53.7u           | 1.216m                   | 1.284m                   | 660.7m             |
| 7                              | 3                | 15M        | 68.3u           | 1.132m                   | 1.187m                   | 375.3m             |
| 8                              | 1                | 7M         | 87.7u           | -                        | -                        | 704.6m             |
| 9                              | 1                | 12M        | 67.8u           | -                        | -                        | 600.0m             |
| 10                             | 2                | 20M        | 86.0u           | 1.046m                   | -                        | 142.4m             |
| 11                             | 3                | 19M        | 79.9u           | 1.623m                   | 1.341m                   | 513.8m             |
| 12                             | 2                | 8M         | 86.2u           | 929.8u                   | -                        | 577.2m             |
| 13                             | 3                | 16M        | 73.3u           | 1.237m                   | 1.318m                   | 423.5m             |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 7M         | 90.2u           | 1.544m                   | -                        | 671.3m             |
| 2     | 2                | 14M        | 95.1u           | 1.867m                   | -                        | 165.0m             |
| 3     | 2                | 10M        | 99.4u           | 1.322m                   | -                        | 114.0m             |
| 4     | 3                | 9M         | 81.2u           | 977.8u                   | 1.575m                   | 354.9m             |
| 5     | 2                | 12M        | 87.4u           | 1.095m                   | -                        | 376.1m             |
| 6     | 2                | 9M         | 76.9u           | 1.346m                   | -                        | 607.9m             |
| 7     | 2                | 11M        | 84.5u           | 980.5u                   | -                        | 205.8m             |
| 8     | 1                | 16M        | 76.3u           | -                        | -                        | 288.5m             |
| 9     | 3                | 20M        | 97.4u           | 1.611m                   | 1.735m                   | 657.9m             |
| 10    | 2                | 15M        | 74.5u           | 1.584m                   | -                        | 258.0m             |
| 11    | 2                | 7M         | 76.5u           | 1.081m                   | -                        | 976.9m             |
| 12    | 3                | 17M        | 55.5u           | 1.275m                   | 1.793m                   | 613.0m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 6M         | 88.5u           | -                        | -                        | 502.3m             |
| 2     | 2                | 11M        | 54.8u           | 1.359m                   | -                        | 122.7m             |
| 3     | 2                | 14M        | 58.8u           | 1.298m                   | -                        | 183.7m             |
| 4     | 2                | 15M        | 94.8u           | 1.073m                   | -                        | 38.03m             |
| 5     | 3                | 5M         | 73.7u           | 1.697m                   | 1.874m                   | 397.7m             |
| 6     | 2                | 11M        | 95.3u           | 988.7u                   | -                        | 247.4m             |
| 7     | 2                | 10M        | 78.6u           | 1.072m                   | -                        | 359.9m             |
| 8     | 3                | 15M        | 66.6u           | 1.761m                   | 1.738m                   | 556.6m             |
| 9     | 2                | 13M        | 85.7u           | 1.347m                   | -                        | 579.1m             |
| 10    | 2                | 14M        | 77.6u           | 1.215m                   | -                        | 611.6m             |
| 11    | 2                | 17M        | 78.6u           | 1.513m                   | -                        | 142.8m             |
| 12    | 2                | 16M        | 67.3u           | 1.825m                   | -                        | 59.83m             |
| 13    | 1                | 13M        | 77.5u           | -                        | -                        | 253.4m             |
| 14    | 1                | 7M         | 95.7u           | -                        | -                        | 138.8m             |
| 15    | 2                | 10M        | 55.2u           | 1.895m                   | -                        | 157.8m             |
| 16    | 2                | 19M        | 71.5u           | 1.326m                   | -                        | 123.1m             |
| 17    | 2                | 8M         | 63.1u           | 1.262m                   | -                        | 492.1m             |
| 18    | 1                | 10M        | 65.3u           | -                        | -                        | 4.789m             |
| 19    | 2                | 11M        | 88.0u           | 1.366m                   | -                        | 175.6m             |



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# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chirp (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 13M        | 91.1u           | -                        | -                        | 571.5m             |
| 2     | 2                | 10M        | 75.1u           | 1.721m                   | -                        | 86.60m             |
| 3     | 1                | 14M        | 81.9u           | -                        | -                        | 177.5m             |
| 4     | 1                | 5M         | 87.3u           | -                        | -                        | 50.55m             |
| 5     | 2                | 20M        | 76.7u           | 955.3u                   | -                        | 6.301m             |
| 6     | 2                | 11M        | 92.5u           | 1.040m                   | -                        | 305.6m             |
| 7     | 3                | 9M         | 56.3u           | 1.857m                   | 1.547m                   | 5.834m             |
| 8     | 3                | 9M         | 62.3u           | 1.193m                   | 1.071m                   | 557.5m             |
| 9     | 2                | 18M        | 96.8u           | 1.258m                   | -                        | 193.4m             |
| 10    | 1                | 10M        | 58.0u           | -                        | -                        | 10.33m             |
| 11    | 1                | 17M        | 69.2u           | -                        | -                        | 300.9m             |
| 12    | 3                | 9M         | 67.4u           | 1.174m                   | 1.527m                   | 311.8m             |
| 13    | 2                | 15M        | 91.7u           | 1.292m                   | -                        | 133.5m             |
| 14    | 2                | 10M        | 82.6u           | 1.013m                   | -                        | 131.4m             |
| 15    | 3                | 10M        | 74.2u           | 1.613m                   | 1.132m                   | 425.8m             |
| 16    | 2                | 14M        | 99.7u           | 1.084m                   | -                        | 17.67m             |
| 17    | 3                | 17M        | 55.3u           | 1.735m                   | 1.472m                   | 617.5m             |
| 18    | 2                | 16M        | 96.6u           | 1.720m                   | -                        | 534.7m             |
| 19    | 3                | 5M         | 53.7u           | 1.847m                   | 1.763m                   | 98.87m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 13M        | 50.9u           | 1.685m                   | 1.070m                   | 546.2m             |
| 2     | 2                | 15M        | 84.2u           | 1.183m                   | -                        | 692.8m             |
| 3     | 2                | 11M        | 77.7u           | 1.849m                   | -                        | 357.0m             |
| 4     | 1                | 14M        | 80.5u           | -                        | -                        | 132.0m             |
| 5     | 3                | 7M         | 73.2u           | 1.843m                   | 1.650m                   | 111.8m             |
| 6     | 3                | 14M        | 60.9u           | 1.415m                   | 1.779m                   | 150.3m             |
| 7     | 3                | 10M        | 54.9u           | 955.1u                   | 1.575m                   | 618.5m             |
| 8     | 1                | 11M        | 98.7u           | -                        | -                        | 466.9m             |
| 9     | 2                | 11M        | 64.5u           | 1.223m                   | -                        | 128.3m             |
| 10    | 1                | 5M         | 92.0u           | -                        | -                        | 556.5m             |
| 11    | 2                | 15M        | 71.6u           | 1.923m                   | -                        | 250.1m             |
| 12    | 2                | 6M         | 90.8u           | 1.680m                   | -                        | 182.4m             |
| 13    | 2                | 9M         | 57.9u           | 1.544m                   | -                        | 180.0u             |
| 14    | 2                | 7M         | 96.5u           | 1.731m                   | -                        | 524.8m             |
| 15    | 1                | 12M        | 50.5u           | -                        | -                        | 206.2m             |
| 16    | 2                | 5M         | 89.8u           | 1.228m                   | -                        | 646.2m             |
| 17    | 2                | 9M         | 87.5u           | 1.209m                   | -                        | 53.19m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 14M        | 69.0u           | -                        | -                        | 804.2m             |
| 2     | 1                | 7M         | 91.9u           | -                        | -                        | 1.130              |
| 3     | 3                | 11M        | 64.9u           | 1.514m                   | 1.122m                   | 382.3m             |
| 4     | 3                | 14M        | 74.9u           | 961.1u                   | 1.413m                   | 417.1m             |
| 5     | 2                | 18M        | 65.5u           | 1.557m                   | -                        | 469.5m             |
| 6     | 3                | 16M        | 71.2u           | 1.166m                   | 1.036m                   | 869.2m             |
| 7     | 2                | 12M        | 79.5u           | 1.638m                   | -                        | 308.2m             |
| 8     | 2                | 8M         | 70.0u           | 994.0u                   | -                        | 555.4m             |
| 9     | 2                | 17M        | 66.5u           | 1.258m                   | -                        | 403.0m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 15M        | 99.0u           | 919.0u                   | -                        | 463.0m             |
| 2     | 2                | 20M        | 68.7u           | 1.783m                   | -                        | 483.8m             |
| 3     | 2                | 12M        | 60.4u           | 1.636m                   | -                        | 471.3m             |
| 4     | 3                | 15M        | 76.2u           | 1.436m                   | 1.378m                   | 590.1m             |
| 5     | 3                | 10M        | 52.5u           | 1.829m                   | 1.424m                   | 330.7m             |
| 6     | 2                | 11M        | 71.4u           | 1.505m                   | -                        | 693.2m             |
| 7     | 2                | 17M        | 85.7u           | 1.568m                   | -                        | 569.6m             |
| 8     | 2                | 19M        | 73.4u           | 1.275m                   | -                        | 594.3m             |
| 9     | 2                | 15M        | 65.8u           | 1.429m                   | -                        | 496.5m             |
| 10    | 2                | 5M         | 76.0u           | 1.628m                   | -                        | 718.6m             |
| 11    | 1                | 9M         | 96.4u           | -                        | -                        | 321.3m             |
| 12    | 2                | 15M        | 76.8u           | 1.054m                   | -                        | 512.7m             |
| 13    | 2                | 11M        | 60.0u           | 1.053m                   | -                        | 664.8m             |
| 14    | 2                | 9M         | 98.6u           | 1.675m                   | -                        | 73.46m             |
| 15    | 2                | 16M        | 77.1u           | 1.319m                   | -                        | 745.0m             |
| 16    | 3                | 16M        | 63.1u           | 1.146m                   | 1.646m                   | 84.83m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 9M         | 98.9u           | 937.1u                   | -                        | 104.9m             |
| 2     | 3                | 5M         | 90.7u           | 1.417m                   | 1.099m                   | 393.3m             |
| 3     | 2                | 10M        | 95.7u           | 1.457m                   | -                        | 454.9m             |
| 4     | 1                | 9M         | 63.3u           | -                        | -                        | 165.9m             |
| 5     | 2                | 6M         | 76.8u           | 1.335m                   | -                        | 411.9m             |
| 6     | 3                | 17M        | 65.9u           | 1.914m                   | 1.485m                   | 272.3m             |
| 7     | 1                | 16M        | 61.7u           | -                        | -                        | 378.0m             |
| 8     | 2                | 14M        | 78.7u           | 1.865m                   | -                        | 429.7m             |
| 9     | 2                | 15M        | 50.8u           | 1.835m                   | -                        | 297.5m             |
| 10    | 2                | 15M        | 52.0u           | 1.226m                   | -                        | 551.1m             |
| 11    | 2                | 19M        | 92.3u           | 1.396m                   | -                        | 123.9m             |
| 12    | 1                | 19M        | 80.5u           | -                        | -                        | 561.3m             |
| 13    | 3                | 7M         | 56.8u           | 1.735m                   | 950.2u                   | 363.8m             |
| 14    | 2                | 7M         | 87.8u           | 1.893m                   | -                        | 540.0m             |
| 15    | 2                | 15M        | 78.2u           | 1.736m                   | -                        | 211.1m             |
| 16    | 3                | 16M        | 79.9u           | 1.648m                   | 1.427m                   | 320.2m             |
| 17    | 2                | 20M        | 60.1u           | 1.645m                   | -                        | 336.2m             |
| 18    | 1                | 19M        | 94.9u           | -                        | -                        | 427.9m             |
| 19    | 2                | 17M        | 87.5u           | 1.414m                   | -                        | 625.5m             |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 7M         | 67.9u           | 1.688m                   | -                        | 291.2m             |
| 2     | 3                | 18M        | 93.0u           | 1.870m                   | 1.343m                   | 370.9m             |
| 3     | 3                | 6M         | 76.9u           | 1.000m                   | 1.452m                   | 323.6m             |
| 4     | 2                | 19M        | 69.2u           | 1.320m                   | -                        | 397.6m             |
| 5     | 2                | 17M        | 88.4u           | 1.383m                   | -                        | 70.17m             |
| 6     | 2                | 17M        | 75.1u           | 1.795m                   | -                        | 88.33m             |
| 7     | 1                | 13M        | 86.2u           | -                        | -                        | 456.2m             |
| 8     | 2                | 7M         | 57.1u           | 1.864m                   | -                        | 432.3m             |
| 9     | 2                | 17M        | 73.5u           | 966.5u                   | -                        | 141.9m             |
| 10    | 2                | 17M        | 52.6u           | 1.469m                   | -                        | 544.2m             |
| 11    | 2                | 9M         | 94.2u           | 1.082m                   | -                        | 197.7m             |
| 12    | 2                | 14M        | 89.9u           | 1.079m                   | -                        | 603.4m             |
| 13    | 1                | 8M         | 67.3u           | -                        | -                        | 588.0m             |
| 14    | 2                | 12M        | 94.7u           | 974.3u                   | -                        | 109.2m             |
| 15    | 2                | 7M         | 87.2u           | 1.552m                   | -                        | 570.9m             |
| 16    | 1                | 11M        | 92.9u           | -                        | -                        | 327.1m             |
| 17    | 1                | 20M        | 83.7u           | -                        | -                        | 211.6m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 17M        | 98.2u           | -                        | -                        | 463.1m             |
| 2     | 3                | 16M        | 94.3u           | 1.454m                   | 1.733m                   | 551.0m             |
| 3     | 2                | 10M        | 57.4u           | 1.578m                   | -                        | 68.91m             |
| 4     | 3                | 15M        | 74.3u           | 1.870m                   | 1.523m                   | 432.1m             |
| 5     | 2                | 16M        | 79.0u           | 1.121m                   | -                        | 570.3m             |
| 6     | 2                | 18M        | 91.9u           | 1.362m                   | -                        | 515.6m             |
| 7     | 1                | 6M         | 58.0u           | -                        | -                        | 209.2m             |
| 8     | 3                | 16M        | 57.0u           | 1.533m                   | 1.306m                   | 133.4m             |
| 9     | 2                | 6M         | 53.4u           | 1.520m                   | -                        | 349.4m             |
| 10    | 3                | 8M         | 61.8u           | 1.778m                   | 1.790m                   | 78.88m             |
| 11    | 2                | 8M         | 85.8u           | 943.2u                   | -                        | 4.623m             |
| 12    | 1                | 10M        | 96.3u           | -                        | -                        | 203.2m             |
| 13    | 2                | 12M        | 94.2u           | 990.8u                   | -                        | 583.5m             |
| 14    | 2                | 9M         | 64.1u           | 1.101m                   | -                        | 521.3m             |
| 15    | 1                | 14M        | 91.6u           | -                        | -                        | 337.3m             |
| 16    | 3                | 19M        | 94.3u           | 1.811m                   | 1.866m                   | 488.5m             |
| 17    | 1                | 6M         | 82.1u           | -                        | -                        | 47.22m             |
| 18    | 1                | 11M        | 98.3u           | -                        | -                        | 451.1m             |
| 19    | 3                | 16M        | 62.8u           | 1.664m                   | 1.155m                   | 145.0m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 17M        | 57.7u           | 1.896m                   | 1.714m                   | 667.7m             |
| 2     | 2                | 17M        | 70.4u           | 1.495m                   | -                        | 260.1m             |
| 3     | 2                | 14M        | 98.6u           | 1.434m                   | -                        | 140.0m             |
| 4     | 2                | 5M         | 80.6u           | 1.277m                   | -                        | 459.1m             |
| 5     | 2                | 8M         | 94.2u           | 1.790m                   | -                        | 275.9m             |
| 6     | 2                | 8M         | 61.1u           | 1.255m                   | -                        | 631.8m             |
| 7     | 2                | 10M        | 70.1u           | 1.561m                   | -                        | 541.3m             |
| 8     | 1                | 9M         | 76.6u           | -                        | -                        | 197.8m             |
| 9     | 2                | 15M        | 72.3u           | 1.200m                   | -                        | 158.0m             |
| 10    | 1                | 8M         | 87.4u           | -                        | -                        | 357.0m             |
| 11    | 2                | 10M        | 61.9u           | 1.668m                   | -                        | 701.4m             |
| 12    | 2                | 14M        | 96.1u           | 1.116m                   | -                        | 610.8m             |
| 13    | 2                | 20M        | 64.0u           | 1.580m                   | -                        | 543.7m             |
| 14    | 2                | 9M         | 67.1u           | 1.207m                   | -                        | 355.6m             |
| 15    | 3                | 10M        | 84.2u           | 1.784m                   | 1.551m                   | 159.0m             |
| 16    | 2                | 16M        | 63.9u           | 1.189m                   | -                        | 644.8m             |



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## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 17M        | 93.7u           | 1.448m                   | 1.362m                   | 29.98m             |
| 2     | 2                | 9M         | 57.0u           | 1.355m                   | -                        | 71.74m             |
| 3     | 2                | 14M        | 79.2u           | 1.567m                   | -                        | 61.18m             |
| 4     | 2                | 9M         | 51.1u           | 1.743m                   | -                        | 241.2m             |
| 5     | 3                | 7M         | 81.3u           | 1.221m                   | 1.016m                   | 29.84m             |
| 6     | 3                | 19M        | 57.8u           | 1.008m                   | 1.749m                   | 298.9m             |
| 7     | 2                | 17M        | 77.0u           | 1.418m                   | -                        | 198.0m             |
| 8     | 2                | 18M        | 98.5u           | 1.351m                   | -                        | 224.9m             |
| 9     | 1                | 7M         | 85.6u           | -                        | -                        | 478.3m             |
| 10    | 1                | 13M        | 77.1u           | -                        | -                        | 561.0m             |
| 11    | 1                | 12M        | 84.6u           | -                        | -                        | 278.6m             |
| 12    | 1                | 8M         | 58.8u           | -                        | -                        | 534.7m             |
| 13    | 1                | 16M        | 52.6u           | -                        | -                        | 508.8m             |
| 14    | 3                | 5M         | 82.5u           | 967.5u                   | 1.915m                   | 249.1m             |
| 15    | 2                | 11M        | 51.4u           | 1.356m                   | -                        | 237.4m             |
| 16    | 2                | 18M        | 95.2u           | 1.847m                   | -                        | 260.7m             |
| 17    | 2                | 10M        | 98.5u           | 1.599m                   | -                        | 410.0m             |
| 18    | 2                | 6M         | 74.9u           | 1.705m                   | -                        | 7.121m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 19M        | 89.6u           | 1.109m                   | -                        | 262.2m             |
| 2     | 2                | 13M        | 58.1u           | 1.843m                   | -                        | 66.47m             |
| 3     | 1                | 6M         | 92.3u           | -                        | -                        | 361.0m             |
| 4     | 2                | 14M        | 80.2u           | 1.729m                   | -                        | 691.3m             |
| 5     | 2                | 17M        | 88.3u           | 1.507m                   | -                        | 592.6m             |
| 6     | 3                | 8M         | 55.6u           | 1.177m                   | 1.711m                   | 377.2m             |
| 7     | 2                | 17M        | 83.2u           | 1.846m                   | -                        | 677.6m             |
| 8     | 3                | 9M         | 75.6u           | 1.818m                   | 1.523m                   | 238.7m             |
| 9     | 3                | 13M        | 97.0u           | 1.814m                   | 1.710m                   | 417.2m             |
| 10    | 1                | 8M         | 67.1u           | -                        | -                        | 535.7m             |
| 11    | 2                | 12M        | 59.4u           | 1.481m                   | -                        | 444.5m             |
| 12    | 2                | 5M         | 94.8u           | 1.568m                   | -                        | 240.2m             |
| 13    | 2                | 13M        | 90.0u           | 1.869m                   | -                        | 301.3m             |
| 14    | 2                | 20M        | 81.6u           | 1.294m                   | -                        | 431.2m             |
| 15    | 3                | 10M        | 79.4u           | 1.160m                   | 1.688m                   | 412.1m             |
| 16    | 1                | 8M         | 94.4u           | -                        | -                        | 268.8m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 9M         | 60.2u           | 1.414m                   | -                        | 477.9m             |
| 2     | 1                | 17M        | 99.2u           | -                        | -                        | 171.8m             |
| 3     | 2                | 19M        | 89.5u           | 1.690m                   | -                        | 695.9m             |
| 4     | 1                | 10M        | 78.6u           | -                        | -                        | 666.2m             |
| 5     | 3                | 11M        | 95.3u           | 1.146m                   | 961.7u                   | 904.1m             |
| 6     | 1                | 11M        | 97.0u           | -                        | -                        | 528.3m             |
| 7     | 2                | 14M        | 81.0u           | 1.440m                   | -                        | 941.9m             |
| 8     | 3                | 8M         | 69.0u           | 1.159m                   | 1.040m                   | 520.4m             |
| 9     | 3                | 11M        | 87.4u           | 1.746m                   | 1.125m                   | 484.7m             |
| 10    | 2                | 19M        | 71.1u           | 1.410m                   | -                        | 897.7m             |
| 11    | 2                | 6M         | 56.7u           | 1.375m                   | -                        | 995.8m             |



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# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 12M        | 70.4u           | 1.830m                   | -                        | 565.8m             |
| 2     | 2                | 16M        | 77.4u           | 1.522m                   | -                        | 117.6m             |
| 3     | 2                | 8M         | 70.0u           | 1.472m                   | -                        | 26.44m             |
| 4     | 1                | 12M        | 98.8u           | -                        | -                        | 19.55m             |
| 5     | 1                | 17M        | 51.9u           | -                        | -                        | 121.6m             |
| 6     | 2                | 9M         | 64.6u           | 1.650m                   | -                        | 120.9m             |
| 7     | 2                | 7M         | 71.2u           | 1.555m                   | -                        | 387.7m             |
| 8     | 2                | 9M         | 80.1u           | 1.157m                   | -                        | 289.1m             |
| 9     | 2                | 9M         | 51.8u           | 1.126m                   | -                        | 17.18m             |
| 10    | 3                | 14M        | 73.4u           | 1.054m                   | 1.173m                   | 404.9m             |
| 11    | 3                | 20M        | 53.5u           | 1.589m                   | 1.050m                   | 345.8m             |
| 12    | 2                | 17M        | 78.3u           | 1.273m                   | -                        | 549.3m             |
| 13    | 2                | 14M        | 84.0u           | 1.902m                   | -                        | 561.4m             |
| 14    | 2                | 15M        | 89.5u           | 1.311m                   | -                        | 465.4m             |
| 15    | 3                | 6M         | 72.9u           | 1.449m                   | 1.220m                   | 312.3m             |
| 16    | 2                | 9M         | 99.0u           | 1.821m                   | -                        | 314.0m             |
| 17    | 3                | 5M         | 95.2u           | 1.815m                   | 1.730m                   | 319.9m             |
| 18    | 1                | 11M        | 76.9u           | -                        | -                        | 161.1m             |
| 19    | 2                | 18M        | 62.2u           | 1.333m                   | -                        | 83.61m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 16M        | 83.8u           | -                        | -                        | 104.0m             |
| 2     | 2                | 7M         | 50.0u           | 1.270m                   | -                        | 308.1m             |
| 3     | 3                | 10M        | 73.3u           | 1.066m                   | 1.627m                   | 636.1m             |
| 4     | 2                | 19M        | 66.1u           | 963.9u                   | -                        | 225.1m             |
| 5     | 1                | 8M         | 63.9u           | -                        | -                        | 526.6m             |
| 6     | 2                | 15M        | 53.6u           | 1.797m                   | -                        | 527.5m             |
| 7     | 2                | 17M        | 63.6u           | 1.577m                   | -                        | 537.8m             |
| 8     | 1                | 7M         | 70.4u           | -                        | -                        | 178.7m             |
| 9     | 2                | 7M         | 65.4u           | 1.732m                   | -                        | 596.0m             |
| 10    | 3                | 8M         | 55.0u           | 1.157m                   | 1.252m                   | 595.3m             |
| 11    | 2                | 6M         | 68.6u           | 1.676m                   | -                        | 278.7m             |
| 12    | 1                | 19M        | 87.4u           | -                        | -                        | 176.3m             |
| 13    | 2                | 18M        | 98.7u           | 1.043m                   | -                        | 47.63m             |
| 14    | 3                | 12M        | 96.6u           | 972.4u                   | 991.4u                   | 573.9m             |
| 15    | 3                | 8M         | 83.4u           | 923.6u                   | 1.433m                   | 253.6m             |
| 16    | 1                | 13M        | 83.5u           | -                        | -                        | 510.9m             |
| 17    | 2                | 15M        | 63.9u           | 942.1u                   | -                        | 557.7m             |
| 18    | 2                | 12M        | 65.1u           | 1.695m                   | -                        | 537.9m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 18M        | 72.2u           | 1.414m                   | -                        | 700.8m             |
| 2     | 2                | 13M        | 76.4u           | 1.661m                   | -                        | 23.36m             |
| 3     | 1                | 7M         | 72.9u           | -                        | -                        | 885.4m             |
| 4     | 1                | 9M         | 86.2u           | -                        | -                        | 1.313              |
| 5     | 1                | 5M         | 71.4u           | -                        | -                        | 1.317              |
| 6     | 1                | 13M        | 90.1u           | -                        | -                        | 267.0m             |
| 7     | 2                | 15M        | 58.5u           | 1.803m                   | -                        | 19.32m             |
| 8     | 1                | 17M        | 51.2u           | -                        | -                        | 891.8m             |
| 9     | 2                | 13M        | 58.1u           | 1.619m                   | -                        | 934.5m             |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 15M        | 89.5u           | 1.620m                   | -                        | 157.7m             |
| 2     | 2                | 6M         | 59.0u           | 1.856m                   | -                        | 234.8m             |
| 3     | 1                | 19M        | 77.5u           | -                        | -                        | 475.5m             |
| 4     | 3                | 12M        | 52.9u           | 1.740m                   | 957.1u                   | 598.8m             |
| 5     | 2                | 7M         | 77.8u           | 1.916m                   | -                        | 557.7m             |
| 6     | 1                | 5M         | 65.8u           | -                        | -                        | 643.2m             |
| 7     | 3                | 5M         | 83.4u           | 1.023m                   | 917.6u                   | 347.5m             |
| 8     | 2                | 6M         | 76.8u           | 1.603m                   | -                        | 274.7m             |
| 9     | 2                | 15M        | 90.1u           | 1.822m                   | -                        | 245.8m             |
| 10    | 1                | 14M        | 67.3u           | -                        | -                        | 49.01m             |
| 11    | 2                | 15M        | 95.5u           | 1.739m                   | -                        | 380.7m             |
| 12    | 3                | 19M        | 81.9u           | 972.1u                   | 1.364m                   | 94.71m             |
| 13    | 2                | 20M        | 82.9u           | 1.251m                   | -                        | 550.2m             |
| 14    | 1                | 12M        | 72.2u           | -                        | -                        | 518.9m             |
| 15    | 2                | 11M        | 57.7u           | 1.586m                   | -                        | 32.34m             |
| 16    | 3                | 13M        | 76.1u           | 932.9u                   | 1.187m                   | 38.25m             |
| 17    | 1                | 7M         | 91.7u           | -                        | -                        | 519.0m             |
| 18    | 2                | 16M        | 81.6u           | 1.878m                   | -                        | 529.0m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 18M        | 98.6u           | 1.125m                   | -                        | 483.9m             |
| 2     | 1                | 6M         | 88.7u           | -                        | -                        | 171.1m             |
| 3     | 3                | 10M        | 94.0u           | 984.0u                   | 931.0u                   | 664.8m             |
| 4     | 2                | 8M         | 95.4u           | 1.361m                   | -                        | 416.3m             |
| 5     | 3                | 5M         | 62.3u           | 1.065m                   | 1.825m                   | 309.7m             |
| 6     | 3                | 11M        | 54.5u           | 1.208m                   | 1.376m                   | 773.7m             |
| 7     | 3                | 14M        | 87.9u           | 1.878m                   | 1.429m                   | 424.7m             |
| 8     | 3                | 8M         | 69.7u           | 1.812m                   | 1.868m                   | 653.0m             |
| 9     | 2                | 17M        | 78.2u           | 1.447m                   | -                        | 946.4m             |
| 10    | 3                | 14M        | 85.4u           | 1.193m                   | 921.6u                   | 220.4m             |
| 11    | 3                | 19M        | 86.8u           | 1.577m                   | 1.212m                   | 33.50m             |
| 12    | 2                | 7M         | 93.8u           | 943.2u                   | -                        | 471.8m             |



# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 14M        | 60.7u           | 1.324m                   | 972.3u                   | 267.3m             |
| 2     | 2                | 20M        | 95.4u           | 1.603m                   | -                        | 627.8m             |
| 3     | 2                | 11M        | 90.9u           | 1.416m                   | -                        | 517.3m             |
| 4     | 1                | 10M        | 80.6u           | -                        | -                        | 388.8m             |
| 5     | 3                | 12M        | 83.0u           | 1.649m                   | 1.274m                   | 396.4m             |
| 6     | 2                | 7M         | 70.2u           | 1.088m                   | -                        | 130.4m             |
| 7     | 2                | 20M        | 91.3u           | 1.849m                   | -                        | 492.7m             |
| 8     | 2                | 14M        | 99.8u           | 1.688m                   | -                        | 271.9m             |
| 9     | 3                | 16M        | 99.1u           | 1.674m                   | 1.095m                   | 152.3m             |
| 10    | 3                | 9M         | 65.5u           | 1.564m                   | 1.322m                   | 652.6m             |
| 11    | 3                | 10M        | 67.7u           | 1.083m                   | 1.485m                   | 61.79m             |
| 12    | 2                | 17M        | 97.2u           | 1.573m                   | -                        | 273.8m             |
| 13    | 3                | 8M         | 54.2u           | 1.754m                   | 1.603m                   | 706.1m             |
| 14    | 2                | 17M        | 66.8u           | 1.408m                   | -                        | 785.1m             |
| 15    | 2                | 11M        | 89.8u           | 1.135m                   | -                        | 543.6m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 10M        | 63.6u           | 1.383m                   | -                        | 750.0m             |
| 2     | 3                | 14M        | 66.0u           | 1.551m                   | 1.603m                   | 365.1m             |
| 3     | 2                | 7M         | 98.7u           | 1.393m                   | -                        | 412.3m             |
| 4     | 3                | 13M        | 77.8u           | 1.382m                   | 1.548m                   | 911.7m             |
| 5     | 2                | 19M        | 98.2u           | 1.314m                   | -                        | 642.5m             |
| 6     | 2                | 7M         | 66.9u           | 1.144m                   | -                        | 1.133              |
| 7     | 3                | 10M        | 72.7u           | 948.3u                   | 1.229m                   | 992.5m             |
| 8     | 2                | 14M        | 88.4u           | 1.756m                   | -                        | 43.43m             |
| 9     | 2                | 16M        | 57.9u           | 1.420m                   | -                        | 1.058              |
| 10    | 1                | 19M        | 66.5u           | -                        | -                        | 256.8m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 19M        | 93.6u           | 1.148m                   | -                        | 457.9m             |
| 2     | 1                | 5M         | 89.5u           | -                        | -                        | 525.9m             |
| 3     | 2                | 7M         | 99.8u           | 984.2u                   | -                        | 57.61m             |
| 4     | 2                | 20M        | 93.3u           | 1.875m                   | -                        | 183.2m             |
| 5     | 2                | 17M        | 92.6u           | 1.325m                   | -                        | 416.5m             |
| 6     | 2                | 11M        | 67.7u           | 1.527m                   | -                        | 282.8m             |
| 7     | 3                | 17M        | 86.3u           | 1.411m                   | 1.302m                   | 142.9m             |
| 8     | 2                | 5M         | 85.6u           | 1.304m                   | -                        | 736.6m             |
| 9     | 2                | 10M        | 98.0u           | 1.263m                   | -                        | 601.9m             |
| 10    | 2                | 14M        | 94.6u           | 1.804m                   | -                        | 621.6m             |
| 11    | 2                | 15M        | 55.0u           | 1.806m                   | -                        | 87.40m             |
| 12    | 2                | 17M        | 85.8u           | 1.849m                   | -                        | 722.3m             |
| 13    | 2                | 12M        | 65.5u           | 1.855m                   | -                        | 766.4m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 7M         | 70.3u           | 1.246m                   | -                        | 876.2m             |
| 2     | 1                | 17M        | 63.4u           | -                        | -                        | 122.3m             |
| 3     | 3                | 11M        | 75.0u           | 1.104m                   | 1.137m                   | 752.0m             |
| 4     | 1                | 16M        | 93.1u           | -                        | -                        | 332.5m             |
| 5     | 2                | 8M         | 75.4u           | 1.580m                   | -                        | 703.8m             |
| 6     | 1                | 9M         | 60.1u           | -                        | -                        | 543.9m             |
| 7     | 2                | 16M        | 51.0u           | 1.524m                   | -                        | 787.1m             |
| 8     | 2                | 10M        | 78.9u           | 1.453m                   | -                        | 566.5m             |
| 9     | 2                | 19M        | 60.0u           | 1.497m                   | -                        | 875.7m             |
| 10    | 3                | 18M        | 50.1u           | 1.274m                   | 1.670m                   | 202.4m             |
| 11    | 2                | 13M        | 88.6u           | 1.362m                   | -                        | 233.1m             |
| 12    | 1                | 14M        | 70.9u           | -                        | -                        | 390.1m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 9M         | 72.7u           | 1.541m                   | -                        | 818.7m             |
| 2     | 3                | 13M        | 82.5u           | 968.5u                   | 1.816m                   | 768.9m             |
| 3     | 3                | 7M         | 86.1u           | 1.353m                   | 972.9u                   | 771.6m             |
| 4     | 2                | 17M        | 56.8u           | 1.621m                   | -                        | 1.056              |
| 5     | 3                | 12M        | 99.3u           | 1.589m                   | 1.488m                   | 1.254              |
| 6     | 3                | 6M         | 79.3u           | 1.196m                   | 1.325m                   | 1.126              |
| 7     | 3                | 6M         | 55.8u           | 1.366m                   | 969.2u                   | 502.5m             |
| 8     | 1                | 18M        | 74.5u           | -                        | -                        | 1.115              |
| 9     | 1                | 12M        | 70.3u           | -                        | -                        | 1.241              |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 19M        | 97.3u           | 1.816m                   | 1.257m                   | 11.87m             |
| 2     | 1                | 16M        | 98.8u           | -                        | -                        | 82.46m             |
| 3     | 3                | 10M        | 64.2u           | 1.203m                   | 1.884m                   | 538.5m             |
| 4     | 2                | 13M        | 89.2u           | 1.038m                   | -                        | 254.6m             |
| 5     | 1                | 12M        | 88.6u           | -                        | -                        | 391.6m             |
| 6     | 2                | 19M        | 96.5u           | 1.598m                   | -                        | 342.2m             |
| 7     | 3                | 17M        | 94.9u           | 1.727m                   | 976.1u                   | 373.8m             |
| 8     | 2                | 14M        | 63.7u           | 1.392m                   | -                        | 221.2m             |
| 9     | 3                | 13M        | 50.2u           | 1.365m                   | 1.033m                   | 407.7m             |
| 10    | 1                | 13M        | 52.6u           | -                        | -                        | 446.7m             |
| 11    | 2                | 16M        | 50.3u           | 1.868m                   | -                        | 98.08m             |
| 12    | 2                | 13M        | 63.7u           | 996.3u                   | -                        | 514.7m             |
| 13    | 3                | 19M        | 56.4u           | 1.925m                   | 1.681m                   | 358.3m             |
| 14    | 2                | 15M        | 85.2u           | 1.245m                   | -                        | 319.2m             |
| 15    | 1                | 19M        | 64.5u           | -                        | -                        | 298.2m             |
| 16    | 2                | 11M        | 50.9u           | 1.649m                   | -                        | 59.01m             |
| 17    | 2                | 18M        | 84.7u           | 1.229m                   | -                        | 22.42m             |
| 18    | 3                | 8M         | 84.0u           | 1.718m                   | 1.651m                   | 647.8m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 14M        | 64.4u           | -                        | -                        | 604.9m             |
| 2     | 3                | 9M         | 92.0u           | 1.655m                   | 1.412m                   | 35.73m             |
| 3     | 2                | 13M        | 71.2u           | 1.658m                   | -                        | 132.1m             |
| 4     | 3                | 20M        | 76.9u           | 1.672m                   | 1.057m                   | 86.24m             |
| 5     | 1                | 13M        | 73.8u           | -                        | -                        | 92.23m             |
| 6     | 3                | 13M        | 64.1u           | 1.120m                   | 958.9u                   | 15.46m             |
| 7     | 3                | 9M         | 57.0u           | 1.104m                   | 1.611m                   | 201.7m             |
| 8     | 3                | 11M        | 99.1u           | 1.306m                   | 1.023m                   | 619.2m             |
| 9     | 2                | 19M        | 54.3u           | 1.186m                   | -                        | 495.0m             |
| 10    | 2                | 7M         | 75.3u           | 1.182m                   | -                        | 363.6m             |
| 11    | 2                | 7M         | 53.7u           | 1.897m                   | -                        | 547.2m             |
| 12    | 2                | 12M        | 96.1u           | 1.300m                   | -                        | 80.09m             |
| 13    | 3                | 18M        | 91.8u           | 1.146m                   | 1.791m                   | 391.0m             |
| 14    | 2                | 14M        | 95.0u           | 1.735m                   | -                        | 491.9m             |
| 15    | 1                | 16M        | 64.9u           | -                        | -                        | 95.33m             |
| 16    | 3                | 17M        | 78.1u           | 1.761m                   | 1.532m                   | 243.0m             |
| 17    | 2                | 11M        | 67.4u           | 1.237m                   | -                        | 155.5m             |
| 18    | 2                | 16M        | 58.8u           | 1.126m                   | -                        | 363.7m             |
| 19    | 2                | 13M        | 66.2u           | 969.8u                   | -                        | 67.08m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 20M        | 89.4u           | 1.462m                   | -                        | 324.0m             |
| 2     | 1                | 14M        | 74.0u           | -                        | -                        | 330.4m             |
| 3     | 3                | 15M        | 89.4u           | 1.776m                   | 1.481m                   | 149.9m             |
| 4     | 1                | 10M        | 87.5u           | -                        | -                        | 664.9m             |
| 5     | 1                | 13M        | 73.3u           | -                        | -                        | 118.7m             |
| 6     | 2                | 6M         | 70.4u           | 1.511m                   | -                        | 128.5m             |
| 7     | 1                | 16M        | 90.5u           | -                        | -                        | 16.39m             |
| 8     | 3                | 8M         | 96.6u           | 1.406m                   | 1.482m                   | 145.2m             |
| 9     | 3                | 19M        | 92.1u           | 1.817m                   | 1.676m                   | 540.4m             |
| 10    | 2                | 19M        | 87.3u           | 1.467m                   | -                        | 3.099m             |
| 11    | 1                | 18M        | 85.0u           | -                        | -                        | 569.4m             |
| 12    | 1                | 11M        | 97.1u           | -                        | -                        | 299.2m             |
| 13    | 2                | 19M        | 55.3u           | 1.351m                   | -                        | 396.6m             |
| 14    | 3                | 7M         | 96.0u           | 1.136m                   | 1.872m                   | 319.6m             |
| 15    | 2                | 15M        | 69.2u           | 1.596m                   | -                        | 174.6m             |
| 16    | 1                | 7M         | 82.5u           | -                        | -                        | 168.8m             |
| 17    | 2                | 16M        | 61.8u           | 944.2u                   | -                        | 132.0m             |
| 18    | 1                | 8M         | 83.5u           | -                        | -                        | 396.4m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 8M         | 75.1u           | -                        | -                        | 542.6m             |
| 2     | 1                | 17M        | 59.6u           | -                        | -                        | 392.9m             |
| 3     | 2                | 10M        | 65.7u           | 1.700m                   | -                        | 677.0m             |
| 4     | 2                | 5M         | 74.1u           | 1.903m                   | -                        | 9.981m             |
| 5     | 2                | 10M        | 65.7u           | 1.497m                   | -                        | 98.55m             |
| 6     | 3                | 13M        | 50.2u           | 1.558m                   | 1.758m                   | 696.7m             |
| 7     | 3                | 9M         | 64.5u           | 1.322m                   | 1.847m                   | 402.3m             |
| 8     | 1                | 15M        | 61.3u           | -                        | -                        | 647.0m             |
| 9     | 2                | 9M         | 94.3u           | 1.357m                   | -                        | 379.5m             |
| 10    | 3                | 13M        | 95.3u           | 1.556m                   | 975.7u                   | 117.7m             |
| 11    | 2                | 15M        | 89.5u           | 1.836m                   | -                        | 387.2m             |
| 12    | 1                | 14M        | 58.9u           | -                        | -                        | 545.0m             |
| 13    | 3                | 11M        | 62.9u           | 998.1u                   | 1.010m                   | 309.4m             |
| 14    | 3                | 11M        | 56.3u           | 1.306m                   | 997.7u                   | 326.7m             |
| 15    | 2                | 20M        | 77.7u           | 1.471m                   | -                        | 633.4m             |
| 16    | 2                | 10M        | 64.2u           | 1.913m                   | -                        | 614.1m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 12M        | 76.8u           | 1.464m                   | 1.113m                   | 330.0m             |
| 2     | 2                | 9M         | 51.0u           | 1.726m                   | -                        | 346.5m             |
| 3     | 3                | 13M        | 80.6u           | 1.109m                   | 1.515m                   | 197.6m             |
| 4     | 3                | 8M         | 83.4u           | 1.550m                   | 1.215m                   | 34.09m             |
| 5     | 2                | 7M         | 54.2u           | 1.744m                   | -                        | 742.1m             |
| 6     | 2                | 16M        | 53.3u           | 1.612m                   | -                        | 499.4m             |
| 7     | 1                | 14M        | 92.9u           | -                        | -                        | 620.9m             |
| 8     | 2                | 14M        | 65.9u           | 1.917m                   | -                        | 699.4m             |
| 9     | 2                | 18M        | 50.8u           | 1.793m                   | -                        | 640.5m             |
| 10    | 2                | 13M        | 97.9u           | 1.246m                   | -                        | 468.1m             |
| 11    | 1                | 19M        | 59.2u           | -                        | -                        | 703.0m             |
| 12    | 3                | 14M        | 74.8u           | 1.666m                   | 1.111m                   | 396.2m             |
| 13    | 3                | 9M         | 62.4u           | 1.728m                   | 1.491m                   | 611.4m             |
| 14    | 1                | 7M         | 87.3u           | -                        | -                        | 180.3m             |
| 15    | 1                | 11M        | 91.1u           | -                        | -                        | 497.5m             |
| 16    | 1                | 12M        | 71.9u           | -                        | -                        | 298.9m             |

IEEE 802.11n 40MHz.

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_01 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9   |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 2                | 15M        | 86.3u           | 1.532m                   | -                        | 552.5m             |
| 2                              | 2                | 19M        | 67.0u           | 997.0u                   | -                        | 844.8m             |
| 3                              | 3                | 7M         | 94.1u           | 1.071m                   | 1.761m                   | 660.1m             |
| 4                              | 3                | 20M        | 56.1u           | 1.471m                   | 1.175m                   | 116.6m             |
| 5                              | 1                | 18M        | 72.2u           | -                        | -                        | 460.4m             |
| 6                              | 1                | 20M        | 78.6u           | -                        | -                        | 928.6m             |
| 7                              | 3                | 15M        | 77.3u           | 1.833m                   | 1.307m                   | 1.225              |
| 8                              | 2                | 10M        | 59.9u           | 1.665m                   | -                        | 727.6m             |
| 9                              | 3                | 10M        | 82.3u           | 1.481m                   | 1.409m                   | 726.7m             |

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_02 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 1                | 14M        | 56.0u           | -                        | -                        | 460.6m             |
| 2                              | 1                | 8M         | 53.2u           | -                        | -                        | 439.0m             |
| 3                              | 3                | 19M        | 63.5u           | 978.5u                   | 1.213m                   | 126.4m             |
| 4                              | 1                | 18M        | 83.0u           | -                        | -                        | 120.6m             |
| 5                              | 2                | 5M         | 84.8u           | 1.742m                   | -                        | 271.2m             |
| 6                              | 3                | 20M        | 82.7u           | 1.336m                   | 1.653m                   | 773.3m             |
| 7                              | 2                | 6M         | 73.1u           | 1.284m                   | -                        | 214.0m             |
| 8                              | 2                | 11M        | 67.8u           | 1.120m                   | -                        | 581.3m             |
| 9                              | 1                | 10M        | 98.5u           | -                        | -                        | 770.7m             |
| 10                             | 1                | 6M         | 65.7u           | -                        | -                        | 86.62m             |
| 11                             | 3                | 13M        | 90.4u           | 1.646m                   | 1.160m                   | 781.4m             |
| 12                             | 1                | 6M         | 72.7u           | -                        | -                        | 649.5m             |
| 13                             | 3                | 5M         | 77.9u           | 1.857m                   | 1.169m                   | 698.2m             |
| 14                             | 2                | 11M        | 99.9u           | 1.631m                   | -                        | 221.9m             |
| 15                             | 2                | 16M        | 66.7u           | 1.058m                   | -                        | 190.1m             |



| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_03 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 2                | 12M        | 53.0u           | 1.320m                   | -                        | 515.1m             |
| 2                              | 2                | 17M        | 87.1u           | 1.617m                   | -                        | 133.8m             |
| 3                              | 1                | 8M         | 81.7u           | -                        | -                        | 13.78m             |
| 4                              | 2                | 7M         | 65.2u           | 1.743m                   | -                        | 534.1m             |
| 5                              | 2                | 16M        | 69.3u           | 1.611m                   | -                        | 427.6m             |
| 6                              | 1                | 14M        | 87.2u           | -                        | -                        | 781.8m             |
| 7                              | 1                | 10M        | 95.4u           | -                        | -                        | 18.65m             |
| 8                              | 1                | 6M         | 51.6u           | -                        | -                        | 582.6m             |
| 9                              | 3                | 6M         | 89.0u           | 979.0u                   | 1.289m                   | 658.8m             |
| 10                             | 2                | 7M         | 65.6u           | 1.740m                   | -                        | 443.3m             |
| 11                             | 2                | 11M        | 75.5u           | 978.5u                   | -                        | 346.8m             |
| 12                             | 2                | 9M         | 95.8u           | 1.048m                   | -                        | 744.6m             |
| 13                             | 2                | 12M        | 67.9u           | 1.489m                   | -                        | 565.8m             |

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_04 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 3                | 17M        | 78.1u           | 1.127m                   | 1.707m                   | 638.9m             |
| 2                              | 3                | 8M         | 66.6u           | 1.089m                   | 1.546m                   | 606.9m             |
| 3                              | 1                | 13M        | 64.9u           | -                        | -                        | 459.2m             |
| 4                              | 2                | 6M         | 81.6u           | 1.727m                   | -                        | 14.01m             |
| 5                              | 2                | 13M        | 56.1u           | 1.651m                   | -                        | 913.2m             |
| 6                              | 3                | 13M        | 82.3u           | 921.7u                   | 1.578m                   | 506.2m             |
| 7                              | 1                | 9M         | 60.4u           | -                        | -                        | 771.1m             |
| 8                              | 3                | 10M        | 89.7u           | 1.129m                   | 1.757m                   | 157.5m             |
| 9                              | 2                | 8M         | 72.0u           | 1.771m                   | -                        | 888.6m             |
| 10                             | 3                | 10M        | 52.6u           | 1.030m                   | 1.289m                   | 22.89m             |
| 11                             | 2                | 15M        | 95.2u           | 1.225m                   | -                        | 197.0m             |
| 12                             | 2                | 11M        | 86.1u           | 1.245m                   | -                        | 61.17m             |
| 13                             | 2                | 8M         | 93.0u           | 1.075m                   | -                        | 590.5m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 10M        | 86.9u           | 1.549m                   | -                        | 569.2m             |
| 2     | 2                | 10M        | 74.0u           | 1.115m                   | -                        | 406.6m             |
| 3     | 3                | 16M        | 71.2u           | 1.362m                   | 1.629m                   | 833.7m             |
| 4     | 3                | 10M        | 99.8u           | 1.043m                   | 1.880m                   | 586.6m             |
| 5     | 2                | 17M        | 59.9u           | 1.578m                   | -                        | 780.3m             |
| 6     | 3                | 11M        | 68.8u           | 1.893m                   | 1.888m                   | 620.0m             |
| 7     | 3                | 9M         | 57.3u           | 1.441m                   | 1.587m                   | 184.9m             |
| 8     | 2                | 19M        | 66.4u           | 1.593m                   | -                        | 137.0m             |
| 9     | 1                | 10M        | 74.7u           | -                        | -                        | 704.1m             |
| 10    | 2                | 10M        | 68.9u           | 1.641m                   | -                        | 762.8m             |
| 11    | 2                | 13M        | 78.2u           | 1.545m                   | -                        | 390.1m             |
| 12    | 1                | 13M        | 57.6u           | -                        | -                        | 46.52m             |
| 13    | 2                | 12M        | 83.8u           | 1.526m                   | -                        | 23.18m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_06

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 11M        | 97.1u           | -                        | -                        | 916.5m             |
| 2     | 2                | 12M        | 92.0u           | 1.895m                   | -                        | 372.9m             |
| 3     | 2                | 7M         | 97.4u           | 1.777m                   | -                        | 857.5m             |
| 4     | 1                | 14M        | 54.1u           | -                        | -                        | 181.5m             |
| 5     | 1                | 13M        | 62.8u           | -                        | -                        | 668.1m             |
| 6     | 1                | 12M        | 92.6u           | -                        | -                        | 795.3m             |
| 7     | 2                | 11M        | 97.4u           | 1.431m                   | -                        | 508.4m             |
| 8     | 2                | 13M        | 52.1u           | 1.007m                   | -                        | 50.08m             |
| 9     | 2                | 16M        | 63.0u           | 1.870m                   | -                        | 829.0m             |
| 10    | 3                | 14M        | 62.4u           | 1.563m                   | 1.287m                   | 818.5m             |
| 11    | 2                | 19M        | 91.8u           | 1.119m                   | -                        | 285.3m             |



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# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_07

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 17M        | 71.0u           | 935.0u                   | -                        | 122.9m             |
| 2     | 1                | 20M        | 84.8u           | -                        | -                        | 4.611m             |
| 3     | 1                | 10M        | 87.1u           | -                        | -                        | 389.9m             |
| 4     | 2                | 12M        | 57.4u           | 1.501m                   | -                        | 529.4m             |
| 5     | 3                | 12M        | 55.6u           | 1.894m                   | 1.683m                   | 630.2m             |
| 6     | 1                | 8M         | 78.1u           | -                        | -                        | 365.8m             |
| 7     | 3                | 12M        | 61.5u           | 1.094m                   | 1.821m                   | 48.15m             |
| 8     | 2                | 19M        | 81.7u           | 1.912m                   | -                        | 581.8m             |
| 9     | 3                | 11M        | 89.7u           | 1.378m                   | 1.253m                   | 421.1m             |
| 10    | 2                | 16M        | 94.3u           | 1.457m                   | -                        | 26.49m             |
| 11    | 2                | 7M         | 59.5u           | 1.106m                   | -                        | 198.1m             |
| 12    | 2                | 6M         | 64.6u           | 1.612m                   | -                        | 645.2m             |
| 13    | 2                | 11M        | 98.2u           | 1.679m                   | -                        | 423.7m             |
| 14    | 1                | 6M         | 83.4u           | -                        | -                        | 115.4m             |
| 15    | 1                | 10M        | 81.2u           | -                        | -                        | 123.2m             |
| 16    | 1                | 20M        | 51.2u           | -                        | -                        | 401.0m             |
| 17    | 2                | 11M        | 55.5u           | 1.032m                   | -                        | 395.8m             |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_08

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 9M         | 83.1u           | 1.745m                   | 1.533m                   | 323.0m             |
| 2     | 1                | 11M        | 51.5u           | -                        | -                        | 11.25m             |
| 3     | 2                | 11M        | 98.7u           | 1.659m                   | -                        | 525.5m             |
| 4     | 1                | 15M        | 97.3u           | -                        | -                        | 591.9m             |
| 5     | 1                | 17M        | 81.8u           | -                        | -                        | 135.3m             |
| 6     | 1                | 15M        | 76.5u           | -                        | -                        | 155.3m             |
| 7     | 2                | 18M        | 98.8u           | 921.2u                   | -                        | 436.4m             |
| 8     | 3                | 7M         | 66.0u           | 1.488m                   | 1.324m                   | 526.0m             |
| 9     | 2                | 5M         | 79.2u           | 1.448m                   | -                        | 505.5m             |
| 10    | 2                | 11M        | 82.4u           | 1.563m                   | -                        | 72.25m             |
| 11    | 2                | 8M         | 64.2u           | 982.8u                   | -                        | 626.5m             |
| 12    | 3                | 12M        | 88.6u           | 1.413m                   | 1.128m                   | 224.5m             |
| 13    | 2                | 16M        | 91.0u           | 1.722m                   | -                        | 519.7m             |
| 14    | 2                | 14M        | 51.9u           | 1.231m                   | -                        | 213.1m             |
| 15    | 2                | 19M        | 83.4u           | 1.802m                   | -                        | 269.6m             |
| 16    | 2                | 10M        | 61.6u           | 1.871m                   | -                        | 190.5m             |
| 17    | 1                | 12M        | 61.0u           | -                        | -                        | 486.3m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_09

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 8M         | 91.2u           | -                        | -                        | 357.4m             |
| 2     | 2                | 11M        | 99.2u           | 982.8u                   | -                        | 866.2m             |
| 3     | 2                | 15M        | 80.8u           | 1.497m                   | -                        | 799.5m             |
| 4     | 3                | 9M         | 75.5u           | 1.768m                   | 1.786m                   | 770.2m             |
| 5     | 1                | 14M        | 88.7u           | -                        | -                        | 501.4m             |
| 6     | 2                | 13M        | 69.6u           | 1.227m                   | -                        | 817.4m             |
| 7     | 1                | 13M        | 72.8u           | -                        | -                        | 173.7m             |
| 8     | 1                | 10M        | 71.9u           | -                        | -                        | 241.7m             |
| 9     | 1                | 12M        | 71.0u           | -                        | -                        | 430.5m             |
| 10    | 2                | 6M         | 93.5u           | 1.074m                   | -                        | 480.6m             |
| 11    | 3                | 7M         | 96.5u           | 1.712m                   | 1.775m                   | 198.1m             |
| 12    | 2                | 14M        | 79.0u           | 1.596m                   | -                        | 73.93m             |
| 13    | 2                | 20M        | 77.1u           | 1.301m                   | -                        | 81.63m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 13M        | 89.7u           | 1.596m                   | -                        | 243.3m             |
| 2     | 2                | 15M        | 73.3u           | 1.245m                   | -                        | 843.5m             |
| 3     | 2                | 14M        | 60.1u           | 1.292m                   | -                        | 1.110              |
| 4     | 1                | 12M        | 75.9u           | -                        | -                        | 1.382              |
| 5     | 2                | 16M        | 66.7u           | 1.487m                   | -                        | 241.8m             |
| 6     | 2                | 12M        | 51.3u           | 952.7u                   | -                        | 788.5m             |
| 7     | 2                | 15M        | 60.6u           | 1.087m                   | -                        | 884.8m             |
| 8     | 2                | 20M        | 65.0u           | 1.500m                   | -                        | 67.08m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 19M        | 86.0u           | 1.565m                   | -                        | 781.7m             |
| 2     | 3                | 8M         | 58.7u           | 1.386m                   | 1.839m                   | 954.8m             |
| 3     | 2                | 10M        | 74.4u           | 1.567m                   | -                        | 1.057              |
| 4     | 3                | 19M        | 79.8u           | 1.762m                   | 1.225m                   | 1.494              |
| 5     | 3                | 15M        | 53.6u           | 1.564m                   | 1.229m                   | 195.0m             |
| 6     | 2                | 17M        | 83.8u           | 1.200m                   | -                        | 537.6m             |
| 7     | 2                | 6M         | 96.0u           | 1.683m                   | -                        | 726.7m             |
| 8     | 2                | 8M         | 80.7u           | 1.856m                   | -                        | 1.055              |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_12

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 11M        | 77.8u           | 1.537m                   | -                        | 506.9m             |
| 2     | 1                | 13M        | 63.0u           | -                        | -                        | 543.6m             |
| 3     | 3                | 9M         | 64.5u           | 1.224m                   | 1.515m                   | 684.3m             |
| 4     | 2                | 16M        | 81.1u           | 1.805m                   | -                        | 343.1m             |
| 5     | 1                | 18M        | 57.3u           | -                        | -                        | 382.5m             |
| 6     | 1                | 12M        | 60.4u           | -                        | -                        | 708.7m             |
| 7     | 2                | 7M         | 78.9u           | 1.048m                   | -                        | 576.8m             |
| 8     | 3                | 18M        | 72.7u           | 1.548m                   | 1.483m                   | 182.3m             |
| 9     | 1                | 15M        | 59.0u           | -                        | -                        | 632.0m             |
| 10    | 1                | 9M         | 91.9u           | -                        | -                        | 652.5m             |
| 11    | 2                | 14M        | 53.8u           | 1.392m                   | -                        | 625.2m             |
| 12    | 2                | 6M         | 80.8u           | 1.595m                   | -                        | 617.9m             |
| 13    | 2                | 9M         | 65.0u           | 1.249m                   | -                        | 68.97m             |
| 14    | 2                | 12M        | 71.5u           | 1.786m                   | -                        | 740.7m             |
| 15    | 2                | 20M        | 89.6u           | 1.421m                   | -                        | 625.6m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_13

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 11M        | 95.4u           | -                        | -                        | 748.2m             |
| 2     | 1                | 14M        | 53.5u           | -                        | -                        | 109.3m             |
| 3     | 2                | 12M        | 99.6u           | 1.811m                   | -                        | 472.1m             |
| 4     | 2                | 6M         | 62.3u           | 1.860m                   | -                        | 256.1m             |
| 5     | 2                | 15M        | 72.6u           | 1.063m                   | -                        | 221.4m             |
| 6     | 2                | 6M         | 95.5u           | 1.118m                   | -                        | 358.2m             |
| 7     | 2                | 18M        | 64.1u           | 1.193m                   | -                        | 121.0m             |
| 8     | 2                | 6M         | 71.3u           | 952.7u                   | -                        | 581.1m             |
| 9     | 1                | 9M         | 98.8u           | -                        | -                        | 465.8m             |
| 10    | 1                | 15M        | 62.7u           | -                        | -                        | 726.5m             |
| 11    | 3                | 17M        | 70.2u           | 1.607m                   | 1.324m                   | 602.7m             |
| 12    | 2                | 6M         | 57.6u           | 1.250m                   | -                        | 77.04m             |
| 13    | 1                | 11M        | 63.5u           | -                        | -                        | 2.332m             |
| 14    | 2                | 11M        | 80.0u           | 1.056m                   | -                        | 315.7m             |
| 15    | 2                | 17M        | 68.1u           | 1.112m                   | -                        | 727.1m             |

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_14 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 11  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 1                | 16M        | 68.9u           | -                        | -                        | 638.1m             |
| 2                              | 1                | 8M         | 92.4u           | -                        | -                        | 158.4m             |
| 3                              | 2                | 10M        | 56.7u           | 1.252m                   | -                        | 113.2m             |
| 4                              | 2                | 14M        | 57.2u           | 1.443m                   | -                        | 304.7m             |
| 5                              | 1                | 6M         | 96.9u           | -                        | -                        | 248.8m             |
| 6                              | 2                | 16M        | 58.2u           | 957.8u                   | -                        | 154.8m             |
| 7                              | 1                | 19M        | 85.5u           | -                        | -                        | 376.6m             |
| 8                              | 2                | 15M        | 98.5u           | 1.223m                   | -                        | 362.0m             |
| 9                              | 2                | 18M        | 99.5u           | 1.259m                   | -                        | 51.30m             |
| 10                             | 2                | 7M         | 82.5u           | 1.338m                   | -                        | 99.08m             |
| 11                             | 1                | 14M        | 64.2u           | -                        | -                        | 1.043              |

| Long Pulse Radar Test Signal   |                  |            |                 |                          |                          |                    |
|--------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_15 |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19  |                  |            |                 |                          |                          |                    |
| Burst                          | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1                              | 2                | 5M         | 59.7u           | 1.566m                   | -                        | 110.8m             |
| 2                              | 3                | 19M        | 91.9u           | 1.851m                   | 1.614m                   | 150.6m             |
| 3                              | 1                | 15M        | 50.3u           | -                        | -                        | 496.7m             |
| 4                              | 2                | 17M        | 80.3u           | 1.203m                   | -                        | 26.58m             |
| 5                              | 1                | 14M        | 81.1u           | -                        | -                        | 341.0m             |
| 6                              | 2                | 12M        | 71.0u           | 1.682m                   | -                        | 99.46m             |
| 7                              | 1                | 11M        | 77.4u           | -                        | -                        | 424.5m             |
| 8                              | 2                | 15M        | 80.8u           | 1.362m                   | -                        | 583.3m             |
| 9                              | 3                | 9M         | 96.9u           | 1.737m                   | 923.1u                   | 95.92m             |
| 10                             | 3                | 12M        | 75.4u           | 986.6u                   | 1.774m                   | 424.1m             |
| 11                             | 1                | 11M        | 88.0u           | -                        | -                        | 93.36m             |
| 12                             | 2                | 17M        | 95.9u           | 1.144m                   | -                        | 536.1m             |
| 13                             | 2                | 16M        | 90.5u           | 1.520m                   | -                        | 340.2m             |
| 14                             | 2                | 12M        | 63.2u           | 1.057m                   | -                        | 187.1m             |
| 15                             | 2                | 9M         | 92.1u           | 1.500m                   | -                        | 455.0m             |
| 16                             | 3                | 14M        | 68.8u           | 1.918m                   | 1.758m                   | 451.6m             |
| 17                             | 1                | 19M        | 91.6u           | -                        | -                        | 284.7m             |
| 18                             | 3                | 12M        | 96.5u           | 1.043m                   | 1.365m                   | 300.0m             |
| 19                             | 1                | 5M         | 80.9u           | -                        | -                        | 216.1m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 11M        | 67.0u           | 1.235m                   | -                        | 165.8m             |
| 2     | 2                | 19M        | 97.6u           | 1.693m                   | -                        | 565.9m             |
| 3     | 2                | 9M         | 77.9u           | 1.099m                   | -                        | 168.0m             |
| 4     | 2                | 8M         | 85.8u           | 1.704m                   | -                        | 661.2m             |
| 5     | 2                | 15M        | 81.3u           | 1.634m                   | -                        | 418.7m             |
| 6     | 1                | 12M        | 53.4u           | -                        | -                        | 76.74m             |
| 7     | 3                | 10M        | 87.8u           | 1.101m                   | 1.426m                   | 427.6m             |
| 8     | 1                | 13M        | 87.7u           | -                        | -                        | 770.6m             |
| 9     | 1                | 8M         | 88.1u           | -                        | -                        | 67.35m             |
| 10    | 2                | 9M         | 95.9u           | 1.765m                   | -                        | 194.9m             |
| 11    | 2                | 12M        | 96.0u           | 1.894m                   | -                        | 387.8m             |
| 12    | 3                | 7M         | 52.0u           | 948.0u                   | 1.305m                   | 774.5m             |
| 13    | 2                | 5M         | 56.0u           | 1.705m                   | -                        | 16.27m             |
| 14    | 1                | 18M        | 67.5u           | -                        | -                        | 477.2m             |
| 15    | 3                | 6M         | 64.4u           | 945.6u                   | 1.911m                   | 493.4m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 10M        | 52.0u           | 1.385m                   | 1.736m                   | 682.7m             |
| 2     | 1                | 18M        | 79.3u           | -                        | -                        | 105.5m             |
| 3     | 3                | 6M         | 82.8u           | 1.423m                   | 1.213m                   | 611.0m             |
| 4     | 2                | 18M        | 59.6u           | 1.672m                   | -                        | 896.8m             |
| 5     | 3                | 6M         | 55.4u           | 1.312m                   | 1.663m                   | 123.7m             |
| 6     | 1                | 12M        | 81.7u           | -                        | -                        | 165.9m             |
| 7     | 1                | 6M         | 89.1u           | -                        | -                        | 784.1m             |
| 8     | 2                | 20M        | 99.1u           | 1.573m                   | -                        | 290.8m             |
| 9     | 2                | 13M        | 99.2u           | 1.207m                   | -                        | 461.7m             |
| 10    | 3                | 9M         | 76.6u           | 1.490m                   | 1.253m                   | 296.9m             |
| 11    | 1                | 17M        | 95.1u           | -                        | -                        | 982.5m             |





## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 8M         | 51.6u           | 1.832m                   | -                        | 406.0m             |
| 2     | 2                | 11M        | 75.9u           | 1.124m                   | -                        | 853.4m             |
| 3     | 2                | 7M         | 90.1u           | 1.453m                   | -                        | 256.7m             |
| 4     | 3                | 6M         | 74.1u           | 1.480m                   | 1.482m                   | 150.1m             |
| 5     | 1                | 13M        | 87.2u           | -                        | -                        | 180.8m             |
| 6     | 3                | 12M        | 89.8u           | 1.549m                   | 1.184m                   | 457.0m             |
| 7     | 1                | 19M        | 57.1u           | -                        | -                        | 615.7m             |
| 8     | 2                | 10M        | 73.1u           | 1.689m                   | -                        | 742.1m             |
| 9     | 3                | 13M        | 79.7u           | 1.590m                   | 1.879m                   | 166.8m             |
| 10    | 2                | 18M        | 52.0u           | 1.021m                   | -                        | 68.46m             |
| 11    | 1                | 16M        | 52.4u           | -                        | -                        | 717.7m             |
| 12    | 3                | 8M         | 72.2u           | 1.473m                   | 1.295m                   | 209.7m             |
| 13    | 2                | 12M        | 96.7u           | 947.3u                   | -                        | 550.5m             |
| 14    | 2                | 12M        | 77.9u           | 1.060m                   | -                        | 190.3m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 12M        | 77.7u           | -                        | -                        | 324.5m             |
| 2     | 1                | 8M         | 65.8u           | -                        | -                        | 754.7m             |
| 3     | 1                | 15M        | 78.0u           | -                        | -                        | 36.59m             |
| 4     | 1                | 6M         | 76.6u           | -                        | -                        | 374.6m             |
| 5     | 2                | 13M        | 79.1u           | 1.017m                   | -                        | 349.7m             |
| 6     | 2                | 5M         | 79.8u           | 1.141m                   | -                        | 388.9m             |
| 7     | 2                | 12M        | 90.7u           | 1.423m                   | -                        | 592.6m             |
| 8     | 2                | 13M        | 67.3u           | 1.705m                   | -                        | 261.7m             |
| 9     | 2                | 11M        | 95.3u           | 1.316m                   | -                        | 423.9m             |
| 10    | 3                | 7M         | 91.9u           | 1.536m                   | 1.725m                   | 187.7m             |
| 11    | 2                | 7M         | 69.4u           | 1.890m                   | -                        | 79.64m             |
| 12    | 2                | 9M         | 57.4u           | 1.822m                   | -                        | 618.4m             |
| 13    | 2                | 11M        | 79.4u           | 969.6u                   | -                        | 416.0m             |
| 14    | 3                | 17M        | 70.1u           | 1.567m                   | 1.293m                   | 248.1m             |
| 15    | 2                | 9M         | 56.4u           | 1.898m                   | -                        | 792.0m             |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_20

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 12M        | 64.6u           | -                        | -                        | 616.3m             |
| 2     | 2                | 8M         | 77.2u           | 1.665m                   | -                        | 474.9m             |
| 3     | 3                | 18M        | 91.9u           | 1.059m                   | 918.1u                   | 31.92m             |
| 4     | 2                | 10M        | 77.3u           | 1.776m                   | -                        | 757.5m             |
| 5     | 2                | 12M        | 61.7u           | 1.151m                   | -                        | 607.1m             |
| 6     | 3                | 5M         | 68.5u           | 1.337m                   | 936.5u                   | 525.4m             |
| 7     | 2                | 18M        | 51.4u           | 1.692m                   | -                        | 192.2m             |
| 8     | 1                | 13M        | 57.9u           | -                        | -                        | 178.5m             |
| 9     | 2                | 10M        | 91.7u           | 1.769m                   | -                        | 329.4m             |
| 10    | 2                | 13M        | 77.0u           | 1.342m                   | -                        | 150.9m             |
| 11    | 2                | 17M        | 70.6u           | 1.193m                   | -                        | 41.33m             |
| 12    | 1                | 12M        | 51.2u           | -                        | -                        | 788.6m             |
| 13    | 3                | 12M        | 51.8u           | 1.484m                   | 1.379m                   | 362.4m             |
| 14    | 1                | 16M        | 65.5u           | -                        | -                        | 409.1m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_21

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 13M        | 81.6u           | 1.406m                   | -                        | 685.5m             |
| 2     | 2                | 5M         | 65.1u           | 1.077m                   | -                        | 743.6m             |
| 3     | 1                | 8M         | 64.2u           | -                        | -                        | 444.6m             |
| 4     | 3                | 12M        | 58.4u           | 1.761m                   | 1.502m                   | 436.5m             |
| 5     | 2                | 9M         | 99.4u           | 1.319m                   | -                        | 192.7m             |
| 6     | 3                | 20M        | 62.1u           | 1.705m                   | 1.044m                   | 403.9m             |
| 7     | 2                | 9M         | 78.4u           | 1.860m                   | -                        | 712.4m             |
| 8     | 3                | 14M        | 70.1u           | 1.480m                   | 1.087m                   | 601.4m             |
| 9     | 2                | 13M        | 56.7u           | 1.238m                   | -                        | 587.3m             |
| 10    | 2                | 16M        | 56.0u           | 1.656m                   | -                        | 688.2m             |
| 11    | 3                | 11M        | 55.2u           | 1.614m                   | 1.161m                   | 283.4m             |
| 12    | 2                | 7M         | 98.9u           | 1.052m                   | -                        | 409.6m             |
| 13    | 3                | 18M        | 77.6u           | 1.491m                   | 1.800m                   | 27.66m             |
| 14    | 2                | 9M         | 71.4u           | 1.797m                   | -                        | 273.6m             |
| 15    | 2                | 11M        | 57.6u           | 1.770m                   | -                        | 133.2m             |
| 16    | 2                | 13M        | 60.5u           | 1.579m                   | -                        | 256.3m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_22

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 6M         | 74.4u           | 1.797m                   | -                        | 1.261              |
| 2     | 2                | 6M         | 96.0u           | 1.830m                   | -                        | 188.9m             |
| 3     | 2                | 7M         | 69.7u           | 1.489m                   | -                        | 225.3m             |
| 4     | 3                | 16M        | 66.0u           | 1.808m                   | 1.714m                   | 78.60m             |
| 5     | 1                | 10M        | 57.0u           | -                        | -                        | 164.6m             |
| 6     | 3                | 12M        | 57.8u           | 1.928m                   | 1.444m                   | 1.130              |
| 7     | 2                | 14M        | 58.7u           | 1.846m                   | -                        | 994.9m             |
| 8     | 1                | 17M        | 53.2u           | -                        | -                        | 153.6m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_23

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 11M        | 68.2u           | 1.891m                   | 1.546m                   | 262.6m             |
| 2     | 2                | 6M         | 83.2u           | 1.286m                   | -                        | 700.0m             |
| 3     | 1                | 13M        | 85.0u           | -                        | -                        | 884.9m             |
| 4     | 2                | 16M        | 74.1u           | 1.064m                   | -                        | 263.1m             |
| 5     | 1                | 9M         | 72.7u           | -                        | -                        | 302.4m             |
| 6     | 2                | 7M         | 74.4u           | 1.533m                   | -                        | 123.1m             |
| 7     | 2                | 7M         | 98.2u           | 1.083m                   | -                        | 554.1m             |
| 8     | 1                | 6M         | 60.0u           | -                        | -                        | 152.7m             |
| 9     | 2                | 16M        | 92.6u           | 1.198m                   | -                        | 854.4m             |
| 10    | 2                | 9M         | 91.0u           | 1.345m                   | -                        | 571.4m             |
| 11    | 2                | 7M         | 74.9u           | 1.069m                   | -                        | 901.5m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 18M        | 91.2u           | -                        | -                        | 697.1m             |
| 2     | 1                | 8M         | 50.7u           | -                        | -                        | 513.0m             |
| 3     | 2                | 12M        | 50.8u           | 1.198m                   | -                        | 725.2m             |
| 4     | 2                | 18M        | 75.2u           | 1.722m                   | -                        | 176.3m             |
| 5     | 2                | 9M         | 79.0u           | 1.741m                   | -                        | 1.068              |
| 6     | 3                | 6M         | 86.9u           | 1.390m                   | 1.534m                   | 837.5m             |
| 7     | 2                | 12M        | 77.4u           | 1.744m                   | -                        | 580.0m             |
| 8     | 3                | 13M        | 60.3u           | 1.460m                   | 1.493m                   | 443.5m             |
| 9     | 2                | 16M        | 60.8u           | 1.539m                   | -                        | 515.8m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 17M        | 77.8u           | -                        | -                        | 451.4m             |
| 2     | 3                | 18M        | 83.0u           | 1.324m                   | 1.263m                   | 255.0m             |
| 3     | 1                | 7M         | 66.0u           | -                        | -                        | 450.9m             |
| 4     | 3                | 16M        | 74.4u           | 1.882m                   | 1.473m                   | 60.73m             |
| 5     | 2                | 8M         | 91.9u           | 922.1u                   | -                        | 63.37m             |
| 6     | 2                | 6M         | 85.4u           | 933.6u                   | -                        | 313.7m             |
| 7     | 2                | 10M        | 87.8u           | 1.520m                   | -                        | 118.8m             |
| 8     | 3                | 17M        | 75.4u           | 1.402m                   | 1.510m                   | 278.1m             |
| 9     | 1                | 10M        | 95.9u           | -                        | -                        | 523.6m             |
| 10    | 3                | 13M        | 87.1u           | 1.237m                   | 1.409m                   | 8.978m             |
| 11    | 3                | 17M        | 88.0u           | 1.315m                   | 1.635m                   | 599.5m             |
| 12    | 2                | 5M         | 80.5u           | 1.071m                   | -                        | 89.72m             |
| 13    | 3                | 5M         | 79.3u           | 1.621m                   | 1.741m                   | 430.5m             |
| 14    | 3                | 16M        | 83.9u           | 1.638m                   | 1.751m                   | 651.8m             |
| 15    | 2                | 8M         | 61.9u           | 1.398m                   | -                        | 253.4m             |
| 16    | 1                | 6M         | 50.6u           | -                        | -                        | 622.7m             |
| 17    | 2                | 6M         | 80.6u           | 1.039m                   | -                        | 254.0m             |
| 18    | 3                | 10M        | 90.9u           | 1.642m                   | 1.800m                   | 442.6m             |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_26

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 10M        | 78.5u           | 1.257m                   | -                        | 457.8m             |
| 2     | 2                | 9M         | 92.2u           | 1.362m                   | -                        | 638.0m             |
| 3     | 1                | 12M        | 89.5u           | -                        | -                        | 637.1m             |
| 4     | 3                | 11M        | 78.2u           | 1.550m                   | 1.452m                   | 498.0m             |
| 5     | 1                | 10M        | 55.0u           | -                        | -                        | 484.2m             |
| 6     | 1                | 17M        | 83.7u           | -                        | -                        | 137.2m             |
| 7     | 2                | 12M        | 79.9u           | 938.1u                   | -                        | 400.0m             |
| 8     | 3                | 18M        | 90.2u           | 1.459m                   | 1.146m                   | 454.7m             |
| 9     | 1                | 9M         | 99.4u           | -                        | -                        | 197.0m             |
| 10    | 2                | 9M         | 80.6u           | 1.381m                   | -                        | 184.7m             |
| 11    | 2                | 20M        | 76.2u           | 1.308m                   | -                        | 650.0m             |
| 12    | 1                | 10M        | 98.6u           | -                        | -                        | 179.2m             |
| 13    | 3                | 6M         | 95.0u           | 1.442m                   | 1.112m                   | 576.2m             |
| 14    | 3                | 11M        | 60.9u           | 1.781m                   | 1.310m                   | 90.53m             |
| 15    | 1                | 16M        | 96.7u           | -                        | -                        | 577.7m             |
| 16    | 3                | 6M         | 58.9u           | 1.886m                   | 1.541m                   | 403.4m             |
| 17    | 2                | 11M        | 91.7u           | 1.430m                   | -                        | 78.19m             |
| 18    | 3                | 8M         | 71.5u           | 1.351m                   | 1.133m                   | 334.8m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_27

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 16M        | 93.0u           | -                        | -                        | 224.8m             |
| 2     | 2                | 15M        | 65.2u           | 1.894m                   | -                        | 569.2m             |
| 3     | 1                | 13M        | 72.1u           | -                        | -                        | 387.0m             |
| 4     | 3                | 17M        | 97.2u           | 1.130m                   | 1.462m                   | 1.602m             |
| 5     | 2                | 9M         | 94.2u           | 917.8u                   | -                        | 413.7m             |
| 6     | 3                | 9M         | 91.6u           | 1.325m                   | 1.581m                   | 774.4m             |
| 7     | 2                | 9M         | 58.3u           | 1.215m                   | -                        | 353.3m             |
| 8     | 2                | 8M         | 70.8u           | 1.619m                   | -                        | 422.2m             |
| 9     | 3                | 16M        | 87.4u           | 1.030m                   | 1.405m                   | 626.7m             |
| 10    | 1                | 20M        | 82.3u           | -                        | -                        | 551.7m             |
| 11    | 1                | 8M         | 97.0u           | -                        | -                        | 249.7m             |
| 12    | 2                | 12M        | 82.9u           | 1.242m                   | -                        | 569.6m             |
| 13    | 2                | 6M         | 99.4u           | 1.378m                   | -                        | 15.15m             |

# Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_28

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 7M         | 88.7u           | 913.3u                   | -                        | 356.7m             |
| 2     | 3                | 11M        | 52.3u           | 1.837m                   | 1.175m                   | 326.4m             |
| 3     | 3                | 12M        | 68.0u           | 1.893m                   | 1.424m                   | 520.8m             |
| 4     | 2                | 11M        | 70.9u           | 951.1u                   | -                        | 600.2m             |
| 5     | 1                | 17M        | 58.8u           | -                        | -                        | 190.3m             |
| 6     | 3                | 19M        | 67.3u           | 1.862m                   | 1.079m                   | 23.63m             |
| 7     | 2                | 20M        | 59.2u           | 1.765m                   | -                        | 675.2m             |
| 8     | 2                | 20M        | 86.5u           | 1.527m                   | -                        | 599.5m             |
| 9     | 2                | 17M        | 52.3u           | 1.278m                   | -                        | 344.6m             |
| 10    | 2                | 14M        | 67.1u           | 1.252m                   | -                        | 1.885m             |
| 11    | 2                | 18M        | 79.7u           | 1.886m                   | -                        | 437.1m             |
| 12    | 1                | 12M        | 69.8u           | -                        | -                        | 280.8m             |
| 13    | 2                | 6M         | 53.0u           | 1.412m                   | -                        | 371.5m             |
| 14    | 3                | 15M        | 94.7u           | 1.605m                   | 1.311m                   | 168.2m             |
| 15    | 2                | 18M        | 73.2u           | 1.628m                   | -                        | 477.1m             |



## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_29

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 9M         | 79.8u           | 1.323m                   | 1.112m                   | 630.7m             |
| 2     | 1                | 8M         | 72.3u           | -                        | -                        | 12.89m             |
| 3     | 2                | 8M         | 59.5u           | 1.664m                   | -                        | 436.2m             |
| 4     | 1                | 15M        | 50.3u           | -                        | -                        | 664.0m             |
| 5     | 2                | 14M        | 64.9u           | 1.423m                   | -                        | 485.5m             |
| 6     | 3                | 16M        | 56.0u           | 1.412m                   | 1.331m                   | 354.8m             |
| 7     | 3                | 7M         | 67.9u           | 1.286m                   | 1.884m                   | 112.8m             |
| 8     | 2                | 8M         | 94.3u           | 1.895m                   | -                        | 47.09m             |
| 9     | 3                | 18M        | 98.7u           | 1.667m                   | 1.465m                   | 572.4m             |
| 10    | 2                | 14M        | 81.4u           | 1.485m                   | -                        | 218.0m             |
| 11    | 2                | 12M        | 65.0u           | 1.086m                   | -                        | 102.1m             |
| 12    | 1                | 12M        | 58.6u           | -                        | -                        | 507.8m             |
| 13    | 2                | 18M        | 70.4u           | 1.777m                   | -                        | 588.6m             |
| 14    | 1                | 13M        | 80.9u           | -                        | -                        | 94.93m             |
| 15    | 3                | 14M        | 65.6u           | 1.843m                   | 1.665m                   | 490.8m             |
| 16    | 1                | 13M        | 79.4u           | -                        | -                        | 64.97m             |
| 17    | 2                | 11M        | 61.6u           | 1.545m                   | -                        | 370.6m             |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 13M        | 66.6u           | 1.513m                   | -                        | 421.3m             |
| 2     | 2                | 10M        | 60.0u           | 1.581m                   | -                        | 653.9m             |
| 3     | 1                | 6M         | 89.9u           | -                        | -                        | 634.7m             |
| 4     | 3                | 20M        | 84.2u           | 1.615m                   | 1.840m                   | 404.2m             |
| 5     | 3                | 15M        | 59.7u           | 1.019m                   | 1.247m                   | 787.8m             |
| 6     | 1                | 10M        | 73.8u           | -                        | -                        | 643.5m             |
| 7     | 1                | 6M         | 77.0u           | -                        | -                        | 564.8m             |
| 8     | 3                | 14M        | 68.9u           | 1.896m                   | 1.362m                   | 847.6m             |
| 9     | 2                | 16M        | 85.2u           | 1.004m                   | -                        | 553.4m             |
| 10    | 1                | 17M        | 82.1u           | -                        | -                        | 684.0m             |
| 11    | 1                | 13M        | 96.3u           | -                        | -                        | 769.1m             |
| 12    | 2                | 16M        | 71.6u           | 998.4u                   | -                        | 325.3m             |
| 13    | 3                | 6M         | 62.4u           | 1.306m                   | 944.6u                   | 141.3m             |
| 14    | 3                | 12M        | 96.5u           | 1.360m                   | 1.855m                   | 327.2m             |

## B.2 The Frequency Hopping Radar Pattern

IEEE 802.11n 20MHz.

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.490G         | 2    | 5.681G         | 3    | 5.258G         | 4    | 5.597G         |
| 5                                                | 5.391G         | 6    | 5.312G         | 7    | 5.515G         | 8    | 5.472G         |
| 9                                                | 5.476G         | 10   | 5.534G         | 11   | 5.535G         | 12   | 5.446G         |
| 13                                               | 5.558G         | 14   | 5.610G         | 15   | 5.404G         | 16   | 5.619G         |
| 17                                               | 5.621G         | 18   | 5.703G         | 19   | 5.480G         | 20   | 5.380G         |
| 21                                               | 5.350G         | 22   | 5.624G         | 23   | 5.289G         | 24   | 5.570G         |
| 25                                               | 5.670G         | 26   | 5.531G         | 27   | 5.698G         | 28   | 5.445G         |
| 29                                               | 5.334G         | 30   | 5.457G         | 31   | 5.645G         | 32   | 5.552G         |
| 33                                               | 5.528G         | 34   | 5.551G         | 35   | 5.724G         | 36   | 5.274G         |
| 37                                               | 5.628G         | 38   | 5.549G         | 39   | 5.310G         | 40   | 5.301G         |
| 41                                               | 5.407G         | 42   | 5.505G         | 43   | 5.427G         | 44   | 5.322G         |
| 45                                               | 5.414G         | 46   | 5.397G         | 47   | 5.594G         | 48   | 5.486G         |
| 49                                               | 5.718G         | 50   | 5.379G         | 51   | 5.496G         | 52   | 5.412G         |
| 53                                               | 5.372G         | 54   | 5.587G         | 55   | 5.277G         | 56   | 5.304G         |
| 57                                               | 5.556G         | 58   | 5.705G         | 59   | 5.263G         | 60   | 5.652G         |
| 61                                               | 5.386G         | 62   | 5.631G         | 63   | 5.666G         | 64   | 5.700G         |
| 65                                               | 5.622G         | 66   | 5.374G         | 67   | 5.384G         | 68   | 5.418G         |
| 69                                               | 5.712G         | 70   | 5.333G         | 71   | 5.422G         | 72   | 5.292G         |
| 73                                               | 5.346G         | 74   | 5.396G         | 75   | 5.533G         | 76   | 5.441G         |
| 77                                               | 5.368G         | 78   | 5.495G         | 79   | 5.723G         | 80   | 5.539G         |
| 81                                               | 5.429G         | 82   | 5.471G         | 83   | 5.636G         | 84   | 5.487G         |
| 85                                               | 5.506G         | 86   | 5.482G         | 87   | 5.714G         | 88   | 5.662G         |
| 89                                               | 5.616G         | 90   | 5.388G         | 91   | 5.601G         | 92   | 5.582G         |
| 93                                               | 5.680G         | 94   | 5.255G         | 95   | 5.348G         | 96   | 5.643G         |
| 97                                               | 5.627G         | 98   | 5.647G         | 99   | 5.272G         | 100  | 5.548G         |





