

# DFS MEASUREMENT REPORT

## FCC PART 15 Subpart E

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**FCC ID:** TE7GX90

**APPLICANT:** TP-Link Technologies Co., Ltd.

**Application Type:** Certification

**Product:** AX6600 Tri-Band Wi-Fi 6 Gaming Router

**Model No.:** Archer GX90

**Brand Name:** tp-link

**FCC Classification:** Unlicensed National Information Infrastructure (NII)

**FCC Rule Part(s):** Part 15 Subpart E - 15.407 Section (h)(2)  
KDB 905462 D02v02, KDB 905462 D04v01

**Type of Device:** Master Device

**Test Date:** April 07 ~ 16, 2020

Reviewed By

*Paddy Chen*

( Paddy Chen )

Approved By

*Chenz Ker*

(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462 D02v02. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

## Revision History

Report No.	Version	Description	Issue Date	Note
2004TW0002-U3	Rev. 01	Initial Report	06-05-2020	Valid

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## General Information

<b>Applicant:</b>	TP-Link Technologies Co., Ltd.
<b>Applicant Address:</b>	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China
<b>Manufacturer:</b>	TP-Link Technologies Co., Ltd.
<b>Manufacturer Address:</b>	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China
<b>Test Site:</b>	MRT Technology (Taiwan) Co., Ltd
<b>Test Site Address:</b>	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
<b>Test Device Serial No.:</b>	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering

### Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Fuxing Rd., Taoyuan, Taiwan ( R.O.C )

- MRT facility is a FCC registered (MRT Reg. No. 153292) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film.
- MRT facility is an IC registered (MRT Reg. No. 21723-1) test laboratory with the site description on file at Industry Canada.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (TAF) under the American Association for Laboratory Accreditation Program (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, Taiwan, EU and TELEC Rules.

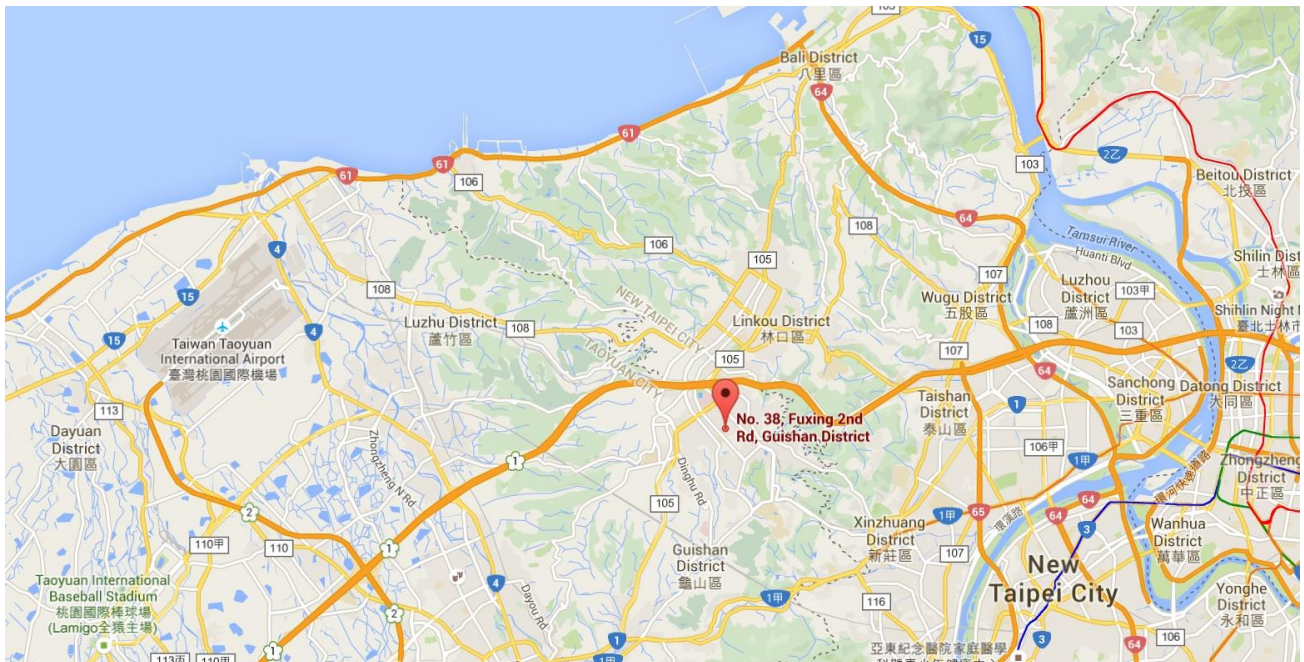
## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name:	AX6600 Tri-Band Wi-Fi 6 Gaming Router
Model No.:	Archer GX90
Brand Name:	tp-link
Wi-Fi Specification:	802.11a/b/g/n/ac/ax
Frequency Range:	<p><b><u>2.4GHz:</u></b>            For 802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462 MHz            For 802.11n-HT40/ax-HE40: 2422 ~ 2452 MHz</p> <p><b><u>5GHz:</u></b>            For 802.11a/n-HT20/ac-VHT20/ax-HE20:            5180~5240MHz ,5500~5720MHz, 5745~5825MHz            For 802.11n-HT40/ac-VHT40/ax-HE40:            5190~5230MHz,5510~5710MHz, 5755~5795MHz            For 802.11ac-VHT80/ax-HE80:            5210MHz, 5530MHz, 5610MHz, 5690MHz, 5775MHz            For 802.11ac-VHT160/ax-HE160:            5570MHz</p>
Type of Modulation:	802.11b: DSSS, 802.11a/g/n/ac: OFDM, 802.11ax: OFDMA
TPC mechanism:	Support (Details refer to operational description)
Power-on cycle:	Requires 77.9 seconds to complete its power-on cycle
Uniform Spreading (For DFS Frequency Band):	For 5470-5725 MHz band, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

## 2.2. Description of Available Antennas

Antenna Type	Frequency Band (MHz)	T <sub>x</sub> Paths	Number of spatial streams	Max Antenna Gain (dBi)	Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
						For Power	For PSD
Omni Antenna	2412 ~ 2462	2	1	1.42	4.43	1.42	4.43
	5150 ~ 5250	2	1	1.27	4.28	1.27	4.28
	5470 ~ 5725	4	1	1.63	7.65	1.63	7.65
		4	2	1.63	--	1.63	4.64
	5725 ~ 5850	4	1	1.33	7.35	1.33	7.35

Note:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.  
If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.
  - For power spectral density (PSD) measurements on all devices,  
Array Gain =  $10 \log (N_{ANT} / N_{SS})$  dB;
  - For power measurements on IEEE 802.11 devices,  
Array Gain = 0 dB for  $N_{ANT} \leq 4$ ;
- The EUT also supports Beam Forming mode, and the Beam Forming support 802.11ac/ax, not include 802.11a/b/g/n. BF Directional gain =  $G_{ANT} + 10 \log (N_{ANT})$ .



### 2.3. Description of Antenna RF Port

Antenna RF Port								
Software Control Port	2.4GHz RF Port		5GHz RF Port					
			U-NII - 1		U-NII - 2C / -3			
	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 2	Ant 3

## 2.4. Operating Frequency and Channel List

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500 MHz	104	5520 MHz	108	5540 MHz
112	5560 MHz	116	5580 MHz	120	5600 MHz
124	5620 MHz	128	5640 MHz	132	5660 MHz
136	5680 MHz	140	5700 MHz	144	5720 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
102	5510 MHz	110	5550 MHz	118	5590 MHz
126	5630 MHz	134	5670 MHz	142	5710 MHz

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz	138	5690 MHz

802.11ac-VHT160/ax-HE160

Channel	Frequency	Channel	Frequency	Channel	Frequency
114	5570 MHz	--	--	--	--

## 2.5. Test Channels for this Report

Test Mode	Test Channel	Test Frequency
802.11ax-HE20	100	5500 MHz
802.11ax-HE40	102	5510 MHz
802.11ax-HE80	106	5530 MHz
802.11ax-HE160	114	5570 MHz

## 2.6. Test Mode

Test Mode	Make the EUT communicate with notebook at DFS channel
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### 3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

#### 3.1. Applicability

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

**Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode	
	Master Device or Client With Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

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

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

**Table 3-2: Applicability of DFS Requirements during normal operation**

### 3.2. DFS Devices Requirements

**Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are the requirements for Master Devices:**

- (a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- (b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

**Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.	

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

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

**Table 3-3: DFS Response Requirements**

### 3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

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

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

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

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

**Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection**

### 3.4. Parameters of DFS Test Signals

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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.

#### Short Pulse Radar Test Waveforms

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

**Table 3-5: Parameters for Short Pulse Radar Waveforms**

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

**Table 3-6: Pulse Repetition Intervals Values for Test A**

### 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 3-7: Parameters for Long Pulse Radar Waveforms**

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

### 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

**Table 3-8: Parameters for Frequency Hopping Radar Waveforms**

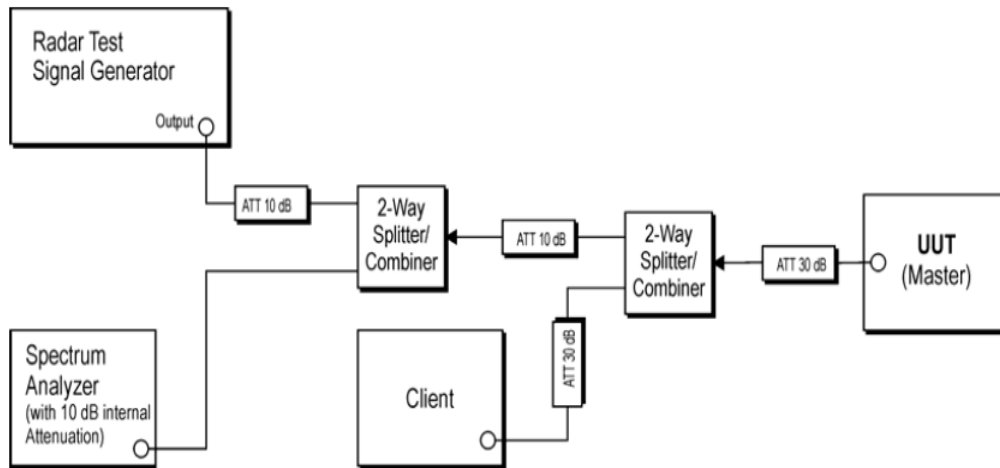
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

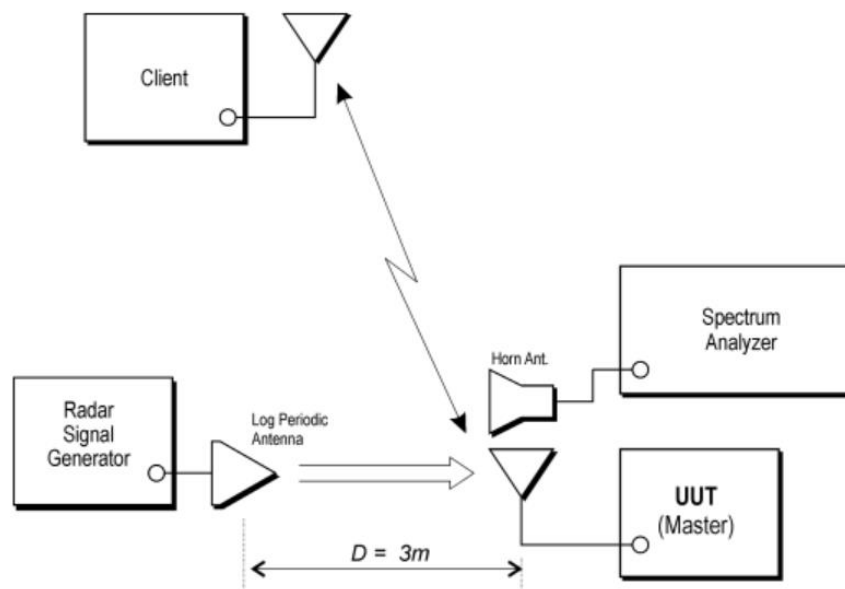


### 3.5. Conducted Test Setup

The FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.



**Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters**



**Figure 3-2: Radiated Test Setup where UUT is a Master and Radar Test Waveforms are injected into the UUT**

#### 4. TEST EQUIPMENT CALIBRATION DATE

##### Dynamic Frequency Selection (DFS)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2020/10/02
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2020/07/11
Vector Signal Generator	Keysight	N5182B	MRTTWA00010	1 year	2021/04/24
Combiner	WOKEN	0120A04208001S	MRTTWE00008	1 year	2021/06/18

##### Client Information

Instrument	Manufacturer	Type No.
Access Point	TP-Link Technologies Co., Ltd.	Archer AX6000

Note: The Access Point was configured as client device by the manufacturer.

Software	Version	Manufacturer	Function
Pulse Building(N7607B)	V3.0.0	Keysight	Radar Signal Generation Software
DFS Tool	V6.7	Keysight	DFS Test Software

## 5. TEST RESULT

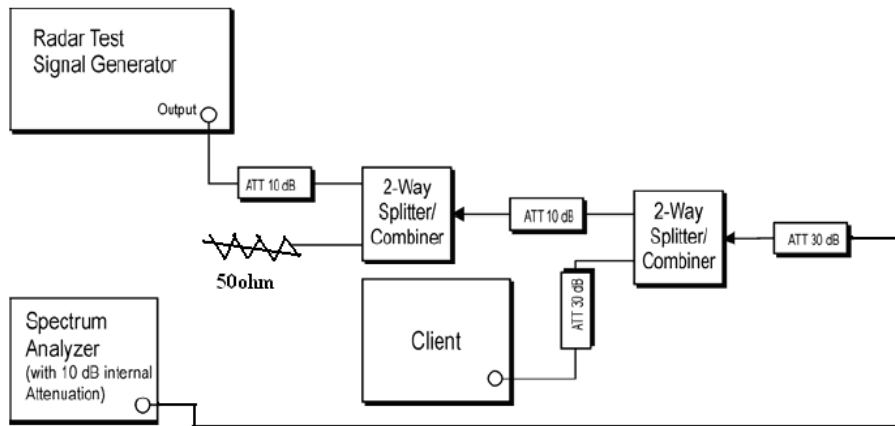
### 5.1. Summary

Parameter	Limit	Test Result	Reference
UNII Detection Bandwidth Measurement	Refer Table 3-3	Pass	Section 5.4
Initial Channel Availability Check Time	Refer Table 3-3	Pass	Section 5.5
Radar Burst at the Beginning of the Channel Availability Check Time	Refer Table 3-3	Pass	Section 5.6
Radar Burst at the End of the Channel Availability Check Time	Refer Table 3-3	Pass	Section 5.7
In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	Refer Table 3-3	Pass	Section 5.8
Non-Occupancy Period	Refer Table 3-3	Pass	Section 5.8
Statistical Performance Check	Refer Table 3-3	Pass	Section 5.9

## 5.2. Radar Waveform Calibration

### 5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.



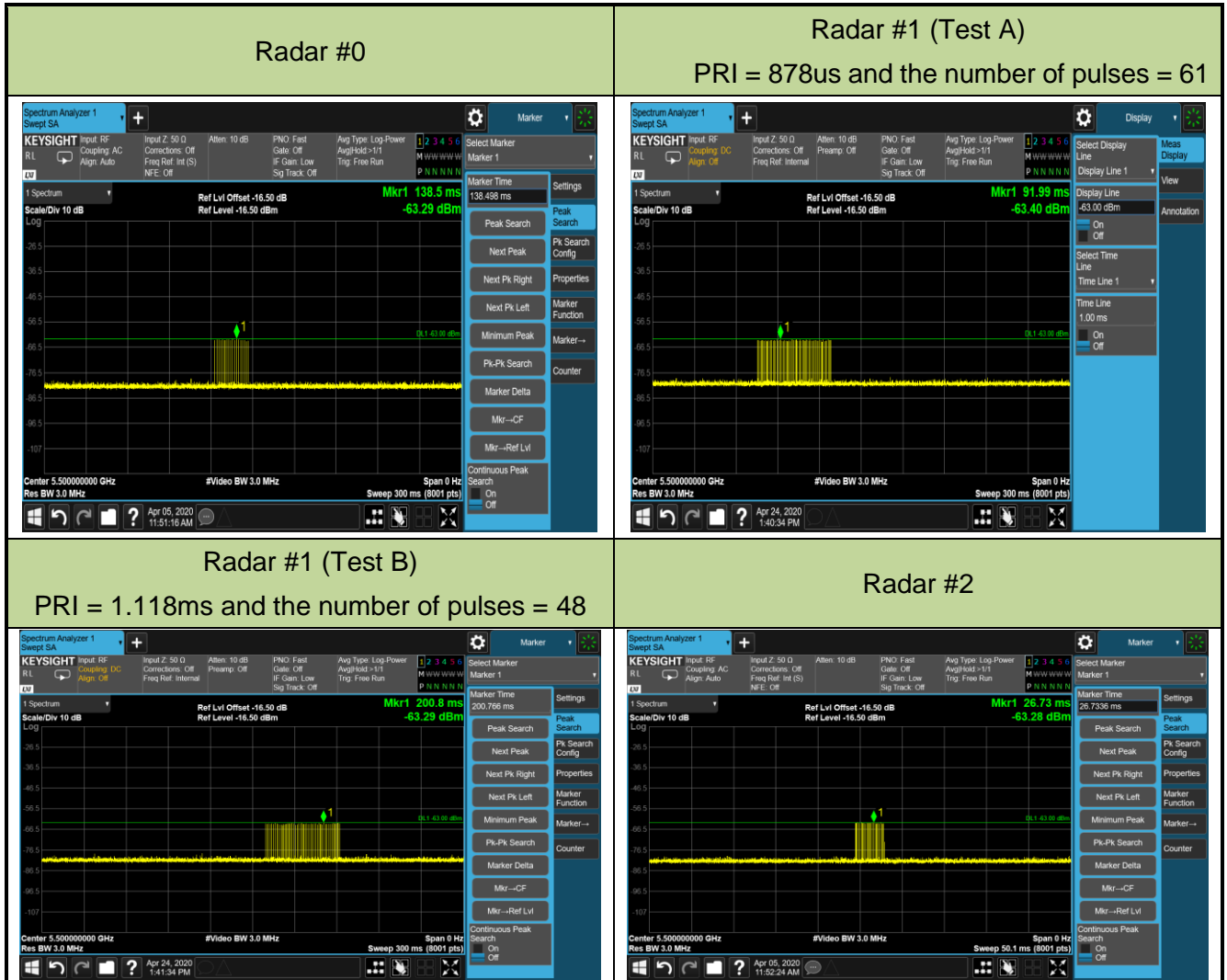
**Figure 3-2: Conducted Test Setup**

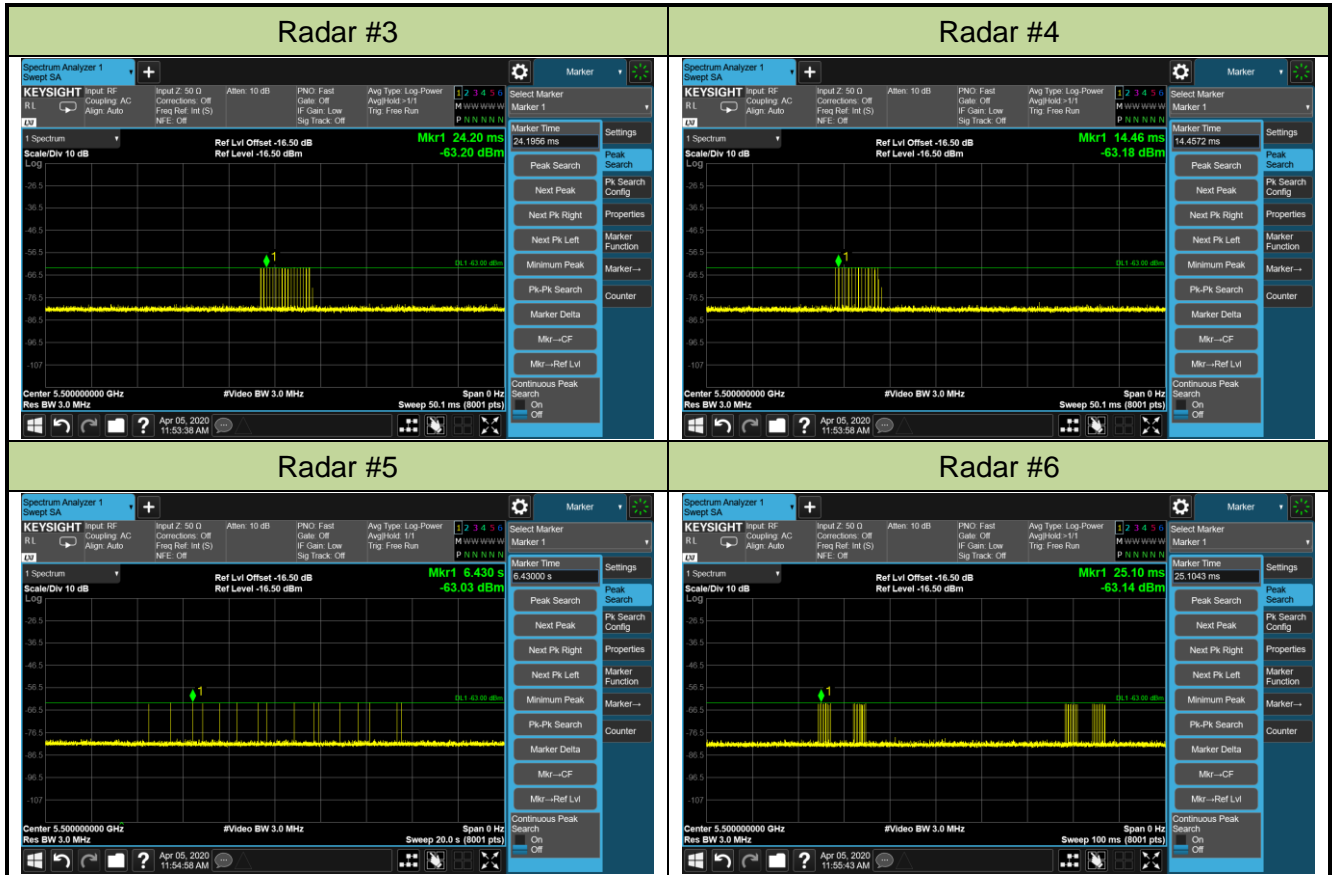
### 5.2.2. Calibration Procedure

The Interference Radar Detection Threshold Level is  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$  that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

