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Report No.: 2109TW0010-U3 Report Version: V1.0 Issue Date: 12-10-2021

DFS MEASUREMENT REPORT

FCC PART 15.407 WLAN 802.11a/n/ac/ax

FCC ID: 2AXJ4XE75

Applicant: TP-Link Corporation Limited

Application Type: Certification

Product: AXE5400 Whole Home Mesh Wi-Fi 6E System

AXE5300 Whole Home Mesh Wi-Fi 6E System

Model No.: Deco XE75, Deco XE5300

Brand Name: tp-link

FCC Classification: Unlicensed National Information Infrastructure (NII)

Type of Device: Master Device

FCC Rule Part(s): Part 15 Subpart E - 15.407 Section (h)(2)

Test Date: October 10 ~ 11, 2021

Tested By : kev/n key

(Kevin Ker)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : any ker

(Chenz Ker)



Testing Laboratory 3261

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.

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Revision History

Report No.	Version	Description	Issue Date	Note
2109TW0010-U3	V1.0	Original report	12-10-2021	Valid

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General Information

Applicant	TP-Link Corporation Limited			
Applicant Address	Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong			
Manufacturer	TP-Link Corporation Limited			
Manufacturer Address Room 901, 9/F. , New East Ocean Centre, 9 Science Museu Road, Tsim Sha Tsui, Kowloon, Hongkong				
Test Site	MRT Technology (Taiwan) Co., Ltd			
Test Site Address No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City Taiwan (R.O.C)				
MRT FCC Registration No.	FCC Registration No. 291082			
FCC Rule Part(s)	Part 15.407			

Test Facility / Accreditations

- **1.** MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
- 2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
- 3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.

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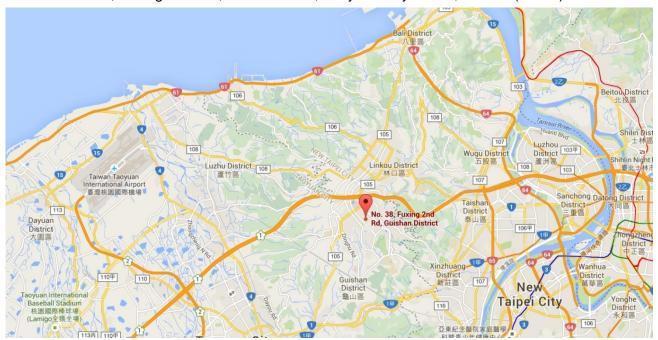
1. INTRODUCTION

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).



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2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	AXE5400 Whole Home Mesh Wi-Fi 6E System		
Product Name	AXE5300 Whole Home Mesh Wi-Fi 6E System		
Model No.	Deco XE75, Deco XE5300		
Brand Name	AXE5400 Whole Home Mesh Wi-Fi 6E System		
Dianu ivaine	AXE5300 Whole Home Mesh Wi-Fi 6E System		
Wi-Fi Specification 802.11a/b/g/n/ac/ax			
Antenna Information	Refer to Section 2.3		
Power Type	AC/DC Adapter		
Operating Environment	Indoor Use		
Accessory			
	Model: T120200-2B4		
AC/DC Adapter	Input: 100-240V ~ 50/60Hz, 0.8A		
	Output: 12V, 2.0A		

Remark:

- 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.
- There is the same hardware design, PCB layout between the models, different models and product names for different marketing requirements. Only Deco XE75 (Product name: AXE5400 Whole Home Mesh Wi-Fi 6E System) was selected for final tests.

2.2. Product Specification Subjective to this Report

Frequency Range	For 802.11ac-VHT160/ax-HE160: 5250MHz
Type of Modulation	802.11ac: OFDM
	802.11ax: OFDMA
Data Rate	802.11ac: up to 1733.4Mbps
	802.11ax: up to 2402Mbps
Power-on cycle	Requires 99.80 seconds to complete its power-on cycle
Uniform Spreading	For the 5250 MHz bands, 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.

Note: For other features of this EUT, test reports will be issued separately.