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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.680G         | 2    | 5.472G         | 3    | 5.439G         | 4    | 5.576G         |
| 5    | 5.458G         | 6    | 5.302G         | 7    | 5.382G         | 8    | 5.544G         |
| 9    | 5.500G         | 10   | 5.269G         | 11   | 5.420G         | 12   | 5.490G         |
| 13   | 5.523G         | 14   | 5.418G         | 15   | 5.661G         | 16   | 5.250G         |
| 17   | 5.411G         | 18   | 5.581G         | 19   | 5.393G         | 20   | 5.541G         |
| 21   | 5.699G         | 22   | 5.331G         | 23   | 5.668G         | 24   | 5.319G         |
| 25   | 5.292G         | 26   | 5.705G         | 27   | 5.321G         | 28   | 5.409G         |
| 29   | 5.487G         | 30   | 5.286G         | 31   | 5.281G         | 32   | 5.483G         |
| 33   | 5.284G         | 34   | 5.641G         | 35   | 5.454G         | 36   | 5.633G         |
| 37   | 5.572G         | 38   | 5.274G         | 39   | 5.436G         | 40   | 5.407G         |
| 41   | 5.403G         | 42   | 5.405G         | 43   | 5.595G         | 44   | 5.658G         |
| 45   | 5.477G         | 46   | 5.482G         | 47   | 5.538G         | 48   | 5.533G         |
| 49   | 5.655G         | 50   | 5.579G         | 51   | 5.693G         | 52   | 5.348G         |
| 53   | 5.300G         | 54   | 5.442G         | 55   | 5.385G         | 56   | 5.270G         |
| 57   | 5.254G         | 58   | 5.440G         | 59   | 5.691G         | 60   | 5.417G         |
| 61   | 5.608G         | 62   | 5.390G         | 63   | 5.715G         | 64   | 5.686G         |
| 65   | 5.401G         | 66   | 5.607G         | 67   | 5.648G         | 68   | 5.336G         |
| 69   | 5.654G         | 70   | 5.355G         | 71   | 5.679G         | 72   | 5.653G         |
| 73   | 5.569G         | 74   | 5.709G         | 75   | 5.574G         | 76   | 5.547G         |
| 77   | 5.539G         | 78   | 5.618G         | 79   | 5.397G         | 80   | 5.666G         |
| 81   | 5.712G         | 82   | 5.620G         | 83   | 5.301G         | 84   | 5.687G         |
| 85   | 5.526G         | 86   | 5.367G         | 87   | 5.512G         | 88   | 5.606G         |
| 89   | 5.531G         | 90   | 5.722G         | 91   | 5.489G         | 92   | 5.451G         |
| 93   | 5.621G         | 94   | 5.540G         | 95   | 5.287G         | 96   | 5.259G         |
| 97   | 5.273G         | 98   | 5.479G         | 99   | 5.288G         | 100  | 5.660G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.589G         | 2    | 5.313G         | 3    | 5.673G         | 4    | 5.566G         |
| 5                                                | 5.656G         | 6    | 5.361G         | 7    | 5.394G         | 8    | 5.428G         |
| 9                                                | 5.437G         | 10   | 5.643G         | 11   | 5.418G         | 12   | 5.315G         |
| 13                                               | 5.514G         | 14   | 5.666G         | 15   | 5.661G         | 16   | 5.335G         |
| 17                                               | 5.331G         | 18   | 5.374G         | 19   | 5.722G         | 20   | 5.472G         |
| 21                                               | 5.349G         | 22   | 5.533G         | 23   | 5.468G         | 24   | 5.613G         |
| 25                                               | 5.630G         | 26   | 5.362G         | 27   | 5.434G         | 28   | 5.579G         |
| 29                                               | 5.618G         | 30   | 5.354G         | 31   | 5.551G         | 32   | 5.473G         |
| 33                                               | 5.677G         | 34   | 5.381G         | 35   | 5.414G         | 36   | 5.296G         |
| 37                                               | 5.254G         | 38   | 5.588G         | 39   | 5.495G         | 40   | 5.463G         |
| 41                                               | 5.286G         | 42   | 5.489G         | 43   | 5.607G         | 44   | 5.485G         |
| 45                                               | 5.451G         | 46   | 5.448G         | 47   | 5.341G         | 48   | 5.290G         |
| 49                                               | 5.536G         | 50   | 5.456G         | 51   | 5.462G         | 52   | 5.440G         |
| 53                                               | 5.648G         | 54   | 5.572G         | 55   | 5.284G         | 56   | 5.718G         |
| 57                                               | 5.701G         | 58   | 5.487G         | 59   | 5.594G         | 60   | 5.365G         |
| 61                                               | 5.546G         | 62   | 5.464G         | 63   | 5.723G         | 64   | 5.438G         |
| 65                                               | 5.706G         | 66   | 5.343G         | 67   | 5.568G         | 68   | 5.395G         |
| 69                                               | 5.619G         | 70   | 5.261G         | 71   | 5.564G         | 72   | 5.678G         |
| 73                                               | 5.604G         | 74   | 5.597G         | 75   | 5.689G         | 76   | 5.569G         |
| 77                                               | 5.378G         | 78   | 5.667G         | 79   | 5.443G         | 80   | 5.265G         |
| 81                                               | 5.704G         | 82   | 5.615G         | 83   | 5.642G         | 84   | 5.405G         |
| 85                                               | 5.540G         | 86   | 5.423G         | 87   | 5.390G         | 88   | 5.353G         |
| 89                                               | 5.608G         | 90   | 5.276G         | 91   | 5.368G         | 92   | 5.382G         |
| 93                                               | 5.250G         | 94   | 5.384G         | 95   | 5.376G         | 96   | 5.400G         |
| 97                                               | 5.302G         | 98   | 5.690G         | 99   | 5.530G         | 100  | 5.628G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.386G         | 2    | 5.627G         | 3    | 5.437G         | 4    | 5.651G         |
| 5                                                | 5.704G         | 6    | 5.611G         | 7    | 5.338G         | 8    | 5.301G         |
| 9                                                | 5.514G         | 10   | 5.339G         | 11   | 5.609G         | 12   | 5.499G         |
| 13                                               | 5.377G         | 14   | 5.468G         | 15   | 5.469G         | 16   | 5.535G         |
| 17                                               | 5.456G         | 18   | 5.632G         | 19   | 5.392G         | 20   | 5.684G         |
| 21                                               | 5.289G         | 22   | 5.542G         | 23   | 5.614G         | 24   | 5.581G         |
| 25                                               | 5.296G         | 26   | 5.400G         | 27   | 5.650G         | 28   | 5.583G         |
| 29                                               | 5.671G         | 30   | 5.281G         | 31   | 5.414G         | 32   | 5.409G         |
| 33                                               | 5.407G         | 34   | 5.335G         | 35   | 5.277G         | 36   | 5.394G         |
| 37                                               | 5.618G         | 38   | 5.530G         | 39   | 5.426G         | 40   | 5.653G         |
| 41                                               | 5.652G         | 42   | 5.292G         | 43   | 5.688G         | 44   | 5.345G         |
| 45                                               | 5.495G         | 46   | 5.675G         | 47   | 5.496G         | 48   | 5.352G         |
| 49                                               | 5.536G         | 50   | 5.396G         | 51   | 5.637G         | 52   | 5.270G         |
| 53                                               | 5.288G         | 54   | 5.389G         | 55   | 5.554G         | 56   | 5.340G         |
| 57                                               | 5.680G         | 58   | 5.586G         | 59   | 5.590G         | 60   | 5.312G         |
| 61                                               | 5.382G         | 62   | 5.477G         | 63   | 5.308G         | 64   | 5.350G         |
| 65                                               | 5.463G         | 66   | 5.597G         | 67   | 5.713G         | 68   | 5.479G         |
| 69                                               | 5.341G         | 70   | 5.549G         | 71   | 5.541G         | 72   | 5.373G         |
| 73                                               | 5.343G         | 74   | 5.600G         | 75   | 5.486G         | 76   | 5.552G         |
| 77                                               | 5.580G         | 78   | 5.576G         | 79   | 5.263G         | 80   | 5.638G         |
| 81                                               | 5.447G         | 82   | 5.619G         | 83   | 5.253G         | 84   | 5.520G         |
| 85                                               | 5.718G         | 86   | 5.571G         | 87   | 5.724G         | 88   | 5.374G         |
| 89                                               | 5.537G         | 90   | 5.723G         | 91   | 5.564G         | 92   | 5.293G         |
| 93                                               | 5.290G         | 94   | 5.380G         | 95   | 5.313G         | 96   | 5.331G         |
| 97                                               | 5.494G         | 98   | 5.443G         | 99   | 5.271G         | 100  | 5.265G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.699G         | 2    | 5.637G         | 3    | 5.253G         | 4    | 5.524G         |
| 5    | 5.419G         | 6    | 5.338G         | 7    | 5.552G         | 8    | 5.316G         |
| 9    | 5.454G         | 10   | 5.655G         | 11   | 5.674G         | 12   | 5.407G         |
| 13   | 5.282G         | 14   | 5.718G         | 15   | 5.523G         | 16   | 5.531G         |
| 17   | 5.392G         | 18   | 5.383G         | 19   | 5.339G         | 20   | 5.476G         |
| 21   | 5.597G         | 22   | 5.519G         | 23   | 5.425G         | 24   | 5.438G         |
| 25   | 5.455G         | 26   | 5.453G         | 27   | 5.503G         | 28   | 5.481G         |
| 29   | 5.265G         | 30   | 5.635G         | 31   | 5.291G         | 32   | 5.382G         |
| 33   | 5.611G         | 34   | 5.666G         | 35   | 5.477G         | 36   | 5.418G         |
| 37   | 5.498G         | 38   | 5.658G         | 39   | 5.619G         | 40   | 5.494G         |
| 41   | 5.669G         | 42   | 5.335G         | 43   | 5.568G         | 44   | 5.251G         |
| 45   | 5.528G         | 46   | 5.707G         | 47   | 5.264G         | 48   | 5.311G         |
| 49   | 5.271G         | 50   | 5.689G         | 51   | 5.608G         | 52   | 5.379G         |
| 53   | 5.411G         | 54   | 5.695G         | 55   | 5.648G         | 56   | 5.522G         |
| 57   | 5.470G         | 58   | 5.292G         | 59   | 5.480G         | 60   | 5.390G         |
| 61   | 5.588G         | 62   | 5.526G         | 63   | 5.474G         | 64   | 5.549G         |
| 65   | 5.624G         | 66   | 5.461G         | 67   | 5.421G         | 68   | 5.328G         |
| 69   | 5.537G         | 70   | 5.521G         | 71   | 5.330G         | 72   | 5.466G         |
| 73   | 5.701G         | 74   | 5.543G         | 75   | 5.560G         | 76   | 5.465G         |
| 77   | 5.649G         | 78   | 5.596G         | 79   | 5.452G         | 80   | 5.268G         |
| 81   | 5.678G         | 82   | 5.623G         | 83   | 5.646G         | 84   | 5.403G         |
| 85   | 5.436G         | 86   | 5.450G         | 87   | 5.256G         | 88   | 5.366G         |
| 89   | 5.252G         | 90   | 5.467G         | 91   | 5.605G         | 92   | 5.540G         |
| 93   | 5.345G         | 94   | 5.269G         | 95   | 5.533G         | 96   | 5.368G         |
| 97   | 5.428G         | 98   | 5.296G         | 99   | 5.487G         | 100  | 5.398G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.343G         | 2    | 5.419G         | 3    | 5.375G         | 4    | 5.568G         |
| 5                                                | 5.588G         | 6    | 5.468G         | 7    | 5.546G         | 8    | 5.498G         |
| 9                                                | 5.262G         | 10   | 5.648G         | 11   | 5.378G         | 12   | 5.267G         |
| 13                                               | 5.689G         | 14   | 5.462G         | 15   | 5.352G         | 16   | 5.558G         |
| 17                                               | 5.421G         | 18   | 5.719G         | 19   | 5.622G         | 20   | 5.345G         |
| 21                                               | 5.308G         | 22   | 5.330G         | 23   | 5.445G         | 24   | 5.399G         |
| 25                                               | 5.606G         | 26   | 5.722G         | 27   | 5.617G         | 28   | 5.363G         |
| 29                                               | 5.715G         | 30   | 5.624G         | 31   | 5.655G         | 32   | 5.429G         |
| 33                                               | 5.527G         | 34   | 5.702G         | 35   | 5.481G         | 36   | 5.347G         |
| 37                                               | 5.535G         | 38   | 5.708G         | 39   | 5.707G         | 40   | 5.332G         |
| 41                                               | 5.717G         | 42   | 5.658G         | 43   | 5.530G         | 44   | 5.299G         |
| 45                                               | 5.346G         | 46   | 5.436G         | 47   | 5.426G         | 48   | 5.521G         |
| 49                                               | 5.412G         | 50   | 5.714G         | 51   | 5.512G         | 52   | 5.647G         |
| 53                                               | 5.621G         | 54   | 5.315G         | 55   | 5.435G         | 56   | 5.302G         |
| 57                                               | 5.540G         | 58   | 5.613G         | 59   | 5.666G         | 60   | 5.615G         |
| 61                                               | 5.389G         | 62   | 5.696G         | 63   | 5.705G         | 64   | 5.324G         |
| 65                                               | 5.549G         | 66   | 5.313G         | 67   | 5.326G         | 68   | 5.495G         |
| 69                                               | 5.384G         | 70   | 5.652G         | 71   | 5.599G         | 72   | 5.483G         |
| 73                                               | 5.361G         | 74   | 5.425G         | 75   | 5.459G         | 76   | 5.430G         |
| 77                                               | 5.295G         | 78   | 5.642G         | 79   | 5.494G         | 80   | 5.470G         |
| 81                                               | 5.697G         | 82   | 5.489G         | 83   | 5.474G         | 84   | 5.395G         |
| 85                                               | 5.607G         | 86   | 5.283G         | 87   | 5.407G         | 88   | 5.554G         |
| 89                                               | 5.259G         | 90   | 5.597G         | 91   | 5.706G         | 92   | 5.261G         |
| 93                                               | 5.277G         | 94   | 5.704G         | 95   | 5.387G         | 96   | 5.392G         |
| 97                                               | 5.296G         | 98   | 5.582G         | 99   | 5.342G         | 100  | 5.394G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.592G         | 2    | 5.259G         | 3    | 5.689G         | 4    | 5.364G         |
| 5                                                | 5.537G         | 6    | 5.266G         | 7    | 5.482G         | 8    | 5.359G         |
| 9                                                | 5.334G         | 10   | 5.663G         | 11   | 5.459G         | 12   | 5.571G         |
| 13                                               | 5.453G         | 14   | 5.612G         | 15   | 5.290G         | 16   | 5.614G         |
| 17                                               | 5.685G         | 18   | 5.724G         | 19   | 5.697G         | 20   | 5.446G         |
| 21                                               | 5.296G         | 22   | 5.400G         | 23   | 5.634G         | 24   | 5.565G         |
| 25                                               | 5.271G         | 26   | 5.464G         | 27   | 5.695G         | 28   | 5.616G         |
| 29                                               | 5.658G         | 30   | 5.698G         | 31   | 5.594G         | 32   | 5.530G         |
| 33                                               | 5.694G         | 34   | 5.342G         | 35   | 5.326G         | 36   | 5.588G         |
| 37                                               | 5.666G         | 38   | 5.498G         | 39   | 5.404G         | 40   | 5.720G         |
| 41                                               | 5.461G         | 42   | 5.561G         | 43   | 5.540G         | 44   | 5.322G         |
| 45                                               | 5.718G         | 46   | 5.451G         | 47   | 5.443G         | 48   | 5.639G         |
| 49                                               | 5.474G         | 50   | 5.369G         | 51   | 5.469G         | 52   | 5.519G         |
| 53                                               | 5.329G         | 54   | 5.721G         | 55   | 5.607G         | 56   | 5.490G         |
| 57                                               | 5.275G         | 58   | 5.710G         | 59   | 5.318G         | 60   | 5.514G         |
| 61                                               | 5.585G         | 62   | 5.568G         | 63   | 5.367G         | 64   | 5.308G         |
| 65                                               | 5.312G         | 66   | 5.621G         | 67   | 5.306G         | 68   | 5.477G         |
| 69                                               | 5.533G         | 70   | 5.311G         | 71   | 5.587G         | 72   | 5.573G         |
| 73                                               | 5.605G         | 74   | 5.319G         | 75   | 5.415G         | 76   | 5.673G         |
| 77                                               | 5.609G         | 78   | 5.560G         | 79   | 5.709G         | 80   | 5.452G         |
| 81                                               | 5.630G         | 82   | 5.512G         | 83   | 5.356G         | 84   | 5.480G         |
| 85                                               | 5.523G         | 86   | 5.440G         | 87   | 5.563G         | 88   | 5.591G         |
| 89                                               | 5.478G         | 90   | 5.660G         | 91   | 5.291G         | 92   | 5.669G         |
| 93                                               | 5.435G         | 94   | 5.401G         | 95   | 5.479G         | 96   | 5.631G         |
| 97                                               | 5.690G         | 98   | 5.716G         | 99   | 5.297G         | 100  | 5.708G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.473G         | 2    | 5.632G         | 3    | 5.520G         | 4    | 5.495G         |
| 5                                                | 5.345G         | 6    | 5.607G         | 7    | 5.698G         | 8    | 5.274G         |
| 9                                                | 5.481G         | 10   | 5.302G         | 11   | 5.713G         | 12   | 5.677G         |
| 13                                               | 5.440G         | 14   | 5.518G         | 15   | 5.359G         | 16   | 5.299G         |
| 17                                               | 5.382G         | 18   | 5.403G         | 19   | 5.344G         | 20   | 5.306G         |
| 21                                               | 5.546G         | 22   | 5.488G         | 23   | 5.724G         | 24   | 5.581G         |
| 25                                               | 5.705G         | 26   | 5.396G         | 27   | 5.321G         | 28   | 5.369G         |
| 29                                               | 5.716G         | 30   | 5.267G         | 31   | 5.483G         | 32   | 5.603G         |
| 33                                               | 5.482G         | 34   | 5.330G         | 35   | 5.400G         | 36   | 5.525G         |
| 37                                               | 5.530G         | 38   | 5.428G         | 39   | 5.309G         | 40   | 5.634G         |
| 41                                               | 5.723G         | 42   | 5.696G         | 43   | 5.266G         | 44   | 5.689G         |
| 45                                               | 5.304G         | 46   | 5.399G         | 47   | 5.453G         | 48   | 5.334G         |
| 49                                               | 5.672G         | 50   | 5.545G         | 51   | 5.487G         | 52   | 5.364G         |
| 53                                               | 5.627G         | 54   | 5.577G         | 55   | 5.528G         | 56   | 5.386G         |
| 57                                               | 5.347G         | 58   | 5.648G         | 59   | 5.692G         | 60   | 5.379G         |
| 61                                               | 5.535G         | 62   | 5.704G         | 63   | 5.543G         | 64   | 5.276G         |
| 65                                               | 5.555G         | 66   | 5.602G         | 67   | 5.598G         | 68   | 5.283G         |
| 69                                               | 5.372G         | 70   | 5.467G         | 71   | 5.538G         | 72   | 5.457G         |
| 73                                               | 5.595G         | 74   | 5.548G         | 75   | 5.658G         | 76   | 5.478G         |
| 77                                               | 5.623G         | 78   | 5.406G         | 79   | 5.491G         | 80   | 5.275G         |
| 81                                               | 5.292G         | 82   | 5.516G         | 83   | 5.279G         | 84   | 5.514G         |
| 85                                               | 5.659G         | 86   | 5.445G         | 87   | 5.486G         | 88   | 5.262G         |
| 89                                               | 5.353G         | 90   | 5.556G         | 91   | 5.349G         | 92   | 5.571G         |
| 93                                               | 5.458G         | 94   | 5.315G         | 95   | 5.355G         | 96   | 5.500G         |
| 97                                               | 5.459G         | 98   | 5.426G         | 99   | 5.587G         | 100  | 5.635G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.495G         | 2    | 5.283G         | 3    | 5.282G         | 4    | 5.669G         |
| 5    | 5.612G         | 6    | 5.384G         | 7    | 5.638G         | 8    | 5.707G         |
| 9    | 5.383G         | 10   | 5.622G         | 11   | 5.322G         | 12   | 5.479G         |
| 13   | 5.587G         | 14   | 5.485G         | 15   | 5.574G         | 16   | 5.290G         |
| 17   | 5.305G         | 18   | 5.685G         | 19   | 5.355G         | 20   | 5.421G         |
| 21   | 5.332G         | 22   | 5.410G         | 23   | 5.624G         | 24   | 5.643G         |
| 25   | 5.697G         | 26   | 5.407G         | 27   | 5.299G         | 28   | 5.527G         |
| 29   | 5.389G         | 30   | 5.313G         | 31   | 5.391G         | 32   | 5.475G         |
| 33   | 5.713G         | 34   | 5.415G         | 35   | 5.579G         | 36   | 5.641G         |
| 37   | 5.557G         | 38   | 5.704G         | 39   | 5.691G         | 40   | 5.537G         |
| 41   | 5.477G         | 42   | 5.339G         | 43   | 5.276G         | 44   | 5.358G         |
| 45   | 5.349G         | 46   | 5.681G         | 47   | 5.679G         | 48   | 5.543G         |
| 49   | 5.337G         | 50   | 5.390G         | 51   | 5.497G         | 52   | 5.268G         |
| 53   | 5.684G         | 54   | 5.445G         | 55   | 5.380G         | 56   | 5.411G         |
| 57   | 5.363G         | 58   | 5.506G         | 59   | 5.483G         | 60   | 5.548G         |
| 61   | 5.716G         | 62   | 5.310G         | 63   | 5.340G         | 64   | 5.719G         |
| 65   | 5.617G         | 66   | 5.486G         | 67   | 5.285G         | 68   | 5.652G         |
| 69   | 5.331G         | 70   | 5.348G         | 71   | 5.565G         | 72   | 5.398G         |
| 73   | 5.480G         | 74   | 5.598G         | 75   | 5.342G         | 76   | 5.278G         |
| 77   | 5.489G         | 78   | 5.531G         | 79   | 5.705G         | 80   | 5.412G         |
| 81   | 5.446G         | 82   | 5.653G         | 83   | 5.554G         | 84   | 5.560G         |
| 85   | 5.250G         | 86   | 5.289G         | 87   | 5.345G         | 88   | 5.326G         |
| 89   | 5.297G         | 90   | 5.382G         | 91   | 5.619G         | 92   | 5.580G         |
| 93   | 5.664G         | 94   | 5.514G         | 95   | 5.670G         | 96   | 5.395G         |
| 97   | 5.333G         | 98   | 5.328G         | 99   | 5.427G         | 100  | 5.588G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.677G         | 2    | 5.681G         | 3    | 5.255G         | 4    | 5.274G         |
| 5                                                | 5.446G         | 6    | 5.566G         | 7    | 5.317G         | 8    | 5.457G         |
| 9                                                | 5.442G         | 10   | 5.354G         | 11   | 5.631G         | 12   | 5.350G         |
| 13                                               | 5.267G         | 14   | 5.649G         | 15   | 5.542G         | 16   | 5.604G         |
| 17                                               | 5.659G         | 18   | 5.655G         | 19   | 5.257G         | 20   | 5.621G         |
| 21                                               | 5.384G         | 22   | 5.660G         | 23   | 5.282G         | 24   | 5.526G         |
| 25                                               | 5.314G         | 26   | 5.271G         | 27   | 5.654G         | 28   | 5.688G         |
| 29                                               | 5.675G         | 30   | 5.498G         | 31   | 5.514G         | 32   | 5.524G         |
| 33                                               | 5.344G         | 34   | 5.682G         | 35   | 5.723G         | 36   | 5.634G         |
| 37                                               | 5.455G         | 38   | 5.592G         | 39   | 5.425G         | 40   | 5.341G         |
| 41                                               | 5.568G         | 42   | 5.684G         | 43   | 5.484G         | 44   | 5.626G         |
| 45                                               | 5.405G         | 46   | 5.633G         | 47   | 5.339G         | 48   | 5.708G         |
| 49                                               | 5.646G         | 50   | 5.478G         | 51   | 5.461G         | 52   | 5.315G         |
| 53                                               | 5.489G         | 54   | 5.313G         | 55   | 5.270G         | 56   | 5.529G         |
| 57                                               | 5.499G         | 58   | 5.299G         | 59   | 5.251G         | 60   | 5.548G         |
| 61                                               | 5.687G         | 62   | 5.262G         | 63   | 5.584G         | 64   | 5.697G         |
| 65                                               | 5.582G         | 66   | 5.551G         | 67   | 5.554G         | 68   | 5.402G         |
| 69                                               | 5.722G         | 70   | 5.445G         | 71   | 5.600G         | 72   | 5.676G         |
| 73                                               | 5.418G         | 74   | 5.636G         | 75   | 5.393G         | 76   | 5.408G         |
| 77                                               | 5.463G         | 78   | 5.620G         | 79   | 5.409G         | 80   | 5.308G         |
| 81                                               | 5.359G         | 82   | 5.539G         | 83   | 5.602G         | 84   | 5.390G         |
| 85                                               | 5.400G         | 86   | 5.368G         | 87   | 5.537G         | 88   | 5.422G         |
| 89                                               | 5.640G         | 90   | 5.336G         | 91   | 5.555G         | 92   | 5.300G         |
| 93                                               | 5.413G         | 94   | 5.597G         | 95   | 5.377G         | 96   | 5.397G         |
| 97                                               | 5.333G         | 98   | 5.541G         | 99   | 5.579G         | 100  | 5.281G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.555G         | 2    | 5.435G         | 3    | 5.619G         | 4    | 5.397G         |
| 5                                                | 5.323G         | 6    | 5.350G         | 7    | 5.557G         | 8    | 5.700G         |
| 9                                                | 5.300G         | 10   | 5.387G         | 11   | 5.635G         | 12   | 5.386G         |
| 13                                               | 5.322G         | 14   | 5.282G         | 15   | 5.262G         | 16   | 5.623G         |
| 17                                               | 5.279G         | 18   | 5.691G         | 19   | 5.604G         | 20   | 5.292G         |
| 21                                               | 5.401G         | 22   | 5.503G         | 23   | 5.518G         | 24   | 5.418G         |
| 25                                               | 5.563G         | 26   | 5.533G         | 27   | 5.706G         | 28   | 5.702G         |
| 29                                               | 5.357G         | 30   | 5.332G         | 31   | 5.423G         | 32   | 5.687G         |
| 33                                               | 5.631G         | 34   | 5.363G         | 35   | 5.660G         | 36   | 5.694G         |
| 37                                               | 5.293G         | 38   | 5.674G         | 39   | 5.629G         | 40   | 5.461G         |
| 41                                               | 5.252G         | 42   | 5.570G         | 43   | 5.714G         | 44   | 5.500G         |
| 45                                               | 5.368G         | 46   | 5.607G         | 47   | 5.299G         | 48   | 5.302G         |
| 49                                               | 5.317G         | 50   | 5.465G         | 51   | 5.256G         | 52   | 5.480G         |
| 53                                               | 5.443G         | 54   | 5.526G         | 55   | 5.305G         | 56   | 5.355G         |
| 57                                               | 5.549G         | 58   | 5.320G         | 59   | 5.351G         | 60   | 5.377G         |
| 61                                               | 5.421G         | 62   | 5.495G         | 63   | 5.339G         | 64   | 5.539G         |
| 65                                               | 5.297G         | 66   | 5.431G         | 67   | 5.699G         | 68   | 5.446G         |
| 69                                               | 5.411G         | 70   | 5.389G         | 71   | 5.697G         | 72   | 5.494G         |
| 73                                               | 5.675G         | 74   | 5.639G         | 75   | 5.276G         | 76   | 5.288G         |
| 77                                               | 5.583G         | 78   | 5.562G         | 79   | 5.590G         | 80   | 5.496G         |