### 5.2.3. Cablibration Result

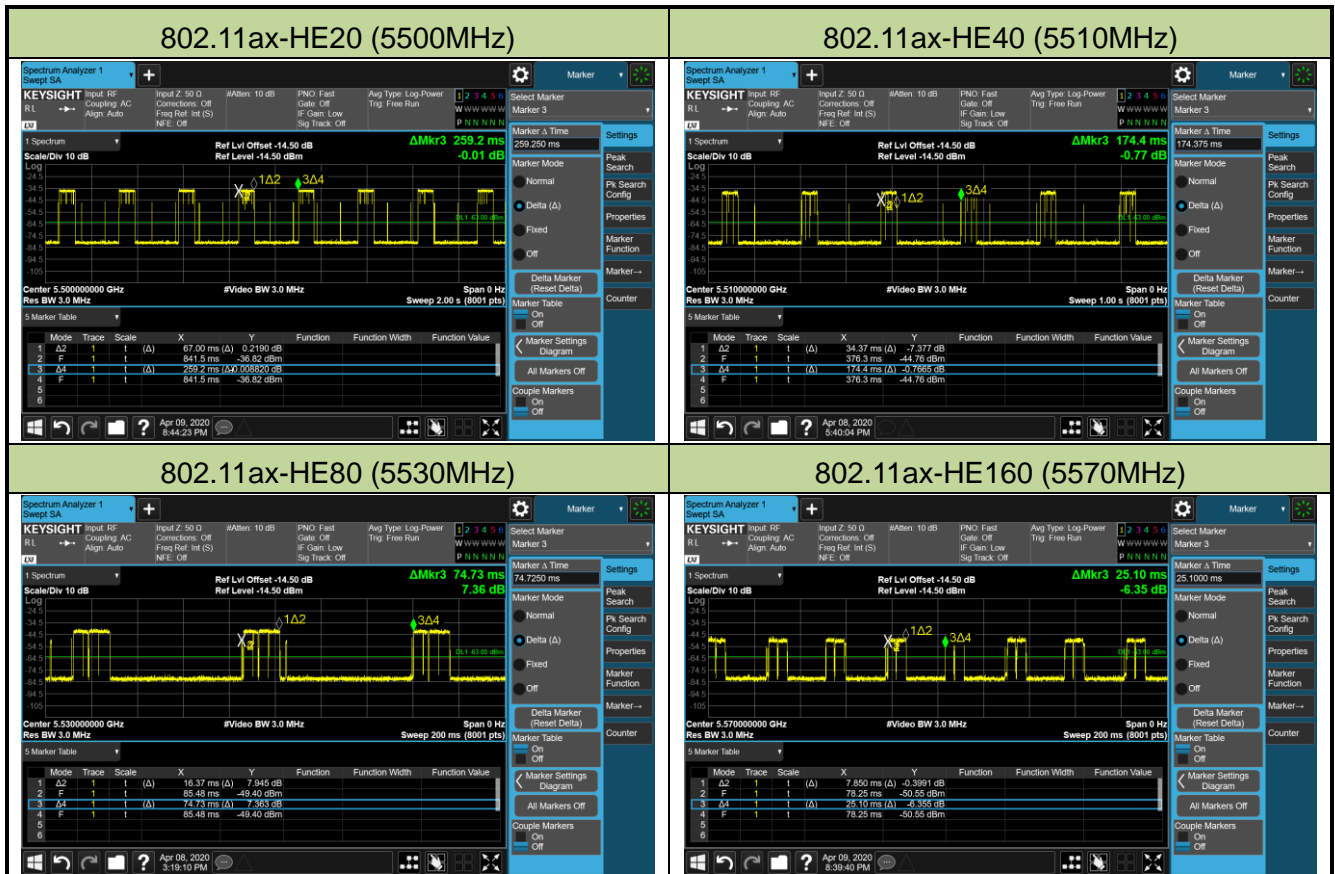
Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/05
Test Item	Radar Waveform Calibration		





### 5.2.4. Channel Loading Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/08~2020/04/09
Test Item	Channel Loading		



Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result
802.11ax-HE20	5500 MHz	25.84%	≥ 17%	Pass
802.11ax-HE40	5510 MHz	19.71%	≥ 17%	Pass
802.11ax-HE80	5530 MHz	21.91%	≥ 17%	Pass
802.11ax-HE160	5570 MHz	31.27%	≥ 17%	Pass

Note: System testing was performed with the designated iperf test file. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Packet ratio = Time On / (Time On + Off Time).

### 5.3. UNII Detection Bandwidth Measurement

#### 5.3.1. Test Limit

Minimum 100% of the UNII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### 5.3.2. Test Procedure

1. Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0-4 in Table 3-5 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
2. The generating equipment is configured as shown in the Conducted Test Setup above section 3.5.
3. The EUT is set up as a stand-alone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
5. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 3-3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
7. The U-NII Detection Bandwidth is calculated as follows: U-NII Detection Bandwidth = FH – FL
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.



### 5.3.3. Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/09
Test Item	Detection Bandwidth (802.11ax-HE20 mode - 5500MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0%
5490.4 FL	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5509.6 FH	1	1	1	1	1	1	1	1	1	1	100%
5510	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5500MHz. The 99% channel bandwidth is 19.07MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5509.6MHz – 5490.4MHz = 19.2MHz

Note 3: NII Detection Bandwidth Min. Limit (MHz): 19.07MHz x 100% = 19.07MHz.

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/09
Test Item	Detection Bandwidth (802.11ax-HE40 mode – 5510MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0%
5491 FL	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529 FH	1	1	1	1	1	1	1	1	1	1	100%
5530	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 37.55MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5529MHz - 5491MHz = 38MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 37.55MHz x 100% = 37.55MHz.

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/09
Test Item	Detection Bandwidth (802.11ax-HE80 mode – 5530MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0%
5491 FL	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5566	1	1	1	1	1	1	1	1	1	1	100%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568	1	1	1	1	1	1	1	1	1	1	100%
5569 FH	1	1	1	1	1	1	1	1	1	1	100%
5570	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 77.11MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5569MHz - 5491MHz = 78MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 77.11MHz x 100% = 77.11MHz.

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/09
Test Item	Detection Bandwidth (802.11ax-HE160 mode – 5570MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0%
5491 FL	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5570	1	1	1	1	1	1	1	1	1	1	100%
5575	1	1	1	1	1	1	1	1	1	1	100%
5580	1	1	1	1	1	1	1	1	1	1	100%
5585	1	1	1	1	1	1	1	1	1	1	100%
5590	1	1	1	1	1	1	1	1	1	1	100%
5595	1	1	1	1	1	1	1	1	1	1	100%
5600	1	1	1	1	1	1	1	1	1	1	100%
5600	1	1	1	1	1	1	1	1	1	1	100%
5610	1	1	1	1	1	1	1	1	1	1	100%

5615	1	1	1	1	1	1	1	1	1	1	100%
5620	1	1	1	1	1	1	1	1	1	1	100%
5625	1	1	1	1	1	1	1	1	1	1	100%
5630	1	1	1	1	1	1	1	1	1	1	100%
5635	1	1	1	1	1	1	1	1	1	1	100%
5640	1	1	1	1	1	1	1	1	1	1	100%
5645	1	1	1	1	1	1	1	1	1	1	100%
5646	1	1	1	1	1	1	1	1	1	1	100%
5647	1	1	1	1	1	1	1	1	1	1	100%
5648	1	1	1	1	1	1	1	1	1	1	100%
5649 FH	1	1	1	1	1	1	1	1	1	1	100%
5650	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5570MHz. The 99% channel bandwidth is 155.26MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5649MHz - 5491MHz = 158MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 155.26MHz x 100% = 155.26MHz.

## **5.4. Initial Channel Availability Check Time Measurement**

### **5.4.1. Test Limit**

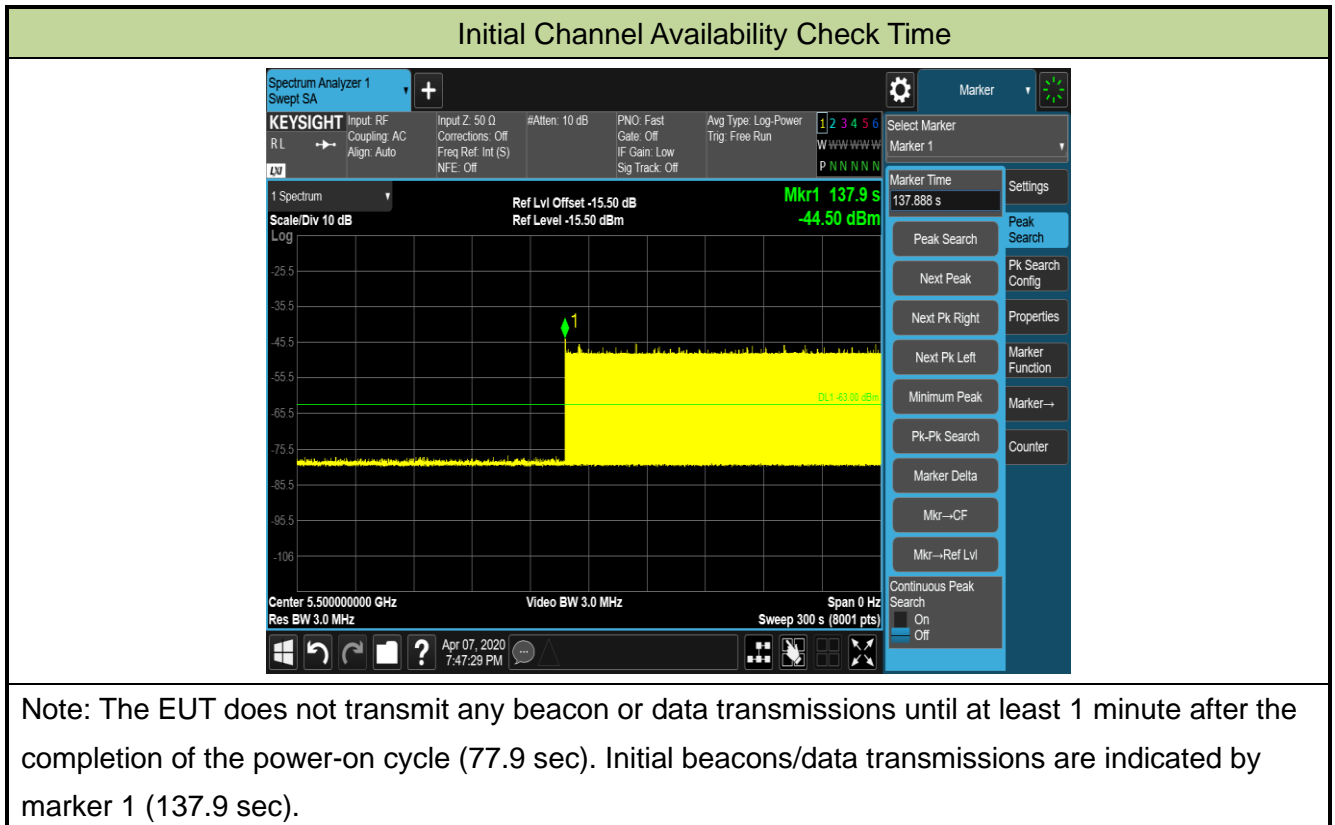
The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute on the intended operating frequency.

### **5.4.2. Test Procedure**

1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
2. The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
3. Confirm that the EUT initiates transmission on the channel. Measurement system showing its nominal noise floor is marker1.

### 5.4.3. Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/07
Test Item	Initial Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



## **5.5. Radar Burst at the Beginning of the Channel Availability Check Time Measurement**

### **5.5.1. Test Limit**

In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

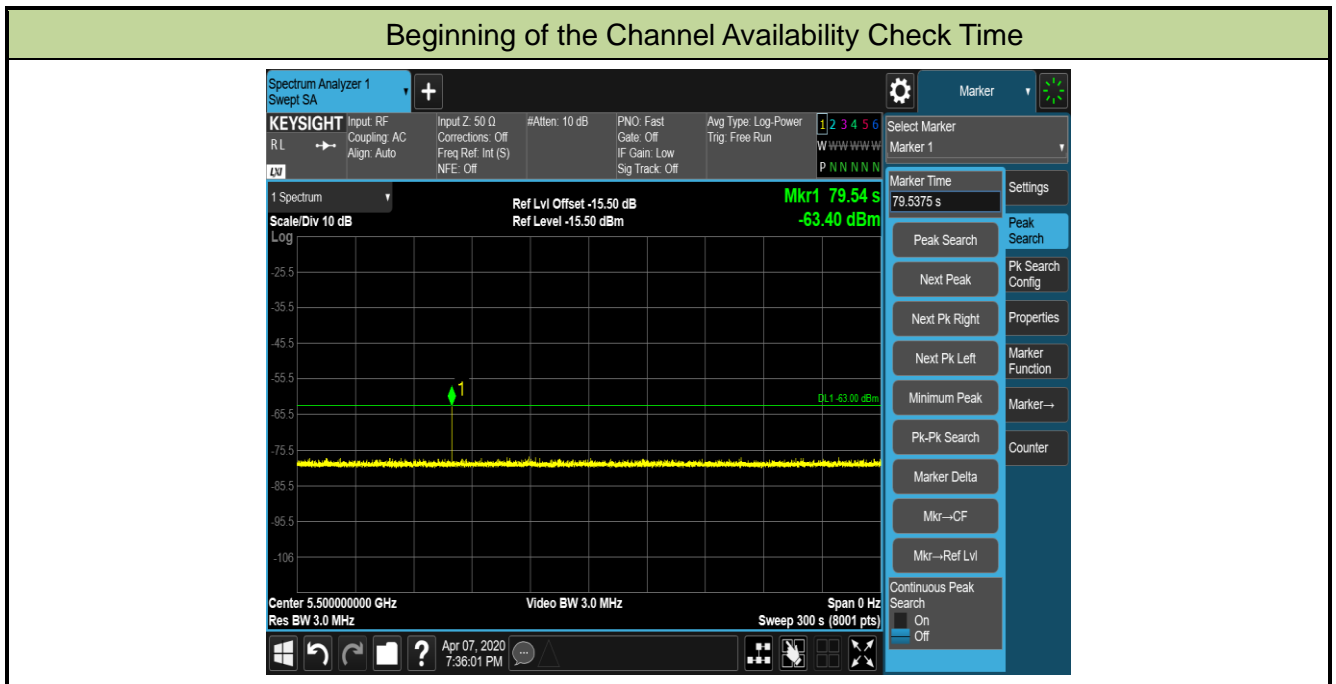
### **5.5.2. Test Procedure**

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.



### 5.5.3. Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/07
Test Item	Beginning of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



## **5.6. Radar Burst at the End of the Channel Availability Check Time Measurement**

### **5.6.1. Test Limit**

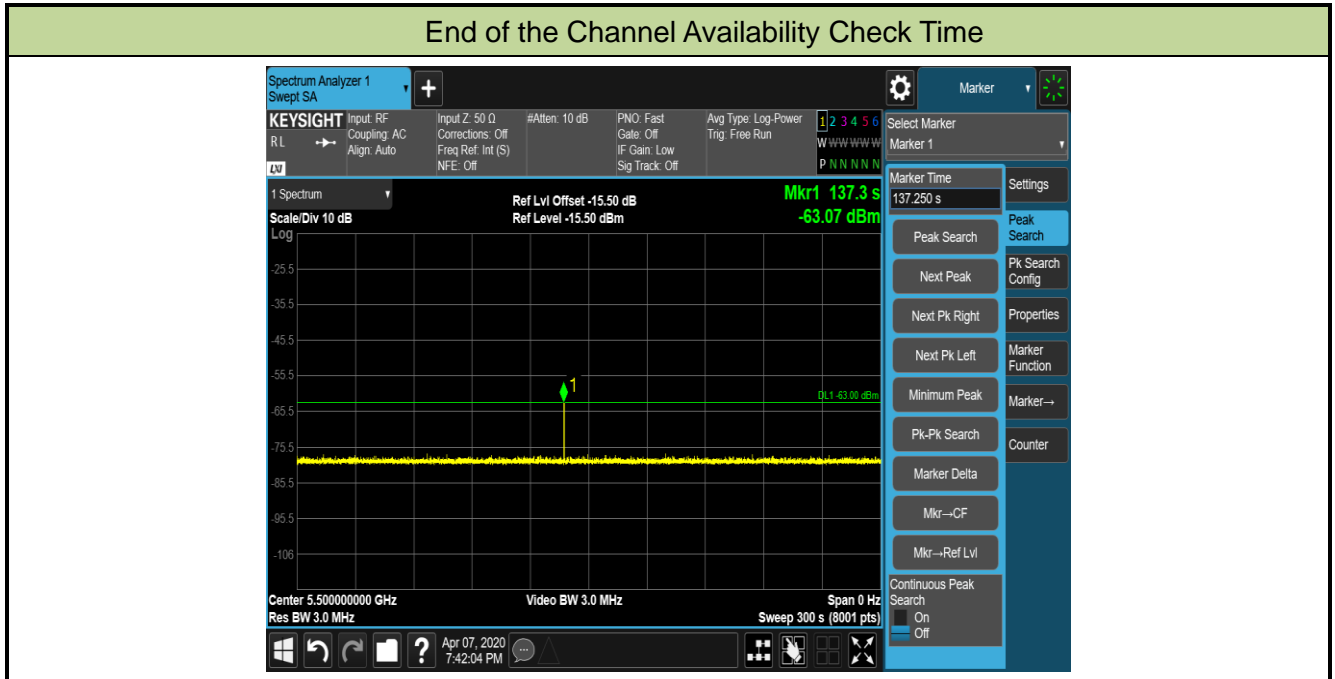
In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

### **5.6.2. Test Procedure**

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1+ 54 seconds.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.

### 5.6.3. Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/07
Test Item	End of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



## **5.7. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement**

### **5.7.1. Test Limit**

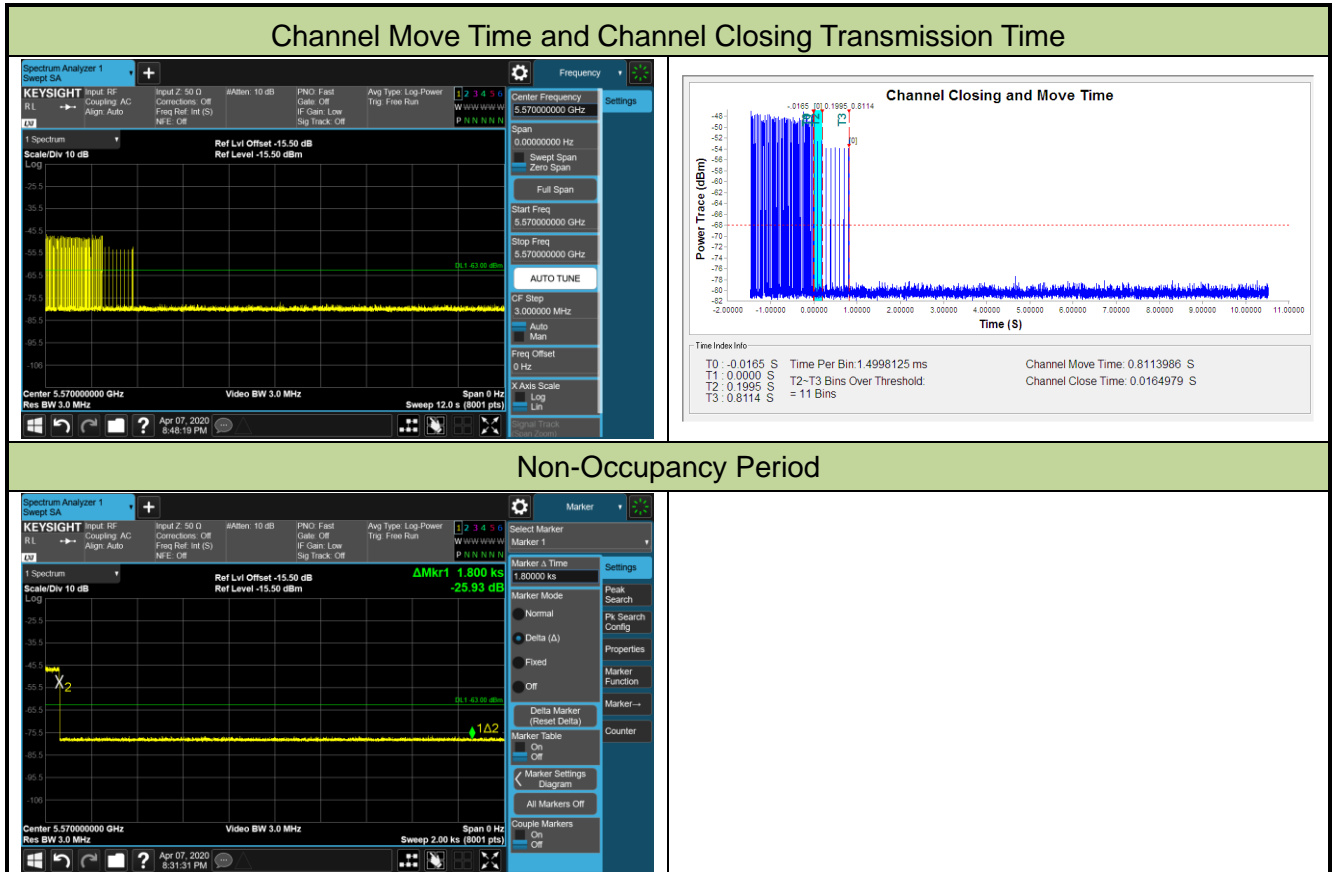
The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

### **5.7.2. Test Procedure Used**

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (1.5ms) = S (12 \text{ sec}) / B (8000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C = N \times Dwell$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

### 5.7.3. Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/07
Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ax-HE160 mode - 5570MHz)		



Parameter	Test Result	Limit
	Type 0	
Channel Move Time (s)	0.811s	<10s
Channel Closing Transmission Time (ms) (Note)	16ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min

Note: 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 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

## 5.8. Statistical Performance Check Measurement

### 5.8.1. Test Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

Radar Type	Minimum Number of Trails	Detection Probability
0	30	Pd > 60%
1	30(15 of test A and 15 of test B)	Pd > 60%
2	30	Pd > 60%
3	30	Pd > 60%
4	30	Pd > 60%
Aggregate (Radar Types 1-4)	120	Pd > 80%
5	30	Pd > 80%
6	30	Pd > 70%

The percentage of successful detection is calculated by:

$(\text{Total Waveform Detections} / \text{Total Waveform Trails}) * 100 = \text{Probability of Detection Radar}$

Waveform In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:  $(Pd1 + Pd2 + Pd3 + Pd4) / 4$ .

### 5.8.2. Test Procedure

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.
4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table.