| 81                                               | 5.679G         | 82   | 5.598G         | 83   | 5.599G         | 84   | 5.588G         |
| 85                                               | 5.346G         | 86   | 5.263G         | 87   | 5.284G         | 88   | 5.430G         |
| 89                                               | 5.264G         | 90   | 5.277G         | 91   | 5.467G         | 92   | 5.333G         |
| 93                                               | 5.620G         | 94   | 5.615G         | 95   | 5.383G         | 96   | 5.259G         |
| 97                                               | 5.268G         | 98   | 5.595G         | 99   | 5.547G         | 100  | 5.312G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.531G         | 2    | 5.677G         | 3    | 5.469G         | 4    | 5.535G         |
| 5                                                | 5.342G         | 6    | 5.521G         | 7    | 5.569G         | 8    | 5.404G         |
| 9                                                | 5.647G         | 10   | 5.687G         | 11   | 5.257G         | 12   | 5.554G         |
| 13                                               | 5.384G         | 14   | 5.338G         | 15   | 5.512G         | 16   | 5.253G         |
| 17                                               | 5.381G         | 18   | 5.661G         | 19   | 5.722G         | 20   | 5.378G         |
| 21                                               | 5.679G         | 22   | 5.494G         | 23   | 5.639G         | 24   | 5.322G         |
| 25                                               | 5.278G         | 26   | 5.311G         | 27   | 5.361G         | 28   | 5.256G         |
| 29                                               | 5.532G         | 30   | 5.597G         | 31   | 5.473G         | 32   | 5.636G         |
| 33                                               | 5.593G         | 34   | 5.710G         | 35   | 5.462G         | 36   | 5.497G         |
| 37                                               | 5.319G         | 38   | 5.544G         | 39   | 5.501G         | 40   | 5.556G         |
| 41                                               | 5.352G         | 42   | 5.304G         | 43   | 5.598G         | 44   | 5.694G         |
| 45                                               | 5.585G         | 46   | 5.315G         | 47   | 5.528G         | 48   | 5.609G         |
| 49                                               | 5.399G         | 50   | 5.480G         | 51   | 5.534G         | 52   | 5.594G         |
| 53                                               | 5.344G         | 54   | 5.711G         | 55   | 5.416G         | 56   | 5.520G         |
| 57                                               | 5.355G         | 58   | 5.634G         | 59   | 5.583G         | 60   | 5.527G         |
| 61                                               | 5.587G         | 62   | 5.580G         | 63   | 5.455G         | 64   | 5.448G         |
| 65                                               | 5.652G         | 66   | 5.406G         | 67   | 5.373G         | 68   | 5.430G         |
| 69                                               | 5.649G         | 70   | 5.495G         | 71   | 5.376G         | 72   | 5.465G         |
| 73                                               | 5.284G         | 74   | 5.337G         | 75   | 5.371G         | 76   | 5.708G         |
| 77                                               | 5.565G         | 78   | 5.490G         | 79   | 5.546G         | 80   | 5.651G         |
| 81                                               | 5.654G         | 82   | 5.518G         | 83   | 5.375G         | 84   | 5.414G         |
| 85                                               | 5.433G         | 86   | 5.617G         | 87   | 5.468G         | 88   | 5.301G         |
| 89                                               | 5.625G         | 90   | 5.691G         | 91   | 5.709G         | 92   | 5.558G         |
| 93                                               | 5.372G         | 94   | 5.645G         | 95   | 5.350G         | 96   | 5.487G         |
| 97                                               | 5.669G         | 98   | 5.460G         | 99   | 5.453G         | 100  | 5.716G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.474G         | 2    | 5.597G         | 3    | 5.426G         | 4    | 5.301G         |
| 5                                                | 5.627G         | 6    | 5.342G         | 7    | 5.381G         | 8    | 5.319G         |
| 9                                                | 5.504G         | 10   | 5.441G         | 11   | 5.287G         | 12   | 5.579G         |
| 13                                               | 5.577G         | 14   | 5.332G         | 15   | 5.714G         | 16   | 5.446G         |
| 17                                               | 5.262G         | 18   | 5.643G         | 19   | 5.260G         | 20   | 5.286G         |
| 21                                               | 5.268G         | 22   | 5.686G         | 23   | 5.404G         | 24   | 5.460G         |
| 25                                               | 5.634G         | 26   | 5.587G         | 27   | 5.512G         | 28   | 5.562G         |
| 29                                               | 5.559G         | 30   | 5.292G         | 31   | 5.639G         | 32   | 5.663G         |
| 33                                               | 5.722G         | 34   | 5.377G         | 35   | 5.369G         | 36   | 5.514G         |
| 37                                               | 5.538G         | 38   | 5.385G         | 39   | 5.322G         | 40   | 5.336G         |
| 41                                               | 5.679G         | 42   | 5.603G         | 43   | 5.258G         | 44   | 5.542G         |
| 45                                               | 5.298G         | 46   | 5.491G         | 47   | 5.693G         | 48   | 5.557G         |
| 49                                               | 5.337G         | 50   | 5.711G         | 51   | 5.451G         | 52   | 5.335G         |
| 53                                               | 5.393G         | 54   | 5.631G         | 55   | 5.673G         | 56   | 5.602G         |
| 57                                               | 5.671G         | 58   | 5.646G         | 59   | 5.284G         | 60   | 5.325G         |
| 61                                               | 5.552G         | 62   | 5.489G         | 63   | 5.465G         | 64   | 5.701G         |
| 65                                               | 5.435G         | 66   | 5.517G         | 67   | 5.433G         | 68   | 5.375G         |
| 69                                               | 5.576G         | 70   | 5.401G         | 71   | 5.644G         | 72   | 5.637G         |
| 73                                               | 5.338G         | 74   | 5.568G         | 75   | 5.405G         | 76   | 5.269G         |
| 77                                               | 5.428G         | 78   | 5.509G         | 79   | 5.640G         | 80   | 5.717G         |
| 81                                               | 5.252G         | 82   | 5.520G         | 83   | 5.485G         | 84   | 5.454G         |
| 85                                               | 5.398G         | 86   | 5.497G         | 87   | 5.384G         | 88   | 5.413G         |
| 89                                               | 5.270G         | 90   | 5.487G         | 91   | 5.537G         | 92   | 5.723G         |
| 93                                               | 5.429G         | 94   | 5.682G         | 95   | 5.463G         | 96   | 5.713G         |
| 97                                               | 5.599G         | 98   | 5.567G         | 99   | 5.351G         | 100  | 5.580G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.300G         | 2    | 5.635G         | 3    | 5.339G         | 4    | 5.384G         |
| 5                                                | 5.556G         | 6    | 5.568G         | 7    | 5.721G         | 8    | 5.415G         |
| 9                                                | 5.397G         | 10   | 5.450G         | 11   | 5.655G         | 12   | 5.320G         |
| 13                                               | 5.367G         | 14   | 5.366G         | 15   | 5.323G         | 16   | 5.596G         |
| 17                                               | 5.311G         | 18   | 5.714G         | 19   | 5.398G         | 20   | 5.445G         |
| 21                                               | 5.531G         | 22   | 5.532G         | 23   | 5.285G         | 24   | 5.632G         |
| 25                                               | 5.283G         | 26   | 5.385G         | 27   | 5.572G         | 28   | 5.487G         |
| 29                                               | 5.627G         | 30   | 5.306G         | 31   | 5.427G         | 32   | 5.330G         |
| 33                                               | 5.520G         | 34   | 5.414G         | 35   | 5.718G         | 36   | 5.695G         |
| 37                                               | 5.348G         | 38   | 5.696G         | 39   | 5.516G         | 40   | 5.500G         |
| 41                                               | 5.303G         | 42   | 5.713G         | 43   | 5.724G         | 44   | 5.336G         |
| 45                                               | 5.698G         | 46   | 5.453G         | 47   | 5.578G         | 48   | 5.267G         |
| 49                                               | 5.264G         | 50   | 5.309G         | 51   | 5.372G         | 52   | 5.426G         |
| 53                                               | 5.660G         | 54   | 5.584G         | 55   | 5.291G         | 56   | 5.333G         |
| 57                                               | 5.271G         | 58   | 5.301G         | 59   | 5.501G         | 60   | 5.647G         |
| 61                                               | 5.682G         | 62   | 5.315G         | 63   | 5.440G         | 64   | 5.275G         |
| 65                                               | 5.375G         | 66   | 5.684G         | 67   | 5.410G         | 68   | 5.354G         |
| 69                                               | 5.679G         | 70   | 5.377G         | 71   | 5.316G         | 72   | 5.589G         |
| 73                                               | 5.666G         | 74   | 5.577G         | 75   | 5.602G         | 76   | 5.683G         |
| 77                                               | 5.688G         | 78   | 5.538G         | 79   | 5.344G         | 80   | 5.651G         |
| 81                                               | 5.623G         | 82   | 5.324G         | 83   | 5.490G         | 84   | 5.523G         |
| 85                                               | 5.676G         | 86   | 5.540G         | 87   | 5.351G         | 88   | 5.505G         |
| 89                                               | 5.636G         | 90   | 5.603G         | 91   | 5.612G         | 92   | 5.608G         |
| 93                                               | 5.650G         | 94   | 5.699G         | 95   | 5.680G         | 96   | 5.365G         |
| 97                                               | 5.280G         | 98   | 5.670G         | 99   | 5.259G         | 100  | 5.425G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.299G         | 2    | 5.556G         | 3    | 5.573G         | 4    | 5.350G         |
| 5                                                | 5.604G         | 6    | 5.256G         | 7    | 5.322G         | 8    | 5.512G         |
| 9                                                | 5.377G         | 10   | 5.602G         | 11   | 5.520G         | 12   | 5.721G         |
| 13                                               | 5.634G         | 14   | 5.591G         | 15   | 5.266G         | 16   | 5.340G         |
| 17                                               | 5.261G         | 18   | 5.596G         | 19   | 5.384G         | 20   | 5.551G         |
| 21                                               | 5.562G         | 22   | 5.708G         | 23   | 5.713G         | 24   | 5.330G         |
| 25                                               | 5.399G         | 26   | 5.689G         | 27   | 5.294G         | 28   | 5.365G         |
| 29                                               | 5.500G         | 30   | 5.485G         | 31   | 5.724G         | 32   | 5.672G         |
| 33                                               | 5.585G         | 34   | 5.381G         | 35   | 5.423G         | 36   | 5.594G         |
| 37                                               | 5.471G         | 38   | 5.344G         | 39   | 5.435G         | 40   | 5.388G         |
| 41                                               | 5.413G         | 42   | 5.707G         | 43   | 5.526G         | 44   | 5.259G         |
| 45                                               | 5.405G         | 46   | 5.541G         | 47   | 5.369G         | 48   | 5.511G         |
| 49                                               | 5.391G         | 50   | 5.374G         | 51   | 5.533G         | 52   | 5.446G         |
| 53                                               | 5.676G         | 54   | 5.326G         | 55   | 5.527G         | 56   | 5.346G         |
| 57                                               | 5.312G         | 58   | 5.515G         | 59   | 5.630G         | 60   | 5.408G         |
| 61                                               | 5.651G         | 62   | 5.395G         | 63   | 5.385G         | 64   | 5.292G         |
| 65                                               | 5.506G         | 66   | 5.701G         | 67   | 5.571G         | 68   | 5.650G         |
| 69                                               | 5.586G         | 70   | 5.362G         | 71   | 5.469G         | 72   | 5.382G         |
| 73                                               | 5.667G         | 74   | 5.467G         | 75   | 5.614G         | 76   | 5.524G         |
| 77                                               | 5.567G         | 78   | 5.402G         | 79   | 5.406G         | 80   | 5.488G         |
| 81                                               | 5.542G         | 82   | 5.547G         | 83   | 5.445G         | 84   | 5.418G         |
| 85                                               | 5.414G         | 86   | 5.665G         | 87   | 5.275G         | 88   | 5.420G         |
| 89                                               | 5.635G         | 90   | 5.513G         | 91   | 5.317G         | 92   | 5.321G         |
| 93                                               | 5.686G         | 94   | 5.536G         | 95   | 5.699G         | 96   | 5.276G         |
| 97                                               | 5.537G         | 98   | 5.629G         | 99   | 5.631G         | 100  | 5.449G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.543G         | 2    | 5.558G         | 3    | 5.283G         | 4    | 5.274G         |
| 5                                                | 5.321G         | 6    | 5.351G         | 7    | 5.401G         | 8    | 5.611G         |
| 9                                                | 5.608G         | 10   | 5.577G         | 11   | 5.322G         | 12   | 5.612G         |
| 13                                               | 5.369G         | 14   | 5.593G         | 15   | 5.619G         | 16   | 5.719G         |
| 17                                               | 5.422G         | 18   | 5.355G         | 19   | 5.692G         | 20   | 5.255G         |
| 21                                               | 5.349G         | 22   | 5.325G         | 23   | 5.677G         | 24   | 5.307G         |
| 25                                               | 5.694G         | 26   | 5.268G         | 27   | 5.541G         | 28   | 5.335G         |
| 29                                               | 5.613G         | 30   | 5.339G         | 31   | 5.526G         | 32   | 5.627G         |
| 33                                               | 5.527G         | 34   | 5.648G         | 35   | 5.435G         | 36   | 5.326G         |
| 37                                               | 5.693G         | 38   | 5.409G         | 39   | 5.529G         | 40   | 5.513G         |
| 41                                               | 5.250G         | 42   | 5.689G         | 43   | 5.337G         | 44   | 5.491G         |
| 45                                               | 5.282G         | 46   | 5.622G         | 47   | 5.504G         | 48   | 5.472G         |
| 49                                               | 5.382G         | 50   | 5.265G         | 51   | 5.467G         | 52   | 5.439G         |
| 53                                               | 5.299G         | 54   | 5.310G         | 55   | 5.591G         | 56   | 5.368G         |
| 57                                               | 5.621G         | 58   | 5.394G         | 59   | 5.264G         | 60   | 5.716G         |
| 61                                               | 5.505G         | 62   | 5.498G         | 63   | 5.378G         | 64   | 5.532G         |
| 65                                               | 5.376G         | 66   | 5.340G         | 67   | 5.460G         | 68   | 5.462G         |
| 69                                               | 5.585G         | 70   | 5.573G         | 71   | 5.474G         | 72   | 5.333G         |
| 73                                               | 5.602G         | 74   | 5.397G         | 75   | 5.372G         | 76   | 5.459G         |
| 77                                               | 5.446G         | 78   | 5.412G         | 79   | 5.469G         | 80   | 5.554G         |
| 81                                               | 5.514G         | 82   | 5.610G         | 83   | 5.506G         | 84   | 5.304G         |
| 85                                               | 5.252G         | 86   | 5.370G         | 87   | 5.548G         | 88   | 5.383G         |
| 89                                               | 5.253G         | 90   | 5.572G         | 91   | 5.497G         | 92   | 5.563G         |
| 93                                               | 5.302G         | 94   | 5.702G         | 95   | 5.616G         | 96   | 5.486G         |
| 97                                               | 5.391G         | 98   | 5.617G         | 99   | 5.415G         | 100  | 5.568G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.564G         | 2    | 5.639G         | 3    | 5.494G         | 4    | 5.671G         |
| 5                                                | 5.715G         | 6    | 5.426G         | 7    | 5.483G         | 8    | 5.344G         |
| 9                                                | 5.321G         | 10   | 5.338G         | 11   | 5.524G         | 12   | 5.663G         |
| 13                                               | 5.411G         | 14   | 5.490G         | 15   | 5.601G         | 16   | 5.462G         |
| 17                                               | 5.575G         | 18   | 5.712G         | 19   | 5.435G         | 20   | 5.576G         |
| 21                                               | 5.549G         | 22   | 5.606G         | 23   | 5.714G         | 24   | 5.657G         |
| 25                                               | 5.651G         | 26   | 5.475G         | 27   | 5.398G         | 28   | 5.255G         |
| 29                                               | 5.279G         | 30   | 5.585G         | 31   | 5.271G         | 32   | 5.496G         |
| 33                                               | 5.525G         | 34   | 5.425G         | 35   | 5.251G         | 36   | 5.266G         |
| 37                                               | 5.665G         | 38   | 5.526G         | 39   | 5.472G         | 40   | 5.565G         |
| 41                                               | 5.354G         | 42   | 5.382G         | 43   | 5.386G         | 44   | 5.561G         |
| 45                                               | 5.479G         | 46   | 5.723G         | 47   | 5.489G         | 48   | 5.505G         |
| 49                                               | 5.491G         | 50   | 5.632G         | 51   | 5.643G         | 52   | 5.624G         |
| 53                                               | 5.474G         | 54   | 5.415G         | 55   | 5.677G         | 56   | 5.627G         |
| 57                                               | 5.542G         | 58   | 5.706G         | 59   | 5.448G         | 60   | 5.708G         |
| 61                                               | 5.616G         | 62   | 5.497G         | 63   | 5.356G         | 64   | 5.562G         |
| 65                                               | 5.713G         | 66   | 5.402G         | 67   | 5.302G         | 68   | 5.428G         |
| 69                                               | 5.258G         | 70   | 5.450G         | 71   | 5.436G         | 72   | 5.269G         |
| 73                                               | 5.469G         | 74   | 5.458G         | 75   | 5.256G         | 76   | 5.252G         |
| 77                                               | 5.421G         | 78   | 5.454G         | 79   | 5.506G         | 80   | 5.694G         |
| 81                                               | 5.611G         | 82   | 5.548G         | 83   | 5.466G         | 84   | 5.669G         |
| 85                                               | 5.263G         | 86   | 5.275G         | 87   | 5.430G         | 88   | 5.681G         |
| 89                                               | 5.437G         | 90   | 5.486G         | 91   | 5.320G         | 92   | 5.696G         |
| 93                                               | 5.372G         | 94   | 5.423G         | 95   | 5.376G         | 96   | 5.404G         |
| 97                                               | 5.529G         | 98   | 5.602G         | 99   | 5.666G         | 100  | 5.550G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.531G         | 2    | 5.327G         | 3    | 5.328G         | 4    | 5.692G         |
| 5                                                | 5.722G         | 6    | 5.329G         | 7    | 5.470G         | 8    | 5.564G         |
| 9                                                | 5.540G         | 10   | 5.299G         | 11   | 5.263G         | 12   | 5.345G         |
| 13                                               | 5.444G         | 14   | 5.719G         | 15   | 5.317G         | 16   | 5.566G         |
| 17                                               | 5.396G         | 18   | 5.638G         | 19   | 5.439G         | 20   | 5.721G         |
| 21                                               | 5.472G         | 22   | 5.269G         | 23   | 5.420G         | 24   | 5.372G         |
| 25                                               | 5.275G         | 26   | 5.596G         | 27   | 5.265G         | 28   | 5.339G         |
| 29                                               | 5.304G         | 30   | 5.644G         | 31   | 5.294G         | 32   | 5.574G         |
| 33                                               | 5.478G         | 34   | 5.455G         | 35   | 5.341G         | 36   | 5.529G         |
| 37                                               | 5.669G         | 38   | 5.632G         | 39   | 5.353G         | 40   | 5.523G         |
| 41                                               | 5.509G         | 42   | 5.561G         | 43   | 5.589G         | 44   | 5.579G         |
| 45                                               | 5.694G         | 46   | 5.668G         | 47   | 5.488G         | 48   | 5.534G         |
| 49                                               | 5.253G         | 50   | 5.652G         | 51   | 5.554G         | 52   | 5.675G         |
| 53                                               | 5.274G         | 54   | 5.563G         | 55   | 5.358G         | 56   | 5.315G         |
| 57                                               | 5.697G         | 58   | 5.578G         | 59   | 5.474G         | 60   | 5.404G         |
| 61                                               | 5.352G         | 62   | 5.586G         | 63   | 5.379G         | 64   | 5.703G         |
| 65                                               | 5.573G         | 66   | 5.546G         | 67   | 5.607G         | 68   | 5.441G         |
| 69                                               | 5.538G         | 70   | 5.496G         | 71   | 5.673G         | 72   | 5.528G         |
| 73                                               | 5.645G         | 74   | 5.436G         | 75   | 5.459G         | 76   | 5.709G         |
| 77                                               | 5.423G         | 78   | 5.597G         | 79   | 5.590G         | 80   | 5.695G         |
| 81                                               | 5.691G         | 82   | 5.481G         | 83   | 5.382G         | 84   | 5.535G         |
| 85                                               | 5.411G         | 86   | 5.374G         | 87   | 5.451G         | 88   | 5.386G         |
| 89                                               | 5.717G         | 90   | 5.643G         | 91   | 5.393G         | 92   | 5.463G         |
| 93                                               | 5.480G         | 94   | 5.555G         | 95   | 5.276G         | 96   | 5.519G         |
| 97                                               | 5.598G         | 98   | 5.395G         | 99   | 5.362G         | 100  | 5.723G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.475G         | 2    | 5.473G         | 3    | 5.628G         | 4    | 5.579G         |
| 5    | 5.622G         | 6    | 5.587G         | 7    | 5.359G         | 8    | 5.291G         |
| 9    | 5.275G         | 10   | 5.317G         | 11   | 5.407G         | 12   | 5.631G         |
| 13   | 5.499G         | 14   | 5.278G         | 15   | 5.328G         | 16   | 5.423G         |
| 17   | 5.430G         | 18   | 5.476G         | 19   | 5.286G         | 20   | 5.516G         |
| 21   | 5.607G         | 22   | 5.505G         | 23   | 5.598G         | 24   | 5.351G         |
| 25   | 5.668G         | 26   | 5.672G         | 27   | 5.441G         | 28   | 5.467G         |
| 29   | 5.574G         | 30   | 5.644G         | 31   | 5.506G         | 32   | 5.677G         |
| 33   | 5.553G         | 34   | 5.352G         | 35   | 5.667G         | 36   | 5.510G         |
| 37   | 5.319G         | 38   | 5.520G         | 39   | 5.488G         | 40   | 5.343G         |
| 41   | 5.590G         | 42   | 5.581G         | 43   | 5.637G         | 44   | 5.294G         |
| 45   | 5.425G         | 46   | 5.535G         | 47   | 5.524G         | 48   | 5.517G         |
| 49   | 5.285G         | 50   | 5.449G         | 51   | 5.676G         | 52   | 5.255G         |
| 53   | 5.491G         | 54   | 5.700G         | 55   | 5.442G         | 56   | 5.469G         |
| 57   | 5.468G         | 58   | 5.384G         | 59   | 5.533G         | 60   | 5.267G         |
| 61   | 5.439G         | 62   | 5.361G         | 63   | 5.400G         | 64   | 5.373G         |
| 65   | 5.250G         | 66   | 5.556G         | 67   | 5.403G         | 68   | 5.682G         |
| 69   | 5.537G         | 70   | 5.552G         | 71   | 5.643G         | 72   | 5.539G         |
| 73   | 5.301G         | 74   | 5.559G         | 75   | 5.417G         | 76   | 5.526G         |
| 77   | 5.459G         | 78   | 5.634G         | 79   | 5.367G         | 80   | 5.652G         |
| 81   | 5.420G         | 82   | 5.572G         | 83   | 5.693G         | 84   | 5.549G         |
| 85   | 5.445G         | 86   | 5.339G         | 87   | 5.529G         | 88   | 5.696G         |
| 89   | 5.454G         | 90   | 5.308G         | 91   | 5.718G         | 92   | 5.457G         |
| 93   | 5.281G         | 94   | 5.565G         | 95   | 5.356G         | 96   | 5.621G         |
| 97   | 5.638G         | 98   | 5.462G         | 99   | 5.277G         | 100  | 5.679G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.451G         | 2    | 5.506G         | 3    | 5.278G         | 4    | 5.424G         |
| 5                                                | 5.400G         | 6    | 5.504G         | 7    | 5.431G         | 8    | 5.304G         |
| 9                                                | 5.545G         | 10   | 5.602G         | 11   | 5.497G         | 12   | 5.531G         |
| 13                                               | 5.499G         | 14   | 5.381G         | 15   | 5.557G         | 16   | 5.667G         |
| 17                                               | 5.529G         | 18   | 5.652G         | 19   | 5.362G         | 20   | 5.567G         |
| 21                                               | 5.261G         | 22   | 5.593G         | 23   | 5.555G         | 24   | 5.674G         |
| 25                                               | 5.698G         | 26   | 5.587G         | 27   | 5.267G         | 28   | 5.582G         |
| 29                                               | 5.406G         | 30   | 5.465G         | 31   | 5.616G         | 32   | 5.703G         |
| 33                                               | 5.324G         | 34   | 5.352G         | 35   | 5.415G         | 36   | 5.298G         |
| 37                                               | 5.717G         | 38   | 5.262G         | 39   | 5.449G         | 40   | 5.281G         |
| 41                                               | 5.327G         | 42   | 5.386G         | 43   | 5.581G         | 44   | 5.332G         |
| 45                                               | 5.600G         | 46   | 5.509G         | 47   | 5.322G         | 48   | 5.528G         |
| 49                                               | 5.552G         | 50   | 5.503G         | 51   | 5.421G         | 52   | 5.284G         |
| 53                                               | 5.272G         | 54   | 5.419G         | 55   | 5.649G         | 56   | 5.612G         |
| 57                                               | 5.692G         | 58   | 5.296G         | 59   | 5.657G         | 60   | 5.383G         |
| 61                                               | 5.374G         | 62   | 5.366G         | 63   | 5.294G         | 64   | 5.408G         |
| 65                                               | 5.360G         | 66   | 5.384G         | 67   | 5.685G         | 68   | 5.442G         |
| 69                                               | 5.628G         | 70   | 5.314G         | 71   | 5.341G         | 72   | 5.519G         |
| 73                                               | 5.299G         | 74   | 5.586G         | 75   | 5.554G         | 76   | 5.686G         |
| 77                                               | 5.471G         | 78   | 5.538G         | 79   | 5.470G         | 80   | 5.448G         |
| 81                                               | 5.270G         | 82   | 5.393G         | 83   | 5.601G         | 84   | 5.483G         |
| 85                                               | 5.620G         | 86   | 5.346G         | 87   | 5.377G         | 88   | 5.716G         |
| 89                                               | 5.624G         | 90   | 5.462G         | 91   | 5.321G         | 92   | 5.556G         |
| 93                                               | 5.598G         | 94   | 5.511G         | 95   | 5.309G         | 96   | 5.580G         |
| 97                                               | 5.521G         | 98   | 5.287G         | 99   | 5.553G         | 100  | 5.368G         |



| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.543G         | 2    | 5.679G         | 3    | 5.533G         | 4    | 5.457G         |
| 5                                                | 5.595G         | 6    | 5.622G         | 7    | 5.251G         | 8    | 5.325G         |
| 9                                                | 5.529G         | 10   | 5.486G         | 11   | 5.346G         | 12   | 5.580G         |
| 13                                               | 5.416G         | 14   | 5.634G         | 15   | 5.570G         | 16   | 5.536G         |
| 17                                               | 5.304G         | 18   | 5.614G         | 19   | 5.321G         | 20   | 5.361G         |
| 21                                               | 5.402G         | 22   | 5.408G         | 23   | 5.582G         | 24   | 5.376G         |
| 25                                               | 5.703G         | 26   | 5.527G         | 27   | 5.670G         | 28   | 5.512G         |
| 29                                               | 5.475G         | 30   | 5.649G         | 31   | 5.406G         | 32   | 5.692G         |
| 33                                               | 5.694G         | 34   | 5.621G         | 35   | 5.281G         | 36   | 5.412G         |
| 37                                               | 5.509G         | 38   | 5.564G         | 39   | 5.664G         | 40   | 5.656G         |
| 41                                               | 5.567G         | 42   | 5.394G         | 43   | 5.503G         | 44   | 5.393G         |
| 45                                               | 5.391G         | 46   | 5.678G         | 47   | 5.641G         | 48   | 5.351G         |
| 49                                               | 5.557G         | 50   | 5.374G         | 51   | 5.375G         | 52   | 5.317G         |
| 53                                               | 5.696G         | 54   | 5.420G         | 55   | 5.397G         | 56   | 5.560G         |
| 57                                               | 5.604G         | 58   | 5.270G         | 59   | 5.290G         | 60   | 5.469G         |
| 61                                               | 5.691G         | 62   | 5.528G         | 63   | 5.681G         | 64   | 5.491G         |
| 65                                               | 5.395G         | 66   | 5.390G         | 67   | 5.254G         | 68   | 5.398G         |
| 69                                               | 5.530G         | 70   | 5.476G         | 71   | 5.504G         | 72   | 5.722G         |
| 73                                               | 5.450G         | 74   | 5.577G         | 75   | 5.410G         | 76   | 5.719G         |
| 77                                               | 5.462G         | 78   | 5.468G         | 79   | 5.660G         | 80   | 5.626G         |
| 81                                               | 5.364G         | 82   | 5.630G         | 83   | 5.320G         | 84   | 5.586G         |
| 85                                               | 5.407G         | 86   | 5.371G         | 87   | 5.360G         | 88   | 5.423G         |
| 89                                               | 5.330G         | 90   | 5.309G         | 91   | 5.680G         | 92   | 5.655G         |
| 93                                               | 5.500G         | 94   | 5.594G         | 95   | 5.535G         | 96   | 5.647G         |
| 97                                               | 5.311G         | 98   | 5.650G         | 99   | 5.345G         | 100  | 5.544G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.678G         | 2    | 5.362G         | 3    | 5.672G         | 4    | 5.353G         |
| 5                                                | 5.601G         | 6    | 5.270G         | 7    | 5.435G         | 8    | 5.547G         |
| 9                                                | 5.489G         | 10   | 5.658G         | 11   | 5.332G         | 12   | 5.522G         |
| 13                                               | 5.529G         | 14   | 5.609G         | 15   | 5.280G         | 16   | 5.544G         |
| 17                                               | 5.288G         | 18   | 5.459G         | 19   | 5.531G         | 20   | 5.619G         |
| 21                                               | 5.502G         | 22   | 5.473G         | 23   | 5.576G         | 24   | 5.321G         |
| 25                                               | 5.549G         | 26   | 5.538G         | 27   | 5.425G         | 28   | 5.316G         |
| 29                                               | 5.685G         | 30   | 5.475G         | 31   | 5.378G         | 32   | 5.639G         |
| 33                                               | 5.268G         | 34   | 5.649G         | 35   | 5.373G         | 36   | 5.301G         |
| 37                                               | 5.371G         | 38   | 5.500G         | 39   | 5.558G         | 40   | 5.291G         |
| 41                                               | 5.501G         | 42   | 5.682G         | 43   | 5.292G         | 44   | 5.666G         |
| 45                                               | 5.442G         | 46   | 5.717G         | 47   | 5.513G         | 48   | 5.462G         |
| 49                                               | 5.447G         | 50   | 5.402G         | 51   | 5.596G         | 52   | 5.411G         |
| 53                                               | 5.482G         | 54   | 5.670G         | 55   | 5.306G         | 56   | 5.644G         |
| 57                                               | 5.281G         | 58   | 5.377G         | 59   | 5.622G         | 60   | 5.466G         |
| 61                                               | 5.510G         | 62   | 5.384G         | 63   | 5.469G         | 64   | 5.472G         |
| 65                                               | 5.668G         | 66   | 5.646G         | 67   | 5.533G         | 68   | 5.455G         |
| 69                                               | 5.467G         | 70   | 5.338G         | 71   | 5.256G         | 72   | 5.348G         |
| 73                                               | 5.287G         | 74   | 5.638G         | 75   | 5.364G         | 76   | 5.515G         |
| 77                                               | 5.273G         | 78   | 5.675G         | 79   | 5.478G         | 80   | 5.550G         |
| 81                                               | 5.320G         | 82   | 5.310G         | 83   | 5.713G         | 84   | 5.691G         |
| 85                                               | 5.304G         | 86   | 5.623G         | 87   | 5.578G         | 88   | 5.410G         |
| 89                                               | 5.709G         | 90   | 5.627G         | 91   | 5.699G         | 92   | 5.480G         |
| 93                                               | 5.436G         | 94   | 5.621G         | 95   | 5.723G         | 96   | 5.577G         |
| 97                                               | 5.346G         | 98   | 5.714G         | 99   | 5.711G         | 100  | 5.643G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.337G         | 2    | 5.536G         | 3    | 5.294G         | 4    | 5.548G         |
| 5    | 5.464G         | 6    | 5.284G         | 7    | 5.578G         | 8    | 5.353G         |
| 9    | 5.346G         | 10   | 5.418G         | 11   | 5.526G         | 12   | 5.292G         |
| 13   | 5.386G         | 14   | 5.604G         | 15   | 5.703G         | 16   | 5.321G         |
| 17   | 5.443G         | 18   | 5.350G         | 19   | 5.559G         | 20   | 5.475G         |
| 21   | 5.276G         | 22   | 5.362G         | 23   | 5.375G         | 24   | 5.404G         |
| 25   | 5.643G         | 26   | 5.523G         | 27   | 5.580G         | 28   | 5.381G         |
| 29   | 5.632G         | 30   | 5.504G         | 31   | 5.251G         | 32   | 5.575G         |
| 33   | 5.631G         | 34   | 5.446G         | 35   | 5.460G         | 36   | 5.255G         |
| 37   | 5.550G         | 38   | 5.447G         | 39   | 5.487G         | 40   | 5.584G         |
| 41   | 5.605G         | 42   | 5.511G         | 43   | 5.566G         | 44   | 5.557G         |
| 45   | 5.430G         | 46   | 5.480G         | 47   | 5.543G         | 48   | 5.517G         |
| 49   | 5.641G         | 50   | 5.589G         | 51   | 5.384G         | 52   | 5.405G         |
| 53   | 5.477G         | 54   | 5.374G         | 55   | 5.488G         | 56   | 5.705G         |
| 57   | 5.499G         | 58   | 5.266G         | 59   | 5.388G         | 60   | 5.296G         |
| 61   | 5.280G         | 62   | 5.570G         | 63   | 5.719G         | 64   | 5.569G         |
| 65   | 5.538G         | 66   | 5.433G         | 67   | 5.609G         | 68   | 5.367G         |
| 69   | 5.542G         | 70   | 5.541G         | 71   | 5.564G         | 72   | 5.356G         |
| 73   | 5.301G         | 74   | 5.437G         | 75   | 5.668G         | 76   | 5.330G         |
| 77   | 5.486G         | 78   | 5.685G         | 79   | 5.567G         | 80   | 5.439G         |
| 81   | 5.711G         | 82   | 5.656G         | 83   | 5.479G         | 84   | 5.314G         |
| 85   | 5.461G         | 86   | 5.693G         | 87   | 5.675G         | 88   | 5.545G         |
| 89   | 5.450G         | 90   | 5.686G         | 91   | 5.476G         | 92   | 5.688G         |
| 93   | 5.482G         | 94   | 5.639G         | 95   | 5.268G         | 96   | 5.572G         |
| 97   | 5.515G         | 98   | 5.377G         | 99   | 5.625G         | 100  | 5.560G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.261G         | 2    | 5.482G         | 3    | 5.690G         | 4    | 5.343G         |
| 5    | 5.575G         | 6    | 5.415G         | 7    | 5.421G         | 8    | 5.686G         |
| 9    | 5.305G         | 10   | 5.304G         | 11   | 5.584G         | 12   | 5.299G         |
| 13   | 5.631G         | 14   | 5.425G         | 15   | 5.503G         | 16   | 5.379G         |
| 17   | 5.358G         | 18   | 5.612G         | 19   | 5.406G         | 20   | 5.292G         |
| 21   | 5.359G         | 22   | 5.577G         | 23   | 5.302G         | 24   | 5.524G         |
| 25   | 5.673G         | 26   | 5.501G         | 27   | 5.674G         | 28   | 5.637G         |
| 29   | 5.607G         | 30   | 5.573G         | 31   | 5.443G         | 32   | 5.663G         |
| 33   | 5.419G         | 34   | 5.402G         | 35   | 5.550G         | 36   | 5.351G         |
| 37   | 5.585G         | 38   | 5.572G         | 39   | 5.326G         | 40   | 5.602G         |
| 41   | 5.698G         | 42   | 5.276G         | 43   | 5.613G         | 44   | 5.643G         |
| 45   | 5.608G         | 46   | 5.287G         | 47   | 5.591G         | 48   | 5.352G         |
| 49   | 5.439G         | 50   | 5.303G         | 51   | 5.367G         | 52   | 5.545G         |
| 53   | 5.256G         | 54   | 5.532G         | 55   | 5.393G         | 56   | 5.423G         |
| 57   | 5.291G         | 58   | 5.361G         | 59   | 5.515G         | 60   | 5.468G         |
| 61   | 5.599G         | 62   | 5.713G         | 63   | 5.693G         | 64   | 5.703G         |
| 65   | 5.576G         | 66   | 5.390G         | 67   | 5.382G         | 68   | 5.604G         |
| 69   | 5.557G         | 70   | 5.514G         | 71   | 5.582G         | 72   | 5.516G         |
| 73   | 5.496G         | 74   | 5.451G         | 75   | 5.580G         | 76   | 5.675G         |
| 77   | 5.592G         | 78   | 5.597G         | 79   | 5.685G         | 80   | 5.483G         |
| 81   | 5.405G         | 82   | 5.325G         | 83   | 5.687G         | 84   | 5.274G         |
| 85   | 5.672G         | 86   | 5.338G         | 87   | 5.619G         | 88   | 5.486G         |
| 89   | 5.682G         | 90   | 5.497G         | 91   | 5.458G         | 92   | 5.621G         |
| 93   | 5.579G         | 94   | 5.436G         | 95   | 5.679G         | 96   | 5.333G         |
| 97   | 5.446G         | 98   | 5.374G         | 99   | 5.449G         | 100  | 5.586G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.300G         | 2    | 5.550G         | 3    | 5.498G         | 4    | 5.323G         |
| 5                                                | 5.645G         | 6    | 5.416G         | 7    | 5.320G         | 8    | 5.468G         |
| 9                                                | 5.361G         | 10   | 5.391G         | 11   | 5.520G         | 12   | 5.681G         |
| 13                                               | 5.662G         | 14   | 5.381G         | 15   | 5.496G         | 16   | 5.409G         |
| 17                                               | 5.604G         | 18   | 5.525G         | 19   | 5.438G         | 20   | 5.718G         |
| 21                                               | 5.576G         | 22   | 5.301G         | 23   | 5.382G         | 24   | 5.298G         |
| 25                                               | 5.555G         | 26   | 5.446G         | 27   | 5.291G         | 28   | 5.302G         |
| 29                                               | 5.559G         | 30   | 5.281G         | 31   | 5.575G         | 32   | 5.630G         |
| 33                                               | 5.639G         | 34   | 5.539G         | 35   | 5.373G         | 36   | 5.399G         |
| 37                                               | 5.704G         | 38   | 5.293G         | 39   | 5.595G         | 40   | 5.428G         |
| 41                                               | 5.472G         | 42   | 5.529G         | 43   | 5.609G         | 44   | 5.406G         |
| 45                                               | 5.519G         | 46   | 5.295G         | 47   | 5.414G         | 48   | 5.309G         |
| 49                                               | 5.541G         | 50   | 5.481G         | 51   | 5.431G         | 52   | 5.528G         |
| 53                                               | 5.304G         | 54   | 5.625G         | 55   | 5.461G         | 56   | 5.689G         |
| 57                                               | 5.643G         | 58   | 5.436G         | 59   | 5.430G         | 60   | 5.367G         |
| 61                                               | 5.615G         | 62   | 5.279G         | 63   | 5.568G         | 64   | 5.523G         |
| 65                                               | 5.579G         | 66   | 5.380G         | 67   | 5.315G         | 68   | 5.660G         |
| 69                                               | 5.443G         | 70   | 5.256G         | 71   | 5.614G         | 72   | 5.561G         |
| 73                                               | 5.580G         | 74   | 5.687G         | 75   | 5.551G         | 76   | 5.648G         |
| 77                                               | 5.667G         | 78   | 5.494G         | 79   | 5.274G         | 80   | 5.410G         |
| 81                                               | 5.368G         | 82   | 5.262G         | 83   | 5.640G         | 84   | 5.463G         |
| 85                                               | 5.400G         | 86   | 5.379G         | 87   | 5.652G         | 88   | 5.693G         |
| 89                                               | 5.533G         | 90   | 5.321G         | 91   | 5.593G         | 92   | 5.654G         |
| 93                                               | 5.554G         | 94   | 5.605G         | 95   | 5.290G         | 96   | 5.288G         |
| 97                                               | 5.632G         | 98   | 5.700G         | 99   | 5.678G         | 100  | 5.672G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.325G         | 2    | 5.717G         | 3    | 5.303G         | 4    | 5.496G         |
| 5                                                | 5.294G         | 6    | 5.598G         | 7    | 5.555G         | 8    | 5.680G         |
| 9                                                | 5.526G         | 10   | 5.673G         | 11   | 5.660G         | 12   | 5.257G         |
| 13                                               | 5.561G         | 14   | 5.413G         | 15   | 5.642G         | 16   | 5.378G         |
| 17                                               | 5.323G         | 18   | 5.636G         | 19   | 5.548G         | 20   | 5.432G         |
| 21                                               | 5.604G         | 22   | 5.541G         | 23   | 5.655G         | 24   | 5.667G         |
| 25                                               | 5.676G         | 26   | 5.374G         | 27   | 5.535G         | 28   | 5.718G         |
| 29                                               | 5.437G         | 30   | 5.339G         | 31   | 5.328G         | 32   | 5.278G         |
| 33                                               | 5.377G         | 34   | 5.641G         | 35   | 5.481G         | 36   | 5.552G         |
| 37                                               | 5.379G         | 38   | 5.537G         | 39   | 5.568G         | 40   | 5.395G         |
| 41                                               | 5.494G         | 42   | 5.699G         | 43   | 5.698G         | 44   | 5.475G         |
| 45                                               | 5.601G         | 46   | 5.327G         | 47   | 5.385G         | 48   | 5.436G         |
| 49                                               | 5.544G         | 50   | 5.502G         | 51   | 5.405G         | 52   | 5.487G         |
| 53                                               | 5.647G         | 54   | 5.681G         | 55   | 5.518G         | 56   | 5.638G         |
| 57                                               | 5.296G         | 58   | 5.420G         | 59   | 5.652G         | 60   | 5.525G         |
| 61                                               | 5.651G         | 62   | 5.509G         | 63   | 5.657G         | 64   | 5.254G         |
| 65                                               | 5.295G         | 66   | 5.268G         | 67   | 5.340G         | 68   | 5.692G         |
| 69                                               | 5.331G         | 70   | 5.580G         | 71   | 5.626G         | 72   | 5.311G         |
| 73                                               | 5.462G         | 74   | 5.715G         | 75   | 5.670G         | 76   | 5.590G         |
| 77                                               | 5.592G         | 78   | 5.559G         | 79   | 5.534G         | 80   | 5.520G         |
| 81                                               | 5.611G         | 82   | 5.683G         | 83   | 5.290G         | 84   | 5.661G         |
| 85                                               | 5.352G         | 86   | 5.471G         | 87   | 5.550G         | 88   | 5.265G         |
| 89                                               | 5.570G         | 90   | 5.664G         | 91   | 5.346G         | 92   | 5.466G         |
| 93                                               | 5.625G         | 94   | 5.646G         | 95   | 5.306G         | 96   | 5.588G         |
| 97                                               | 5.479G         | 98   | 5.358G         | 99   | 5.623G         | 100  | 5.677G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.573G         | 2    | 5.516G         | 3    | 5.405G         | 4    | 5.645G         |
| 5                                                | 5.320G         | 6    | 5.474G         | 7    | 5.347G         | 8    | 5.683G         |
| 9                                                | 5.637G         | 10   | 5.710G         | 11   | 5.539G         | 12   | 5.678G         |
| 13                                               | 5.486G         | 14   | 5.713G         | 15   | 5.522G         | 16   | 5.559G         |
| 17                                               | 5.349G         | 18   | 5.619G         | 19   | 5.339G         | 20   | 5.629G         |
| 21                                               | 5.661G         | 22   | 5.314G         | 23   | 5.524G         | 24   | 5.465G         |
| 25                                               | 5.542G         | 26   | 5.304G         | 27   | 5.262G         | 28   | 5.494G         |
| 29                                               | 5.467G         | 30   | 5.631G         | 31   | 5.681G         | 32   | 5.260G         |
| 33                                               | 5.592G         | 34   | 5.268G         | 35   | 5.438G         | 36   | 5.403G         |
| 37                                               | 5.505G         | 38   | 5.533G         | 39   | 5.536G         | 40   | 5.557G         |
| 41                                               | 5.271G         | 42   | 5.682G         | 43   | 5.583G         | 44   | 5.433G         |
| 45                                               | 5.549G         | 46   | 5.293G         | 47   | 5.527G         | 48   | 5.500G         |
| 49                                               | 5.585G         | 50   | 5.471G         | 51   | 5.655G         | 52   | 5.695G         |
| 53                                               | 5.707G         | 54   | 5.376G         | 55   | 5.279G         | 56   | 5.697G         |
| 57                                               | 5.693G         | 58   | 5.412G         | 59   | 5.342G         | 60   | 5.326G         |
| 61                                               | 5.699G         | 62   | 5.540G         | 63   | 5.422G         | 64   | 5.296G         |
| 65                                               | 5.388G         | 66   | 5.370G         | 67   | 5.334G         | 68   | 5.626G         |
| 69                                               | 5.601G         | 70   | 5.383G         | 71   | 5.488G         | 72   | 5.680G         |
| 73                                               | 5.426G         | 74   | 5.267G         | 75   | 5.643G         | 76   | 5.278G         |
| 77                                               | 5.714G         | 78   | 5.458G         | 79   | 5.431G         | 80   | 5.396G         |
| 81                                               | 5.372G         | 82   | 5.421G         | 83   | 5.273G         | 84   | 5.546G         |
| 85                                               | 5.620G         | 86   | 5.419G         | 87   | 5.470G         | 88   | 5.274G         |
| 89                                               | 5.300G         | 90   | 5.290G         | 91   | 5.653G         | 92   | 5.703G         |
| 93                                               | 5.395G         | 94   | 5.346G         | 95   | 5.595G         | 96   | 5.716G         |
| 97                                               | 5.297G         | 98   | 5.692G         | 99   | 5.453G         | 100  | 5.495G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.674G         | 2    | 5.326G         | 3    | 5.288G         | 4    | 5.320G         |
| 5    | 5.711G         | 6    | 5.662G         | 7    | 5.682G         | 8    | 5.460G         |
| 9    | 5.661G         | 10   | 5.566G         | 11   | 5.337G         | 12   | 5.636G         |
| 13   | 5.255G         | 14   | 5.389G         | 15   | 5.268G         | 16   | 5.257G         |
| 17   | 5.511G         | 18   | 5.410G         | 19   | 5.609G         | 20   | 5.506G         |
| 21   | 5.601G         | 22   | 5.697G         | 23   | 5.308G         | 24   | 5.577G         |
| 25   | 5.512G         | 26   | 5.310G         | 27   | 5.381G         | 28   | 5.419G         |
| 29   | 5.634G         | 30   | 5.581G         | 31   | 5.509G         | 32   | 5.282G         |
| 33   | 5.673G         | 34   | 5.514G         | 35   | 5.402G         | 36   | 5.572G         |
| 37   | 5.653G         | 38   | 5.300G         | 39   | 5.440G         | 40   | 5.307G         |
| 41   | 5.558G         | 42   | 5.420G         | 43   | 5.664G         | 44   | 5.472G         |
| 45   | 5.452G         | 46   | 5.533G         | 47   | 5.426G         | 48   | 5.586G         |
| 49   | 5.431G         | 50   | 5.309G         | 51   | 5.594G         | 52   | 5.582G         |
| 53   | 5.705G         | 54   | 5.394G         | 55   | 5.638G         | 56   | 5.713G         |
| 57   | 5.302G         | 58   | 5.372G         | 59   | 5.357G         | 60   | 5.321G         |
| 61   | 5.432G         | 62   | 5.287G         | 63   | 5.588G         | 64   | 5.424G         |
| 65   | 5.462G         | 66   | 5.600G         | 67   | 5.709G         | 68   | 5.429G         |
| 69   | 5.270G         | 70   | 5.465G         | 71   | 5.644G         | 72   | 5.439G         |
| 73   | 5.355G         | 74   | 5.344G         | 75   | 5.637G         | 76   | 5.269G         |
| 77   | 5.388G         | 78   | 5.496G         | 79   | 5.441G         | 80   | 5.680G         |
| 81   | 5.418G         | 82   | 5.650G         | 83   | 5.612G         | 84   | 5.478G         |
| 85   | 5.578G         | 86   | 5.499G         | 87   | 5.591G         | 88   | 5.502G         |
| 89   | 5.624G         | 90   | 5.414G         | 91   | 5.523G         | 92   | 5.391G         |
| 93   | 5.550G         | 94   | 5.716G         | 95   | 5.366G         | 96   | 5.280G         |
| 97   | 5.503G         | 98   | 5.421G         | 99   | 5.373G         | 100  | 5.392G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.683G         | 2    | 5.307G         | 3    | 5.640G         | 4    | 5.634G         |
| 5    | 5.620G         | 6    | 5.637G         | 7    | 5.613G         | 8    | 5.349G         |
| 9    | 5.272G         | 10   | 5.410G         | 11   | 5.713G         | 12   | 5.263G         |
| 13   | 5.569G         | 14   | 5.431G         | 15   | 5.328G         | 16   | 5.444G         |
| 17   | 5.466G         | 18   | 5.286G         | 19   | 5.554G         | 20   | 5.500G         |
| 21   | 5.345G         | 22   | 5.427G         | 23   | 5.290G         | 24   | 5.703G         |
| 25   | 5.430G         | 26   | 5.646G         | 27   | 5.697G         | 28   | 5.414G         |
| 29   | 5.567G         | 30   | 5.700G         | 31   | 5.575G         | 32   | 5.409G         |
| 33   | 5.260G         | 34   | 5.353G         | 35   | 5.344G         | 36   | 5.666G         |
| 37   | 5.502G         | 38   | 5.342G         | 39   | 5.656G         | 40   | 5.658G         |
| 41   | 5.619G         | 42   | 5.654G         | 43   | 5.355G         | 44   | 5.291G         |
| 45   | 5.301G         | 46   | 5.306G         | 47   | 5.590G         | 48   | 5.594G         |
| 49   | 5.402G         | 50   | 5.488G         | 51   | 5.621G         | 52   | 5.603G         |
| 53   | 5.266G         | 54   | 5.566G         | 55   | 5.636G         | 56   | 5.573G         |
| 57   | 5.595G         | 58   | 5.455G         | 59   | 5.445G         | 60   | 5.605G         |
| 61   | 5.368G         | 62   | 5.309G         | 63   | 5.369G         | 64   | 5.583G         |
| 65   | 5.254G         | 66   | 5.585G         | 67   | 5.718G         | 68   | 5.293G         |
| 69   | 5.520G         | 70   | 5.452G         | 71   | 5.600G         | 72   | 5.506G         |
| 73   | 5.463G         | 74   | 5.408G         | 75   | 5.365G         | 76   | 5.379G         |
| 77   | 5.626G         | 78   | 5.459G         | 79   | 5.630G         | 80   | 5.536G         |
| 81   | 5.449G         | 82   | 5.680G         | 83   | 5.357G         | 84   | 5.660G         |
| 85   | 5.396G         | 86   | 5.298G         | 87   | 5.531G         | 88   | 5.516G         |
| 89   | 5.437G         | 90   | 5.572G         | 91   | 5.657G         | 92   | 5.473G         |
| 93   | 5.598G         | 94   | 5.561G         | 95   | 5.604G         | 96   | 5.320G         |
| 97   | 5.294G         | 98   | 5.333G         | 99   | 5.670G         | 100  | 5.557G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.259G         | 2    | 5.585G         | 3    | 5.509G         | 4    | 5.397G         |
| 5                                                | 5.594G         | 6    | 5.486G         | 7    | 5.285G         | 8    | 5.679G         |
| 9                                                | 5.605G         | 10   | 5.369G         | 11   | 5.633G         | 12   | 5.512G         |
| 13                                               | 5.400G         | 14   | 5.542G         | 15   | 5.609G         | 16   | 5.318G         |
| 17                                               | 5.403G         | 18   | 5.538G         | 19   | 5.354G         | 20   | 5.439G         |
| 21                                               | 5.606G         | 22   | 5.528G         | 23   | 5.545G         | 24   | 5.513G         |
| 25                                               | 5.645G         | 26   | 5.384G         | 27   | 5.482G         | 28   | 5.577G         |
| 29                                               | 5.620G         | 30   | 5.678G         | 31   | 5.503G         | 32   | 5.279G         |
| 33                                               | 5.649G         | 34   | 5.721G         | 35   | 5.710G         | 36   | 5.266G         |
| 37                                               | 5.291G         | 38   | 5.332G         | 39   | 5.308G         | 40   | 5.382G         |
| 41                                               | 5.562G         | 42   | 5.304G         | 43   | 5.438G         | 44   | 5.319G         |
| 45                                               | 5.663G         | 46   | 5.669G         | 47   | 5.421G         | 48   | 5.270G         |
| 49                                               | 5.321G         | 50   | 5.531G         | 51   | 5.362G         | 52   | 5.399G         |
| 53                                               | 5.711G         | 54   | 5.490G         | 55   | 5.344G         | 56   | 5.589G         |
| 57                                               | 5.377G         | 58   | 5.374G         | 59   | 5.635G         | 60   | 5.343G         |
| 61                                               | 5.672G         | 62   | 5.648G         | 63   | 5.280G         | 64   | 5.553G         |
| 65                                               | 5.322G         | 66   | 5.642G         | 67   | 5.615G         | 68   | 5.626G         |
| 69                                               | 5.627G         | 70   | 5.407G         | 71   | 5.534G         | 72   | 5.688G         |
| 73                                               | 5.404G         | 74   | 5.556G         | 75   | 5.722G         | 76   | 5.353G         |
| 77                                               | 5.328G         | 78   | 5.600G         | 79   | 5.611G         | 80   | 5.485G         |
| 81                                               | 5.655G         | 82   | 5.715G         | 83   | 5.537G         | 84   | 5.361G         |
| 85                                               | 5.689G         | 86   | 5.622G         | 87   | 5.360G         | 88   | 5.436G         |
| 89                                               | 5.410G         | 90   | 5.614G         | 91   | 5.394G         | 92   | 5.723G         |
| 93                                               | 5.460G         | 94   | 5.488G         | 95   | 5.313G         | 96   | 5.379G         |
| 97                                               | 5.483G         | 98   | 5.451G         | 99   | 5.550G         | 100  | 5.349G         |