### 5.8.3. Test Result

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/09
Test Item	Radar Statistical Performance Check (802.11ax-HE20 – 5500MHz)		

#### Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490.4	1	698	76	1
2	5490.4	1	838	63	1
3	5490.4	1	818	65	0
4	5490.4	1	898	59	1
5	5490.4	1	778	68	1
6	5490.4	1	618	86	1
7	5490.4	1	878	61	1
8	5490.4	1	798	67	1
9	5490.4	1	658	81	1
10	5490.4	1	678	78	1
11	5500.0	1	918	58	1
12	5500.0	1	738	72	1
13	5500.0	1	638	83	1
14	5500.0	1	578	92	1
15	5500.0	1	858	62	1
16	5500.0	1	2235	24	1
17	5500.0	1	2086	26	1
18	5500.0	1	2341	23	0
19	5500.0	1	2436	22	1
20	5500.0	1	712	75	1
21	5509.6	1	1373	39	1
22	5509.6	1	733	72	1
23	5509.6	1	1150	46	0
24	5509.6	1	2720	20	1
25	5509.6	1	2123	25	1
26	5509.6	1	1053	51	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5509.6	1	841	63	1
28	5509.6	1	2216	24	1
29	5509.6	1	732	72	1
30	5509.6	1	594	89	1
Detection Percentage (%)					90%



## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490.4	2.3	152	23	1
2	5490.4	3.6	177	28	1
3	5490.4	4.2	175	28	1
4	5490.4	4.9	196	25	1
5	5490.4	2.1	182	25	1
6	5490.4	1.8	185	24	1
7	5490.4	3.9	219	25	1
8	5490.4	4.2	207	28	1
9	5490.4	3.7	212	27	1
10	5490.4	2.5	188	25	1
11	5500.0	1.3	211	26	1
12	5500.0	2.4	210	25	1
13	5500.0	4.6	170	23	1
14	5500.0	2.4	226	23	1
15	5500.0	3.1	159	27	1
16	5500.0	2.3	166	28	1
17	5500.0	2.7	152	28	1
18	5500.0	1.3	220	25	1
19	5500.0	3.9	183	24	1
20	5500.0	5.0	161	29	0
21	5509.6	1.9	198	28	1
22	5509.6	3.3	197	25	1
23	5509.6	3.9	208	26	1
24	5509.6	1.8	176	24	1
25	5509.6	2.1	181	28	1
26	5509.6	4.2	155	27	1
27	5509.6	4.3	205	26	1
28	5509.6	3.5	184	28	0
29	5509.6	3.0	207	28	1
30	5509.6	3.6	199	25	1
Detection Percentage (%)					93.3%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490.4	9.8	331	17	1
2	5490.4	7.2	406	18	1
3	5490.4	6.6	377	16	1
4	5490.4	7.9	489	17	1
5	5490.4	7.4	405	17	0
6	5490.4	9.8	458	16	1
7	5490.4	9.1	361	17	1
8	5490.4	9.6	258	17	0
9	5490.4	6.6	338	17	1
10	5490.4	9.4	296	16	1
11	5500.0	8.5	444	18	1
12	5500.0	8.0	434	16	1
13	5500.0	9.1	280	18	1
14	5500.0	8.1	423	16	1
15	5500.0	9.4	489	17	1
16	5500.0	7.1	332	17	1
17	5500.0	6.8	468	17	1
18	5500.0	6.3	251	16	1
19	5500.0	8.0	326	17	1
20	5500.0	9.9	226	17	0
21	5509.6	6.9	397	16	1
22	5509.6	7.4	378	17	1
23	5509.6	7.3	343	16	1
24	5509.6	9.3	487	17	1
25	5509.6	9.9	367	18	1
26	5509.6	7.8	347	16	1
27	5509.6	6.9	251	16	1
28	5509.6	9.9	365	16	1
29	5509.6	7.6	344	17	1
30	5509.6	8.4	485	17	1
Detection Percentage (%)					90%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490.4	11.1	359	14	1
2	5490.4	16.8	443	12	1
3	5490.4	11.7	267	14	1
4	5490.4	11.9	299	12	1
5	5490.4	19.0	453	15	1
6	5490.4	11.3	346	14	1
7	5490.4	19.8	212	13	1
8	5490.4	12.0	271	14	1
9	5490.4	19.3	382	14	1
10	5490.4	17.7	498	15	1
11	5500.0	17.2	481	16	1
12	5500.0	12.7	336	15	0
13	5500.0	15.2	262	13	1
14	5500.0	16.7	298	13	1
15	5500.0	19.8	312	14	0
16	5500.0	12.5	303	14	0
17	5500.0	16.8	204	15	1
18	5500.0	14.0	400	16	1
19	5500.0	12.5	330	12	0
20	5500.0	16.7	438	16	1
21	5509.6	16.5	358	13	1
22	5509.6	16.6	356	14	1
23	5509.6	17.1	474	15	1
24	5509.6	15.4	367	16	1
25	5509.6	17.9	208	12	1
26	5509.6	12.6	497	14	1
27	5509.6	13.5	373	16	0
28	5509.6	18.3	451	12	1
29	5509.6	13.7	289	14	0
30	5509.6	17.1	364	13	1
Detection Percentage (%)					80%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (90\% + 93.3\% + 90\% + 80\%) / 4 = 88.3\% (>80\%)$



Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5500.0	1	16	5496.0	0
2	5500.0	1	17	5496.4	1
3	5500.0	1	18	5494.8	1
4	5500.0	1	19	5493.6	1
5	5500.0	0	20	5494.8	1
6	5500.0	1	21	5504.8	1
7	5500.0	1	22	5502.8	0
8	5500.0	0	23	5501.6	1
9	5500.0	1	24	5503.6	1
10	5500.0	1	25	5505.6	1
11	5497.6	1	26	5505.6	1
12	5496.0	1	27	5502.8	0
13	5497.6	1	28	5506.0	1
14	5497.6	1	29	5503.2	1
15	5498.4	1	30	5501.6	1
Detection Percentage (%)					83.3%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	61.4	7			247.921
2	2	87.1	7	1924		453.36
3	3	71.5	7	1862	1291	677.77
4	2	93.7	7	1597		354.7
5	2	88.3	7	1240		338.85
6	2	72.8	7	1798		335.69
7	2	95.5	7	1927		522.73
8	2	62.2	7	1558		136.96
9	3	93.6	7	1059	1339	596.06
10	2	90.4	7	1506		704.75
11	2	97.5	7	1655		149.17
12	1	89.6	7			331.55
13	2	62.7	7	1343		376.1
14	2	50.4	7	1532		129.61
15	2	52.1	7	1313		568.2
16	2	69.5	7	1563		15.5

**Type 5 Radar Waveform\_2**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	73.1	20	1047		50.205
2	1	78.1	20			342.36
3	1	63.9	20			649.1
4	2	61.5	20	1416		218.36
5	2	67.3	20	1328		536.73
6	1	63.1	20			268.19
7	2	62.2	20	1977		341.62
8	2	62.9	20	1898		544.36
9	1	60.2	20			576.8
10	3	74.9	20	1700	1395	155.17
11	2	96.9	20	1606		684.69
12	1	51.2	20			62.52
13	2	96.9	20	1861		667.47
14	2	95.3	20	1198		241.17
15	3	51	20	1125	1879	159.9
16	3	58.2	20	1127	1283	598.5

**Type 5 Radar Waveform\_3**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	53.8	5			274.633
2	2	96	5	1449		141.638
3	1	78.2	5			355.23
4	2	52.9	5	1060		512.09
5	3	80.2	5	1419	1675	259.41
6	1	55.7	5			584.35
7	1	67.5	5			652.59
8	3	67.2	5	1515	1188	586.52
9	2	75.5	5	1061		551.02
10	1	82.7	5			191.01
11	3	73.1	5	1976	1706	139.18
12	2	59.3	5	1172		2.48
13	3	58.2	5	1429	1207	347.66
14	2	91.8	5	1646		177.2
15	2	57.8	5	1774		551.4

**Type 5 Radar Waveform\_4**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	67.8	16	1564	1564	690.518
2	1	84.2	16			242.24
3	2	81	16	1027		87.97
4	1	56.1	16			749.11
5	2	99.1	16	1583		815.51
6	2	52.9	16	1505		966.84
7	1	64.3	16			582.92
8	2	87.1	16	1677		506.38
9	2	93.3	16	1754		142.43
10	3	57.7	16	1973	1849	1036.8

**Type 5 Radar Waveform\_5**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	66.7	16			594.535
2	3	50.6	16	1660	1781	406.661
3	1	65.9	16			796.812
4	1	88.4	16			825.243
5	3	60.1	16	1600	1947	388.834
6	2	59.8	16	1169		168.955
7	1	50.1	16			769.695
8	2	79.8	16	1353		999.266
9	2	54.6	16	1528		572.047
10	2	52	16	1094		958.018
11	2	92.1	16	1348		65.609

**Type 5 Radar Waveform\_6**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	64.2	16			564.16
2	1	57.1	16			551.97
3	2	66.1	16	1733		295.26
4	3	85.6	16	1878	1584	265.1
5	1	81.9	16			302.35
6	3	53.3	16	1349	1395	500.76
7	1	70.2	16			572.96
8	2	57.3	16	1234		366.62
9	2	67.6	16	1267		459.02
10	3	74.2	16	1978	1032	301.16
11	2	89.3	16	1796		400.99
12	2	86.3	16	1338		119.99
13	2	52.6	16	1557		297.74
14	2	78.7	16	1302		395.45
15	2	88.4	16	1452		545.37
16	1	50.6	16			23.93
17	1	80.6	16			47.01
18	3	76.2	16	2000	1810	222
19	3	75	16	1010	1387	332.4
20	3	54	16	1001	1241	466

**Type 5 Radar Waveform\_7**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	72	12			727.382
2	3	78.5	12	1291	1356	625.701
3	2	75.4	12	1831		14.772
4	2	89.5	12	1554		452.443
5	2	99.9	12	1776		265.494
6	2	99.3	12	1640		176.355
7	2	73.6	12	1713		419.965
8	3	75.3	12	1757	1346	246.696
9	3	72.8	12	1632	1737	739.077
10	3	96	12	1021	1287	527.718
11	3	85.6	12	1590	1333	324.109



Type 5 Radar Waveform_8						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	71.2	20			946.641
2	2	99.5	20	1376		1322.077
3	1	83.9	20			1276.033
4	2	78.5	20	1017		12.33
5	2	89.1	20	1112		469.557
6	1	76.1	20			659.703
7	3	79.7	20	1880	1795	983.91
8	3	52.1	20	1004	1637	1012.767
9	1	60.7	20			922.933

Type 5 Radar Waveform_9						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	97.2	11	1174	1855	511.585
2	3	69.4	11	1372	1349	220.82
3	1	52	11			648.07
4	2	96.2	11	1196		596.66
5	2	85.5	11	1642		443.2
6	2	89.4	11	1154		710.59
7	1	62.5	11			270.56
8	2	59.3	11	1180		601.82
9	2	84.2	11	1398		257.33
10	2	67.1	11	1001		586.97
11	2	50.7	11	1264		461.73
12	1	61.9	11			554.77
13	2	73.7	11	1225		628.66
14	3	59.2	11	1510	1790	398.1
15	2	86.2	11	1702		72.5
16	1	68	11			14.3

Type 5 Radar Waveform_10						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	62	11	1729	1981	41.302
2	2	63.3	11	1247		255.119
3	2	92.1	11	1995		6.182
4	2	84.1	11	1117		234.103
5	2	71.2	11	1438		323.564
6	2	51.3	11	1569		440.435
7	2	61.5	11	2000		82.056
8	3	58.9	11	1254	1393	368.257
9	2	65.4	11	1013		443.908
10	3	78.1	11	1489	1182	550.359
11	2	57.4	11	1637		477.011
12	1	62.4	11			261.422
13	2	56.3	11	1477		285.423
14	2	70.2	11	1534		176.424
15	2	62.2	11	1469		340.875
16	2	78.2	11	1178		481.486
17	2	73.1	11	1740		399.737
18	1	78.2	11			272.458
19	3	52.6	11	1009	1386	350.379

Type 5 Radar Waveform_11						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	87.3	18	1912		355.852
2	3	68.7	18	1345	1688	198.917
3	2	60.7	18	1684		387.653
4	2	91.1	18	1309		168.91
5	1	96.2	18			0.867
6	1	97	18			217.513
7	1	78.1	18			1024.88
8	1	69.9	18			1223.867
9	2	85.8	18	1436		317.233

Type 5 Radar Waveform_12						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	99.8	14	1779		467.008
2	2	64.6	14	1852		24.32
3	2	94.4	14	1480		97.87
4	3	90.6	14	1243	1320	879.94
5	2	75.4	14	1569		4.48
6	2	68.8	14	1719		913.13
7	3	50	14	1976	1188	182.34
8	2	99.8	14	1962		666.5

Type 5 Radar Waveform_13						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	84.4	18	1753	1796	17.5
2	3	71.4	18	1390	1556	239.853
3	2	78.7	18	1237		188.082
4	2	82.2	18	1823		564.603
5	2	87.2	18	1518		369.484
6	1	66.5	18			395.625
7	1	86.6	18			35.346
8	2	82.5	18	1254		454.957
9	1	56	18			307.588
10	2	64.6	18	1827		558.839
11	1	92.5	18			293.381
12	1	90	18			133.542
13	1	99.9	18			153.223
14	2	57.7	18	1912		231.974
15	1	70.3	18			151.375
16	2	60.5	18	1296		571.316
17	1	50.7	18			289.537
18	1	70.5	18			128.058
19	2	57.5	18	1341		314.279



Type 5 Radar Waveform_14						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	53.6	18	1972	1353	1158.6
2	3	54.3	18	1499	1379	157.837
3	3	66.2	18	1916	1803	864.833
4	2	83.9	18	1845		953.56
5	1	79.9	18			451.947
6	1	50.3	18			77.563
7	3	72.8	18	1196	1442	254.83
8	2	78.9	18	1224		1062.967
9	2	68.6	18	1394		814.833

Type 5 Radar Waveform_15						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	52.8	20	1547		1157
2	1	68.7	20			131.16
3	3	63.8	20	1881	1805	265.66
4	3	64.6	20	1761	1736	710
5	2	69.6	20	1228		462.8
6	1	79.7	20			270.69
7	2	93.2	20	1836		923.91
8	2	95.7	20	1210		457.88
9	3	53.1	20	1105	1026	947.4
10	1	94.3	20			504.7

Type 5 Radar Waveform_16						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	92.9	14	1043		681.091
2	2	70.4	14	1314		955.611
3	1	70.5	14			851.972
4	2	74.5	14	1557		888.933
5	3	71.3	14	1254	1350	111.984
6	1	85	14			750.905
7	1	76.2	14			875.215
8	3	61.1	14	1284	1415	479.556
9	3	52.6	14	1514	1263	8.717
10	3	88.8	14	1887	1759	738.618
11	3	86.6	14	1565	1484	49.809



Type 5 Radar Waveform_17						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	81.7	15	1920	1296	318.287
2	1	85	15			298.762
3	3	92.4	15	1890	1753	46.182
4	2	56.4	15	1191		591.103
5	1	71.9	15			181.684
6	2	95.2	15	1755		293.565
7	2	85.8	15	1032		117.516
8	2	69.8	15	1561		269.017
9	2	70.2	15	1893		557.588
10	3	67.6	15	1386	1486	60.369
11	2	73.9	15	1558		346.781
12	3	78	15	1109	1032	476.332
13	2	52.6	15	1718		9.363
14	2	53.9	15	1678		199.824
15	2	63.6	15	1474		66.385
16	3	87.8	15	1343	1751	462.426
17	2	62.4	15	1998		215.537
18	2	93.1	15	1635		361.258
19	2	79.8	15	1910		227.479

Type 5 Radar Waveform_18						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	68.2	11	1038		18.644
2	1	55.1	11			519.95
3	2	79.9	11	1842		324.41
4	1	86.6	11			343.61
5	3	54.8	11	1340	1334	264.18
6	1	81.3	11			465.46
7	2	88.9	11	1547		217.15
8	2	79.4	11	1441		202.9
9	2	57.6	11	1606		214.19
10	2	83.4	11	1586		324.33
11	2	88.1	11	1049		9.27
12	1	61.1	11			264.1
13	2	87.1	11	1333		71.33
14	2	93.6	11	1681		648.2
15	1	97.4	11			598.9
16	3	82.2	11	1285	1364	216.2

Type 5 Radar Waveform_19						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	80.8	8			218.466
2	1	62.5	8			336.913
3	3	87.1	8	1497	1500	192.997
4	1	51.4	8			521.97
5	3	79.8	8	1350	1888	286.343
6	2	89.5	8	1354		522.947
7	1	77.5	8			218.34
8	1	70.1	8			568.333
9	1	91.9	8			67.917
10	3	87.8	8	1408	1449	407.27
11	2	74.5	8	1327		539.833
12	2	57.2	8	1251		385.717
13	2	68.2	8	1519		340.44
14	2	98.7	8	1158		154.173
15	1	83.8	8			438.757
16	1	93	8			579.9
17	2	80.4	8	1532		198.133
18	1	62.6	8			476.167

Type 5 Radar Waveform_20						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	72.9	11			123.093
2	1	56.6	11			622.73
3	2	67.9	11	1730		127.28
4	1	58.6	11			654.34
5	3	53.6	11	1338	1022	297.41
6	2	74.1	11	1980		558.93
7	2	81.7	11	1246		167.83
8	2	96.7	11	1311		441.62
9	1	50.7	11			615.6
10	2	94.9	11	1499		1.63
11	3	83.9	11	1961	1991	236.38
12	2	85.6	11	1216		28.93
13	3	92.9	11	1992	1365	673.4
14	2	54.9	11	1463		539.2
15	2	92	11	1366		259.6

Type 5 Radar Waveform_21						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	69.2	12	1704		310.003
2	2	77.2	12	1065		487.81
3	2	65.3	12	1805		538.88
4	2	91.2	12	1926		706.12
5	2	89.8	12	1255		97.47
6	2	90.2	12	1752		133.3
7	3	59.3	12	1455	1870	99.94
8	2	71.3	12	1235		83.64
9	3	95.8	12	1529	1204	505.51
10	2	74.5	12	1227		105.69
11	2	76.6	12	1977		245.98
12	3	51.2	12	1716	1840	698.79
13	2	96	12	1836		509.33
14	1	84	12			510.9
15	2	89.8	12	1806		256.4
16	2	57.5	12	1786		362

Type 5 Radar Waveform_22						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	95.8	17	1626		1239.15
2	1	76	17			981.707
3	2	58.5	17	1525		264.683
4	2	58.6	17	1617		1319.36
5	1	78.2	17			1077.657
6	1	81.2	17			495.153
7	1	59.7	17			168.92
8	2	61.8	17	1217		293.907
9	2	66.9	17	1122		1247.933

Type 5 Radar Waveform_23						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	54.5	20	1092	1385	418.872
2	2	69.9	20	1109		360.303
3	2	98	20	1813		365.617
4	2	76.9	20	1813		638.06
5	1	84.3	20			259.413
6	3	56.1	20	1939	1636	232.137
7	2	62.2	20	1404		589.83
8	2	52.1	20	1699		581.803
9	2	71.8	20	1639		409.197
10	1	67.7	20			216.15
11	3	77.6	20	1600	1419	576.213
12	1	95.6	20			74.257
13	2	74.9	20	1350		48.37
14	2	92.5	20	1612		597.393
15	2	72.2	20	1476		208.837
16	3	57.1	20	1870	1559	532
17	2	58.7	20	1530		589.733
18	2	88.9	20	1675		567.967

Type 5 Radar Waveform_24						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	95.9	15	1828	1120	536.75
2	2	56.5	15	1046		605.603
3	2	58.3	15	1485		55.577
4	3	78.6	15	1978	1991	559.46
5	2	62.2	15	1237		105.773
6	1	75.6	15			227.007
7	3	97.6	15	1398	1204	309.19
8	2	93	15	1681		610.553
9	2	64.9	15	1681		440.657
10	1	90	15			441.26
11	2	61.4	15	1175		531.013
12	1	51.1	15			78.417
13	2	55.5	15	1028		401.04
14	1	97.9	15			6.963
15	2	51.5	15	1724		362.727
16	3	67.3	15	1358	1446	150.2
17	1	81.8	15			540.833
18	3	56.1	15	1725	1289	560.967

Type 5 Radar Waveform_25						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	83.3	10	1382	1310	335.902
2	3	72.2	10	1374	1865	381.54
3	3	71.4	10	1418	1080	557.48
4	1	79.3	10			672.02
5	2	56.5	10	1635		207.82
6	1	81.1	10			470.75
7	2	62	10	1753		154.63
8	1	62.4	10			50.73
9	2	62.8	10	1465		713.87
10	3	90.3	10	1447	1540	247.35
11	3	78.1	10	1204	1655	461.31
12	2	53.6	10	1881		624.6
13	2	77.1	10	1354		227.41
14	3	70.4	10	1224	1493	97.74
15	2	69.6	10	1303		62.3
16	2	92.6	10	1883		161.2

Type 5 Radar Waveform_26						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	99.8	10			39.236
2	3	51	10	1283	1489	626.227
3	3	81.8	10	1341	1902	1243.563
4	1	82	10			314.31
5	1	62.1	10			565.457
6	3	62.1	10	1960	1472	1169.563
7	3	94.7	10	1189	1014	332.35
8	1	89	10			911.567
9	3	91.4	10	1944	1603	1073.133

Type 5 Radar Waveform_27						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	69.6	17			168.487
2	1	74.3	17			382.633
3	1	64.1	17			681.786
4	1	80.5	17			606.469
5	2	66.1	17	1814		641.462
6	2	91.2	17	1624		457.335
7	2	68.7	17	1044		556.038
8	3	86.9	17	1689	1819	417.412
9	1	53.6	17			501.215
10	2	56.3	17	1626		246.478
11	2	83.5	17	1939		617.621
12	2	80	17	1640		705.654
13	2	60	17	1352		523.877

Type 5 Radar Waveform_28						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	82	9	1518		81.227
2	2	70.5	9	1587		417.711
3	3	69.7	9	1197	1648	100.212
4	2	71.5	9	1457		145.353
5	3	60.4	9	1479	1714	421.304
6	2	96.5	9	1473		502.405
7	2	91.6	9	1048		401.796
8	1	51.1	9			116.477
9	3	92.9	9	1758	1385	44.058
10	1	77.1	9			293.129
11	1	54.2	9			40.561
12	3	67	9	1665	1445	156.092
13	2	63.1	9	1211		173.453
14	1	64.2	9			417.694
15	1	70.8	9			270.435
16	3	61.5	9	1636	1904	507.876
17	2	87.7	9	1587		85.937
18	1	84.1	9			258.358
19	3	96.4	9	1890	1673	369.979

Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	97.5	16	1301	1838	121.558
2	1	93.7	16			735.39
3	3	60	16	1308	1276	518.58
4	2	92.1	16	1079		640.46
5	2	51.2	16	1864		240.38
6	3	96.1	16	1946	1633	725.69
7	1	51.8	16			474.47
8	1	54.2	16			484.45
9	2	73.5	16	1391		435.96
10	2	50.7	16	1946		564.58
11	2	51	16	1574		442.16
12	3	69.6	16	1911	1493	11.87
13	1	74.5	16			439.5
14	2	68.6	16	1010		556.5
15	1	64.4	16			76.4
16	1	97.4	16			130.6

Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	81.1	20	1695		904.786
2	2	97.8	20	1081		160.757
3	3	73.5	20	1458	1009	26.763
4	2	98.8	20	1150		720.96
5	3	53.1	20	1479	1143	708.827
6	1	62.8	20			1011.193
7	3	67	20	1555	1547	813.62
8	1	51.7	20			762.467
9	2	90.9	20	1091		710.233

## Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5490.4	1	16	5500.0	1
2	5490.4	1	17	5500.0	1
3	5490.4	1	18	5500.0	1
4	5490.4	1	19	5500.0	1
5	5490.4	1	20	5500.0	1
6	5490.4	1	21	5509.6	1
7	5490.4	1	22	5509.6	1
8	5490.4	1	23	5509.6	1
9	5490.4	1	24	5509.6	1
10	5490.4	1	25	5509.6	1
11	5500.0	1	26	5509.6	1
12	5500.0	1	27	5509.6	1
13	5500.0	1	28	5509.6	1
14	5500.0	1	29	5509.6	1
15	5500.0	1	30	5509.6	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
33	5501	99	23	5497	69
39	5493	117	43	5502	129
46	5497	138	47	5490	141
57	5491	171	50	5496	150
93	5494	279	53	5503	159
--	--	--	86	5504	258

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
54	5492	162	39	5496	117
58	5498	174	80	5491	240
77	5506	231	94	5494	282
86	5507	258	98	5499	294
97	5494	291	--	--	--

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
48	5504	144	42	5504	126
57	5490	171	78	5494	234
77	5508	231	86	5490	258
84	5510	252	--	--	--
99	5493	297	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5506	18	13	5509	39
11	5498	33	28	5510	84
44	5500	132	49	5495	147
84	5505	252	53	5499	159
98	5496	294	64	5498	192
--	--	--	96	5501	288



Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5505	12	19	5490	57
33	5506	99	68	5508	204
58	5504	174	86	5510	258
74	5503	222	--	--	--
81	5491	243	--	--	--
93	5496	279	--	--	--
Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Frequency (MHz)	Hopping Number	Pulse Start (ms)
35	5495	105	10	5510	30
44	5497	132	81	5505	243
47	5504	141	83	5499	249
56	5493	168	86	5500	258
59	5491	177	90	5490	270
76	5500	228	--	--	--

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
47	5504	141	7	5501	21
66	5500	198	9	5498	27
74	5508	222	17	5500	51
87	5502	261	55	5504	165

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
24	5502	72	3	5496	9
25	5495	75	15	5495	45
29	5494	87	23	5506	69
42	5504	126	56	5492	168
47	5503	141	70	5503	210
74	5500	222	76	5490	228
82	5506	246	--	--	--

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
27	5493	81	12	5505	36
29	5504	87	28	5509	84
46	5503	138	--	--	--
49	5492	147	--	--	--
51	5497	153	--	--	--
86	5500	258	--	--	--
91	5494	273	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
42	5570	126	55	5496	165
72	5586	216	63	5510	189

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5503	9	23	5503	69
8	5496	24	45	5508	135
9	5502	27	76	5504	228
50	5497	150	83	5492	249
59	5508	177	89	5510	267
62	5509	186	90	5501	270
98	5491	294	--	--	--

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
17	5499	51	15	5495	45
34	5495	102	--	--	--
60	5509	180	--	--	--
81	5492	243	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
16	5491	48	35	5496	105
85	5503	255	61	5504	183
91	5496	273	63	5500	189
--	--	--	69	5507	207
--	--	--	97	5499	291

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
15	5508	45	51	5504	153
23	5493	69	70	5507	210
57	5496	171	94	5496	282
59	5490	177	--	--	--
97	5495	291	--	--	--
98	5499	294	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
28	5502	84	4	5502	12
29	5494	87	10	5510	30
48	5504	144	21	5505	63
64	5501	192	--	--	--
66	5497	198	--	--	--
75	5505	225	--	--	--



Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/08
Test Item	Radar Statistical Performance Check (802.11ax-HE40 mode – 5510MHz)		

## Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	1	858	62	1
2	5491	1	598	89	1
3	5491	1	758	70	1
4	5491	1	918	58	1
5	5500	1	718	74	1
6	5500	1	658	81	1
7	5500	1	898	59	1
8	5500	1	638	83	1
9	5509	1	938	57	1
10	5509	1	3066	18	1
11	5509	1	558	95	1
12	5509	1	538	98	1
13	5510	1	618	86	1
14	5510	1	578	92	1
15	5510	1	738	72	1
16	5510	1	1028	52	1
17	5511	1	2814	19	1
18	5511	1	1956	27	1
19	5511	1	2543	21	1
20	5511	1	519	102	1
21	5520	1	1215	44	1
22	5520	1	1684	32	1
23	5520	1	1092	49	1
24	5520	1	2989	18	1
25	5529	1	2688	20	1
26	5529	1	2986	18	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5529	1	1912	28	1
28	5529	1	1479	36	1
29	5510	1	1509	35	1
30	5510	1	1473	36	1
Detection Percentage (%)					100%



## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	1.0	225	26	1
2	5491	3.6	211	23	1
3	5491	4.2	164	23	1
4	5491	1.3	164	28	0
5	5500	2.0	195	25	0
6	5500	1.7	199	26	1
7	5500	2.9	208	23	1
8	5500	1.0	154	24	1
9	5509	4.1	185	29	1
10	5509	3.8	225	26	1
11	5509	4.9	204	26	1
12	5509	1.7	208	25	1
13	5510	3.8	187	26	1
14	5510	2.3	192	27	1
15	5510	2.8	205	25	1
16	5510	1.6	192	25	1
17	5511	1.8	172	28	1
18	5511	1.2	226	24	1
19	5511	3.6	185	28	0
20	5511	3.8	199	26	1
21	5520	3.4	154	29	0
22	5520	4.9	153	27	1
23	5520	2.4	161	23	0
24	5520	2.4	154	24	1
25	5529	4.7	163	25	1
26	5529	4.7	208	27	1
27	5529	2.4	190	29	1
28	5529	1.5	150	27	1
29	5510	4.8	183	26	1
30	5510	2.8	206	27	1
Detection Percentage (%)					86.6%



## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	6.6	288	18	1
2	5491	6.7	341	17	1
3	5491	9.1	295	17	1
4	5491	8.6	437	18	0
5	5500	9.7	283	16	1
6	5500	8.7	422	17	1
7	5500	7.0	251	18	1
8	5500	7.0	229	18	0
9	5509	8.0	380	17	0
10	5509	9.4	342	17	1
11	5509	6.3	460	17	1
12	5509	8.8	268	16	1
13	5510	7.9	291	17	1
14	5510	9.3	244	17	1
15	5510	9.1	380	17	1
16	5510	9.3	269	17	0
17	5511	6.5	336	17	1
18	5511	9.6	289	17	0
19	5511	9.8	440	17	1
20	5511	8.8	239	17	1
21	5520	8.7	466	18	1
22	5520	8.0	411	17	1
23	5520	8.3	435	18	0
24	5520	6.0	314	17	0
25	5529	9.7	474	18	1
26	5529	9.4	282	16	1
27	5529	8.6	281	17	1
28	5529	6.3	297	17	1
29	5510	8.2	317	18	1
30	5510	8.8	226	16	1
Detection Percentage (%)					76.6%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	19.6	489	16	1
2	5491	18.3	342	16	1
3	5491	15.2	287	13	0
4	5491	16.1	490	13	1
5	5500	19.3	246	14	1
6	5500	14.6	212	14	1
7	5500	12.9	364	15	0
8	5500	18.3	457	13	1
9	5509	14.2	279	15	1
10	5509	16.4	437	13	1
11	5509	16.5	359	16	1
12	5509	19.5	221	15	1
13	5510	17.7	467	16	1
14	5510	17.6	322	15	1
15	5510	14.6	470	14	0
16	5510	14.6	452	16	1
17	5511	19.6	411	13	1
18	5511	19.1	474	16	1
19	5511	15.0	306	14	1
20	5511	14.3	440	16	1
21	5520	17.0	439	16	0
22	5520	16.7	329	13	1
23	5520	19.3	321	14	1
24	5520	12.1	216	14	1
25	5529	17.4	305	16	1
26	5529	17.9	224	14	1
27	5529	14.7	423	16	1
28	5529	18.0	201	12	1
29	5510	13.3	273	15	1
30	5510	14.8	402	13	1
Detection Percentage (%)					86.6%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows: 
$$\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 86.6\% + 76.6\% + 86.6\%) / 4 = 87.5\% (>80\%)$$





Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5510.0	1	16	5493.0	1
2	5510.0	1	17	5493.0	1
3	5510.0	0	18	5497.4	1
4	5510.0	1	19	5495.4	1
5	5510.0	1	20	5498.6	0
6	5510.0	1	21	5523.8	1
7	5510.0	1	22	5521.8	0
8	5510.0	0	23	5526.2	1
9	5510.0	1	24	5523.4	1
10	5510.0	1	25	5522.2	1
11	5493.4	1	26	5524.6	1
12	5493.0	1	27	5521.0	1
13	5497.8	0	28	5525.4	1
14	5493.0	1	29	5525.8	1
15	5494.2	1	30	5525.0	1
Detection Percentage (%)					83.3%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width (µ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	50	6	1769	1107	544.421
2	1	92.4	6			406.043
3	2	51.5	6	1885		562.117
4	2	55.1	6	1148		215.14
5	2	72.5	6	1411		632.933
6	1	65.9	6			496.077
7	2	63	6	1818		207.09
8	2	64.4	6	1673		555.323
9	2	89.6	6	1004		95.027
10	1	79.8	6			178.91
11	2	76.5	6	1574		631.043
12	1	90.5	6			142.627
13	2	51.1	6	1866		121.36
14	2	70.3	6	1695		567.773
15	3	52.8	6	1103	1324	459.167
16	3	68.1	6	1560	1381	186.3
17	2	76.9	6	1824		360.833
18	1	87.7	6			318.667



Type 5 Radar Waveform_2						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	57.3	19	1504		268.594
2	2	85.4	19	1443		595.96
3	2	75	19	1750		234.9
4	2	52.2	19	1028		250.83
5	2	98.4	19	1329		654.56
6	2	53.7	19	1234		764.91
7	2	87.8	19	1656		222.75
8	2	66.3	19	1762		231.59
9	1	75.6	19			489.77
10	1	54.5	19			2.06
11	2	92.7	19	1887		698.46
12	3	68.7	19	1056	1778	656.38
13	2	91.5	19	1412		687.5
14	3	83.2	19	1288	1716	481.6
15	3	92	19	1297	1457	124

Type 5 Radar Waveform_3						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	85.8	19	1399	1873	445.864
2	1	85.6	19			262.24
3	1	89.9	19			790.7
4	1	93.2	19			590.42
5	2	59	19	1600		722.35
6	1	90	19			384.81
7	2	97.2	19	1349		405.35
8	2	65.5	19	1880		694.12
9	2	73.4	19	1573		522.71
10	2	91.1	19	1678		343.99
11	3	58.2	19	1363	1232	130.5
12	1	54.1	19			164.01
13	1	84.2	19			338.46
14	2	84.5	19	1778		122.1
15	2	60.4	19	1345		61.7

Type 5 Radar Waveform_4						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	96.8	7	1061	1274	609.971
2	2	68.5	7	1253		357.537
3	1	86.5	7			190.674
4	2	95.6	7	1424		298.991
5	3	83.6	7	1977	1143	752.109
6	1	82.3	7			613.866
7	2	82.3	7	1658		444.993
8	2	81.8	7	1240		747.31
9	3	69	7	1249	1580	608.587
10	1	75.5	7			842.814
11	2	86.7	7	1544		165.361
12	2	50.1	7	1360		325.489
13	1	75.1	7			576.786
14	1	66.2	7			714.743

Type 5 Radar Waveform_5						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	90.8	10	1272	1047	675.85
2	2	59.2	10	1983		635.58
3	2	91.3	10	1386		288.04
4	3	88.2	10	1088	1413	737.33
5	1	71.8	10			700.9
6	1	70.4	10			124.05
7	1	79.7	10			541.48
8	2	62.3	10	1028		404.3
9	2	57.3	10	1531		559.89
10	2	99.9	10	1447		427.75
11	1	57.9	10			68.28
12	2	71.8	10	1194		732.66
13	2	61.9	10	1151		265.17
14	1	79.4	10			95.7
15	3	53.4	10	1309	1094	230.2

Type 5 Radar Waveform_6						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	63.9	7	1360	1190	220.107
2	2	74.9	7	1373		255.97
3	3	69.7	7	1248	1484	541.98
4	3	95.8	7	1884	1444	316.19
5	2	59.2	7	1263		716.63
6	2	78.9	7	1821		214.07
7	1	98.7	7			157.81
8	1	68.1	7			5.46
9	2	54.8	7	1064		617.44
10	3	65.7	7	1868	1657	4.24
11	2	55.1	7	1851		300.8
12	3	79.6	7	1831	1084	61.26
13	3	99.5	7	1417	1829	648.8
14	2	96.2	7	1104		601.2
15	3	56.2	7	1114	1702	54.9

Type 5 Radar Waveform_7						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	61.3	17	1851	1205	488.437
2	3	87	17	1877	1552	479.471
3	1	68.1	17			389.802
4	2	63.4	17	1608		95.913
5	2	51.3	17	1603		698.254
6	3	82.9	17	1942	1932	7.555
7	2	52.1	17	1918		490.785
8	2	91.4	17	1477		907.696
9	2	97.1	17	1192		841.777
10	3	88.4	17	1157	1744	468.918
11	1	51.8	17			1025.109

**Type 5 Radar Waveform\_8**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	64.6	11	1164		553.482
2	2	80.3	11	1616		326.138
3	2	94.8	11	1356		14.54
4	3	63.1	11	1738	1612	188.45
5	3	83.4	11	1402	1871	55.19
6	2	78.8	11	1826		289.24
7	3	95.1	11	1768	1541	288.31
8	2	70.5	11	1896		457.55
9	1	52.8	11			583.88
10	1	85.3	11			518.25
11	2	58.3	11	1451		217.37
12	1	96.1	11			62.78
13	1	77	11			309.89
14	2	93.5	11	1458		180.31
15	3	83.4	11	1879	1443	446.4
16	2	65.4	11	1119		589.91
17	3	72	11	1516	1047	516.8
18	2	52.6	11	1321		395.4
19	1	74.2	11			485.5
20	2	79.6	11	1228		461.6

**Type 5 Radar Waveform\_9**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	98	9			461.666
2	2	66.1	9	1097		243.582
3	3	74.8	9	1936	1350	133.162
4	2	89.8	9	1560		408.893
5	2	72.9	9	1521		613.614
6	2	69.5	9	1103		42.095
7	3	50.4	9	1969	1880	544.826
8	3	72.7	9	1058	1323	586.137
9	1	83.5	9			45.978
10	3	97.2	9	1459	1118	623.319
11	2	99.3	9	1629		600.141
12	2	73.2	9	1225		400.812
13	2	82	9	1152		101.983
14	3	81.4	9	1172	1767	269.794
15	1	76.9	9			539.745
16	1	74	9			124.296
17	1	53.8	9			241.737
18	1	62	9			135.558
19	2	53.1	9	1980		595.479

**Type 5 Radar Waveform\_10**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	66.8	20	1310		842.143
2	2	78.6	20	1563		1177.987
3	2	97.5	20	1682		123.103
4	3	85.8	20	1469	1945	632.34
5	2	85.4	20	1523		607.147
6	2	50.9	20	1316		719.543
7	2	98.9	20	1646		191.18
8	2	56	20	1518		1064.167
9	1	60.1	20			323.433



Type 5 Radar Waveform_11						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	57.7	6	1309		678.99
2	2	81.4	6	1237		348.74
3	2	58.6	6	1863		594.79
4	2	64	6	1983		242.71
5	2	81	6	1076		48.25
6	2	85.7	6	1692		420.71
7	1	78.1	6			656.26
8	1	85.9	6			4.25
9	1	57.7	6			501.29
10	3	54.5	6	1654	1893	215.66
11	1	53.1	6			437.69
12	2	70.3	6	1210		32.35
13	2	70.6	6	1796		146.83
14	2	50.8	6	1537		627.7
15	2	87.2	6	1491		561.1
16	3	81.3	6	1898	1546	567.1

Type 5 Radar Waveform_12						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	79	5	1559	1553	370.425
2	2	51.8	5	1962		482.847
3	3	95.4	5	1839	1913	86.824
4	2	97.6	5	1520		777.451
5	3	88.2	5	1264	1733	356.969
6	2	82.4	5	1959		824.046
7	2	73.9	5	1983		168.403
8	3	99.7	5	1497	1900	366.68
9	2	67.4	5	1981		463.037
10	2	77.7	5	1742		689.744
11	2	75.6	5	1977		143.921
12	1	70.5	5			446.679
13	2	74.7	5	1751		360.286
14	2	68.1	5	1898		587.443

Type 5 Radar Waveform_13						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	83.9	17	1143		385.354
2	2	66.9	17	1229		357.993
3	1	94	17			350.717
4	2	65.2	17	1283		135.79
5	2	62.3	17	1685		657.773
6	2	56.9	17	1612		231.537
7	2	57.6	17	1209		346.87
8	3	60.8	17	1421	1930	615.153
9	2	50.8	17	1017		222.327
10	2	88.6	17	1193		187.49
11	3	54.4	17	1729	1056	43.373
12	3	52.8	17	1185	1894	460.767
13	2	83.7	17	1112		273.78
14	3	81.7	17	1101	1624	95.233
15	2	75.6	17	1900		605.727
16	2	82.5	17	1434		169.4
17	3	61.4	17	1949	1443	522.133
18	2	90.7	17	1376		494.667

Type 5 Radar Waveform_14						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	80	5	1695		342.951
2	2	93.1	5	1997		24.971
3	2	83.1	5	1254		481.277
4	2	71.2	5	1244		234.57
5	1	90.2	5			21.513
6	1	61.4	5			100.297
7	3	86.7	5	1023	1094	51.26
8	2	53.3	5	1253		161.473
9	1	86.5	5			582.677
10	2	63.6	5	1850		508.43
11	2	65.6	5	1675		499.793
12	1	82.6	5			521.837
13	2	63.6	5	1074		93.18
14	3	100	5	1462	1985	63.683
15	3	53	5	1426	1693	647.467
16	2	60.8	5	1734		581
17	2	62.2	5	1810		419.233
18	2	54.3	5	1146		357.167

Type 5 Radar Waveform_15						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	92.5	8	1768		134.759
2	1	71.7	8			382.301
3	3	61.4	8	1750	1857	261.392
4	3	71.7	8	1165	1007	527.123
5	1	86.3	8			351.044
6	2	70.1	8	1456		309.225
7	1	79.9	8			154.756
8	2	76.5	8	1864		51.657
9	2	55	8	1571		85.948
10	2	97.2	8	1584		484.849
11	1	86.3	8			513.551
12	3	57.7	8	1675	1990	384.062
13	3	66.3	8	1987	1932	307.303
14	2	52.6	8	1123		561.834
15	1	92.8	8			231.145
16	2	99.8	8	1558		475.306
17	2	63.9	8	1323		320.437
18	2	74.5	8	1562		406.758
19	2	80.4	8	1978		567.479

Type 5 Radar Waveform_16						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	79.9	5			856.652
2	1	52.8	5			640.83
3	3	61.4	5	1348	1219	802.92
4	2	62.3	5	1047		707.79
5	2	92.2	5	1997		809.24
6	1	86.6	5			141.96
7	2	98.9	5	1581		961.28
8	2	96.3	5	1711		281.73
9	2	63.1	5	1799		544.58
10	2	85.1	5	1318		880.24
11	2	53.1	5	1004		403.7
12	1	84.1	5			89.3

Type 5 Radar Waveform_17						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	91.4	5	1541		452.374
2	1	82.4	5			830.057
3	2	83.9	5	1400		783.334
4	1	78.1	5			749.001
5	2	69.1	5	1149		651.059
6	2	57.1	5	1375		225.336
7	2	87.9	5	1545		503.993
8	2	85.2	5	1428		322.45
9	2	90.7	5	1712		468.317
10	1	59.2	5			330.634
11	1	53.5	5			558.931
12	2	54.5	5	1849		140.759
13	2	58.1	5	1965		203.386
14	1	50.6	5			8.643

Type 5 Radar Waveform_18						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	95.2	16	1189	1521	1241.51
2	1	76.6	16			897.287
3	2	82.5	16	1535		1282.413
4	2	98.8	16	1394		851.49
5	1	51.4	16			512.867
6	2	97.5	16	1565		891.843
7	1	51.6	16			1305.57
8	2	50.4	16	1517		512.367
9	3	59.6	16	1629	1287	583.033

Type 5 Radar Waveform_19						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	76.2	11			177.189
2	3	73.4	11	1019	1446	812.597
3	3	89.2	11	1029	1921	494.134
4	2	67.8	11	1471		268.341
5	1	89.8	11			240.659
6	2	74.1	11	1423		58.856
7	1	88.9	11			757.803
8	3	69.7	11	1662	1593	149.36
9	3	61.1	11	1347	1105	613.717
10	2	86	11	1163		586.614
11	2	92.8	11	1938		608.111
12	2	88.8	11	1906		732.329
13	1	81.2	11			45.786
14	2	71.8	11	1920		475.843

Type 5 Radar Waveform_20						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	78	19			533.796
2	2	53.5	19	1037		317.247
3	3	52.5	19	1134	1246	516.604
4	1	71.6	19			621.811
5	2	63.1	19	1394		512.099
6	3	68.2	19	1888	1718	776.496
7	2	97.1	19	1372		154.453
8	2	71.6	19	1934		175.4
9	2	75	19	1707		492.597
10	2	77.9	19	1174		58.304
11	3	79.2	19	1277	1030	623.531
12	1	63.1	19			389.639
13	2	88.6	19	1715		308.486
14	3	83.2	19	1445	1442	791.343