IEEE 802.11n 40MHz.

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.475G         | 2    | 5.339G         | 3    | 5.358G         | 4    | 5.480G         |
| 5                                                | 5.623G         | 6    | 5.682G         | 7    | 5.446G         | 8    | 5.471G         |
| 9                                                | 5.568G         | 10   | 5.354G         | 11   | 5.250G         | 12   | 5.271G         |
| 13                                               | 5.720G         | 14   | 5.636G         | 15   | 5.669G         | 16   | 5.561G         |
| 17                                               | 5.383G         | 18   | 5.484G         | 19   | 5.675G         | 20   | 5.419G         |
| 21                                               | 5.453G         | 22   | 5.405G         | 23   | 5.275G         | 24   | 5.377G         |
| 25                                               | 5.331G         | 26   | 5.340G         | 27   | 5.296G         | 28   | 5.334G         |
| 29                                               | 5.629G         | 30   | 5.573G         | 31   | 5.672G         | 32   | 5.444G         |
| 33                                               | 5.261G         | 34   | 5.291G         | 35   | 5.724G         | 36   | 5.540G         |
| 37                                               | 5.490G         | 38   | 5.404G         | 39   | 5.559G         | 40   | 5.259G         |
| 41                                               | 5.256G         | 42   | 5.703G         | 43   | 5.341G         | 44   | 5.461G         |
| 45                                               | 5.433G         | 46   | 5.564G         | 47   | 5.710G         | 48   | 5.268G         |
| 49                                               | 5.464G         | 50   | 5.689G         | 51   | 5.418G         | 52   | 5.281G         |
| 53                                               | 5.267G         | 54   | 5.462G         | 55   | 5.526G         | 56   | 5.396G         |
| 57                                               | 5.254G         | 58   | 5.690G         | 59   | 5.423G         | 60   | 5.425G         |
| 61                                               | 5.468G         | 62   | 5.325G         | 63   | 5.627G         | 64   | 5.719G         |
| 65                                               | 5.661G         | 66   | 5.328G         | 67   | 5.633G         | 68   | 5.315G         |
| 69                                               | 5.663G         | 70   | 5.592G         | 71   | 5.394G         | 72   | 5.386G         |
| 73                                               | 5.368G         | 74   | 5.500G         | 75   | 5.635G         | 76   | 5.571G         |
| 77                                               | 5.473G         | 78   | 5.409G         | 79   | 5.692G         | 80   | 5.620G         |
| 81                                               | 5.714G         | 82   | 5.713G         | 83   | 5.482G         | 84   | 5.715G         |
| 85                                               | 5.374G         | 86   | 5.266G         | 87   | 5.660G         | 88   | 5.605G         |
| 89                                               | 5.457G         | 90   | 5.510G         | 91   | 5.662G         | 92   | 5.709G         |
| 93                                               | 5.485G         | 94   | 5.253G         | 95   | 5.264G         | 96   | 5.385G         |
| 97                                               | 5.316G         | 98   | 5.574G         | 99   | 5.515G         | 100  | 5.343G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.326G         | 2    | 5.294G         | 3    | 5.480G         | 4    | 5.537G         |
| 5    | 5.556G         | 6    | 5.619G         | 7    | 5.471G         | 8    | 5.613G         |
| 9    | 5.456G         | 10   | 5.592G         | 11   | 5.464G         | 12   | 5.470G         |
| 13   | 5.428G         | 14   | 5.702G         | 15   | 5.436G         | 16   | 5.320G         |
| 17   | 5.416G         | 18   | 5.558G         | 19   | 5.546G         | 20   | 5.607G         |
| 21   | 5.522G         | 22   | 5.683G         | 23   | 5.585G         | 24   | 5.392G         |
| 25   | 5.540G         | 26   | 5.351G         | 27   | 5.595G         | 28   | 5.650G         |
| 29   | 5.374G         | 30   | 5.567G         | 31   | 5.465G         | 32   | 5.257G         |
| 33   | 5.646G         | 34   | 5.339G         | 35   | 5.430G         | 36   | 5.663G         |
| 37   | 5.439G         | 38   | 5.299G         | 39   | 5.677G         | 40   | 5.366G         |
| 41   | 5.671G         | 42   | 5.582G         | 43   | 5.397G         | 44   | 5.472G         |
| 45   | 5.280G         | 46   | 5.530G         | 47   | 5.306G         | 48   | 5.547G         |
| 49   | 5.560G         | 50   | 5.669G         | 51   | 5.441G         | 52   | 5.387G         |
| 53   | 5.718G         | 54   | 5.563G         | 55   | 5.389G         | 56   | 5.551G         |
| 57   | 5.445G         | 58   | 5.282G         | 59   | 5.568G         | 60   | 5.719G         |
| 61   | 5.667G         | 62   | 5.312G         | 63   | 5.302G         | 64   | 5.292G         |
| 65   | 5.525G         | 66   | 5.446G         | 67   | 5.512G         | 68   | 5.386G         |
| 69   | 5.652G         | 70   | 5.384G         | 71   | 5.596G         | 72   | 5.363G         |
| 73   | 5.434G         | 74   | 5.632G         | 75   | 5.283G         | 76   | 5.359G         |
| 77   | 5.322G         | 78   | 5.466G         | 79   | 5.703G         | 80   | 5.463G         |
| 81   | 5.520G         | 82   | 5.502G         | 83   | 5.321G         | 84   | 5.658G         |
| 85   | 5.664G         | 86   | 5.412G         | 87   | 5.518G         | 88   | 5.570G         |
| 89   | 5.536G         | 90   | 5.503G         | 91   | 5.411G         | 92   | 5.348G         |
| 93   | 5.399G         | 94   | 5.477G         | 95   | 5.285G         | 96   | 5.690G         |
| 97   | 5.263G         | 98   | 5.443G         | 99   | 5.423G         | 100  | 5.504G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.271G         | 2    | 5.363G         | 3    | 5.496G         | 4    | 5.658G         |
| 5    | 5.618G         | 6    | 5.549G         | 7    | 5.534G         | 8    | 5.444G         |
| 9    | 5.509G         | 10   | 5.438G         | 11   | 5.700G         | 12   | 5.307G         |
| 13   | 5.712G         | 14   | 5.689G         | 15   | 5.701G         | 16   | 5.319G         |
| 17   | 5.720G         | 18   | 5.622G         | 19   | 5.396G         | 20   | 5.430G         |
| 21   | 5.442G         | 22   | 5.695G         | 23   | 5.532G         | 24   | 5.624G         |
| 25   | 5.348G         | 26   | 5.709G         | 27   | 5.595G         | 28   | 5.659G         |
| 29   | 5.635G         | 30   | 5.615G         | 31   | 5.664G         | 32   | 5.447G         |
| 33   | 5.468G         | 34   | 5.377G         | 35   | 5.401G         | 36   | 5.504G         |
| 37   | 5.253G         | 38   | 5.619G         | 39   | 5.526G         | 40   | 5.636G         |
| 41   | 5.489G         | 42   | 5.587G         | 43   | 5.538G         | 44   | 5.631G         |
| 45   | 5.536G         | 46   | 5.264G         | 47   | 5.696G         | 48   | 5.341G         |
| 49   | 5.541G         | 50   | 5.483G         | 51   | 5.568G         | 52   | 5.393G         |
| 53   | 5.323G         | 54   | 5.645G         | 55   | 5.614G         | 56   | 5.582G         |
| 57   | 5.621G         | 58   | 5.451G         | 59   | 5.381G         | 60   | 5.562G         |
| 61   | 5.512G         | 62   | 5.275G         | 63   | 5.427G         | 64   | 5.482G         |
| 65   | 5.623G         | 66   | 5.585G         | 67   | 5.551G         | 68   | 5.294G         |
| 69   | 5.655G         | 70   | 5.497G         | 71   | 5.633G         | 72   | 5.306G         |
| 73   | 5.409G         | 74   | 5.714G         | 75   | 5.411G         | 76   | 5.550G         |
| 77   | 5.358G         | 78   | 5.283G         | 79   | 5.335G         | 80   | 5.554G         |
| 81   | 5.667G         | 82   | 5.580G         | 83   | 5.566G         | 84   | 5.567G         |
| 85   | 5.270G         | 86   | 5.404G         | 87   | 5.279G         | 88   | 5.464G         |
| 89   | 5.412G         | 90   | 5.303G         | 91   | 5.280G         | 92   | 5.325G         |
| 93   | 5.638G         | 94   | 5.433G         | 95   | 5.289G         | 96   | 5.641G         |
| 97   | 5.560G         | 98   | 5.459G         | 99   | 5.652G         | 100  | 5.292G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.325G         | 2    | 5.466G         | 3    | 5.350G         | 4    | 5.490G         |
| 5                                                | 5.342G         | 6    | 5.693G         | 7    | 5.697G         | 8    | 5.402G         |
| 9                                                | 5.656G         | 10   | 5.375G         | 11   | 5.328G         | 12   | 5.418G         |
| 13                                               | 5.635G         | 14   | 5.676G         | 15   | 5.390G         | 16   | 5.298G         |
| 17                                               | 5.417G         | 18   | 5.266G         | 19   | 5.293G         | 20   | 5.421G         |
| 21                                               | 5.558G         | 22   | 5.603G         | 23   | 5.271G         | 24   | 5.703G         |
| 25                                               | 5.643G         | 26   | 5.280G         | 27   | 5.501G         | 28   | 5.282G         |
| 29                                               | 5.544G         | 30   | 5.283G         | 31   | 5.663G         | 32   | 5.362G         |
| 33                                               | 5.367G         | 34   | 5.599G         | 35   | 5.335G         | 36   | 5.572G         |
| 37                                               | 5.602G         | 38   | 5.353G         | 39   | 5.471G         | 40   | 5.566G         |
| 41                                               | 5.511G         | 42   | 5.620G         | 43   | 5.327G         | 44   | 5.618G         |
| 45                                               | 5.303G         | 46   | 5.392G         | 47   | 5.465G         | 48   | 5.481G         |
| 49                                               | 5.360G         | 50   | 5.388G         | 51   | 5.523G         | 52   | 5.454G         |
| 53                                               | 5.684G         | 54   | 5.442G         | 55   | 5.400G         | 56   | 5.667G         |
| 57                                               | 5.381G         | 58   | 5.394G         | 59   | 5.531G         | 60   | 5.470G         |
| 61                                               | 5.482G         | 62   | 5.438G         | 63   | 5.534G         | 64   | 5.339G         |
| 65                                               | 5.478G         | 66   | 5.485G         | 67   | 5.548G         | 68   | 5.698G         |
| 69                                               | 5.463G         | 70   | 5.560G         | 71   | 5.630G         | 72   | 5.582G         |
| 73                                               | 5.420G         | 74   | 5.652G         | 75   | 5.289G         | 76   | 5.645G         |
| 77                                               | 5.441G         | 78   | 5.695G         | 79   | 5.655G         | 80   | 5.357G         |
| 81                                               | 5.495G         | 82   | 5.347G         | 83   | 5.653G         | 84   | 5.563G         |
| 85                                               | 5.260G         | 86   | 5.317G         | 87   | 5.704G         | 88   | 5.641G         |
| 89                                               | 5.612G         | 90   | 5.606G         | 91   | 5.678G         | 92   | 5.311G         |
| 93                                               | 5.518G         | 94   | 5.677G         | 95   | 5.474G         | 96   | 5.270G         |
| 97                                               | 5.269G         | 98   | 5.315G         | 99   | 5.412G         | 100  | 5.584G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.703G         | 2    | 5.500G         | 3    | 5.722G         | 4    | 5.724G         |
| 5                                                | 5.332G         | 6    | 5.532G         | 7    | 5.402G         | 8    | 5.451G         |
| 9                                                | 5.674G         | 10   | 5.510G         | 11   | 5.489G         | 12   | 5.437G         |
| 13                                               | 5.372G         | 14   | 5.498G         | 15   | 5.354G         | 16   | 5.625G         |
| 17                                               | 5.261G         | 18   | 5.468G         | 19   | 5.297G         | 20   | 5.634G         |
| 21                                               | 5.403G         | 22   | 5.472G         | 23   | 5.652G         | 24   | 5.410G         |
| 25                                               | 5.565G         | 26   | 5.251G         | 27   | 5.541G         | 28   | 5.399G         |
| 29                                               | 5.389G         | 30   | 5.559G         | 31   | 5.682G         | 32   | 5.522G         |
| 33                                               | 5.717G         | 34   | 5.461G         | 35   | 5.704G         | 36   | 5.295G         |
| 37                                               | 5.370G         | 38   | 5.359G         | 39   | 5.357G         | 40   | 5.631G         |
| 41                                               | 5.446G         | 42   | 5.287G         | 43   | 5.566G         | 44   | 5.271G         |
| 45                                               | 5.329G         | 46   | 5.607G         | 47   | 5.331G         | 48   | 5.464G         |
| 49                                               | 5.405G         | 50   | 5.670G         | 51   | 5.460G         | 52   | 5.380G         |
| 53                                               | 5.491G         | 54   | 5.576G         | 55   | 5.373G         | 56   | 5.406G         |
| 57                                               | 5.310G         | 58   | 5.567G         | 59   | 5.360G         | 60   | 5.623G         |
| 61                                               | 5.580G         | 62   | 5.637G         | 63   | 5.314G         | 64   | 5.688G         |
| 65                                               | 5.284G         | 66   | 5.560G         | 67   | 5.454G         | 68   | 5.505G         |
| 69                                               | 5.617G         | 70   | 5.348G         | 71   | 5.353G         | 72   | 5.264G         |
| 73                                               | 5.512G         | 74   | 5.462G         | 75   | 5.715G         | 76   | 5.337G         |
| 77                                               | 5.443G         | 78   | 5.543G         | 79   | 5.477G         | 80   | 5.269G         |
| 81                                               | 5.308G         | 82   | 5.450G         | 83   | 5.391G         | 84   | 5.361G         |
| 85                                               | 5.581G         | 86   | 5.363G         | 87   | 5.259G         | 88   | 5.604G         |
| 89                                               | 5.520G         | 90   | 5.642G         | 91   | 5.588G         | 92   | 5.673G         |
| 93                                               | 5.356G         | 94   | 5.313G         | 95   | 5.629G         | 96   | 5.612G         |
| 97                                               | 5.661G         | 98   | 5.649G         | 99   | 5.267G         | 100  | 5.381G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.415G         | 2    | 5.483G         | 3    | 5.563G         | 4    | 5.721G         |
| 5                                                | 5.586G         | 6    | 5.410G         | 7    | 5.673G         | 8    | 5.688G         |
| 9                                                | 5.275G         | 10   | 5.347G         | 11   | 5.542G         | 12   | 5.707G         |
| 13                                               | 5.370G         | 14   | 5.557G         | 15   | 5.291G         | 16   | 5.252G         |
| 17                                               | 5.568G         | 18   | 5.687G         | 19   | 5.358G         | 20   | 5.421G         |
| 21                                               | 5.360G         | 22   | 5.280G         | 23   | 5.497G         | 24   | 5.422G         |
| 25                                               | 5.541G         | 26   | 5.321G         | 27   | 5.674G         | 28   | 5.461G         |
| 29                                               | 5.320G         | 30   | 5.435G         | 31   | 5.353G         | 32   | 5.369G         |
| 33                                               | 5.693G         | 34   | 5.317G         | 35   | 5.333G         | 36   | 5.392G         |
| 37                                               | 5.606G         | 38   | 5.352G         | 39   | 5.340G         | 40   | 5.292G         |
| 41                                               | 5.343G         | 42   | 5.368G         | 43   | 5.678G         | 44   | 5.628G         |
| 45                                               | 5.524G         | 46   | 5.520G         | 47   | 5.378G         | 48   | 5.397G         |
| 49                                               | 5.690G         | 50   | 5.652G         | 51   | 5.632G         | 52   | 5.405G         |
| 53                                               | 5.591G         | 54   | 5.416G         | 55   | 5.490G         | 56   | 5.706G         |
| 57                                               | 5.585G         | 58   | 5.265G         | 59   | 5.391G         | 60   | 5.351G         |
| 61                                               | 5.500G         | 62   | 5.695G         | 63   | 5.522G         | 64   | 5.484G         |
| 65                                               | 5.364G         | 66   | 5.670G         | 67   | 5.427G         | 68   | 5.367G         |
| 69                                               | 5.328G         | 70   | 5.689G         | 71   | 5.718G         | 72   | 5.570G         |
| 73                                               | 5.299G         | 74   | 5.565G         | 75   | 5.677G         | 76   | 5.533G         |
| 77                                               | 5.481G         | 78   | 5.312G         | 79   | 5.547G         | 80   | 5.629G         |
| 81                                               | 5.348G         | 82   | 5.612G         | 83   | 5.611G         | 84   | 5.601G         |
| 85                                               | 5.285G         | 86   | 5.425G         | 87   | 5.505G         | 88   | 5.401G         |
| 89                                               | 5.656G         | 90   | 5.676G         | 91   | 5.700G         | 92   | 5.396G         |
| 93                                               | 5.412G         | 94   | 5.473G         | 95   | 5.636G         | 96   | 5.386G         |
| 97                                               | 5.267G         | 98   | 5.298G         | 99   | 5.371G         | 100  | 5.598G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.420G         | 2    | 5.488G         | 3    | 5.663G         | 4    | 5.404G         |
| 5                                                | 5.700G         | 6    | 5.682G         | 7    | 5.250G         | 8    | 5.603G         |
| 9                                                | 5.455G         | 10   | 5.461G         | 11   | 5.481G         | 12   | 5.702G         |
| 13                                               | 5.362G         | 14   | 5.405G         | 15   | 5.513G         | 16   | 5.498G         |
| 17                                               | 5.360G         | 18   | 5.255G         | 19   | 5.590G         | 20   | 5.295G         |
| 21                                               | 5.722G         | 22   | 5.613G         | 23   | 5.415G         | 24   | 5.388G         |
| 25                                               | 5.392G         | 26   | 5.351G         | 27   | 5.284G         | 28   | 5.543G         |
| 29                                               | 5.501G         | 30   | 5.364G         | 31   | 5.551G         | 32   | 5.547G         |
| 33                                               | 5.365G         | 34   | 5.688G         | 35   | 5.332G         | 36   | 5.256G         |
| 37                                               | 5.469G         | 38   | 5.628G         | 39   | 5.591G         | 40   | 5.553G         |
| 41                                               | 5.723G         | 42   | 5.581G         | 43   | 5.288G         | 44   | 5.506G         |
| 45                                               | 5.471G         | 46   | 5.704G         | 47   | 5.254G         | 48   | 5.279G         |
| 49                                               | 5.393G         | 50   | 5.549G         | 51   | 5.578G         | 52   | 5.320G         |
| 53                                               | 5.464G         | 54   | 5.355G         | 55   | 5.651G         | 56   | 5.345G         |
| 57                                               | 5.579G         | 58   | 5.634G         | 59   | 5.672G         | 60   | 5.624G         |
| 61                                               | 5.313G         | 62   | 5.476G         | 63   | 5.371G         | 64   | 5.399G         |
| 65                                               | 5.251G         | 66   | 5.716G         | 67   | 5.299G         | 68   | 5.322G         |
| 69                                               | 5.569G         | 70   | 5.395G         | 71   | 5.286G         | 72   | 5.719G         |
| 73                                               | 5.681G         | 74   | 5.446G         | 75   | 5.693G         | 76   | 5.337G         |
| 77                                               | 5.637G         | 78   | 5.718G         | 79   | 5.668G         | 80   | 5.431G         |
| 81                                               | 5.706G         | 82   | 5.655G         | 83   | 5.353G         | 84   | 5.336G         |
| 85                                               | 5.440G         | 86   | 5.363G         | 87   | 5.690G         | 88   | 5.265G         |
| 89                                               | 5.676G         | 90   | 5.644G         | 91   | 5.413G         | 92   | 5.424G         |
| 93                                               | 5.507G         | 94   | 5.409G         | 95   | 5.574G         | 96   | 5.695G         |
| 97                                               | 5.478G         | 98   | 5.627G         | 99   | 5.382G         | 100  | 5.390G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.566G         | 2    | 5.638G         | 3    | 5.382G         | 4    | 5.617G         |
| 5                                                | 5.427G         | 6    | 5.467G         | 7    | 5.459G         | 8    | 5.452G         |
| 9                                                | 5.539G         | 10   | 5.312G         | 11   | 5.260G         | 12   | 5.503G         |
| 13                                               | 5.451G         | 14   | 5.543G         | 15   | 5.551G         | 16   | 5.679G         |
| 17                                               | 5.607G         | 18   | 5.422G         | 19   | 5.471G         | 20   | 5.652G         |
| 21                                               | 5.326G         | 22   | 5.479G         | 23   | 5.359G         | 24   | 5.352G         |
| 25                                               | 5.693G         | 26   | 5.494G         | 27   | 5.673G         | 28   | 5.669G         |
| 29                                               | 5.466G         | 30   | 5.423G         | 31   | 5.281G         | 32   | 5.463G         |
| 33                                               | 5.433G         | 34   | 5.460G         | 35   | 5.483G         | 36   | 5.577G         |
| 37                                               | 5.538G         | 38   | 5.643G         | 39   | 5.399G         | 40   | 5.302G         |
| 41                                               | 5.478G         | 42   | 5.629G         | 43   | 5.362G         | 44   | 5.341G         |
| 45                                               | 5.628G         | 46   | 5.554G         | 47   | 5.317G         | 48   | 5.624G         |
| 49                                               | 5.713G         | 50   | 5.364G         | 51   | 5.661G         | 52   | 5.340G         |
| 53                                               | 5.389G         | 54   | 5.469G         | 55   | 5.305G         | 56   | 5.522G         |
| 57                                               | 5.417G         | 58   | 5.597G         | 59   | 5.386G         | 60   | 5.468G         |
| 61                                               | 5.706G         | 62   | 5.559G         | 63   | 5.255G         | 64   | 5.320G         |
| 65                                               | 5.277G         | 66   | 5.579G         | 67   | 5.273G         | 68   | 5.257G         |
| 69                                               | 5.310G         | 70   | 5.262G         | 71   | 5.677G         | 72   | 5.644G         |
| 73                                               | 5.688G         | 74   | 5.533G         | 75   | 5.641G         | 76   | 5.683G         |
| 77                                               | 5.457G         | 78   | 5.477G         | 79   | 5.612G         | 80   | 5.659G         |
| 81                                               | 5.576G         | 82   | 5.721G         | 83   | 5.414G         | 84   | 5.564G         |
| 85                                               | 5.502G         | 86   | 5.337G         | 87   | 5.334G         | 88   | 5.441G         |
| 89                                               | 5.575G         | 90   | 5.316G         | 91   | 5.393G         | 92   | 5.398G         |
| 93                                               | 5.456G         | 94   | 5.429G         | 95   | 5.431G         | 96   | 5.292G         |
| 97                                               | 5.465G         | 98   | 5.418G         | 99   | 5.356G         | 100  | 5.616G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.711G         | 2    | 5.420G         | 3    | 5.628G         | 4    | 5.257G         |
| 5                                                | 5.531G         | 6    | 5.292G         | 7    | 5.382G         | 8    | 5.273G         |
| 9                                                | 5.359G         | 10   | 5.607G         | 11   | 5.372G         | 12   | 5.682G         |
| 13                                               | 5.436G         | 14   | 5.416G         | 15   | 5.688G         | 16   | 5.665G         |
| 17                                               | 5.521G         | 18   | 5.399G         | 19   | 5.295G         | 20   | 5.580G         |
| 21                                               | 5.302G         | 22   | 5.431G         | 23   | 5.381G         | 24   | 5.668G         |
| 25                                               | 5.430G         | 26   | 5.584G         | 27   | 5.617G         | 28   | 5.326G         |
| 29                                               | 5.432G         | 30   | 5.486G         | 31   | 5.362G         | 32   | 5.554G         |
| 33                                               | 5.602G         | 34   | 5.466G         | 35   | 5.705G         | 36   | 5.440G         |
| 37                                               | 5.623G         | 38   | 5.271G         | 39   | 5.693G         | 40   | 5.551G         |
| 41                                               | 5.333G         | 42   | 5.518G         | 43   | 5.706G         | 44   | 5.487G         |
| 45                                               | 5.444G         | 46   | 5.695G         | 47   | 5.498G         | 48   | 5.272G         |
| 49                                               | 5.632G         | 50   | 5.357G         | 51   | 5.596G         | 52   | 5.408G         |
| 53                                               | 5.645G         | 54   | 5.286G         | 55   | 5.260G         | 56   | 5.250G         |
| 57                                               | 5.647G         | 58   | 5.644G         | 59   | 5.511G         | 60   | 5.291G         |
| 61                                               | 5.674G         | 62   | 5.657G         | 63   | 5.447G         | 64   | 5.482G         |
| 65                                               | 5.429G         | 66   | 5.254G         | 67   | 5.500G         | 68   | 5.265G         |
| 69                                               | 5.699G         | 70   | 5.575G         | 71   | 5.414G         | 72   | 5.305G         |
| 73                                               | 5.341G         | 74   | 5.585G         | 75   | 5.287G         | 76   | 5.338G         |
| 77                                               | 5.275G         | 78   | 5.347G         | 79   | 5.717G         | 80   | 5.403G         |
| 81                                               | 5.485G         | 82   | 5.599G         | 83   | 5.335G         | 84   | 5.517G         |
| 85                                               | 5.651G         | 86   | 5.390G         | 87   | 5.462G         | 88   | 5.650G         |
| 89                                               | 5.483G         | 90   | 5.378G         | 91   | 5.321G         | 92   | 5.707G         |
| 93                                               | 5.523G         | 94   | 5.310G         | 95   | 5.700G         | 96   | 5.597G         |
| 97                                               | 5.621G         | 98   | 5.344G         | 99   | 5.560G         | 100  | 5.639G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.627G         | 2    | 5.434G         | 3    | 5.304G         | 4    | 5.468G         |
| 5    | 5.282G         | 6    | 5.271G         | 7    | 5.571G         | 8    | 5.370G         |
| 9    | 5.511G         | 10   | 5.475G         | 11   | 5.346G         | 12   | 5.298G         |
| 13   | 5.292G         | 14   | 5.253G         | 15   | 5.620G         | 16   | 5.503G         |
| 17   | 5.359G         | 18   | 5.593G         | 19   | 5.301G         | 20   | 5.656G         |
| 21   | 5.394G         | 22   | 5.460G         | 23   | 5.392G         | 24   | 5.720G         |
| 25   | 5.482G         | 26   | 5.270G         | 27   | 5.553G         | 28   | 5.722G         |
| 29   | 5.640G         | 30   | 5.266G         | 31   | 5.330G         | 32   | 5.531G         |
| 33   | 5.705G         | 34   | 5.540G         | 35   | 5.550G         | 36   | 5.699G         |
| 37   | 5.414G         | 38   | 5.584G         | 39   | 5.679G         | 40   | 5.436G         |
| 41   | 5.272G         | 42   | 5.644G         | 43   | 5.294G         | 44   | 5.488G         |
| 45   | 5.634G         | 46   | 5.375G         | 47   | 5.502G         | 48   | 5.458G         |
| 49   | 5.665G         | 50   | 5.594G         | 51   | 5.684G         | 52   | 5.650G         |
| 53   | 5.367G         | 54   | 5.437G         | 55   | 5.341G         | 56   | 5.526G         |
| 57   | 5.275G         | 58   | 5.591G         | 59   | 5.329G         | 60   | 5.689G         |
| 61   | 5.649G         | 62   | 5.698G         | 63   | 5.721G         | 64   | 5.687G         |
| 65   | 5.555G         | 66   | 5.615G         | 67   | 5.562G         | 68   | 5.489G         |
| 69   | 5.682G         | 70   | 5.663G         | 71   | 5.469G         | 72   | 5.262G         |
| 73   | 5.498G         | 74   | 5.371G         | 75   | 5.297G         | 76   | 5.265G         |
| 77   | 5.601G         | 78   | 5.283G         | 79   | 5.585G         | 80   | 5.651G         |
| 81   | 5.554G         | 82   | 5.254G         | 83   | 5.675G         | 84   | 5.444G         |
| 85   | 5.552G         | 86   | 5.408G         | 87   | 5.612G         | 88   | 5.658G         |
| 89   | 5.349G         | 90   | 5.347G         | 91   | 5.559G         | 92   | 5.695G         |
| 93   | 5.577G         | 94   | 5.517G         | 95   | 5.446G         | 96   | 5.429G         |
| 97   | 5.500G         | 98   | 5.666G         | 99   | 5.325G         | 100  | 5.506G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.514G         | 2    | 5.565G         | 3    | 5.420G         | 4    | 5.264G         |
| 5                                                | 5.717G         | 6    | 5.678G         | 7    | 5.599G         | 8    | 5.568G         |
| 9                                                | 5.685G         | 10   | 5.705G         | 11   | 5.588G         | 12   | 5.704G         |
| 13                                               | 5.442G         | 14   | 5.525G         | 15   | 5.695G         | 16   | 5.589G         |
| 17                                               | 5.353G         | 18   | 5.491G         | 19   | 5.724G         | 20   | 5.457G         |
| 21                                               | 5.454G         | 22   | 5.719G         | 23   | 5.320G         | 24   | 5.560G         |
| 25                                               | 5.357G         | 26   | 5.647G         | 27   | 5.315G         | 28   | 5.316G         |
| 29                                               | 5.590G         | 30   | 5.714G         | 31   | 5.477G         | 32   | 5.595G         |
| 33                                               | 5.650G         | 34   | 5.723G         | 35   | 5.281G         | 36   | 5.533G         |
| 37                                               | 5.495G         | 38   | 5.289G         | 39   | 5.476G         | 40   | 5.670G         |
| 41                                               | 5.661G         | 42   | 5.505G         | 43   | 5.349G         | 44   | 5.326G         |
| 45                                               | 5.511G         | 46   | 5.540G         | 47   | 5.449G         | 48   | 5.284G         |
| 49                                               | 5.465G         | 50   | 5.302G         | 51   | 5.466G         | 52   | 5.318G         |
| 53                                               | 5.369G         | 54   | 5.606G         | 55   | 5.436G         | 56   | 5.356G         |
| 57                                               | 5.585G         | 58   | 5.480G         | 59   | 5.697G         | 60   | 5.331G         |
| 61                                               | 5.372G         | 62   | 5.295G         | 63   | 5.430G         | 64   | 5.429G         |
| 65                                               | 5.597G         | 66   | 5.346G         | 67   | 5.277G         | 68   | 5.503G         |
| 69                                               | 5.340G         | 70   | 5.275G         | 71   | 5.621G         | 72   | 5.403G         |
| 73                                               | 5.570G         | 74   | 5.328G         | 75   | 5.431G         | 76   | 5.400G         |
| 77                                               | 5.464G         | 78   | 5.660G         | 79   | 5.426G         | 80   | 5.569G         |
| 81                                               | 5.644G         | 82   | 5.337G         | 83   | 5.500G         | 84   | 5.556G         |
| 85                                               | 5.299G         | 86   | 5.561G         | 87   | 5.257G         | 88   | 5.440G         |
| 89                                               | 5.649G         | 90   | 5.627G         | 91   | 5.487G         | 92   | 5.526G         |
| 93                                               | 5.309G         | 94   | 5.390G         | 95   | 5.333G         | 96   | 5.398G         |
| 97                                               | 5.531G         | 98   | 5.397G         | 99   | 5.609G         | 100  | 5.679G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.485G         | 2    | 5.480G         | 3    | 5.308G         | 4    | 5.390G         |
| 5                                                | 5.484G         | 6    | 5.710G         | 7    | 5.644G         | 8    | 5.543G         |
| 9                                                | 5.292G         | 10   | 5.331G         | 11   | 5.540G         | 12   | 5.381G         |
| 13                                               | 5.582G         | 14   | 5.408G         | 15   | 5.486G         | 16   | 5.291G         |
| 17                                               | 5.320G         | 18   | 5.259G         | 19   | 5.281G         | 20   | 5.535G         |
| 21                                               | 5.714G         | 22   | 5.523G         | 23   | 5.514G         | 24   | 5.300G         |
| 25                                               | 5.593G         | 26   | 5.284G         | 27   | 5.266G         | 28   | 5.338G         |
| 29                                               | 5.489G         | 30   | 5.610G         | 31   | 5.568G         | 32   | 5.456G         |
| 33                                               | 5.673G         | 34   | 5.410G         | 35   | 5.721G         | 36   | 5.709G         |
| 37                                               | 5.305G         | 38   | 5.716G         | 39   | 5.681G         | 40   | 5.260G         |
| 41                                               | 5.328G         | 42   | 5.425G         | 43   | 5.678G         | 44   | 5.656G         |
| 45                                               | 5.524G         | 46   | 5.388G         | 47   | 5.694G         | 48   | 5.395G         |
| 49                                               | 5.346G         | 50   | 5.529G         | 51   | 5.315G         | 52   | 5.482G         |
| 53                                               | 5.554G         | 54   | 5.453G         | 55   | 5.378G         | 56   | 5.458G         |
| 57                                               | 5.703G         | 58   | 5.371G         | 59   | 5.488G         | 60   | 5.649G         |
| 61                                               | 5.406G         | 62   | 5.510G         | 63   | 5.548G         | 64   | 5.314G         |
| 65                                               | 5.623G         | 66   | 5.335G         | 67   | 5.584G         | 68   | 5.443G         |
| 69                                               | 5.664G         | 70   | 5.429G         | 71   | 5.313G         | 72   | 5.520G         |
| 73                                               | 5.538G         | 74   | 5.504G         | 75   | 5.500G         | 76   | 5.682G         |
| 77                                               | 5.624G         | 78   | 5.633G         | 79   | 5.580G         | 80   | 5.560G         |
| 81                                               | 5.330G         | 82   | 5.444G         | 83   | 5.626G         | 84   | 5.307G         |
| 85                                               | 5.654G         | 86   | 5.267G         | 87   | 5.412G         | 88   | 5.651G         |
| 89                                               | 5.459G         | 90   | 5.690G         | 91   | 5.455G         | 92   | 5.257G         |
| 93                                               | 5.571G         | 94   | 5.441G         | 95   | 5.602G         | 96   | 5.474G         |
| 97                                               | 5.329G         | 98   | 5.318G         | 99   | 5.447G         | 100  | 5.404G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.580G         | 2    | 5.540G         | 3    | 5.602G         | 4    | 5.572G         |
| 5    | 5.636G         | 6    | 5.596G         | 7    | 5.368G         | 8    | 5.608G         |
| 9    | 5.307G         | 10   | 5.494G         | 11   | 5.552G         | 12   | 5.544G         |
| 13   | 5.413G         | 14   | 5.642G         | 15   | 5.318G         | 16   | 5.522G         |
| 17   | 5.312G         | 18   | 5.416G         | 19   | 5.695G         | 20   | 5.651G         |
| 21   | 5.477G         | 22   | 5.594G         | 23   | 5.630G         | 24   | 5.643G         |
| 25   | 5.514G         | 26   | 5.265G         | 27   | 5.536G         | 28   | 5.491G         |
| 29   | 5.718G         | 30   | 5.479G         | 31   | 5.449G         | 32   | 5.411G         |
| 33   | 5.495G         | 34   | 5.433G         | 35   | 5.681G         | 36   | 5.541G         |
| 37   | 5.289G         | 38   | 5.364G         | 39   | 5.275G         | 40   | 5.308G         |
| 41   | 5.304G         | 42   | 5.570G         | 43   | 5.417G         | 44   | 5.635G         |
| 45   | 5.545G         | 46   | 5.513G         | 47   | 5.335G         | 48   | 5.721G         |
| 49   | 5.297G         | 50   | 5.476G         | 51   | 5.317G         | 52   | 5.724G         |
| 53   | 5.360G         | 54   | 5.393G         | 55   | 5.254G         | 56   | 5.571G         |
| 57   | 5.490G         | 58   | 5.675G         | 59   | 5.305G         | 60   | 5.566G         |
| 61   | 5.653G         | 62   | 5.434G         | 63   | 5.370G         | 64   | 5.480G         |
| 65   | 5.569G         | 66   | 5.709G         | 67   | 5.377G         | 68   | 5.455G         |
| 69   | 5.723G         | 70   | 5.550G         | 71   | 5.435G         | 72   | 5.330G         |
| 73   | 5.296G         | 74   | 5.627G         | 75   | 5.284G         | 76   | 5.353G         |
| 77   | 5.670G         | 78   | 5.686G         | 79   | 5.652G         | 80   | 5.517G         |
| 81   | 5.555G         | 82   | 5.485G         | 83   | 5.700G         | 84   | 5.273G         |
| 85   | 5.291G         | 86   | 5.332G         | 87   | 5.685G         | 88   | 5.371G         |
| 89   | 5.689G         | 90   | 5.292G         | 91   | 5.613G         | 92   | 5.530G         |
| 93   | 5.427G         | 94   | 5.578G         | 95   | 5.403G         | 96   | 5.457G         |
| 97   | 5.369G         | 98   | 5.644G         | 99   | 5.469G         | 100  | 5.556G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.606G         | 2    | 5.521G         | 3    | 5.343G         | 4    | 5.559G         |
| 5                                                | 5.638G         | 6    | 5.412G         | 7    | 5.705G         | 8    | 5.504G         |
| 9                                                | 5.611G         | 10   | 5.614G         | 11   | 5.362G         | 12   | 5.491G         |
| 13                                               | 5.431G         | 14   | 5.679G         | 15   | 5.474G         | 16   | 5.576G         |
| 17                                               | 5.555G         | 18   | 5.296G         | 19   | 5.465G         | 20   | 5.607G         |
| 21                                               | 5.597G         | 22   | 5.613G         | 23   | 5.591G         | 24   | 5.419G         |
| 25                                               | 5.294G         | 26   | 5.336G         | 27   | 5.316G         | 28   | 5.434G         |
| 29                                               | 5.323G         | 30   | 5.654G         | 31   | 5.695G         | 32   | 5.449G         |
| 33                                               | 5.512G         | 34   | 5.685G         | 35   | 5.628G         | 36   | 5.545G         |
| 37                                               | 5.288G         | 38   | 5.553G         | 39   | 5.271G         | 40   | 5.365G         |
| 41                                               | 5.589G         | 42   | 5.715G         | 43   | 5.609G         | 44   | 5.258G         |
| 45                                               | 5.690G         | 46   | 5.269G         | 47   | 5.713G         | 48   | 5.461G         |
| 49                                               | 5.334G         | 50   | 5.264G         | 51   | 5.617G         | 52   | 5.444G         |
| 53                                               | 5.395G         | 54   | 5.391G         | 55   | 5.425G         | 56   | 5.405G         |
| 57                                               | 5.270G         | 58   | 5.686G         | 59   | 5.689G         | 60   | 5.348G         |
| 61                                               | 5.471G         | 62   | 5.287G         | 63   | 5.312G         | 64   | 5.719G         |
| 65                                               | 5.582G         | 66   | 5.413G         | 67   | 5.596G         | 68   | 5.642G         |
| 69                                               | 5.531G         | 70   | 5.385G         | 71   | 5.567G         | 72   | 5.475G         |
| 73                                               | 5.447G         | 74   | 5.308G         | 75   | 5.476G         | 76   | 5.402G         |
| 77                                               | 5.483G         | 78   | 5.550G         | 79   | 5.267G         | 80   | 5.342G         |
| 81                                               | 5.605G         | 82   | 5.639G         | 83   | 5.416G         | 84   | 5.290G         |
| 85                                               | 5.525G         | 86   | 5.353G         | 87   | 5.675G         | 88   | 5.649G         |
| 89                                               | 5.563G         | 90   | 5.676G         | 91   | 5.547G         | 92   | 5.711G         |
| 93                                               | 5.593G         | 94   | 5.262G         | 95   | 5.473G         | 96   | 5.513G         |
| 97                                               | 5.502G         | 98   | 5.305G         | 99   | 5.634G         | 100  | 5.328G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.260G         | 2    | 5.546G         | 3    | 5.471G         | 4    | 5.581G         |
| 5    | 5.623G         | 6    | 5.688G         | 7    | 5.714G         | 8    | 5.543G         |
| 9    | 5.269G         | 10   | 5.595G         | 11   | 5.538G         | 12   | 5.697G         |
| 13   | 5.616G         | 14   | 5.259G         | 15   | 5.359G         | 16   | 5.334G         |
| 17   | 5.630G         | 18   | 5.438G         | 19   | 5.517G         | 20   | 5.434G         |
| 21   | 5.301G         | 22   | 5.297G         | 23   | 5.388G         | 24   | 5.716G         |
| 25   | 5.573G         | 26   | 5.391G         | 27   | 5.371G         | 28   | 5.515G         |
| 29   | 5.336G         | 30   | 5.663G         | 31   | 5.316G         | 32   | 5.631G         |
| 33   | 5.572G         | 34   | 5.257G         | 35   | 5.720G         | 36   | 5.533G         |
| 37   | 5.404G         | 38   | 5.591G         | 39   | 5.513G         | 40   | 5.712G         |
| 41   | 5.428G         | 42   | 5.701G         | 43   | 5.640G         | 44   | 5.496G         |
| 45   | 5.442G         | 46   | 5.396G         | 47   | 5.708G         | 48   | 5.450G         |
| 49   | 5.256G         | 50   | 5.427G         | 51   | 5.550G         | 52   | 5.300G         |
| 53   | 5.399G         | 54   | 5.647G         | 55   | 5.366G         | 56   | 5.407G         |
| 57   | 5.692G         | 58   | 5.639G         | 59   | 5.312G         | 60   | 5.654G         |
| 61   | 5.502G         | 62   | 5.512G         | 63   | 5.418G         | 64   | 5.413G         |
| 65   | 5.479G         | 66   | 5.689G         | 67   | 5.602G         | 68   | 5.315G         |
| 69   | 5.609G         | 70   | 5.700G         | 71   | 5.439G         | 72   | 5.611G         |
| 73   | 5.261G         | 74   | 5.633G         | 75   | 5.718G         | 76   | 5.713G         |
| 77   | 5.545G         | 78   | 5.516G         | 79   | 5.382G         | 80   | 5.503G         |
| 81   | 5.400G         | 82   | 5.410G         | 83   | 5.588G         | 84   | 5.494G         |
| 85   | 5.620G         | 86   | 5.381G         | 87   | 5.574G         | 88   | 5.322G         |
| 89   | 5.519G         | 90   | 5.540G         | 91   | 5.570G         | 92   | 5.673G         |
| 93   | 5.279G         | 94   | 5.659G         | 95   | 5.681G         | 96   | 5.694G         |
| 97   | 5.612G         | 98   | 5.397G         | 99   | 5.710G         | 100  | 5.715G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.361G         | 2    | 5.550G         | 3    | 5.474G         | 4    | 5.336G         |
| 5    | 5.541G         | 6    | 5.307G         | 7    | 5.318G         | 8    | 5.712G         |
| 9    | 5.403G         | 10   | 5.426G         | 11   | 5.281G         | 12   | 5.716G         |
| 13   | 5.705G         | 14   | 5.394G         | 15   | 5.357G         | 16   | 5.679G         |
| 17   | 5.495G         | 18   | 5.561G         | 19   | 5.584G         | 20   | 5.615G         |
| 21   | 5.341G         | 22   | 5.549G         | 23   | 5.469G         | 24   | 5.514G         |
| 25   | 5.526G         | 26   | 5.381G         | 27   | 5.397G         | 28   | 5.393G         |
| 29   | 5.711G         | 30   | 5.267G         | 31   | 5.326G         | 32   | 5.395G         |
| 33   | 5.280G         | 34   | 5.313G         | 35   | 5.553G         | 36   | 5.315G         |
| 37   | 5.261G         | 38   | 5.586G         | 39   | 5.351G         | 40   | 5.678G         |
| 41   | 5.290G         | 42   | 5.419G         | 43   | 5.438G         | 44   | 5.677G         |
| 45   | 5.314G         | 46   | 5.724G         | 47   | 5.435G         | 48   | 5.450G         |
| 49   | 5.305G         | 50   | 5.571G         | 51   | 5.687G         | 52   | 5.443G         |
| 53   | 5.272G         | 54   | 5.683G         | 55   | 5.468G         | 56   | 5.613G         |
| 57   | 5.379G         | 58   | 5.363G         | 59   | 5.410G         | 60   | 5.669G         |
| 61   | 5.688G         | 62   | 5.612G         | 63   | 5.564G         | 64   | 5.505G         |
| 65   | 5.509G         | 66   | 5.444G         | 67   | 5.596G         | 68   | 5.286G         |
| 69   | 5.264G         | 70   | 5.652G         | 71   | 5.392G         | 72   | 5.358G         |
| 73   | 5.535G         | 74   | 5.355G         | 75   | 5.399G         | 76   | 5.479G         |
| 77   | 5.278G         | 78   | 5.464G         | 79   | 5.344G         | 80   | 5.595G         |
| 81   | 5.340G         | 82   | 5.486G         | 83   | 5.412G         | 84   | 5.401G         |
| 85   | 5.579G         | 86   | 5.568G         | 87   | 5.544G         | 88   | 5.570G         |
| 89   | 5.668G         | 90   | 5.253G         | 91   | 5.518G         | 92   | 5.634G         |
| 93   | 5.371G         | 94   | 5.650G         | 95   | 5.521G         | 96   | 5.583G         |
| 97   | 5.451G         | 98   | 5.537G         | 99   | 5.666G         | 100  | 5.268G         |



| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.405G         | 2    | 5.450G         | 3    | 5.434G         | 4    | 5.522G         |
| 5                                                | 5.561G         | 6    | 5.454G         | 7    | 5.322G         | 8    | 5.401G         |
| 9                                                | 5.681G         | 10   | 5.508G         | 11   | 5.274G         | 12   | 5.418G         |
| 13                                               | 5.309G         | 14   | 5.652G         | 15   | 5.666G         | 16   | 5.498G         |
| 17                                               | 5.711G         | 18   | 5.420G         | 19   | 5.540G         | 20   | 5.575G         |
| 21                                               | 5.536G         | 22   | 5.316G         | 23   | 5.421G         | 24   | 5.596G         |
| 25                                               | 5.657G         | 26   | 5.691G         | 27   | 5.437G         | 28   | 5.629G         |
| 29                                               | 5.621G         | 30   | 5.648G         | 31   | 5.334G         | 32   | 5.307G         |
| 33                                               | 5.478G         | 34   | 5.565G         | 35   | 5.590G         | 36   | 5.667G         |
| 37                                               | 5.604G         | 38   | 5.331G         | 39   | 5.680G         | 40   | 5.327G         |
| 41                                               | 5.570G         | 42   | 5.312G         | 43   | 5.336G         | 44   | 5.704G         |
| 45                                               | 5.445G         | 46   | 5.545G         | 47   | 5.290G         | 48   | 5.384G         |
| 49                                               | 5.651G         | 50   | 5.392G         | 51   | 5.595G         | 52   | 5.354G         |
| 53                                               | 5.608G         | 54   | 5.675G         | 55   | 5.303G         | 56   | 5.425G         |
| 57                                               | 5.636G         | 58   | 5.363G         | 59   | 5.682G         | 60   | 5.264G         |
| 61                                               | 5.562G         | 62   | 5.705G         | 63   | 5.533G         | 64   | 5.475G         |
| 65                                               | 5.722G         | 66   | 5.694G         | 67   | 5.723G         | 68   | 5.626G         |
| 69                                               | 5.413G         | 70   | 5.266G         | 71   | 5.674G         | 72   | 5.342G         |
| 73                                               | 5.653G         | 74   | 5.668G         | 75   | 5.618G         | 76   | 5.558G         |
| 77                                               | 5.310G         | 78   | 5.325G         | 79   | 5.358G         | 80   | 5.605G         |
| 81                                               | 5.332G         | 82   | 5.318G         | 83   | 5.267G         | 84   | 5.295G         |
| 85                                               | 5.661G         | 86   | 5.485G         | 87   | 5.357G         | 88   | 5.556G         |
| 89                                               | 5.581G         | 90   | 5.535G         | 91   | 5.521G         | 92   | 5.292G         |
| 93                                               | 5.489G         | 94   | 5.317G         | 95   | 5.703G         | 96   | 5.693G         |
| 97                                               | 5.349G         | 98   | 5.250G         | 99   | 5.665G         | 100  | 5.717G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.524G         | 2    | 5.516G         | 3    | 5.508G         | 4    | 5.626G         |
| 5                                                | 5.614G         | 6    | 5.518G         | 7    | 5.402G         | 8    | 5.613G         |
| 9                                                | 5.644G         | 10   | 5.560G         | 11   | 5.269G         | 12   | 5.396G         |
| 13                                               | 5.551G         | 14   | 5.645G         | 15   | 5.723G         | 16   | 5.678G         |
| 17                                               | 5.650G         | 18   | 5.573G         | 19   | 5.314G         | 20   | 5.533G         |
| 21                                               | 5.258G         | 22   | 5.382G         | 23   | 5.538G         | 24   | 5.681G         |
| 25                                               | 5.570G         | 26   | 5.587G         | 27   | 5.307G         | 28   | 5.557G         |
| 29                                               | 5.639G         | 30   | 5.539G         | 31   | 5.388G         | 32   | 5.545G         |
| 33                                               | 5.651G         | 34   | 5.674G         | 35   | 5.255G         | 36   | 5.393G         |
| 37                                               | 5.412G         | 38   | 5.510G         | 39   | 5.474G         | 40   | 5.471G         |
| 41                                               | 5.274G         | 42   | 5.668G         | 43   | 5.520G         | 44   | 5.535G         |
| 45                                               | 5.253G         | 46   | 5.407G         | 47   | 5.540G         | 48   | 5.415G         |
| 49                                               | 5.631G         | 50   | 5.271G         | 51   | 5.320G         | 52   | 5.416G         |
| 53                                               | 5.588G         | 54   | 5.489G         | 55   | 5.582G         | 56   | 5.447G         |
| 57                                               | 5.625G         | 58   | 5.503G         | 59   | 5.463G         | 60   | 5.453G         |
| 61                                               | 5.655G         | 62   | 5.450G         | 63   | 5.665G         | 64   | 5.680G         |
| 65                                               | 5.642G         | 66   | 5.273G         | 67   | 5.290G         | 68   | 5.710G         |
| 69                                               | 5.669G         | 70   | 5.718G         | 71   | 5.477G         | 72   | 5.483G         |
| 73                                               | 5.267G         | 74   | 5.523G         | 75   | 5.673G         | 76   | 5.580G         |
| 77                                               | 5.254G         | 78   | 5.521G         | 79   | 5.417G         | 80   | 5.601G         |
| 81                                               | 5.424G         | 82   | 5.568G         | 83   | 5.466G         | 84   | 5.563G         |
| 85                                               | 5.403G         | 86   | 5.261G         | 87   | 5.604G         | 88   | 5.591G         |
| 89                                               | 5.712G         | 90   | 5.553G         | 91   | 5.529G         | 92   | 5.330G         |
| 93                                               | 5.720G         | 94   | 5.409G         | 95   | 5.598G         | 96   | 5.663G         |
| 97                                               | 5.715G         | 98   | 5.561G         | 99   | 5.607G         | 100  | 5.517G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.714G         | 2    | 5.522G         | 3    | 5.406G         | 4    | 5.690G         |
| 5    | 5.389G         | 6    | 5.295G         | 7    | 5.300G         | 8    | 5.385G         |
| 9    | 5.330G         | 10   | 5.719G         | 11   | 5.278G         | 12   | 5.691G         |
| 13   | 5.298G         | 14   | 5.626G         | 15   | 5.441G         | 16   | 5.565G         |
| 17   | 5.370G         | 18   | 5.397G         | 19   | 5.398G         | 20   | 5.326G         |
| 21   | 5.315G         | 22   | 5.616G         | 23   | 5.516G         | 24   | 5.546G         |
| 25   | 5.603G         | 26   | 5.645G         | 27   | 5.451G         | 28   | 5.374G         |
| 29   | 5.573G         | 30   | 5.684G         | 31   | 5.393G         | 32   | 5.447G         |
| 33   | 5.419G         | 34   | 5.709G         | 35   | 5.585G         | 36   | 5.427G         |
| 37   | 5.554G         | 38   | 5.394G         | 39   | 5.325G         | 40   | 5.621G         |
| 41   | 5.620G         | 42   | 5.557G         | 43   | 5.327G         | 44   | 5.277G         |
| 45   | 5.570G         | 46   | 5.494G         | 47   | 5.581G         | 48   | 5.474G         |
| 49   | 5.358G         | 50   | 5.448G         | 51   | 5.532G         | 52   | 5.612G         |
| 53   | 5.648G         | 54   | 5.711G         | 55   | 5.332G         | 56   | 5.348G         |
| 57   | 5.415G         | 58   | 5.723G         | 59   | 5.268G         | 60   | 5.442G         |
| 61   | 5.533G         | 62   | 5.460G         | 63   | 5.515G         | 64   | 5.305G         |
| 65   | 5.375G         | 66   | 5.439G         | 67   | 5.407G         | 68   | 5.301G         |
| 69   | 5.302G         | 70   | 5.702G         | 71   | 5.417G         | 72   | 5.505G         |
| 73   | 5.504G         | 74   | 5.679G         | 75   | 5.722G         | 76   | 5.605G         |
| 77   | 5.523G         | 78   | 5.517G         | 79   | 5.338G         | 80   | 5.617G         |
| 81   | 5.383G         | 82   | 5.594G         | 83   | 5.710G         | 84   | 5.630G         |
| 85   | 5.309G         | 86   | 5.400G         | 87   | 5.688G         | 88   | 5.543G         |
| 89   | 5.432G         | 90   | 5.307G         | 91   | 5.582G         | 92   | 5.409G         |
| 93   | 5.423G         | 94   | 5.485G         | 95   | 5.254G         | 96   | 5.488G         |
| 97   | 5.724G         | 98   | 5.413G         | 99   | 5.587G         | 100  | 5.405G         |