Type 5 Radar Waveform_21						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	91.9	13	1709	1126	487.998
2	1	95.2	13			496.141
3	2	70.5	13	1919		553.162
4	1	83.3	13			492.903
5	3	51.7	13	1807	1226	94.854
6	2	70.2	13	1784		173.575
7	2	67.5	13	1436		488.636
8	2	92.7	13	1536		145.817
9	2	79.1	13	1036		482.558
10	2	99.6	13	1763		140.949
11	3	93.7	13	1830	1493	567.221
12	2	77.7	13	1773		423.912
13	3	90	13	1991	1883	415.273
14	2	100	13	1923		405.714
15	3	66.8	13	1210	1007	446.195
16	2	93.8	13	1482		221.676
17	2	90.8	13	1272		458.637
18	1	75.7	13			181.158
19	1	68.1	13			396.179

Type 5 Radar Waveform_22						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	67.9	18	1303		113.265
2	1	63.4	18			766.443
3	2	77.8	18	1107		60.676
4	2	83.5	18	1334		587.019
5	2	88.5	18	1323		571.222
6	2	63.9	18	1503		758.935
7	2	52	18	1399		598.528
8	1	79.8	18			322.532
9	1	52.7	18			789.685
10	2	92.1	18	1006		214.978
11	2	59	18	1197		166.251
12	1	81.4	18			786.854
13	2	70.3	18	1596		548.977





Type 5 Radar Waveform_23						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	81.2	7	1714	1596	231.321
2	2	67	7	1251		512.86
3	2	50.6	7	1965		557.55
4	2	58.6	7	1338		358.69
5	1	59.6	7			366.5
6	2	69.2	7	1657		529.27
7	1	84.2	7			629.55
8	3	64.3	7	1759	1117	205.81
9	1	99.6	7			466.78
10	2	97.8	7	1108		278.55
11	1	70.1	7			312.56
12	2	84.4	7	1883		436.72
13	2	90.1	7	1774		711.7
14	1	53	7			741.4
15	3	57.4	7	1993	1225	716.6
16	3	94.1	7	1914	1441	36.5

Type 5 Radar Waveform_24						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	92.1	14	1800		279.073
2	1	74.7	14			360.048
3	1	70.1	14			153.085
4	3	59.4	14	1570	1339	461.473
5	2	85.6	14	1709		484.631
6	2	51.6	14	1091		361.078
7	3	50.8	14	1317	1425	550.126
8	2	56.1	14	1084		186.094
9	1	96.6	14			19.611
10	3	99.9	14	1990	1478	48.059
11	1	85.4	14			608.486
12	1	67.7	14			646.784
13	3	75.9	14	1775	1100	656.162
14	2	50.6	14	1141		508.269
15	3	58.1	14	1370	1689	480.347
16	3	51.7	14	1336	1519	395.465
17	3	61.4	14	1059	1376	332.482

Type 5 Radar Waveform_25						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	84.6	17	1752	1471	61.05
2	1	68	17			156.726
3	1	89	17			323.757
4	1	88.8	17			76.9
5	2	53.4	17	1749		583.863
6	2	89.7	17	1003		208.007
7	3	66.4	17	1075	1816	607.49
8	2	90.4	17	1209		471.273
9	1	60.1	17			531.397
10	3	69.6	17	1528	1753	369.6
11	2	66.9	17	1496		434.723
12	3	91.2	17	1430	1066	118.567
13	3	92.8	17	1640	1890	68.37
14	3	97.4	17	1217	1951	455.883
15	3	67	17	1543	1964	658.237
16	3	69.2	17	1886	1615	506
17	3	79.9	17	1532	1179	316.133
18	3	81.3	17	1247	1964	353.767

Type 5 Radar Waveform_26						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	61.2	11	1368		672.407
2	1	53.2	11			161.577
3	1	92.1	11			394.98
4	2	88	11	1299		106.1
5	1	60.2	11			652.5
6	3	84.7	11	1058	1622	308.81
7	3	57.7	11	1694	1308	361.8
8	1	87.1	11			184.97
9	1	51.9	11			47.31
10	2	71.7	11	1179		414.91
11	2	88.1	11	1491		713.43
12	1	60.8	11			77.77
13	2	55.5	11	1967		316.6
14	3	92.7	11	1199	1991	390.1
15	2	95.6	11	1174		302.7

Type 5 Radar Waveform_27						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	95.2	20	1529		972.255
2	3	63.1	20	1102	1534	967.7
3	3	75.6	20	1606	1606	373.76
4	3	79.1	20	1846	1773	834.59
5	2	71.7	20	1765		131.46
6	2	71.3	20	1583		503.07
7	2	67.8	20	1120		949.68
8	3	85.3	20	1610	1106	898.05
9	2	78	20	1618		309.34
10	2	79.5	20	1067		236.22
11	2	79.5	20	1666		660.3
12	2	67.1	20	1878		512.4

Type 5 Radar Waveform_28						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	82	9	1809		431.289
2	1	85.1	9			105.557
3	2	74.1	9	1711		230.703
4	2	92.6	9	1243		428.98
5	3	92.3	9	1850	1777	890.207
6	3	81.7	9	1420	1888	1255.053
7	1	92	9			814.74
8	3	88.6	9	1932	1462	851.567
9	1	52	9			756.733



Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	84.6	8	1261		244.534
2	2	52.8	8	1692		255.645
3	2	89.9	8	1074		319.902
4	3	90.2	8	1654	1793	261.273
5	1	70.7	8			618.474
6	2	53.3	8	1713		568.545
7	2	53	8	1216		438.226
8	3	78	8	1268	1692	191.227
9	1	55.1	8			491.918
10	2	73.8	8	1658		570.559
11	1	66	8			319.051
12	2	57.6	8	1599		254.892
13	1	99.6	8			580.283
14	2	68.3	8	1428		614.444
15	3	98.2	8	1465	1181	163.985
16	2	94	8	1220		525.026
17	2	94.7	8	1337		492.637
18	3	71.4	8	1804	1746	200.158
19	2	69.1	8	1550		610.879

Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	83.9	10	1108		376.189
2	2	62.6	10	1417		461.99
3	2	65.5	10	1678		91.92
4	3	90.6	10	1844	1041	311.57
5	2	66.1	10	1209		612.64
6	3	79.8	10	1516	1919	583.4
7	1	77.6	10			436.51
8	1	98.3	10			579.96
9	2	96.8	10	1156		310.75
10	2	55.4	10	1132		131.39
11	2	88.6	10	1684		76.92
12	2	58.4	10	1954		92.54
13	2	54.4	10	1935		292.82
14	3	92.1	10	1925	1281	74.77
15	2	85.4	10	1492		733.4
16	2	88.9	10	1756		140.1



Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5491	1	16	5510	1
2	5491	1	17	5511	1
3	5491	1	18	5511	1
4	5491	1	19	5511	1
5	5500	1	20	5511	1
6	5500	1	21	5520	1
7	5500	1	22	5520	1
8	5500	1	23	5520	1
9	5509	1	24	5520	1
10	5509	1	25	5529	1
11	5509	1	26	5529	1
12	5509	1	27	5529	1
13	5510	1	28	5529	1
14	5510	1	29	5510	1
15	5510	1	30	5510	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
22	5502	66	1	5527	3
44	5508	132	25	5504	75
66	5522	198	33	5517	99
67	5519	201	42	5530	126
80	5494	240	43	5500	129
93	5516	279	50	5503	150
--	--	--	55	5515	165
--	--	--	66	5518	198
--	--	--	74	5525	222
--	--	--	90	5516	270
--	--	--	95	5512	285

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5515	27	7	5499	21
10	5517	30	21	5496	63
27	5506	81	41	5527	123
72	5505	216	51	5519	153
99	5518	297	57	5494	171
--	--	--	66	5521	198
--	--	--	67	5517	201
--	--	--	84	5520	252
--	--	--	93	5492	279
--	--	--	98	5502	294

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5509	24	16	5524	48
12	5492	36	27	5490	81
16	5495	48	29	5510	87
43	5523	129	36	5492	108
46	5501	138	43	5503	129
50	5522	150	46	5501	138
56	5503	168	68	5496	204
64	5505	192	69	5504	207
65	5494	195	73	5498	219
70	5499	210	81	5523	243
87	5513	261	82	5516	246
--	--	--	92	5495	276
--	--	--	93	5500	279

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
16	5505	48	8	5498	24
21	5507	63	11	5526	33
28	5503	84	22	5507	66
50	5516	150	29	5509	87
77	5524	231	30	5521	90
82	5529	246	31	5490	93
83	5490	249	35	5506	105
85	5521	255	38	5516	114
93	5509	279	44	5528	132
--	--	--	60	5510	180
--	--	--	68	5497	204
--	--	--	69	5520	207
--	--	--	70	5493	210
--	--	--	83	5529	249
--	--	--	86	5499	258
--	--	--	90	5527	270

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5521	27	1	5490	3
11	5506	33	15	5523	45
14	5528	42	16	5516	48
17	5501	51	18	5506	54
24	5508	72	32	5494	96
43	5505	129	41	5520	123
72	5491	216	72	5521	216
82	5492	246	95	5501	285
90	5499	270	--	--	--
99	5523	297	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
18	5507	54	6	5514	18
32	5502	96	9	5500	27
40	5514	120	13	5495	39
59	5527	177	19	5508	57
61	5499	183	36	5518	108
65	5510	195	37	5501	111
83	5498	249	42	5517	126
90	5517	270	69	5512	207
--	--	--	79	5516	237
--	--	--	80	5511	240
--	--	--	81	5528	243
--	--	--	92	5530	276
--	--	--	93	5526	279

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5524	9	5	5527	15
26	5510	78	14	5522	42
30	5521	90	34	5494	102
34	5506	102	78	5529	234

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5520	33	2	5526	6
13	5510	39	6	5529	18
22	5518	66	18	5492	54
47	5506	141	27	5525	81
56	5521	168	30	5516	90
60	5495	180	54	5524	162
68	5513	204	80	5517	240
85	5501	255	84	5508	252
95	5497	285	88	5513	264

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5523	30	26	5499	78
42	5517	126	43	5498	129
57	5496	171	45	5522	135
61	5494	183	54	5495	162
67	5501	201	75	5491	225
74	5491	222	78	5513	234
80	5511	240	96	5524	288
--	--	--	99	5497	297



Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5526	9	7	5521	21
4	5496	12	29	5529	87
13	5511	39	31	5520	93
15	5508	45	53	5528	159
17	5528	51	57	5490	171
21	5497	63	86	5507	258
23	5495	69	--	--	--
27	5516	81	--	--	--
69	5525	207	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5494	33	6	5528	18
23	5520	69	10	5526	30
28	5519	84	25	5491	75
42	5495	126	30	5509	90
55	5502	165	43	5527	129
71	5512	213	45	5500	135
87	5496	261	59	5498	177
--	--	--	68	5503	204
--	--	--	73	5519	219
--	--	--	81	5492	243
--	--	--	93	5529	279
--	--	--	97	5520	291

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5525	3	13	5501	39
14	5527	42	24	5519	72
15	5497	45	35	5517	105
38	5516	114	80	5526	240
54	5503	162	89	5528	267
63	5502	189	94	5510	282
69	5518	207	--	--	--
77	5498	231	--	--	--
80	5509	240	--	--	--
81	5512	243	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5522	3	27	5515	81
23	5507	69	36	5511	108
38	5490	114	39	5525	117
39	5508	117	54	5520	162
47	5495	141	63	5508	189
49	5521	147	71	5518	213
75	5493	225	98	5509	294
76	5496	228	99	5514	297
81	5512	243	100	5522	300
89	5523	267	--	--	--
94	5502	282	--	--	--
95	5509	285	--	--	--
97	5501	291	--	--	--

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5527	12	21	5505	63
7	5499	21	23	5518	69
9	5516	27	41	5530	123
23	5494	69	47	5514	141
35	5530	105	50	5511	150
68	5497	204	57	5495	171
75	5523	225	70	5516	210
--	--	--	86	5507	258
--	--	--	97	5509	291

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5512	21	7	5525	21
14	5514	42	44	5493	132
21	5510	63	58	5507	174
36	5499	108	71	5505	213
43	5520	129	84	5530	252
52	5502	156	90	5515	270
55	5505	165	93	5511	279
80	5497	240	--	--	--
82	5493	246	--	--	--
85	5492	255	--	--	--
89	5504	267	--	--	--
96	5503	288	--	--	--



Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/08
Test Item	Radar Statistical Performance Check (802.11ax-HE80 mode – 5530MHz)		

## Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	1	758	70	1
2	5491	1	578	92	1
3	5500	1	898	59	1
4	5500	1	658	81	1
5	5509	1	598	89	1
6	5509	1	798	67	1
7	5510	1	538	98	1
8	5510	1	778	68	1
9	5511	1	858	62	1
10	5511	1	738	72	1
11	5520	1	678	78	1
12	5520	1	698	76	1
13	5529	1	718	74	1
14	5529	1	818	65	1
15	5530	1	838	63	1
16	5530	1	2478	22	1
17	5531	1	2590	21	1
18	5531	1	1181	45	1
19	5540	1	2601	21	1
20	5540	1	2679	20	1
21	5549	1	1340	40	1
22	5549	1	1898	28	1
23	5550	1	2733	20	1
24	5550	1	1202	44	1
25	5551	1	1704	31	1
26	5551	1	1191	45	1

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5560	1	1866	29	1
28	5560	1	1743	31	1
29	5569	1	2743	20	1
30	5569	1	2966	18	1
Detection Percentage (%)					100%

## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	2.7	189	27	0
2	5491	2.5	199	28	1
3	5500	2.6	168	26	1
4	5500	2.1	219	24	1
5	5509	3.4	183	26	1
6	5509	2.1	213	29	1
7	5510	3.3	178	24	1
8	5510	2.4	172	26	1
9	5511	4.4	161	23	1
10	5511	3.5	166	23	1
11	5520	4.3	186	23	1
12	5520	3.6	174	28	1
13	5529	4.1	164	27	1
14	5529	3.3	172	28	1
15	5530	1.7	175	25	1
16	5530	1.9	187	24	0
17	5531	4.3	155	29	1
18	5531	3.0	214	27	1
19	5540	4.3	204	25	1
20	5540	3.0	181	27	1
21	5549	4.3	163	27	1
22	5549	4.5	191	27	1
23	5550	1.1	215	26	1
24	5550	2.3	215	23	0
25	5551	1.9	211	24	1
26	5551	3.3	169	23	1
27	5560	3.7	207	28	1
28	5560	1.8	168	24	1
29	5569	3.5	169	28	1
30	5569	4.1	205	27	1
Detection Percentage (%)					90%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	9.2	372	17	1
2	5491	7.0	488	17	1
3	5500	7.9	210	18	1
4	5500	8.1	269	17	1
5	5509	6.2	473	17	1
6	5509	10.0	292	17	1
7	5510	8.8	242	18	1
8	5510	6.6	268	17	1
9	5511	7.4	370	17	0
10	5511	7.3	483	17	1
11	5520	7.5	264	18	1
12	5520	7.5	279	16	1
13	5529	6.6	393	16	1
14	5529	6.4	285	17	1
15	5530	9.8	443	17	0
16	5530	8.9	447	18	1
17	5531	7.8	211	18	1
18	5531	8.9	278	17	1
19	5540	6.6	286	16	1
20	5540	8.7	319	18	1
21	5549	8.1	457	18	1
22	5549	7.4	331	18	1
23	5550	7.5	261	18	1
24	5550	9.5	295	18	1
25	5551	8.6	454	17	1
26	5551	7.2	401	16	1
27	5560	7.0	486	18	1
28	5560	6.9	451	17	1
29	5569	8.0	244	17	1
30	5569	7.2	437	17	1
Detection Percentage (%)					93.3%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	20.0	453	14	0
2	5491	15.1	430	13	1
3	5500	14.4	454	14	0
4	5500	14.1	450	16	0
5	5509	17.9	450	14	1
6	5509	17.5	245	16	0
7	5510	18.5	495	16	1
8	5510	17.8	272	13	1
9	5511	16.6	357	12	1
10	5511	12.5	344	14	1
11	5520	18.5	438	14	1
12	5520	13.6	210	12	1
13	5529	13.7	381	14	1
14	5529	11.0	287	15	1
15	5530	14.1	205	12	1
16	5530	14.9	329	15	1
17	5531	18.0	478	14	1
18	5531	19.1	323	16	1
19	5540	15.6	495	15	1
20	5540	16.8	304	13	1
21	5549	11.2	381	15	1
22	5549	13.8	421	14	1
23	5550	17.8	201	13	1
24	5550	19.1	374	14	1
25	5551	16.5	335	14	0
26	5551	16.6	259	14	1
27	5560	16.9	304	13	1
28	5560	15.6	414	15	1
29	5569	14.3	408	13	1
30	5569	19.1	486	15	0
Detection Percentage (%)					80%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 90\% + 93.3\% + 80\%) / 4 = 90.8\% (>80\%)$





Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5530.0	1	16	5497.4	1
2	5530.0	0	17	5498.6	1
3	5530.0	1	18	5497.0	1
4	5530.0	1	19	5498.2	0
5	5530.0	0	20	5497.0	1
6	5530.0	1	21	5561.4	1
7	5530.0	1	22	5565.8	1
8	5530.0	1	23	5563.0	0
9	5530.0	1	24	5563.4	1
10	5530.0	1	25	5566.6	1
11	5493.8	1	26	5567.0	1
12	5494.6	1	27	5564.2	1
13	5496.2	1	28	5565.4	0
14	5498.6	1	29	5562.6	1
15	5497.0	1	30	5561.0	1
Detection Percentage (%)					83.3%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	64.7	11	1527		1.393
2	3	75.1	11	1722	1784	314.47
3	2	92.3	11	1620		164.79
4	2	52.6	11	1099		230.03
5	3	59.1	11	1284	1713	549.64
6	2	57.6	11	1368		133.64
7	2	58	11	1824		199.93
8	3	64	11	1581	1020	676.56
9	1	68.9	11			501.88
10	2	64.7	11	1741		59.14
11	3	77.4	11	1331	1009	691.5
12	2	64.9	11	1987		658.7
13	2	72.6	11	1751		49.2
14	1	96.2	11			409
15	2	92.1	11	1639		111.1
16	3	96.8	11	1865	1153	64.4

Type 5 Radar Waveform_2						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	77.8	11			263.349
2	1	98.9	11			431.197
3	2	99.8	11	1027		47.384
4	2	66.1	11	1119		175.971
5	1	89.3	11			796.429
6	2	58.3	11	1811		577.486
7	1	61.4	11			289.813
8	2	50.4	11	1029		561.35
9	3	96.7	11	1181	1109	219.537
10	1	58	11			694.154
11	1	63.9	11			671.551
12	2	59.2	11	1242		551.929
13	2	71.8	11	1590		235.986
14	2	89.4	11	1033		24.643

Type 5 Radar Waveform_3						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	86.5	20	1570	1512	301.069
2	1	58.6	20			779.817
3	3	73	20	1903	1784	1179.653
4	3	100	20	1244	1469	636.8
5	2	83.1	20	1255		1042.887
6	1	68.5	20			528.923
7	2	52.2	20	1170		347.45
8	2	69.8	20	1900		335.457
9	2	90.5	20	1615		1251.533

Type 5 Radar Waveform_4						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	66.7	18			198.44
2	1	85.7	18			276.85
3	3	96.9	18	1090	1703	91.24
4	3	53	18	1133	1459	578.04
5	3	63.9	18	1835	1468	264.5
6	3	63.9	18	1623	1663	732.78
7	2	92.3	18	1224		730.65
8	1	71.1	18			754.77
9	1	88.1	18			714.98
10	3	73.1	18	1942	1972	571.23
11	1	69.3	18			467.98
12	3	51.3	18	1210	1375	700.21
13	2	76.6	18	1948		27.03
14	2	88	18	1224		201.2
15	3	55.5	18	1232	1081	131

Type 5 Radar Waveform_5						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	63.3	6	1674		672.498
2	2	90.5	6	1605		759.21
3	2	83	6	1157		39.22
4	1	83.4	6			455.71
5	1	51	6			840.03
6	1	87.8	6			581.12
7	1	89.3	6			699.59
8	1	54.5	6			761.43
9	1	73.2	6			148.5
10	1	53.7	6			991.87
11	2	83.1	6	1815		708.3
12	3	66.9	6	1221	1259	188

Type 5 Radar Waveform_6						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	90	6			911.017
2	3	88.5	6	1224	1642	724.68
3	3	62.9	6	1353	1257	569.74
4	1	96.4	6			570.08
5	2	64.6	6	1307		766.61
6	1	83.1	6			80.84
7	2	95.1	6	1316		338.66
8	3	95.1	6	1045	1226	572.98
9	2	69.2	6	1551		543.6
10	3	66.5	6	1743	1591	286.8

Type 5 Radar Waveform_7						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	93.3	9	1796		16.09
2	2	57.8	9	1763		81.752
3	3	60.5	9	1067	1859	824.114
4	2	59.8	9	1508		603.431
5	1	79.5	9			122.679
6	2	60.8	9	1750		236.836
7	2	96.6	9	1801		181.513
8	2	94.6	9	1646		757.33
9	2	87	9	1736		50.627
10	1	74.7	9			764.324
11	3	86.4	9	1597	1745	47.311
12	2	53.3	9	1796		322.259
13	3	80.3	9	1075	1753	667.386
14	2	56.4	9	1379		268.943

**Type 5 Radar Waveform\_8**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	62.9	12	1132		100.996
2	3	72.1	12	1898	1198	663.377
3	3	62.1	12	1875	1978	244.583
4	2	71.5	12	1171		42.51
5	2	73.5	12	1160		252.577
6	2	50.6	12	1327		738.713
7	1	56.7	12			820.29
8	2	85.8	12	1590		533.787
9	3	67.6	12	1502	1540	188.433

**Type 5 Radar Waveform\_9**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	54.3	6			235.568
2	3	51.6	6	1328	1358	543.173
3	2	68.8	6	1519		345.357
4	2	76.4	6	1831		404.06
5	2	78.7	6	1655		313.393
6	2	77.4	6	1510		46.627
7	3	70.5	6	1636	1570	435.56
8	2	60.9	6	1299		341.013
9	1	90.5	6			162.927
10	1	81.1	6			458.17
11	2	64.7	6	1371		514.763
12	2	77.1	6	1069		107.507
13	2	98.1	6	1243		295.19
14	2	61.9	6	1227		200.143
15	3	69.7	6	1037	1978	359.507
16	2	57.4	6	1873		442.4
17	2	81	6	1384		65.033
18	1	53.3	6			79.367