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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.413G         | 2    | 5.645G         | 3    | 5.618G         | 4    | 5.603G         |
| 5    | 5.534G         | 6    | 5.349G         | 7    | 5.573G         | 8    | 5.512G         |
| 9    | 5.511G         | 10   | 5.637G         | 11   | 5.577G         | 12   | 5.250G         |
| 13   | 5.721G         | 14   | 5.336G         | 15   | 5.446G         | 16   | 5.562G         |
| 17   | 5.566G         | 18   | 5.626G         | 19   | 5.470G         | 20   | 5.558G         |
| 21   | 5.643G         | 22   | 5.355G         | 23   | 5.553G         | 24   | 5.723G         |
| 25   | 5.305G         | 26   | 5.716G         | 27   | 5.652G         | 28   | 5.369G         |
| 29   | 5.525G         | 30   | 5.709G         | 31   | 5.544G         | 32   | 5.529G         |
| 33   | 5.489G         | 34   | 5.325G         | 35   | 5.599G         | 36   | 5.381G         |
| 37   | 5.687G         | 38   | 5.390G         | 39   | 5.371G         | 40   | 5.666G         |
| 41   | 5.318G         | 42   | 5.686G         | 43   | 5.376G         | 44   | 5.466G         |
| 45   | 5.624G         | 46   | 5.522G         | 47   | 5.477G         | 48   | 5.554G         |
| 49   | 5.357G         | 50   | 5.587G         | 51   | 5.535G         | 52   | 5.694G         |
| 53   | 5.367G         | 54   | 5.463G         | 55   | 5.693G         | 56   | 5.284G         |
| 57   | 5.696G         | 58   | 5.255G         | 59   | 5.436G         | 60   | 5.256G         |
| 61   | 5.689G         | 62   | 5.595G         | 63   | 5.292G         | 64   | 5.712G         |
| 65   | 5.516G         | 66   | 5.421G         | 67   | 5.383G         | 68   | 5.644G         |
| 69   | 5.345G         | 70   | 5.327G         | 71   | 5.366G         | 72   | 5.276G         |
| 73   | 5.326G         | 74   | 5.409G         | 75   | 5.596G         | 76   | 5.719G         |
| 77   | 5.517G         | 78   | 5.322G         | 79   | 5.636G         | 80   | 5.476G         |
| 81   | 5.510G         | 82   | 5.665G         | 83   | 5.353G         | 84   | 5.306G         |
| 85   | 5.678G         | 86   | 5.315G         | 87   | 5.638G         | 88   | 5.386G         |
| 89   | 5.491G         | 90   | 5.319G         | 91   | 5.420G         | 92   | 5.653G         |
| 93   | 5.713G         | 94   | 5.714G         | 95   | 5.333G         | 96   | 5.338G         |
| 97   | 5.520G         | 98   | 5.551G         | 99   | 5.457G         | 100  | 5.467G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.596G         | 2    | 5.297G         | 3    | 5.559G         | 4    | 5.701G         |
| 5                                                | 5.457G         | 6    | 5.607G         | 7    | 5.285G         | 8    | 5.319G         |
| 9                                                | 5.369G         | 10   | 5.705G         | 11   | 5.378G         | 12   | 5.303G         |
| 13                                               | 5.360G         | 14   | 5.539G         | 15   | 5.581G         | 16   | 5.408G         |
| 17                                               | 5.257G         | 18   | 5.311G         | 19   | 5.718G         | 20   | 5.331G         |
| 21                                               | 5.316G         | 22   | 5.616G         | 23   | 5.489G         | 24   | 5.374G         |
| 25                                               | 5.599G         | 26   | 5.639G         | 27   | 5.512G         | 28   | 5.337G         |
| 29                                               | 5.436G         | 30   | 5.406G         | 31   | 5.372G         | 32   | 5.497G         |
| 33                                               | 5.259G         | 34   | 5.572G         | 35   | 5.522G         | 36   | 5.696G         |
| 37                                               | 5.712G         | 38   | 5.629G         | 39   | 5.603G         | 40   | 5.330G         |
| 41                                               | 5.263G         | 42   | 5.434G         | 43   | 5.394G         | 44   | 5.387G         |
| 45                                               | 5.665G         | 46   | 5.353G         | 47   | 5.332G         | 48   | 5.358G         |
| 49                                               | 5.468G         | 50   | 5.379G         | 51   | 5.515G         | 52   | 5.413G         |
| 53                                               | 5.491G         | 54   | 5.585G         | 55   | 5.261G         | 56   | 5.317G         |
| 57                                               | 5.678G         | 58   | 5.615G         | 59   | 5.443G         | 60   | 5.648G         |
| 61                                               | 5.397G         | 62   | 5.284G         | 63   | 5.694G         | 64   | 5.501G         |
| 65                                               | 5.251G         | 66   | 5.415G         | 67   | 5.683G         | 68   | 5.509G         |
| 69                                               | 5.409G         | 70   | 5.393G         | 71   | 5.300G         | 72   | 5.647G         |
| 73                                               | 5.626G         | 74   | 5.494G         | 75   | 5.362G         | 76   | 5.556G         |
| 77                                               | 5.324G         | 78   | 5.566G         | 79   | 5.357G         | 80   | 5.328G         |
| 81                                               | 5.403G         | 82   | 5.389G         | 83   | 5.334G         | 84   | 5.514G         |
| 85                                               | 5.549G         | 86   | 5.390G         | 87   | 5.598G         | 88   | 5.274G         |
| 89                                               | 5.499G         | 90   | 5.346G         | 91   | 5.708G         | 92   | 5.548G         |
| 93                                               | 5.564G         | 94   | 5.404G         | 95   | 5.589G         | 96   | 5.473G         |
| 97                                               | 5.453G         | 98   | 5.275G         | 99   | 5.450G         | 100  | 5.583G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.571G         | 2    | 5.613G         | 3    | 5.348G         | 4    | 5.395G         |
| 5                                                | 5.698G         | 6    | 5.293G         | 7    | 5.333G         | 8    | 5.317G         |
| 9                                                | 5.506G         | 10   | 5.555G         | 11   | 5.548G         | 12   | 5.576G         |
| 13                                               | 5.338G         | 14   | 5.596G         | 15   | 5.257G         | 16   | 5.446G         |
| 17                                               | 5.461G         | 18   | 5.707G         | 19   | 5.440G         | 20   | 5.464G         |
| 21                                               | 5.437G         | 22   | 5.508G         | 23   | 5.538G         | 24   | 5.387G         |
| 25                                               | 5.694G         | 26   | 5.520G         | 27   | 5.304G         | 28   | 5.330G         |
| 29                                               | 5.504G         | 30   | 5.408G         | 31   | 5.503G         | 32   | 5.640G         |
| 33                                               | 5.545G         | 34   | 5.609G         | 35   | 5.410G         | 36   | 5.641G         |
| 37                                               | 5.282G         | 38   | 5.432G         | 39   | 5.565G         | 40   | 5.483G         |
| 41                                               | 5.614G         | 42   | 5.466G         | 43   | 5.680G         | 44   | 5.524G         |
| 45                                               | 5.444G         | 46   | 5.500G         | 47   | 5.569G         | 48   | 5.642G         |
| 49                                               | 5.577G         | 50   | 5.522G         | 51   | 5.679G         | 52   | 5.693G         |
| 53                                               | 5.252G         | 54   | 5.495G         | 55   | 5.713G         | 56   | 5.378G         |
| 57                                               | 5.313G         | 58   | 5.634G         | 59   | 5.676G         | 60   | 5.671G         |
| 61                                               | 5.643G         | 62   | 5.422G         | 63   | 5.363G         | 64   | 5.335G         |
| 65                                               | 5.711G         | 66   | 5.491G         | 67   | 5.390G         | 68   | 5.591G         |
| 69                                               | 5.260G         | 70   | 5.463G         | 71   | 5.605G         | 72   | 5.401G         |
| 73                                               | 5.631G         | 74   | 5.623G         | 75   | 5.705G         | 76   | 5.370G         |
| 77                                               | 5.696G         | 78   | 5.287G         | 79   | 5.425G         | 80   | 5.717G         |
| 81                                               | 5.655G         | 82   | 5.627G         | 83   | 5.553G         | 84   | 5.715G         |
| 85                                               | 5.339G         | 86   | 5.449G         | 87   | 5.328G         | 88   | 5.660G         |
| 89                                               | 5.519G         | 90   | 5.507G         | 91   | 5.353G         | 92   | 5.559G         |
| 93                                               | 5.526G         | 94   | 5.572G         | 95   | 5.606G         | 96   | 5.266G         |
| 97                                               | 5.691G         | 98   | 5.516G         | 99   | 5.274G         | 100  | 5.677G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.690G         | 2    | 5.304G         | 3    | 5.303G         | 4    | 5.665G         |
| 5    | 5.569G         | 6    | 5.555G         | 7    | 5.638G         | 8    | 5.469G         |
| 9    | 5.373G         | 10   | 5.486G         | 11   | 5.326G         | 12   | 5.655G         |
| 13   | 5.345G         | 14   | 5.509G         | 15   | 5.617G         | 16   | 5.487G         |
| 17   | 5.654G         | 18   | 5.579G         | 19   | 5.255G         | 20   | 5.596G         |
| 21   | 5.643G         | 22   | 5.583G         | 23   | 5.464G         | 24   | 5.281G         |
| 25   | 5.336G         | 26   | 5.257G         | 27   | 5.305G         | 28   | 5.581G         |
| 29   | 5.335G         | 30   | 5.674G         | 31   | 5.649G         | 32   | 5.605G         |
| 33   | 5.280G         | 34   | 5.512G         | 35   | 5.296G         | 36   | 5.331G         |
| 37   | 5.721G         | 38   | 5.692G         | 39   | 5.563G         | 40   | 5.405G         |
| 41   | 5.264G         | 42   | 5.616G         | 43   | 5.609G         | 44   | 5.591G         |
| 45   | 5.385G         | 46   | 5.327G         | 47   | 5.295G         | 48   | 5.325G         |
| 49   | 5.453G         | 50   | 5.349G         | 51   | 5.586G         | 52   | 5.500G         |
| 53   | 5.412G         | 54   | 5.322G         | 55   | 5.499G         | 56   | 5.356G         |
| 57   | 5.311G         | 58   | 5.683G         | 59   | 5.272G         | 60   | 5.339G         |
| 61   | 5.522G         | 62   | 5.524G         | 63   | 5.408G         | 64   | 5.715G         |
| 65   | 5.720G         | 66   | 5.442G         | 67   | 5.445G         | 68   | 5.371G         |
| 69   | 5.370G         | 70   | 5.639G         | 71   | 5.647G         | 72   | 5.297G         |
| 73   | 5.270G         | 74   | 5.372G         | 75   | 5.425G         | 76   | 5.722G         |
| 77   | 5.407G         | 78   | 5.338G         | 79   | 5.699G         | 80   | 5.251G         |
| 81   | 5.379G         | 82   | 5.667G         | 83   | 5.400G         | 84   | 5.558G         |
| 85   | 5.359G         | 86   | 5.681G         | 87   | 5.623G         | 88   | 5.541G         |
| 89   | 5.434G         | 90   | 5.521G         | 91   | 5.580G         | 92   | 5.676G         |
| 93   | 5.662G         | 94   | 5.429G         | 95   | 5.320G         | 96   | 5.444G         |
| 97   | 5.418G         | 98   | 5.713G         | 99   | 5.505G         | 100  | 5.612G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.500G         | 2    | 5.393G         | 3    | 5.299G         | 4    | 5.588G         |
| 5                                                | 5.673G         | 6    | 5.723G         | 7    | 5.610G         | 8    | 5.551G         |
| 9                                                | 5.317G         | 10   | 5.326G         | 11   | 5.635G         | 12   | 5.505G         |
| 13                                               | 5.366G         | 14   | 5.646G         | 15   | 5.585G         | 16   | 5.460G         |
| 17                                               | 5.367G         | 18   | 5.615G         | 19   | 5.625G         | 20   | 5.364G         |
| 21                                               | 5.337G         | 22   | 5.587G         | 23   | 5.399G         | 24   | 5.643G         |
| 25                                               | 5.278G         | 26   | 5.707G         | 27   | 5.449G         | 28   | 5.711G         |
| 29                                               | 5.478G         | 30   | 5.508G         | 31   | 5.344G         | 32   | 5.602G         |
| 33                                               | 5.346G         | 34   | 5.386G         | 35   | 5.694G         | 36   | 5.568G         |
| 37                                               | 5.676G         | 38   | 5.468G         | 39   | 5.261G         | 40   | 5.448G         |
| 41                                               | 5.466G         | 42   | 5.352G         | 43   | 5.541G         | 44   | 5.265G         |
| 45                                               | 5.631G         | 46   | 5.417G         | 47   | 5.679G         | 48   | 5.491G         |
| 49                                               | 5.316G         | 50   | 5.459G         | 51   | 5.474G         | 52   | 5.310G         |
| 53                                               | 5.283G         | 54   | 5.382G         | 55   | 5.562G         | 56   | 5.424G         |
| 57                                               | 5.287G         | 58   | 5.480G         | 59   | 5.518G         | 60   | 5.279G         |
| 61                                               | 5.348G         | 62   | 5.636G         | 63   | 5.295G         | 64   | 5.377G         |
| 65                                               | 5.489G         | 66   | 5.324G         | 67   | 5.446G         | 68   | 5.520G         |
| 69                                               | 5.340G         | 70   | 5.429G         | 71   | 5.594G         | 72   | 5.686G         |
| 73                                               | 5.297G         | 74   | 5.483G         | 75   | 5.257G         | 76   | 5.473G         |
| 77                                               | 5.419G         | 78   | 5.678G         | 79   | 5.521G         | 80   | 5.272G         |
| 81                                               | 5.472G         | 82   | 5.303G         | 83   | 5.554G         | 84   | 5.691G         |
| 85                                               | 5.271G         | 86   | 5.437G         | 87   | 5.501G         | 88   | 5.704G         |
| 89                                               | 5.353G         | 90   | 5.703G         | 91   | 5.656G         | 92   | 5.273G         |
| 93                                               | 5.569G         | 94   | 5.450G         | 95   | 5.582G         | 96   | 5.557G         |
| 97                                               | 5.672G         | 98   | 5.650G         | 99   | 5.405G         | 100  | 5.538G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.635G         | 2    | 5.569G         | 3    | 5.707G         | 4    | 5.382G         |
| 5                                                | 5.496G         | 6    | 5.423G         | 7    | 5.647G         | 8    | 5.560G         |
| 9                                                | 5.341G         | 10   | 5.657G         | 11   | 5.665G         | 12   | 5.715G         |
| 13                                               | 5.412G         | 14   | 5.339G         | 15   | 5.361G         | 16   | 5.522G         |
| 17                                               | 5.597G         | 18   | 5.720G         | 19   | 5.291G         | 20   | 5.285G         |
| 21                                               | 5.365G         | 22   | 5.620G         | 23   | 5.354G         | 24   | 5.436G         |
| 25                                               | 5.677G         | 26   | 5.473G         | 27   | 5.704G         | 28   | 5.424G         |
| 29                                               | 5.254G         | 30   | 5.345G         | 31   | 5.484G         | 32   | 5.604G         |
| 33                                               | 5.268G         | 34   | 5.306G         | 35   | 5.684G         | 36   | 5.362G         |
| 37                                               | 5.468G         | 38   | 5.257G         | 39   | 5.267G         | 40   | 5.349G         |
| 41                                               | 5.392G         | 42   | 5.542G         | 43   | 5.494G         | 44   | 5.297G         |
| 45                                               | 5.618G         | 46   | 5.630G         | 47   | 5.554G         | 48   | 5.360G         |
| 49                                               | 5.718G         | 50   | 5.300G         | 51   | 5.266G         | 52   | 5.425G         |
| 53                                               | 5.363G         | 54   | 5.515G         | 55   | 5.443G         | 56   | 5.283G         |
| 57                                               | 5.686G         | 58   | 5.430G         | 59   | 5.431G         | 60   | 5.555G         |
| 61                                               | 5.280G         | 62   | 5.552G         | 63   | 5.672G         | 64   | 5.273G         |
| 65                                               | 5.571G         | 66   | 5.317G         | 67   | 5.278G         | 68   | 5.541G         |
| 69                                               | 5.447G         | 70   | 5.663G         | 71   | 5.485G         | 72   | 5.546G         |
| 73                                               | 5.523G         | 74   | 5.581G         | 75   | 5.568G         | 76   | 5.685G         |
| 77                                               | 5.610G         | 78   | 5.540G         | 79   | 5.576G         | 80   | 5.609G         |
| 81                                               | 5.562G         | 82   | 5.708G         | 83   | 5.566G         | 84   | 5.262G         |
| 85                                               | 5.639G         | 86   | 5.614G         | 87   | 5.379G         | 88   | 5.688G         |
| 89                                               | 5.632G         | 90   | 5.364G         | 91   | 5.553G         | 92   | 5.506G         |
| 93                                               | 5.668G         | 94   | 5.288G         | 95   | 5.505G         | 96   | 5.302G         |
| 97                                               | 5.329G         | 98   | 5.439G         | 99   | 5.448G         | 100  | 5.446G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.256G         | 2    | 5.438G         | 3    | 5.676G         | 4    | 5.420G         |
| 5    | 5.355G         | 6    | 5.408G         | 7    | 5.559G         | 8    | 5.576G         |
| 9    | 5.325G         | 10   | 5.469G         | 11   | 5.626G         | 12   | 5.708G         |
| 13   | 5.357G         | 14   | 5.533G         | 15   | 5.688G         | 16   | 5.590G         |
| 17   | 5.643G         | 18   | 5.441G         | 19   | 5.662G         | 20   | 5.704G         |
| 21   | 5.612G         | 22   | 5.316G         | 23   | 5.591G         | 24   | 5.649G         |
| 25   | 5.323G         | 26   | 5.716G         | 27   | 5.414G         | 28   | 5.270G         |
| 29   | 5.260G         | 30   | 5.257G         | 31   | 5.661G         | 32   | 5.720G         |
| 33   | 5.277G         | 34   | 5.628G         | 35   | 5.558G         | 36   | 5.570G         |
| 37   | 5.483G         | 38   | 5.522G         | 39   | 5.254G         | 40   | 5.556G         |
| 41   | 5.378G         | 42   | 5.477G         | 43   | 5.550G         | 44   | 5.296G         |
| 45   | 5.713G         | 46   | 5.449G         | 47   | 5.291G         | 48   | 5.415G         |
| 49   | 5.484G         | 50   | 5.656G         | 51   | 5.489G         | 52   | 5.369G         |
| 53   | 5.627G         | 54   | 5.551G         | 55   | 5.474G         | 56   | 5.537G         |
| 57   | 5.399G         | 58   | 5.666G         | 59   | 5.313G         | 60   | 5.574G         |
| 61   | 5.465G         | 62   | 5.654G         | 63   | 5.290G         | 64   | 5.659G         |
| 65   | 5.269G         | 66   | 5.697G         | 67   | 5.502G         | 68   | 5.636G         |
| 69   | 5.289G         | 70   | 5.609G         | 71   | 5.386G         | 72   | 5.324G         |
| 73   | 5.334G         | 74   | 5.365G         | 75   | 5.368G         | 76   | 5.262G         |
| 77   | 5.321G         | 78   | 5.542G         | 79   | 5.673G         | 80   | 5.435G         |
| 81   | 5.565G         | 82   | 5.701G         | 83   | 5.401G         | 84   | 5.466G         |
| 85   | 5.425G         | 86   | 5.495G         | 87   | 5.645G         | 88   | 5.569G         |
| 89   | 5.284G         | 90   | 5.642G         | 91   | 5.699G         | 92   | 5.705G         |
| 93   | 5.561G         | 94   | 5.505G         | 95   | 5.301G         | 96   | 5.605G         |
| 97   | 5.444G         | 98   | 5.440G         | 99   | 5.293G         | 100  | 5.360G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.706G         | 2    | 5.667G         | 3    | 5.664G         | 4    | 5.602G         |
| 5                                                | 5.318G         | 6    | 5.543G         | 7    | 5.332G         | 8    | 5.688G         |
| 9                                                | 5.455G         | 10   | 5.299G         | 11   | 5.383G         | 12   | 5.412G         |
| 13                                               | 5.409G         | 14   | 5.413G         | 15   | 5.559G         | 16   | 5.671G         |
| 17                                               | 5.506G         | 18   | 5.267G         | 19   | 5.372G         | 20   | 5.529G         |
| 21                                               | 5.275G         | 22   | 5.633G         | 23   | 5.376G         | 24   | 5.587G         |
| 25                                               | 5.518G         | 26   | 5.508G         | 27   | 5.307G         | 28   | 5.339G         |
| 29                                               | 5.716G         | 30   | 5.345G         | 31   | 5.614G         | 32   | 5.554G         |
| 33                                               | 5.470G         | 34   | 5.404G         | 35   | 5.260G         | 36   | 5.418G         |
| 37                                               | 5.353G         | 38   | 5.348G         | 39   | 5.637G         | 40   | 5.689G         |
| 41                                               | 5.591G         | 42   | 5.525G         | 43   | 5.426G         | 44   | 5.252G         |
| 45                                               | 5.475G         | 46   | 5.461G         | 47   | 5.362G         | 48   | 5.576G         |
| 49                                               | 5.298G         | 50   | 5.647G         | 51   | 5.386G         | 52   | 5.288G         |
| 53                                               | 5.398G         | 54   | 5.632G         | 55   | 5.297G         | 56   | 5.414G         |
| 57                                               | 5.659G         | 58   | 5.329G         | 59   | 5.467G         | 60   | 5.691G         |
| 61                                               | 5.685G         | 62   | 5.532G         | 63   | 5.556G         | 64   | 5.700G         |
| 65                                               | 5.558G         | 66   | 5.282G         | 67   | 5.371G         | 68   | 5.257G         |
| 69                                               | 5.542G         | 70   | 5.569G         | 71   | 5.650G         | 72   | 5.705G         |
| 73                                               | 5.315G         | 74   | 5.359G         | 75   | 5.440G         | 76   | 5.325G         |
| 77                                               | 5.273G         | 78   | 5.497G         | 79   | 5.655G         | 80   | 5.384G         |
| 81                                               | 5.672G         | 82   | 5.579G         | 83   | 5.479G         | 84   | 5.708G         |
| 85                                               | 5.441G         | 86   | 5.601G         | 87   | 5.652G         | 88   | 5.354G         |
| 89                                               | 5.436G         | 90   | 5.476G         | 91   | 5.464G         | 92   | 5.550G         |
| 93                                               | 5.577G         | 94   | 5.658G         | 95   | 5.271G         | 96   | 5.391G         |
| 97                                               | 5.392G         | 98   | 5.668G         | 99   | 5.511G         | 100  | 5.303G         |





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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.589G         | 2    | 5.434G         | 3    | 5.283G         | 4    | 5.486G         |
| 5    | 5.676G         | 6    | 5.498G         | 7    | 5.418G         | 8    | 5.559G         |
| 9    | 5.464G         | 10   | 5.391G         | 11   | 5.504G         | 12   | 5.672G         |
| 13   | 5.588G         | 14   | 5.587G         | 15   | 5.643G         | 16   | 5.338G         |
| 17   | 5.435G         | 18   | 5.521G         | 19   | 5.586G         | 20   | 5.457G         |
| 21   | 5.599G         | 22   | 5.306G         | 23   | 5.469G         | 24   | 5.500G         |
| 25   | 5.543G         | 26   | 5.257G         | 27   | 5.282G         | 28   | 5.414G         |
| 29   | 5.596G         | 30   | 5.296G         | 31   | 5.352G         | 32   | 5.603G         |
| 33   | 5.490G         | 34   | 5.279G         | 35   | 5.303G         | 36   | 5.444G         |
| 37   | 5.566G         | 38   | 5.281G         | 39   | 5.506G         | 40   | 5.483G         |
| 41   | 5.468G         | 42   | 5.318G         | 43   | 5.562G         | 44   | 5.649G         |
| 45   | 5.535G         | 46   | 5.383G         | 47   | 5.437G         | 48   | 5.530G         |
| 49   | 5.522G         | 50   | 5.629G         | 51   | 5.458G         | 52   | 5.297G         |
| 53   | 5.325G         | 54   | 5.356G         | 55   | 5.723G         | 56   | 5.663G         |
| 57   | 5.459G         | 58   | 5.402G         | 59   | 5.470G         | 60   | 5.267G         |
| 61   | 5.701G         | 62   | 5.353G         | 63   | 5.601G         | 64   | 5.693G         |
| 65   | 5.329G         | 66   | 5.680G         | 67   | 5.372G         | 68   | 5.580G         |
| 69   | 5.659G         | 70   | 5.397G         | 71   | 5.602G         | 72   | 5.305G         |
| 73   | 5.614G         | 74   | 5.684G         | 75   | 5.552G         | 76   | 5.673G         |
| 77   | 5.716G         | 78   | 5.323G         | 79   | 5.359G         | 80   | 5.321G         |
| 81   | 5.550G         | 82   | 5.348G         | 83   | 5.584G         | 84   | 5.698G         |
| 85   | 5.609G         | 86   | 5.591G         | 87   | 5.627G         | 88   | 5.608G         |
| 89   | 5.724G         | 90   | 5.314G         | 91   | 5.628G         | 92   | 5.419G         |
| 93   | 5.330G         | 94   | 5.670G         | 95   | 5.408G         | 96   | 5.534G         |
| 97   | 5.423G         | 98   | 5.615G         | 99   | 5.501G         | 100  | 5.406G         |



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

| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
|------|----------------|------|----------------|------|----------------|------|----------------|
| 1    | 5.443G         | 2    | 5.333G         | 3    | 5.506G         | 4    | 5.294G         |
| 5    | 5.701G         | 6    | 5.463G         | 7    | 5.554G         | 8    | 5.338G         |
| 9    | 5.683G         | 10   | 5.589G         | 11   | 5.504G         | 12   | 5.273G         |
| 13   | 5.422G         | 14   | 5.412G         | 15   | 5.722G         | 16   | 5.698G         |
| 17   | 5.456G         | 18   | 5.552G         | 19   | 5.694G         | 20   | 5.658G         |
| 21   | 5.603G         | 22   | 5.678G         | 23   | 5.724G         | 24   | 5.317G         |
| 25   | 5.260G         | 26   | 5.319G         | 27   | 5.715G         | 28   | 5.602G         |
| 29   | 5.259G         | 30   | 5.429G         | 31   | 5.329G         | 32   | 5.451G         |
| 33   | 5.304G         | 34   | 5.298G         | 35   | 5.702G         | 36   | 5.315G         |
| 37   | 5.403G         | 38   | 5.578G         | 39   | 5.281G         | 40   | 5.526G         |
| 41   | 5.361G         | 42   | 5.292G         | 43   | 5.659G         | 44   | 5.343G         |
| 45   | 5.604G         | 46   | 5.387G         | 47   | 5.559G         | 48   | 5.390G         |
| 49   | 5.655G         | 50   | 5.717G         | 51   | 5.347G         | 52   | 5.690G         |
| 53   | 5.479G         | 54   | 5.448G         | 55   | 5.700G         | 56   | 5.433G         |
| 57   | 5.288G         | 58   | 5.548G         | 59   | 5.355G         | 60   | 5.637G         |
| 61   | 5.551G         | 62   | 5.380G         | 63   | 5.583G         | 64   | 5.447G         |
| 65   | 5.708G         | 66   | 5.631G         | 67   | 5.382G         | 68   | 5.627G         |
| 69   | 5.705G         | 70   | 5.334G         | 71   | 5.642G         | 72   | 5.286G         |
| 73   | 5.271G         | 74   | 5.452G         | 75   | 5.445G         | 76   | 5.312G         |
| 77   | 5.651G         | 78   | 5.663G         | 79   | 5.696G         | 80   | 5.484G         |
| 81   | 5.254G         | 82   | 5.560G         | 83   | 5.541G         | 84   | 5.280G         |
| 85   | 5.325G         | 86   | 5.419G         | 87   | 5.275G         | 88   | 5.400G         |
| 89   | 5.555G         | 90   | 5.643G         | 91   | 5.388G         | 92   | 5.470G         |
| 93   | 5.632G         | 94   | 5.487G         | 95   | 5.510G         | 96   | 5.536G         |
| 97   | 5.454G         | 98   | 5.468G         | 99   | 5.567G         | 100  | 5.638G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.402G         | 2    | 5.641G         | 3    | 5.672G         | 4    | 5.436G         |
| 5                                                | 5.542G         | 6    | 5.398G         | 7    | 5.626G         | 8    | 5.522G         |
| 9                                                | 5.462G         | 10   | 5.529G         | 11   | 5.327G         | 12   | 5.388G         |
| 13                                               | 5.350G         | 14   | 5.254G         | 15   | 5.514G         | 16   | 5.665G         |
| 17                                               | 5.325G         | 18   | 5.320G         | 19   | 5.404G         | 20   | 5.616G         |
| 21                                               | 5.351G         | 22   | 5.608G         | 23   | 5.361G         | 24   | 5.666G         |
| 25                                               | 5.562G         | 26   | 5.399G         | 27   | 5.381G         | 28   | 5.341G         |
| 29                                               | 5.545G         | 30   | 5.275G         | 31   | 5.518G         | 32   | 5.421G         |
| 33                                               | 5.628G         | 34   | 5.349G         | 35   | 5.452G         | 36   | 5.466G         |
| 37                                               | 5.620G         | 38   | 5.294G         | 39   | 5.506G         | 40   | 5.372G         |
| 41                                               | 5.599G         | 42   | 5.683G         | 43   | 5.708G         | 44   | 5.441G         |
| 45                                               | 5.695G         | 46   | 5.585G         | 47   | 5.647G         | 48   | 5.564G         |
| 49                                               | 5.593G         | 50   | 5.690G         | 51   | 5.604G         | 52   | 5.544G         |
| 53                                               | 5.686G         | 54   | 5.312G         | 55   | 5.516G         | 56   | 5.718G         |
| 57                                               | 5.253G         | 58   | 5.723G         | 59   | 5.415G         | 60   | 5.278G         |
| 61                                               | 5.574G         | 62   | 5.338G         | 63   | 5.602G         | 64   | 5.373G         |
| 65                                               | 5.630G         | 66   | 5.356G         | 67   | 5.464G         | 68   | 5.573G         |
| 69                                               | 5.660G         | 70   | 5.609G         | 71   | 5.714G         | 72   | 5.301G         |
| 73                                               | 5.668G         | 74   | 5.619G         | 75   | 5.670G         | 76   | 5.439G         |
| 77                                               | 5.693G         | 78   | 5.520G         | 79   | 5.671G         | 80   | 5.450G         |
| 81                                               | 5.523G         | 82   | 5.583G         | 83   | 5.721G         | 84   | 5.662G         |
| 85                                               | 5.335G         | 86   | 5.578G         | 87   | 5.352G         | 88   | 5.486G         |
| 89                                               | 5.448G         | 90   | 5.505G         | 91   | 5.482G         | 92   | 5.330G         |
| 93                                               | 5.480G         | 94   | 5.561G         | 95   | 5.393G         | 96   | 5.397G         |
| 97                                               | 5.380G         | 98   | 5.412G         | 99   | 5.333G         | 100  | 5.310G         |