**Type 5 Radar Waveform\_10**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	78.7	19	1943		238.112
2	3	57.4	19	1275	1210	1295.087
3	1	96.4	19			777.793
4	1	50.3	19			422.86
5	3	50.5	19	1035	1537	492.037
6	3	95	19	1125	1847	29.003
7	1	75.7	19			924.21
8	2	73	19	1951		709.767
9	1	85.8	19			239.033

Type 5 Radar Waveform_11						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	92.5	7	1405		347.915
2	2	91.4	7	1853		314.5
3	2	70.2	7	1032		216.52
4	1	88.5	7			114.09
5	2	68	7	1346		345.18
6	3	88.8	7	1140	1818	171.46
7	3	59.1	7	1766	1374	37.59
8	3	95.6	7	1453	1095	587.27
9	3	51.2	7	1845	1955	547.49
10	2	84	7	1858		443.41
11	3	88.4	7	1483	1946	763.68
12	1	81.9	7			776.6
13	2	86.3	7	1380		384.3
14	2	56.2	7	1008		489.1
15	2	70.5	7	1935		269.4

ype 5 Radar Waveform_12						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	61.2	9	1017		479.376
2	2	88.4	9	1982		329.25
3	2	62.1	9	1418		701.63
4	1	88.5	9			602.35
5	2	64.9	9	1402		266.48
6	2	61.5	9	1716		784.71
7	3	86.5	9	1679	1453	704.08
8	3	54.9	9	1087	1572	617.53
9	3	94.8	9	1489	1889	412.14
10	1	54.9	9			490
11	3	62.9	9	1154	1462	726.76
12	1	87.8	9			111.02
13	2	89.9	9	1328		670.2
14	2	55.5	9	1699		109.1
15	2	73	9	1997		530.4

Type 5 Radar Waveform_13						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	76.1	13	1697		66.704
2	3	77.9	13	1540	1793	408.45
3	2	85.8	13	1632		308.9
4	2	95	13	1614		867.91
5	2	51.5	13	1261		67.46
6	2	99.1	13	1345		395.17
7	2	89	13	1794		1.85
8	2	62.9	13	1423		110.4
9	1	97.5	13			931.7
10	2	68.2	13	1854		840

Type 5 Radar Waveform_14						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	90.9	19	1330	1922	931.7
2	2	73	19	1922		302.99
3	2	96.2	19	1640		38.99
4	3	51.8	19	1836	1588	435.87
5	2	60.6	19	1511		161.95
6	3	82.3	19	1232	1045	39.23
7	2	87.8	19	1050		1163.05
8	2	99	19	1160		147.04
9	2	62.8	19	1459		558.2
10	2	81.1	19	1653		56.3

Type 5 Radar Waveform_15						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	91.4	15	1773		477.489
2	1	96.1	15			500.97
3	3	77.6	15	1653	1273	422.23
4	2	76.2	15	1699		413.5
5	1	51.1	15			317.81
6	2	71.9	15	1714		187.17
7	2	93.9	15	1228		179.72
8	2	74.6	15	1998		47.32
9	2	56.8	15	1146		306.17
10	3	91.5	15	1468	1748	25.24
11	1	98.9	15			86.21
12	3	72.2	15	1836	1987	2.44
13	3	65	15	1651	1754	308.56
14	3	52.6	15	1645	1673	263.7
15	1	64	15			225.77
16	2	84.6	15	1820		518.17
17	2	85.9	15	1666		450
18	2	93.3	15	1355		506.6
19	2	76	15	1202		264.6
20	3	52.2	15	1690	1343	569.2

Type 5 Radar Waveform_16						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	71.6	16	1159	1693	810.052
2	2	99.2	16	1917		672.181
3	1	74.2	16			147.072
4	3	81.4	16	1390	1219	668.253
5	2	96.8	16	1874		43.664
6	2	53.4	16	1319		324.695
7	2	54.2	16	1823		380.185
8	2	77.6	16	1341		104.246
9	2	88.1	16	1450		836.177
10	3	99.4	16	1295	1643	746.118
11	2	68.6	16	1472		1032.009

Type 5 Radar Waveform_17						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	67	19	1654		395.134
2	2	86.8	19	1252		423.337
3	3	67.4	19	1528	1149	692.934
4	2	100	19	1808		94.211
5	3	55.2	19	1233	1779	16.519
6	2	95.4	19	1654		292.366
7	1	80.6	19			201.843
8	3	63.7	19	1889	1490	265.85
9	2	94	19	1623		656.747
10	3	77.9	19	1739	1922	284.734
11	2	71.3	19	1403		411.641
12	1	97.6	19			276.459
13	2	52.8	19	1230		816.386
14	2	74.8	19	1722		553.243

Type 5 Radar Waveform_18						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	94	15			976.415
2	3	68.2	15	1750	1993	474.17
3	1	95	15			324.62
4	3	56.9	15	1092	1157	412.02
5	2	65.5	15	1237		1123.73
6	3	59.4	15	1959	1368	451.46
7	3	77.4	15	1192	1194	199.51
8	1	53.3	15			1165.07
9	1	62.6	15			1060.9
10	1	50.6	15			244.7

Type 5 Radar Waveform_19						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	55.6	18	1523		845.138
2	3	88.9	18	1568	1717	240.043
3	1	73.3	18			346.396
4	1	61.4	18			228.339
5	1	90.3	18			728.382
6	2	73.4	18	1219		486.605
7	3	70.1	18	1131	1678	68.348
8	1	55.9	18			621.282
9	1	54	18			605.595
10	2	64.7	18	1585		554.928
11	1	94.2	18			164.361
12	2	69.4	18	1768		241.754
13	2	60.9	18	1369		12.577



Type 5 Radar Waveform_20						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	53.3	15	1496		46.38
2	2	90.9	15	1874		538.281
3	1	92.6	15			635.712
4	2	74.6	15	1059		725.883
5	1	56.2	15			315.714
6	2	69.3	15	1561		443.185
7	2	74.7	15	1392		899.395
8	1	72.5	15			518.896
9	2	76.6	15	1932		218.967
10	3	57.5	15	1879	1971	129.498
11	2	76.8	15	1737		578.309

Type 5 Radar Waveform_21						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	73.7	19	1590		20.777
2	1	58.3	19			385.041
3	2	86.5	19	1784		593.422
4	3	91.6	19	1968	1945	306.383
5	3	53.7	19	1836	1888	47.584
6	1	53.5	19			465.635
7	1	67.7	19			202.446
8	1	89.4	19			135.857
9	2	53.4	19	1186		270.868
10	3	97.3	19	1846	1810	404.029
11	2	51.2	19	1059		612.971
12	2	66.5	19	1889		571.912
13	2	92.9	19	1027		390.023
14	2	69.2	19	1691		547.234
15	2	86.2	19	1378		436.165
16	1	50.8	19			549.916
17	2	67.8	19	1185		386.437
18	2	89.1	19	1747		317.758
19	2	75	19	1964		572.079

Type 5 Radar Waveform_22						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	53.1	8	1083		669.432
2	2	93	8	1676		666.76
3	3	75	8	1793	1239	1058.21
4	1	88.3	8			365
5	1	59.1	8			834.89
6	1	72.8	8			242.12
7	3	61.7	8	1772	1146	427.71
8	1	78.8	8			777.95
9	1	63.2	8			946.4
10	3	78.8	8	1517	1087	547



Type 5 Radar Waveform_23						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	90.6	15			124.146
2	1	93.7	15			787.487
3	1	93.7	15			472.064
4	2	52.9	15	1548		635.301
5	1	87.3	15			513.839
6	1	65.8	15			357.736
7	1	97.6	15			361.703
8	2	64.6	15	1394		242.39
9	2	51.1	15	1393		32.097
10	1	58.1	15			107.604
11	2	97.6	15	1878		710.791
12	2	72.2	15	1960		42.859
13	1	77.9	15			573.686
14	3	98.6	15	1709	1441	145.243

Type 5 Radar Waveform_24						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	97.9	14	1962	1652	378.356
2	2	50.1	14	1659		430.53
3	2	56.9	14	1917		385.79
4	2	62.2	14	1010		231.78
5	2	57.6	14	1457		701.72
6	1	88	14			47.33
7	1	61	14			727.99
8	1	52.7	14			330.5
9	2	51.3	14	1878		148.9
10	2	52.2	14	1214		93.91
11	1	72	14			55.96
12	2	70.3	14	1266		124.16
13	3	79.6	14	1478	1826	125.73
14	2	65.2	14	1043		538.6
15	2	98.7	14	1918		588.7
16	2	54.4	14	1682		436

Type 5 Radar Waveform_25						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	54.6	6			413.673
2	3	68.6	6	1554	1281	363.857
3	3	83.2	6	1029	1138	874.253
4	2	79	6	1991		748.85
5	3	58.7	6	1004	1617	327.037
6	1	58.8	6			1163.273
7	1	78.8	6			233.3
8	3	61.2	6	1031	1394	1321.967
9	3	71.1	6	1395	1814	651.233

Type 5 Radar Waveform_26						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	55.9	5	1682		1143.92
2	2	96.1	5	1217		135.937
3	2	60.5	5	1407		1269.053
4	3	63.5	5	1435	1372	501.69
5	2	91.6	5	1409		29.247
6	1	90.7	5			327.613
7	1	57.2	5			482.7
8	3	74.6	5	1483	1722	292.777
9	1	81	5			984.033

Type 5 Radar Waveform_27						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	80.3	12	1713		674.843
2	1	70.1	12			553.11
3	2	81.3	12	1382		471.34
4	3	93.3	12	1114	1194	211.46
5	2	50.9	12	1176		644.27
6	2	73.5	12	1944		1.93
7	3	80.6	12	1806	1284	427.11
8	3	61.8	12	1568	1225	365.12
9	2	61.4	12	1462		610.84
10	2	86.5	12	1551		208.72
11	1	54.6	12			719.55
12	2	85.4	12	1197		614.52
13	1	96.9	12			11.02
14	3	93.1	12	1839	1884	691.4
15	2	59.6	12	1860		424.7
16	2	67.6	12	1258		418.3

Type 5 Radar Waveform_28						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	80.8	9			350.672
2	3	93.3	9	1783	1527	195.244
3	2	55.2	9	1967		60.272
4	2	52.8	9	1573		519.073
5	2	76.2	9	1137		63.404
6	1	93.2	9			234.675
7	1	59.2	9			40.176
8	1	79.7	9			551.307
9	2	91.2	9	1595		516.648
10	2	72.1	9	1757		344.709
11	3	55.6	9	1842	1740	571.851
12	3	73.9	9	1216	1996	482.402
13	1	65.2	9			222.583
14	1	89.4	9			556.724
15	2	52.4	9	1674		146.955
16	1	71.6	9			535.516
17	3	100	9	1904	1205	534.637
18	1	86.4	9			114.558
19	3	87.7	9	1862	1475	13.079



Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	71.1	16	1104		828.623
2	2	50.6	16	1577		188.613
3	3	88.5	16	1664	1875	771.986
4	2	87.9	16	1509		397.649
5	2	93.6	16	1201		546.082
6	2	82.2	16	1269		319.675
7	1	93.6	16			701.608
8	1	88.8	16			318.832
9	3	60.3	16	1979	1323	254.525
10	2	68.7	16	1642		813.278
11	1	87.8	16			403.611
12	1	57.1	16			904.354
13	3	67.3	16	1174	1038	694.377

Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	1	81.1	20			562.587
2	2	71.8	20	1301		357.198
3	1	52.3	20			348.052
4	3	58	20	1178	1175	347.773
5	1	73.9	20			261.634
6	2	57.2	20	1175		487.645
7	3	97.3	20	1576	1965	315.626
8	2	58.2	20	1665		383.017
9	2	50.4	20	1563		527.458
10	2	50.6	20	1085		519.819
11	1	62.9	20			290.651
12	3	53.3	20	1809	2000	374.402
13	2	69.5	20	1339		297.813
14	3	76.4	20	1547	1684	30.664
15	1	65.9	20			412.365
16	2	58.4	20	1053		224.976
17	3	65.8	20	1477	1776	376.137
18	2	86.2	20	1169		554.458
19	3	77.5	20	1887	1368	113.879

## Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5491	1	16	5530	1
2	5491	1	17	5531	1
3	5500	1	18	5531	1
4	5500	1	19	5540	1
5	5509	1	20	5540	1
6	5509	1	21	5549	1
7	5510	1	22	5549	1
8	5510	1	23	5550	1
9	5511	1	24	5550	1
10	5511	1	25	5551	1
11	5520	1	26	5551	1
12	5520	1	27	5560	1
13	5529	1	28	5560	1
14	5529	1	29	5569	1
15	5530	1	30	5569	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5521	9	5	5568	15
11	5502	33	8	5547	24
14	5542	42	27	5519	81
16	5539	48	29	5558	87
19	5526	57	31	5504	93
30	5501	90	38	5543	114
32	5561	96	43	5545	129
34	5565	102	50	5527	150
37	5490	111	59	5511	177
45	5498	135	62	5522	186
46	5510	138	71	5539	213
47	5546	141	75	5491	225
64	5515	192	82	5517	246
70	5494	210	84	5567	252
78	5499	234	86	5542	258
79	5537	237	88	5562	264
87	5538	261	96	5535	288
88	5530	264	--	--	--
98	5566	294	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5502	6	17	5568	51
3	5555	9	28	5508	84
4	5529	12	37	5546	111
5	5534	15	52	5558	156
8	5544	24	54	5530	162
9	5506	27	56	5560	168
17	5548	51	57	5501	171
18	5501	54	61	5542	183
20	5518	60	65	5557	195
22	5497	66	71	5540	213
29	5517	87	74	5492	222
31	5566	93	86	5547	258
33	5500	99	87	5564	261
36	5496	108	88	5521	264
46	5498	138	95	5566	285
51	5553	153	100	5548	300
52	5564	156	--	--	--
53	5491	159	--	--	--
59	5556	177	--	--	--
60	5511	180	--	--	--
61	5499	183	--	--	--
72	5535	216	--	--	--
73	5513	219	--	--	--
74	5492	222	--	--	--
76	5490	228	--	--	--
85	5532	255	--	--	--
97	5538	291	--	--	--

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
17	5496	51	10	5527	30
18	5561	54	13	5502	39
33	5543	99	16	5518	48
35	5559	105	18	5535	54
40	5511	120	26	5546	78
45	5562	135	31	5542	93
47	5490	141	34	5550	102
56	5515	168	48	5556	144
75	5531	225	49	5499	147
77	5554	231	50	5504	150
79	5522	237	53	5514	159
80	5547	240	59	5558	177
83	5499	249	61	5537	183
84	5558	252	67	5513	201
86	5527	258	80	5561	240
97	5508	291	82	5526	246
100	5510	300	92	5524	276

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5537	9	10	5557	30
6	5509	18	13	5510	39
11	5536	33	17	5544	51
14	5520	42	18	5523	54
16	5551	48	28	5529	84
20	5512	60	31	5566	93
22	5570	66	36	5533	108
23	5549	69	38	5554	114
45	5535	135	49	5516	147
64	5530	192	51	5568	153
77	5540	231	62	5548	186
94	5526	282	72	5514	216
--	--	--	75	5546	225
--	--	--	83	5499	249
--	--	--	91	5502	273
--	--	--	95	5534	285
--	--	--	97	5517	291

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5510	3	10	5494	30
7	5564	21	24	5542	72
8	5531	24	27	5555	81
9	5554	27	30	5560	90
10	5553	30	31	5510	93
12	5499	36	40	5534	120
18	5559	54	44	5509	132
21	5534	63	45	5497	135
34	5537	102	56	5551	168
46	5532	138	72	5524	216
65	5518	195	78	5521	234
66	5505	198	79	5564	237
73	5548	219	91	5554	273



74	5490	222	94	5532	282
81	5538	243	99	5504	297
82	5521	246	--	--	--
86	5529	258	--	--	--
91	5512	273	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5554	3	13	5522	39
4	5494	12	31	5497	93
13	5541	39	34	5565	102
16	5570	48	35	5554	105
21	5539	63	37	5538	111
32	5530	96	46	5504	138
45	5518	135	54	5566	162
52	5535	156	58	5546	174
58	5524	174	62	5551	186
69	5561	207	63	5567	189
72	5563	216	79	5505	237
74	5511	222	90	5516	270
77	5517	231	--	--	--
86	5515	258	--	--	--
92	5495	276	--	--	--
95	5492	285	--	--	--

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5541	9	6	5514	18
8	5492	24	8	5551	24
19	5507	57	10	5506	30
24	5552	72	15	5508	45
36	5540	108	19	5566	57
46	5563	138	23	5490	69
51	5516	153	45	5505	135
69	5512	207	50	5549	150

70	5499	210	56	5531	168
71	5520	213	65	5497	195
77	5506	231	74	5510	222
84	5525	252	78	5518	234
98	5498	294	80	5525	240
99	5554	297	85	5499	255
36	5540	108	88	5570	264
46	5563	138	95	5540	285
--	--	--	100	5515	300

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5567	21	7	5503	21
13	5566	39	8	5504	24
26	5558	78	15	5495	45
34	5551	102	20	5557	60
36	5521	108	23	5544	69
44	5498	132	26	5532	78
57	5549	171	29	5567	87
66	5544	198	35	5568	105
87	5535	261	41	5494	123
95	5557	285	49	5565	147
--	--	--	50	5562	150
--	--	--	52	5506	156
--	--	--	60	5521	180
--	--	--	63	5524	189
--	--	--	66	5497	198
--	--	--	74	5501	222
--	--	--	80	5545	240
--	--	--	84	5551	252
--	--	--	89	5520	267
--	--	--	92	5525	276

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5547	12	5	5569	15
8	5494	24	9	5504	27
10	5527	30	23	5523	69
20	5490	60	24	5556	72
23	5500	69	29	5564	87
25	5492	75	34	5548	102
35	5531	105	36	5527	108
42	5503	126	47	5518	141
48	5551	144	51	5508	153
51	5495	153	71	5547	213
70	5549	210	72	5510	216
72	5509	216	76	5503	228
80	5521	240	85	5546	255
84	5514	252	100	5490	300
90	5533	270	--	--	--
92	5536	276	--	--	--
97	5508	291	--	--	--
98	5553	294	--	--	--
99	5530	297	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5535	12	3	5493	9
11	5491	33	7	5527	21
19	5568	57	21	5507	63
20	5553	60	30	5500	90
22	5552	66	31	5516	93
38	5513	114	40	5506	120
56	5558	168	42	5548	126
71	5556	213	44	5546	132
72	5529	216	57	5523	171
75	5562	225	59	5563	177
79	5498	237	75	5508	225
80	5494	240	84	5542	252
87	5499	261	87	5550	261
88	5563	264	92	5492	276
90	5565	270	93	5510	279
94	5521	282	100	5501	300
97	5517	291	--	--	--
99	5507	297	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5518	6	2	5527	6
24	5507	72	19	5569	57
27	5568	81	23	5539	69
31	5549	93	29	5497	87
32	5552	96	38	5525	114
36	5526	108	39	5552	117
38	5528	114	47	5503	141
41	5558	123	52	5547	156
47	5537	141	53	5522	159
52	5505	156	57	5499	171
68	5533	204	63	5517	189
89	5503	267	65	5564	195
96	5570	288	68	5570	204
--	--	--	72	5526	216
--	--	--	75	5531	225
--	--	--	83	5543	249
--	--	--	89	5505	267
--	--	--	90	5544	270
--	--	--	91	5550	273

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5517	6	15	5524	45
4	5547	12	17	5496	51
17	5492	51	22	5565	66
29	5514	87	27	5569	81
36	5527	108	29	5514	87
38	5524	114	39	5531	117
41	5564	123	46	5493	138
53	5544	159	49	5550	147
58	5554	174	52	5528	156
63	5542	189	53	5549	159
67	5518	201	59	5.534	177

71	5538	213	62	5543	186
73	5528	219	63	5.507	189
74	5531	222	78	5.539	234
78	5549	234	91	5.522	273
80	5567	240	--	--	--
84	5561	252	--	--	--
86	5545	258	--	--	--
88	5555	264	--	--	--
93	5550	279	--	--	--
98	5523	294	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5509	6	15	5496	45
8	5526	24	20	5547	60
13	5561	39	27	5560	81
15	5496	45	31	5519	93
27	5552	81	40	5568	120
40	5520	120	42	5569	126
43	5491	129	43	5544	129
44	5502	132	49	5551	147
50	5529	150	60	5559	180
54	5550	162	66	5564	198
57	5513	171	74	5506	222
65	5566	195	76	5516	228
77	5570	231	77	5554	231
80	5565	240	78	5562	234
90	5553	270	81	5552	243
99	5554	297	83	5557	249
100	5541	300	85	5503	255
--	--	--	92	5540	276
--	--	--	99	5511	297

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5540	6	2	5520	6
10	5502	30	3	5548	9
12	5554	36	5	5506	15
17	5541	51	6	5493	18
27	5516	81	9	5537	27
32	5513	96	28	5544	84
33	5570	99	30	5545	90
44	5525	132	38	5505	114
49	5528	147	39	5556	117
57	5569	171	46	5529	138
62	5549	186	53	5557	159
65	5505	195	58	5491	174
68	5518	204	59	5541	177
70	5544	210	65	5570	195
82	5553	246	66	5558	198
90	5561	270	68	5560	204
93	5509	279	70	5532	210
99	5510	297	78	5552	234
--	--	--	84	5517	252
--	--	--	87	5518	261
--	--	--	96	5499	288
--	--	--	99	5519	297

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5496	30	19	5568	57
12	5551	36	22	5522	66
13	5565	39	29	5532	87
17	5563	51	46	5528	138
27	5547	81	50	5536	150
34	5566	102	56	5570	168
46	5541	138	58	5490	174
57	5550	171	62	5558	186
58	5546	174	65	5560	195
61	5555	183	66	5494	198
62	5570	186	71	5518	213
63	5532	189	74	5546	222
66	5490	198	76	5510	228
67	5544	201	89	5526	267
70	5531	210	90	5563	270
74	5507	222	92	5527	276
78	5538	234	98	5498	294
87	5560	261	100	5542	300
92	5542	276	--	--	--
94	5517	282	--	--	--



Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/16
Test Item	Radar Statistical Performance Check (802.11ax-HE160 mode – 5570MHz)		

## Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	1	798	67	1
2	5500	1	538	98	1
3	5509	1	918	58	1
4	5510	1	818	65	1
5	5511	1	898	59	1
6	5520	1	718	74	1
7	5529	1	678	78	1
8	5530	1	558	95	1
9	5531	1	578	92	1
10	5540	1	598	89	1
11	5549	1	658	81	1
12	5550	1	938	57	1
13	5551	1	738	72	1
14	5560	1	778	68	1
15	5569	1	858	62	1
16	5570	1	2314	23	1
17	5571	1	1637	33	1
18	5580	1	1313	41	1
19	5589	1	2708	20	1
20	5591	1	1753	31	1
21	5600	1	1528	35	1
22	5609	1	2425	22	1
23	5610	1	2452	22	1
24	5611	1	1490	36	1
25	5620	1	1454	37	1
26	5629	1	2388	23	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5630	1	1891	28	1
28	5631	1	2608	21	1
29	5640	1	1499	36	1
30	5649	1	1928	28	1
Detection Percentage (%)					100%

## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	1.6	183	25	1
2	5500	1.5	164	23	0
3	5509	2.8	201	23	1
4	5510	3.1	153	25	1
5	5511	3.6	218	24	1
6	5520	1.5	151	28	1
7	5529	2.9	161	27	1
8	5530	3.9	213	25	1
9	5531	3.9	222	25	1
10	5540	2.9	170	25	1
11	5549	2.3	230	28	1
12	5550	3.6	230	26	1
13	5551	1.9	199	23	0
14	5560	2.8	209	28	1
15	5569	4.3	181	25	0
16	5570	4.9	187	23	1
17	5571	3.3	210	29	0
18	5580	1.1	199	26	1
19	5589	5.0	191	28	1
20	5591	3.8	157	25	1
21	5600	4.9	201	26	1
22	5609	3.0	223	29	1
23	5610	3.6	170	23	0
24	5611	3.7	222	24	1
25	5620	4.4	194	26	1
26	5629	2.6	211	23	1
27	5630	1.6	184	24	1
28	5631	1.2	204	28	1
29	5640	3.5	195	24	0
30	5649	1.8	219	23	0
Detection Percentage (%)					76.3%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	7.6	247	17	1
2	5500	7.8	452	16	1
3	5509	6.6	281	18	1
4	5510	9.2	218	16	1
5	5511	8.0	403	17	1
6	5520	6.3	203	17	1
7	5529	9.8	256	17	0
8	5530	9.0	266	18	1
9	5531	7.8	330	16	1
10	5540	7.0	418	17	1
11	5549	9.0	461	18	1
12	5550	9.1	344	16	1
13	5551	9.0	218	18	1
14	5560	6.3	215	17	1
15	5569	8.2	257	17	1
16	5570	9.4	424	16	0
17	5571	7.8	381	17	1
18	5580	8.5	219	18	1
19	5589	8.4	213	17	0
20	5591	9.1	245	18	1
21	5600	7.8	205	18	1
22	5609	6.1	342	18	0
23	5610	9.2	277	18	1
24	5611	7.9	283	17	1
25	5620	8.2	289	16	0
26	5629	6.2	473	16	0
27	5630	9.9	357	18	1
28	5631	6.0	272	17	1
29	5640	9.1	243	18	1
30	5649	6.0	390	18	1
Detection Percentage (%)					80%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	11.4	245	13	1
2	5500	19.8	449	13	1
3	5509	18.1	473	13	1
4	5510	18.4	474	14	1
5	5511	19.9	400	13	0
6	5520	17.9	306	16	1
7	5529	18.3	283	13	1
8	5530	12.5	452	16	1
9	5531	15.0	478	12	1
10	5540	12.6	229	15	0
11	5549	14.1	212	13	1
12	5550	17.3	278	13	1
13	5551	13.3	213	14	1
14	5560	11.5	307	15	1
15	5569	13.1	370	15	1
16	5570	19.7	337	15	1
17	5571	19.0	221	13	0
18	5580	13.9	428	14	1
19	5589	15.4	227	16	1
20	5591	19.4	418	14	0
21	5600	13.4	256	13	1
22	5609	13.4	407	16	1
23	5610	14.9	276	15	1
24	5611	11.6	322	15	1
25	5620	12.0	363	13	1
26	5629	17.4	491	15	0
27	5630	13.8	315	12	0
28	5631	19.5	235	15	1
29	5640	18.8	457	14	1
30	5649	11.7	440	14	1
Detection Percentage (%)					80%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows: 
$$\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 76.3\% + 80\% + 80\%) / 4 = 83.3\% (>80\%)$$



Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5570.0	1	16	5499.2	1
2	5570.0	1	17	5497.2	1
3	5570.0	1	18	5496.4	1
4	5570.0	1	19	5495.2	1
5	5570.0	1	20	5496.0	0
6	5570.0	1	21	5646.6	1
7	5570.0	1	22	5646.6	1
8	5570.0	1	23	5642.2	1
9	5570.0	0	24	5645.4	0
10	5570.0	1	25	5641.8	0
11	5497.6	1	26	5646.6	1
12	5495.2	1	27	5644.6	1
13	5497.2	1	28	5647.0	1
14	5496.0	1	29	5644.6	1
15	5496.0	0	30	5643.8	1
Detection Percentage (%)					83.3%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	91.7	7	1107		567.857
2	2	51.5	7	1455		394.02
3	2	60.2	7	1771		214.79
4	2	64.8	7	1792		138.72
5	2	52.8	7	1724		28.7
6	3	89	7	1211	1198	579.13
7	2	91	7	1826		379.07
8	2	64.3	7	1603		551.62
9	2	79.3	7	1888		5.73
10	1	62.8	7			191.14
11	3	50.8	7	1360	1552	451.52
12	1	66.2	7			697.8
13	2	68.8	7	1025		82.18
14	1	64.1	7			602.5
15	3	69	7	1675	1479	490.3
16	1	94.4	7			673.3

**Type 5 Radar Waveform\_2**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	70.4	19	1246	1738	114.064
2	2	74.1	19	1888		634.84
3	1	60.3	19			592.35
4	3	76.3	19	1084	1890	232.09
5	1	61.6	19			671.13
6	1	64.1	19			124.49
7	2	88	19	1526		622.12
8	1	84.9	19			614.36
9	2	91.9	19	1971		19.19
10	2	91.4	19	1314		2.48
11	1	70	19			55.41
12	2	59.5	19	1207		83.67
13	2	82.1	19	1226		272.51
14	3	99.5	19	1398	1409	7.16
15	2	99.3	19	1692		63.1
16	1	70.8	19			452.4

**Type 5 Radar Waveform\_3**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	93.6	15	1281		211.742
2	1	97.7	15			455.798
3	2	96.5	15	1631		55.995
4	2	58.6	15	1189		422.173
5	3	62.2	15	1094	1096	156.001
6	2	92.4	15	1794		617.998
7	2	53.5	15	1018		452.346
8	2	98.5	15	1662		661.384
9	3	60.2	15	1242	1736	287.761
10	3	85.1	15	1577	1160	659.469
11	2	51.7	15	1657		404.636
12	1	68.9	15			649.874
13	1	86.5	15			615.112
14	1	87.2	15			232.229
15	3	75.7	15	1914	1588	50.917
16	1	95.1	15			187.865
17	2	63.6	15	1525		636.282

**Type 5 Radar Waveform\_4**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	81.9	8			676.832
2	2	82.8	8	1102		658.903
3	2	70.6	8	1449		796.906
4	2	88.7	8	1346		567.239
5	2	68.9	8	1801		344.412
6	1	81.6	8			623.595
7	2	91.5	8	1593		589.958
8	1	84	8			646.712
9	1	80.5	8			794.345
10	1	92	8			172.688
11	3	95.4	8	1716	1928	311.961
12	3	87.4	8	1134	1415	460.654
13	1	57.3	8			315.177



Type 5 Radar Waveform_5						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	67	5	1962		40.172
2	2	61.6	5	1786		6.102
3	2	89	5	1026		174.07
4	2	81.3	5	1361		472.05
5	2	81.9	5	1674		81.12
6	2	64.6	5	1377		307.37
7	1	94.1	5			156.16
8	2	60.1	5	1215		499.3
9	3	97.5	5	1330	1348	269.59
10	3	52.2	5	1339	1801	6.5
11	2	95.3	5	1666		161.41
12	2	55.7	5	1066		298.52
13	2	72.2	5	1581		239.53
14	2	76	5	1745		463.29
15	1	53.7	5			227.44
16	3	62.3	5	1129	1933	247.56
17	3	99.6	5	1936	1869	247.06
18	3	84.8	5	1656	1878	129.9
19	3	50.1	5	1976	1007	178.3
20	3	69.7	5	1856	1297	246.7

Type 5 Radar Waveform_6						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	94.7	17	1904		221.663
2	2	98.2	17	1429		484.58
3	3	82.9	17	1948	1033	617.76
4	1	80.4	17			191.81
5	3	93	17	1032	1488	317.95
6	2	84.4	17	1733		104.47
7	1	50.5	17			325.44
8	3	82.2	17	1054	1961	93.89
9	2	99.2	17	1968		2.67
10	2	80.1	17	1071		68.17
11	2	95	17	1454		96.36
12	2	68.8	17	1622		727.36
13	1	81.4	17			430.81
14	1	66.1	17			313.3
15	3	70.5	17	1662	1095	661.8
16	3	96.3	17	1007	1695	12.1

Type 5 Radar Waveform_7						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	95.2	17	1986		893.314
2	3	91.6	17	1115	1966	257.177
3	2	71.1	17	1779		843.273
4	3	70	17	1040	1068	721.85
5	3	79.8	17	1059	1326	1273.507
6	3	60.4	17	1391	1770	7.883
7	2	74.3	17	1111		80.07
8	1	98.6	17			229.857
9	2	96	17	1744		1049.033



**Type 5 Radar Waveform\_8**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	58.8	20	1166		253.463
2	2	89.7	20	1928		305.088
3	3	73	20	1187	1558	112.632
4	1	54.4	20			172.673
5	1	84.8	20			440.504
6	2	97	20	1191		376.765
7	2	89.5	20	1873		324.996
8	2	83.8	20	1508		121.757
9	3	77.1	20	1152	1546	136.288
10	1	73.9	20			310.189
11	2	96.1	20	1173		436.261
12	3	79.7	20	1892	1421	621.882
13	3	69.3	20	1026	1401	624.113
14	1	59.2	20			56.224
15	1	55.4	20			87.125
16	2	58.7	20	1060		276.206
17	3	81.3	20	1170	1649	172.037
18	2	58.2	20	1116		141.558
19	1	66.6	20			135.979

**Type 5 Radar Waveform\_9**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	73.6	20	1519		469.338
2	1	86.6	20			721.65
3	2	86.8	20	1575		824.32
4	2	72.6	20	1291		632.06
5	3	63.3	20	1291	1506	147.08
6	2	94.3	20	1763		225.58
7	2	71.3	20	1965		1183.4
8	2	70.5	20	1573		640.7

**Type 5 Radar Waveform\_10**

Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	68.8	8	1424	1314	74.413
2	2	79.9	8	1860		513.033
3	2	68.6	8	1516		781.616
4	3	71.3	8	1474	1154	728.529
5	3	56.1	8	1697	1857	31.252
6	3	72.5	8	1340	1713	504.045
7	3	72.6	8	1885	1850	284.728
8	2	55.1	8	1297		285.492
9	2	92.8	8	1659		424.905
10	2	64.2	8	1356		262.798
11	2	99.6	8	1286		536.651
12	1	55	8			513.954
13	1	57.4	8			194.777

Type 5 Radar Waveform_11						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	79.8	16	1901		536.85
2	2	62.1	16	1035		371.93
3	2	69.1	16	1701		629.59
4	1	54.4	16			344.02
5	1	69.3	16			318.77
6	3	88	16	1771	1011	364.94
7	2	83.7	16	1420		170.85
8	2	92.1	16	1948		262.5
9	1	66.3	16			427.79
10	3	70.5	16	1020	1066	238.09
11	3	73.4	16	1802	1875	384.37
12	1	51	16			297.02
13	3	64.4	16	1427	1031	600.71
14	3	78.8	16	1544	1631	113.19
15	2	66.2	16	1491		581.2
16	1	67.7	16			45.5

Type 5 Radar Waveform_12						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	63.8	10	1590		208.38
2	2	64.7	10	1670		738.03
3	3	98.1	10	1531	1136	214.87
4	2	86	10	1737		283.87
5	2	77.7	10	1841		550.58
6	2	93.8	10	1172		278.79
7	2	63.8	10	1063		235.92
8	2	61.5	10	1280		197.08
9	3	88.3	10	1566	1680	741.74
10	2	81.7	10	1117		453.78
11	2	68.3	10	1473		695.3
12	3	83.6	10	1664	1642	492.04
13	2	61.9	10	1730		598.9
14	2	58.3	10	1853		654.1
15	2	92.7	10	1966		649.1
16	2	66.5	10	1833		109.5

Type 5 Radar Waveform_13						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	96.4	15	1236	1078	85.582
2	3	74.7	15	1959	1935	346.3
3	3	99.9	15	1179	1874	341
4	1	90.7	15			461.16
5	3	73.2	15	1721	1288	811.33
6	2	87	15	1599		1186.65
7	2	63.5	15	1988		590.76
8	3	56.6	15	1010	1505	710.71
9	1	70.5	15			547.1
10	3	80.9	15	1036	1111	877

Type 5 Radar Waveform_14						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	50.1	12	1162		149.44
2	3	62.7	12	1788	1466	1111.78
3	2	65.8	12	1511		414.14
4	2	50	12	1009		671.74
5	3	69.6	12	1647	1507	443.95
6	1	83.8	12			234.76
7	3	54.5	12	1756	1403	879.64
8	2	55.1	12	1239		982.95
9	2	99.8	12	1995		206.7
10	1	87.8	12			1113.3

Type 5 Radar Waveform_15						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	1	50	12			269.165
2	2	59.3	12	1656		317.89
3	1	79.1	12			697.72
4	2	64.9	12	1385		605.33
5	2	99.1	12	1599		372.55
6	2	57.5	12	1776		51.14
7	1	82.4	12			78.91
8	2	56.7	12	1793		327.76
9	2	52.4	12	1008		555.68
10	2	94.7	12	1811		717.64
11	2	74.4	12	1200		426.29
12	1	99.3	12			656.72
13	2	92.2	12	1997		448.37
14	2	62.8	12	1736		267.1
15	2	59.4	12	1861		65.8
16	3	97	12	1255	1024	50.2

Type 5 Radar Waveform_16						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	56.4	20	1275	1977	989.124
2	2	61	20	1045		578.051
3	2	91.1	20	1512		671.862
4	1	54.9	20			116.153
5	3	59.7	20	1614	1360	116.174
6	3	81.6	20	1702	1121	685.455
7	1	67.2	20			796.465
8	3	56.1	20	1851	1226	1049.566
9	2	67.6	20	1333		927.247
10	3	83.3	20	1721	1386	77.298
11	1	85	20			263.809

Type 5 Radar Waveform_17						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	59.8	15	1711		558.565
2	3	73.9	15	1531	1634	546.243
3	1	96.9	15			310.396
4	1	83.6	15			864.229
5	2	96.7	15	1584		381.652
6	2	96.8	15	1640		50.705
7	2	75.6	15	1533		171.008
8	3	63.3	15	1090	1816	60.252
9	2	99.9	15	1399		154.415
10	2	99.5	15	1432		158.038
11	2	93.5	15	1497		689.531
12	1	76	15			283.654
13	2	63.4	15	1834		408.777

Type 5 Radar Waveform_18						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	66.6	13	1257		277.593
2	2	92.3	13	1386		1176.547
3	2	95.6	13	1040		1208.813
4	2	94.4	13	1649		1164.21
5	3	93	13	1906	1473	832.547
6	2	94.9	13	1670		1061.653
7	3	86.8	13	1192	1070	1281.74
8	3	84.6	13	1256	1601	953.767
9	2	54.3	13	1068		1190.633

Type 5 Radar Waveform_19						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	3	88	10	1285	1581	561.83
2	2	90.8	10	1499		5.461
3	2	96.2	10	1060		384.506
4	1	95.8	10			651.059
5	3	83.9	10	1439	1788	362.002
6	2	68.3	10	1844		44.455
7	1	90.3	10			645.738
8	3	98.8	10	1511	1617	594.252
9	2	83.8	10	1331		454.585
10	2	61.5	10	1972		819.058
11	3	68.4	10	1643	1968	824.831
12	1	65.5	10			358.054
13	2	64.4	10	1987		522.177

Type 5 Radar Waveform_20						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	85.2	12	1566		599.134
2	2	66.4	12	1695		418.993
3	3	83.8	12	1462	1780	913.046
4	2	83	12	1930		299.409
5	2	94.4	12	1832		588.822
6	1	70.6	12			401.835
7	2	70.3	12	1573		102.998
8	1	86.2	12			281.292
9	2	58.1	12	1882		189.565
10	2	58.5	12	1464		16.638
11	2	66.1	12	1834		261.431
12	2	88.2	12	1626		262.354
13	1	52.1	12			41.077

Type 5 Radar Waveform_21						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	99.1	6	1203		207.639
2	2	63.2	6	1571		328.153
3	3	70	6	1554	1123	716.256
4	3	90.7	6	1328	1818	167.679
5	3	87	6	1671	1380	837.082
6	3	75	6	1548	1787	850.585
7	2	97.1	6	1672		172.978
8	3	57.3	6	1806	1407	429.822
9	3	75	6	1881	1681	360.635
10	2	60.2	6	1315		267.388
11	3	99.9	6	1564	1197	651.201
12	1	82.6	6			726.454
13	2	59.2	6	1873		518.977

Type 5 Radar Waveform_22						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	71	6	1060		447.985
2	2	94	6	1025		512.19
3	3	55.6	6	1170	1574	1151.62
4	3	74.8	6	1185	1900	84.56
5	2	78.2	6	1662		196.8
6	3	56.2	6	1918	1691	138.41
7	2	72.8	6	1746		510.82
8	1	82.7	6			931.75
9	3	95.9	6	1976	1970	629.3
10	1	70.6	6			187.2



**Type 5 Radar Waveform\_23**

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	74.3	17	1407		301.742
2	3	53	17	1681	1929	184.969
3	2	98.3	17	1607		659.53
4	2	72.1	17	1437		59.02
5	1	93.2	17			779.31
6	3	57.5	17	1790	1866	360.92
7	1	66.5	17			37.2
8	3	69.1	17	1862	1100	198.59
9	3	91.2	17	1479	1381	246.64
10	2	73.4	17	1284		467.06
11	1	93.1	17			272.93
12	3	76.8	17	1032	1392	721.63
13	2	63.5	17	1431		18.89
14	3	81.6	17	1270	1552	154.1
15	3	54.5	17	1597	1297	267.1

**Type 5 Radar Waveform\_24**

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	1	69.2	9			269.912
2	2	89.2	9	1010		527.071
3	3	87.4	9	1359	1361	58.182
4	2	91.3	9	1178		570.013
5	2	70.2	9	1883		541.354
6	3	89.9	9	1689	1146	557.715
7	1	70.4	9			355.276
8	3	98.1	9	1276	1835	575.377
9	1	80.3	9			498.858
10	2	52.8	9	1982		303.719
11	2	84.3	9	1898		234.511
12	2	61.1	9	1997		44.512
13	3	82	9	1716	1562	458.423
14	1	70.7	9			410.954
15	1	61.4	9			590.955
16	1	56.7	9			614.316
17	2	96.1	9	1157		378.837
18	2	59.8	9	1977		615.158
19	1	57.7	9			365.879

**Type 5 Radar Waveform\_25**

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	88.9	18	1125		99.712
2	3	85.5	18	1900	1850	590.268
3	2	82.1	18	1317		488.395
4	2	74.3	18	1201		25.353
5	2	57.4	18	1659		660.691
6	2	97.3	18	1660		455.608
7	2	90.6	18	1814		392.496
8	1	54	18			395.934
9	2	79.9	18	1768		421.251
10	1	92.3	18			181.669
11	1	60.1	18			537.976
12	1	69.7	18			19.514
13	3	57.3	18	1109	1294	109.722
14	3	99.2	18	1497	1964	355.899
15	3	58	18	1441	1892	80.987
16	1	80.2	18			462.265
17	2	52.8	18	1502		562.382



Type 5 Radar Waveform_26						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	67.1	6	1010		995.253
2	3	77.8	6	1196	1491	705.961
3	3	86.7	6	1126	1124	22.152
4	2	72.3	6	1418		479.963
5	3	52.6	6	1876	1339	10.704
6	3	80.6	6	1487	1409	69.435
7	2	94.8	6	1251		895.675
8	3	88.3	6	1685	1241	492.136
9	2	74.7	6	1529		22.327
10	1	75.8	6			625.518
11	2	79.5	6	1775		1019.909

Type 5 Radar Waveform_27						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	68.9	11	1138		363.896
2	2	65.7	11	1734		507.78
3	2	95.8	11	1598		462.07
4	2	73.2	11	1444		782.67
5	3	63.9	11	1011	1082	780.25
6	2	74.9	11	1267		278.43
7	2	98.1	11	1912		413.97
8	2	51.8	11	1704		418.24
9	1	95.7	11			770.15
10	2	54.8	11	1247		682.05
11	2	95.2	11	1685		563.8
12	1	58.7	11			733.6

Type 5 Radar Waveform_28						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	84.8	5	1376		184
2	3	66.5	5	1817	1453	452.218
3	2	67.5	5	1835		260.125
4	2	99.1	5	1652		147.373
5	2	94.8	5	1815		679.361
6	2	57.1	5	1875		428.358
7	1	85.8	5			649.536
8	2	74.6	5	1269		458.534
9	3	84.4	5	1687	1484	454.491
10	3	98.7	5	1390	1916	485.239
11	1	94.1	5			354.886
12	2	84.5	5	1134		481.194
13	1	50.6	5			199.162
14	2	66.7	5	1886		306.819
15	3	70.3	5	1137	1213	587.447
16	3	74.3	5	1705	1779	137.065
17	1	87.7	5			453.182



Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	56.1	11	1123		583.439
2	3	67.9	11	1061	1876	342.888
3	3	98.6	11	1581	1109	616.615
4	1	73	11			240.253
5	2	75.7	11	1653		283.951
6	3	67.8	11	1362	1773	96.618
7	3	50.4	11	1925	1597	346.866
8	2	68.4	11	1010		180.814
9	1	99.9	11			581.861
10	2	79.6	11	1200		648.609
11	1	74.1	11			121.416
12	1	54.5	11			644.534
13	2	68.3	11	1553		151.422
14	2	67.3	11	1853		335.799
15	2	80.5	11	1391		140.747
16	3	52.8	11	1550	1023	460.865
17	1	55.9	11			40.282

Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width ( $\mu$ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI ( $\mu$ sec)	Pulse 2-to-3 PRI ( $\mu$ sec)	Start Location Within Interval (msec)
1	2	58	13	1315		334.321
2	1	84	13			263.51
3	3	53.6	13	1504	1534	247.27
4	3	91.2	13	1722	1704	552.96
5	2	68.9	13	1593		166.47
6	2	63.3	13	1221		674.24
7	1	78.5	13			740.38
8	2	61	13	1798		38.14
9	3	89.8	13	1682	1273	495.65
10	2	61.8	13	1879		83.36
11	1	76	13			244.17
12	1	79.6	13			459.25
13	3	90	13	1656	1748	276.09
14	2	84.4	13	1131		361.6
15	2	73.2	13	1032		517
16	1	50.8	13			391.7



## Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5491	1	16	5570	1
2	5500	1	17	5571	1
3	5509	1	18	5580	1
4	5510	1	19	5589	1
5	5511	1	20	5591	1
6	5520	1	21	5600	1
7	5529	1	22	5609	1
8	5530	1	23	5610	1
9	5531	1	24	5611	1
10	5540	1	25	5620	1
11	5549	1	26	5629	1
12	5550	1	27	5630	1
13	5551	1	28	5631	1
14	5560	1	29	5640	1
15	5569	1	30	5649	1
Detection Percentage (%)					100%



Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5555	21	2	5648	6
8	5579	24	4	5513	12
11	5522	33	5	5528	15
19	5637	57	7	5542	21
21	5601	63	12	5539	36
24	5594	72	13	5573	39
27	5591	81	20	5635	60
28	5568	84	21	5529	63
31	5553	93	22	5501	66
33	5492	99	26	5574	78
34	5523	102	29	5562	87
37	5498	111	30	5504	90
42	5622	126	32	5547	96
46	5563	138	33	5503	99
49	5580	147	36	5618	108
53	5626	159	39	5565	117
54	5644	162	40	5622	120
55	5559	165	41	5554	123
58	5598	174	44	5495	132
63	5578	189	52	5548	156
67	5543	201	59	5506	177
72	5554	216	61	5550	183
76	5536	228	64	5560	192
82	5570	246	66	5502	198
86	5646	258	71	5629	213
89	5635	267	73	5566	219
92	5574	276	77	5576	231
97	5612	291	78	5509	234
99	5562	297	80	5598	240
100	5571	300	81	5531	243
--	--	--	85	5514	255
--	--	--	86	5603	258
--	--	--	90	5588	270
--	--	--	96	5525	288



--	--	--	98	5595	294
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Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5546	9	7	5494	21
12	5570	36	14	5552	42
18	5584	54	15	5637	45
21	5581	63	18	5547	54
25	5505	75	19	5642	57
26	5574	78	20	5551	60
27	5603	81	22	5591	66
32	5613	96	23	5572	69
34	5496	102	27	5648	81
42	5578	126	32	5579	96
46	5623	138	34	5598	102
48	5556	144	37	5510	111
51	5521	153	39	5628	117
52	5612	156	42	5532	126
53	5494	159	45	5562	135
62	5639	186	46	5641	138
63	5518	189	49	5593	147
71	5552	213	50	5534	150
80	5502	240	52	5506	156
84	5542	252	56	5541	168
90	5610	270	59	5513	177
91	5545	273	70	5602	210
92	5604	276	72	5643	216
93	5640	279	73	5526	219
96	5500	288	76	5609	228
98	5591	294	77	5645	231
100	5582	300	79	5601	237
--	--	--	81	5600	243
--	--	--	83	5605	249
--	--	--	84	5586	252
--	--	--	85	5555	255
--	--	--	93	5644	279

--	--	--	96	5516	288
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Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5592	6	3	5606	9
4	5555	12	8	5585	24
9	5491	27	9	5650	27
10	5521	30	11	5544	33
11	5590	33	13	5566	39
13	5603	39	15	5500	45
17	5597	51	18	5638	54
20	5578	60	21	5508	63
21	5532	63	27	5623	81
23	5648	69	30	5499	90
26	5586	78	32	5582	96
29	5522	87	33	5576	99
32	5641	96	36	5586	108
33	5639	99	37	5512	111
34	5557	102	43	5595	129
36	5517	108	46	5516	138
37	5504	111	48	5584	144
41	5593	123	49	5644	147
42	5492	126	51	5642	153
46	5507	138	53	5639	159
48	5547	144	56	5564	168
49	5620	147	60	5515	180
58	5545	174	62	5561	186
59	5591	177	63	5560	189
61	5643	183	64	5557	192
63	5527	189	66	5568	198
64	5520	192	67	5556	201
65	5512	195	76	5506	228
66	5563	198	77	5569	231
74	5637	222	79	5641	237
75	5634	225	80	5495	240
77	5581	231	83	5547	249



78	5613	234	87	5536	261
82	5627	246	88	5574	264
83	5543	249	93	5571	279
86	5559	258	94	5549	282
88	5594	264	--	--	--
97	5607	291	--	--	--
100	5621	300	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5573	18	5	5506	15
8	5582	24	9	5490	27
12	5500	36	11	5568	33
13	5635	39	12	5533	36
14	5514	42	13	5602	39
17	5533	51	15	5557	45
20	5597	60	19	5519	57
21	5493	63	23	5606	69
23	5575	69	24	5577	72
26	5630	78	26	5595	78
27	5632	81	28	5525	84
29	5619	87	30	5497	90
36	5553	108	31	5553	93
37	5491	111	32	5515	96
39	5541	117	33	5516	99
42	5650	126	35	5643	105
46	5558	138	41	5594	123
47	5628	141	45	5596	135
50	5593	150	47	5518	141
51	5551	153	49	5508	147
53	5512	159	64	5563	192
55	5637	165	66	5635	198
56	5569	168	67	5548	201
57	5611	171	72	5642	216
65	5556	195	77	5629	231
72	5517	216	79	5588	237

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75	5624	225	81	5547	243
76	5572	228	82	5609	246
82	5562	246	89	5502	267
85	5520	255	96	5571	288
87	5574	261	100	5503	300
90	5627	270	--	--	--
91	5571	273	--	--	--
93	5521	279	--	--	--
98	5499	294	--	--	--
99	5563	297	--	--	--



Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5641	9	2	5545	6
8	5603	24	5	5644	15
10	5583	30	11	5596	33
11	5520	33	17	5628	51
19	5627	57	20	5641	60
20	5524	60	22	5570	66
22	5573	66	23	5621	69
23	5507	69	26	5604	78
25	5563	75	29	5494	87
26	5650	78	31	5532	93
28	5608	84	35	5600	105
29	5631	87	36	5634	108
31	5570	93	38	5591	114
34	5635	102	39	5584	117
35	5569	105	42	5554	126
36	5521	108	45	5526	135
41	5634	123	46	5613	138
42	5542	126	50	5602	150
43	5541	129	59	5592	177
55	5561	165	64	5566	192
58	5590	174	65	5624	195
65	5646	195	67	5606	201
73	5610	219	68	5595	204
82	5557	246	73	5490	219
83	5612	249	76	5504	228
89	5574	267	79	5642	237
90	5620	270	86	5622	258
93	5505	279	89	5491	267
94	5647	282	90	5521	270
97	5506	291	91	5559	273
--	--	--	93	5506	279
--	--	--	97	5646	291
--	--	--	100	5555	300

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5605	3	2	5613	6
3	5592	9	3	5638	9
5	5584	15	4	5645	12
9	5501	27	6	5640	18
10	5580	30	7	5584	21
13	5532	39	8	5523	24
19	5513	57	22	5588	66
20	5572	60	24	5618	72
22	5499	66	26	5575	78
29	5516	87	27	5509	81
39	5562	117	31	5511	93
40	5525	120	32	5622	96
42	5566	126	39	5506	117
46	5509	138	43	5516	129
49	5528	147	49	5594	147
52	5616	156	54	5580	162
54	5546	162	61	5621	183
71	5586	213	63	5561	189
72	5534	216	64	5629	192
80	5560	240	67	5648	201
81	5638	243	68	5563	204
83	5585	249	73	5639	219
84	5583	252	74	5647	222
87	5636	261	81	5585	243
90	5533	270	83	5567	249
93	5635	279	84	5491	252
95	5530	285	85	5616	255
96	5575	288	87	5570	261
97	5615	291	88	5592	264
98	5559	294	89	5565	267
--	--	--	90	5650	270
--	--	--	97	5558	291



Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5566	12	3	5618	9
6	5536	18	4	5564	12
7	5601	21	8	5602	24
9	5634	27	18	5601	54
15	5506	45	20	5506	60
16	5519	48	22	5568	66
20	5567	60	24	5530	72
28	5624	84	26	5559	78
30	5545	90	29	5642	87
36	5513	108	38	5493	114
41	5573	123	47	5611	141
44	5612	132	48	5630	144
46	5560	138	49	5625	147
50	5605	150	51	5512	153
51	5598	153	53	5521	159
54	5542	162	57	5599	171
57	5597	171	59	5500	177
58	5546	174	62	5574	186
60	5520	180	69	5632	207
61	5571	183	79	5513	237
62	5552	186	80	5549	240
73	5633	219	81	5619	243
74	5611	222	82	5581	246
78	5549	234	85	5492	255
80	5638	240	90	5596	270
83	5609	249	93	5646	279
85	5556	255	97	5504	291
89	5554	267	100	5624	300
90	5507	270	--	--	--
92	5534	276	--	--	--
93	5529	279	--	--	--
95	5602	285	--	--	--
99	5561	297	--	--	--
100	5497	300	--	--	--

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5499	24	2	5490	6
19	5567	57	3	5492	9
24	5595	72	5	5516	15
26	5492	78	8	5543	24
27	5610	81	10	5610	30
30	5573	90	13	5491	39
33	5630	99	15	5615	45
35	5536	105	16	5496	48
38	5618	114	19	5626	57
42	5498	126	24	5541	72
43	5603	129	26	5565	78
45	5626	135	32	5609	96
47	5497	141	36	5493	108
48	5642	144	37	5629	111
52	5535	156	39	5556	117
55	5547	165	43	5551	129
57	5518	171	44	5523	132
58	5537	174	46	5535	138
62	5514	186	51	5625	153
64	5634	192	54	5612	162
67	5516	201	57	5513	171
68	5570	204	63	5531	189
69	5584	207	65	5552	195
76	5501	228	66	5534	198
77	5601	231	69	5544	207
78	5513	234	70	5648	210
79	5543	237	73	5566	219
80	5600	240	74	5504	222
83	5524	249	76	5604	228
84	5566	252	81	5539	243
85	5648	255	84	5583	252
89	5554	267	86	5567	258
90	5589	270	88	5649	264
97	5613	291	90	5525	270

--	--	--	91	5560	273
--	--	--	93	5647	279

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5613	3	2	5549	6
2	5552	6	4	5632	12
7	5591	21	5	5633	15
9	5603	27	10	5519	30
10	5506	30	14	5524	42
13	5636	39	20	5535	60
14	5557	42	24	5615	72
19	5587	57	28	5642	84
20	5649	60	30	5621	90
24	5586	72	32	5585	96
25	5632	75	33	5623	99
27	5628	81	35	5592	105
29	5550	87	40	5501	120
31	5625	93	42	5650	126
33	5529	99	47	5517	141
34	5523	102	48	5577	144
39	5626	117	50	5627	150
40	5604	120	52	5565	156
42	5599	126	55	5575	165
43	5622	129	56	5629	168
44	5577	132	57	5533	171
47	5647	141	59	5639	177
50	5507	150	60	5618	180
56	5567	168	63	5544	189
61	5565	183	72	5552	216
64	5585	192	73	5518	219
65	5635	195	76	5584	228
69	5578	207	77	5612	231
70	5583	210	79	5593	237
71	5543	213	82	5610	246
76	5511	228	85	5574	255

79	5514	237	88	5548	264
81	5629	243	94	5558	282
83	5555	249	95	5545	285
88	5561	264	--	--	--
90	5541	270	--	--	--
94	5607	282	--	--	--
95	5538	285	--	--	--
96	5615	288	--	--	--
97	5609	291	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5496	3	1	5517	3
5	5511	15	2	5595	6
6	5617	18	6	5523	18
7	5526	21	7	5556	21
9	5547	27	9	5511	27
11	5558	33	13	5619	39
12	5570	36	31	5501	93
14	5540	42	36	5643	108
17	5586	51	37	5601	111
19	5513	57	40	5596	120
21	5587	63	41	5497	123
23	5531	69	42	5604	126
26	5565	78	44	5552	132
27	5568	81	45	5613	135
31	5605	93	46	5622	138
34	5588	102	52	5623	156
41	5579	123	56	5491	168
42	5604	126	62	5576	186
45	5648	135	64	5580	192
46	5600	138	69	5614	207
55	5563	165	74	5530	222
57	5620	171	75	5560	225
61	5575	183	78	5644	234
62	5546	186	81	5551	243

64	5636	192	84	5637	252
66	5584	198	87	5649	261
68	5505	204	90	5621	270
69	5591	207	94	5543	282
75	5498	225	97	5554	291
78	5567	234	98	5553	294
86	5512	258	99	5507	297
95	5627	285	--	--	--
96	5629	288	--	--	--
97	5622	291	--	--	--
98	5548	294	--	--	--
99	5592	297	--	--	--
100	5597	300	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5565	21	4	5646	12
12	5501	36	8	5500	24
13	5599	39	9	5598	27
16	5630	48	12	5577	36
18	5518	54	13	5522	39
19	5545	57	16	5519	48
20	5625	60	19	5568	57
23	5520	69	23	5634	69
29	5588	87	26	5615	78
30	5643	90	29	5550	87
32	5603	96	32	5609	96
33	5605	99	34	5624	102
34	5633	102	35	5637	105
38	5511	114	37	5560	111
39	5575	117	38	5610	114
42	5542	126	41	5491	123
44	5590	132	46	5603	138
45	5637	135	47	5602	141
51	5510	153	49	5604	147
56	5494	168	52	5520	156

60	5618	180	58	5517	174
61	5509	183	63	5493	189
62	5502	186	64	5558	192
63	5581	189	67	5508	201
65	5523	195	79	5644	237
69	5499	207	85	5531	255
70	5560	210	90	5647	270
72	5638	216	92	5636	276
74	5640	222	94	5635	282
78	5589	234	97	5578	291
80	5553	240	99	5536	297
82	5504	246	--	--	--
85	5567	255	--	--	--
89	5541	267	--	--	--
90	5616	270	--	--	--
94	5540	282	--	--	--
95	5535	285	--	--	--
97	5598	291	--	--	--



Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5598	9	2	5584	6
4	5526	12	12	5616	36
5	5554	15	25	5589	75
6	5551	18	28	5516	84
8	5592	24	37	5594	111
13	5617	39	38	5503	114
15	5631	45	42	5549	126
16	5608	48	44	5606	132
17	5532	51	48	5566	144
18	5538	54	51	5644	153
19	5570	57	53	5556	159
21	5557	63	54	5504	162
27	5560	81	58	5539	174
34	5596	102	63	5598	189
38	5536	114	64	5507	192
39	5571	117	66	5612	198
42	5574	126	69	5643	207
44	5632	132	76	5542	228
45	5618	135	77	5548	231
48	5509	144	78	5541	234
55	5572	165	80	5537	240
57	5611	171	82	5558	246
58	5595	174	83	5617	249
59	5523	177	84	5561	252
62	5552	186	85	5577	255
66	5508	198	86	5634	258
83	5569	249	87	5585	261
84	5627	252	92	5553	276
87	5575	261	94	5648	282
89	5620	267	95	5501	285
96	5589	288	--	--	--
98	5593	294	--	--	--
100	5629	300	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5577	6	1	5626	3
5	5647	15	6	5524	18
8	5499	24	7	5507	21
11	5504	33	8	5616	24
18	5634	54	11	5580	33
19	5550	57	14	5546	42
21	5649	63	15	5600	45
24	5579	72	19	5589	57
25	5601	75	20	5530	60
26	5556	78	23	5583	69
32	5505	96	24	5592	72
35	5537	105	25	5562	75
36	5502	108	33	5567	99
41	5538	123	36	5577	108
42	5573	126	37	5497	111
44	5496	132	38	5552	114
45	5531	135	42	5556	126
48	5618	144	47	5603	141
51	5595	153	49	5579	147
55	5608	165	52	5641	156
57	5639	171	57	5570	171
76	5494	228	64	5531	192
77	5535	231	66	5582	198
78	5587	234	67	5576	201
81	5611	243	68	5564	204
82	5522	246	69	5508	207
85	5606	255	72	5569	216
88	5514	264	73	5553	219
92	5565	276	79	5495	237
95	5515	285	80	5506	240
--	--	--	83	5533	249
--	--	--	84	5538	252
--	--	--	88	5575	264
--	--	--	93	5620	279



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--	--	--	98	5590	294
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Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5604	3	1	5551	3
7	5500	21	5	5504	15
13	5627	39	8	5502	24
20	5501	60	9	5647	27
23	5588	69	12	5560	36
24	5600	72	14	5590	42
25	5492	75	19	5595	57
26	5597	78	23	5568	69
27	5552	81	24	5497	72
28	5578	84	26	5630	78
29	5607	87	27	5530	81
30	5630	90	30	5596	90
31	5583	93	31	5639	93
35	5576	105	35	5561	105
42	5620	126	36	5544	108
44	5633	132	38	5637	114
47	5594	141	40	5541	120
48	5531	144	46	5567	138
58	5573	174	47	5565	141
60	5556	180	51	5641	153
64	5609	192	60	5562	180
69	5496	207	63	5525	189
70	5613	210	64	5517	192
72	5526	216	65	5538	195
75	5538	225	69	5520	207
76	5498	228	72	5554	216
77	5525	231	73	5534	219
79	5641	237	75	5628	225
80	5550	240	78	5524	234
82	5640	246	82	5618	246
85	5533	255	84	5631	252
93	5614	279	88	5601	264
94	5542	282	95	5537	285
96	5506	288	96	5579	288



--	--	--	97	5589	291
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Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5547	3	3	5498	9
2	5515	6	4	5567	12
4	5621	12	5	5640	15
6	5592	18	10	5647	30
14	5633	42	12	5548	36
16	5553	48	14	5599	42
18	5644	54	18	5561	54
19	5536	57	20	5526	60
26	5535	78	21	5630	63
27	5561	81	22	5578	66
30	5613	90	24	5610	72
32	5514	96	27	5507	81
36	5519	108	33	5505	99
42	5516	126	36	5524	108
43	5649	129	38	5587	114
45	5511	135	39	5598	117
46	5628	138	41	5592	123
48	5510	144	42	5542	126
64	5608	192	53	5535	159
69	5512	207	57	5584	171
71	5505	213	58	5517	174
76	5585	228	60	5623	180
78	5523	234	63	5541	189
80	5593	240	64	5518	192
84	5607	252	70	5549	210
89	5546	267	76	5564	228
90	5640	270	77	5529	231
--	--	--	79	5626	237
--	--	--	80	5628	240
--	--	--	81	5546	243
--	--	--	83	5522	249
--	--	--	85	5530	255

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--	--	--	90	5616	270
--	--	--	91	5603	273
--	--	--	94	5516	282
--	--	--	97	5525	291
--	--	--	98	5568	294

## 6. Test Result for Off-Channel CAC

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/04/16
Test Item	Off-Channel CAC (Operating Channel 5500MHz , Off-Channel CAC Channel 5580MHz )		

### Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5570.4	1	618	86	1
2	5570.4	1	738	72	1
3	5570.4	1	598	89	1
4	5570.4	1	758	70	1
5	5570.4	1	658	81	1
6	5570.4	1	938	57	1
7	5570.4	1	898	59	1
8	5570.4	1	698	76	1
9	5570.4	1	918	58	1
10	5570.4	1	818	65	1
11	5580.0	1	718	74	1
12	5580.0	1	678	78	1
13	5580.0	1	778	68	1
14	5580.0	1	858	62	1
15	5580.0	1	798	67	1
16	5580.0	1	1152	46	1
17	5580.0	1	2693	20	1
18	5580.0	1	1237	43	1
19	5580.0	1	1096	49	1
20	5580.0	1	2522	21	1
21	5589.6	1	1731	31	1
22	5589.6	1	2992	18	1
23	5589.6	1	2357	23	1
24	5589.6	1	876	61	1
25	5589.6	1	825	64	1
26	5589.6	1	2403	22	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5589.6	1	1796	30	1
28	5589.6	1	2716	20	1
29	5589.6	1	1307	41	1
30	5589.6	1	3065	18	1
Detection Percentage (%)					100%

## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5570.4	1.5	224	24	1
2	5570.4	3.0	165	26	1
3	5570.4	4.5	178	23	1
4	5570.4	4.1	189	26	1
5	5570.4	5.0	198	25	1
6	5570.4	3.2	203	26	1
7	5570.4	4.9	198	24	1
8	5570.4	5.0	230	25	1
9	5570.4	2.1	212	24	0
10	5570.4	3.9	170	24	1
11	5580.0	1.9	200	27	1
12	5580.0	4.1	162	27	1
13	5580.0	3.7	192	26	1
14	5580.0	1.8	161	25	1
15	5580.0	1.3	175	25	1
16	5580.0	3.4	153	29	1
17	5580.0	1.9	181	25	1
18	5580.0	2.4	177	25	1
19	5580.0	4.7	221	25	1
20	5580.0	4.1	223	24	1
21	5589.6	1.4	181	25	1
22	5589.6	2.4	185	26	1
23	5589.6	4.9	160	26	1
24	5589.6	4.1	202	29	1
25	5589.6	2.1	182	26	1
26	5589.6	3.2	158	28	1
27	5589.6	1.6	219	28	1
28	5589.6	3.8	159	23	1
29	5589.6	1.0	178	24	1
30	5589.6	3.3	189	27	1
Detection Percentage (%)					96.7%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5570.4	8.4	463	17	1
2	5570.4	6.1	287	17	1
3	5570.4	8.7	366	16	1
4	5570.4	7.1	398	17	1
5	5570.4	6.6	313	16	1
6	5570.4	6.4	450	16	1
7	5570.4	6.3	255	18	1
8	5570.4	8.7	330	16	1
9	5570.4	8.0	299	17	1
10	5570.4	7.8	313	17	0
11	5580.0	6.8	485	18	1
12	5580.0	9.7	214	18	1
13	5580.0	7.4	366	18	1
14	5580.0	7.6	206	17	1
15	5580.0	8.5	367	18	1
16	5580.0	7.8	319	17	1
17	5580.0	6.6	228	16	1
18	5580.0	8.9	205	17	1
19	5580.0	7.3	312	16	1
20	5580.0	7.3	243	18	1
21	5589.6	8.5	316	16	1
22	5589.6	9.7	245	18	1
23	5589.6	8.7	433	17	1
24	5589.6	9.7	478	16	1
25	5589.6	7.4	498	16	1
26	5589.6	6.4	479	18	1
27	5589.6	8.9	458	16	1
28	5589.6	7.3	499	17	1
29	5589.6	6.8	365	17	1
30	5589.6	6.3	222	17	1
Detection Percentage (%)					96.7%