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2.3. Description of Available Antennas

Antenna	Frequency	T _X	Number	Max	Beamforming	CDD Direc	tional Gain
Туре	Band (MHz)	Paths	of	Antenna	Directional	(dl	Bi)
			spatial	Gain	Gain	For Power	For PSD
			streams	(dBi)	(dBi)		
	2412 ~ 2462	2	1	2.00	5.01	2.00	5.01
Dinala	5150 ~ 5350	2	1	1.00	4.01	1.00	4.01
Dipole	5725 ~ 5850	2	1	1.00	4.01	1.00	4.01
Antenna	0405 7405 0	1	1.00	4.01	1.00	4.01	
	6105 ~ 7125	2	2	1.00	4.01	1.00	4.01

Note:

1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

For CDD transmissions, directional gain is calculated as follows, N_{ANT} = 2, N_{SS} = 1.

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 = $10 \log (N_{ANT}/N_{SS}) dB = 3.01$;

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB for $N_{ANT} \le 4$;

2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax, not include 802.11a/b/g. Directional gain = G_{ANT} + BF Gain. BF mode power setting will be less than or equal to CDD power setting.

2.4. Working Frequencies for this report

802.11ac-VHT160/ax-HE160

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz				

2.5. Test Channel for this Report

Test Mode	Test Channel	Test Frequency
802.11ax-HE160	50	5250 MHz

2.6. Test Mode

Mode 1: Make the EUT communicate with client device at DFS channel

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2.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Part 15 Subpart E 15.407 Section (h)(2)
- KDB 905462 D02v02
- KDB 905462 D04v01

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3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

3.1. Applicability

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

Requirement	Operational Mode		
	Master Client Without Client With Rad		Client With Radar
		Radar Detection	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	Client Without Radar	
	With Radar Detection	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	Master Device or Client	Client Without Radar
multiple bandwidth modes	with Radar Detection	Detection
U-NII Detection Bandwidth and	All BW modes must be	Not required
Statistical Performance Check	tested	Not required
Channel Move Time and Channel	Test using widest BW mode	Test using the widest BW
Closing Transmission Time	available	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

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3.2. DFS Devices Requirements

Per FCC KDB 905462 D02 NII 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 sub section 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
Chame wove time	See Note 1.
	200 milliseconds + an aggregate of 60
Channel Closing Transmission Time	milliseconds over remaining 10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission
0-Mil Detection Dandwidth	power bandwidth. See Note 3.

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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 ≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP< 200 milliwatt that do not meet the power	-64 dBm
spectral density requirement	

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

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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 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	$\begin{array}{c} \text{Roundup} \left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}. \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\text{usec}}} \right) \right\} \end{array}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate	(Radar Typ	oes 1-4)		80%	120

Note: 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

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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	Pulse Repetition Frequency	Pulse Repetition Interval
Number	(Pulses Per Second)	(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

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Long Pulse Radar Test Waveform

Radar	Pulse	Chirp	PRI	Number	Number of	Minimum	Minimum
Туре	Width	Width	(µsec)	of Pulses	Bursts	Percentage of	Number of
	(µsec)	(MHz)		per Burst		Successful	Trials
						Detection	
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.

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3.5. Conducted Test Setup

The FCC KDB 905462 D02 NII 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.

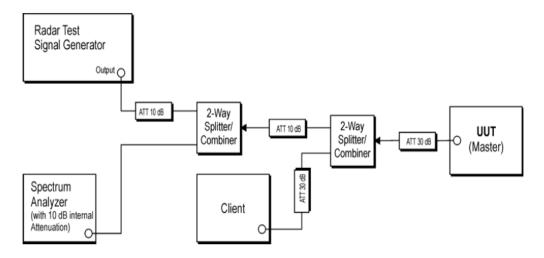


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

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4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS) - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2021/11/14
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2022/7/19
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2022/3/23
Vector Signal Generator	Keysight	N5182B	MRTTWA00010	1 year	2022/4/19
Combiner	WOKEN	0120A04208001S	MRTTWE00008	1 year	2022/6/17

Client Information

Instrument	Manufacturer	Type No.	FCC ID
Wireless Network Adapter	Intel	AX200NGW	PD9AX200NG

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

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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	

Note: We used the worst level -64dBm as DFS detection thresholds for all DFS testing.

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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.

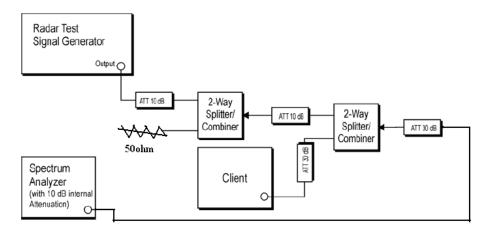


Figure 3-2: Conducted Test Setup

5.2.2. Calibration Procedure

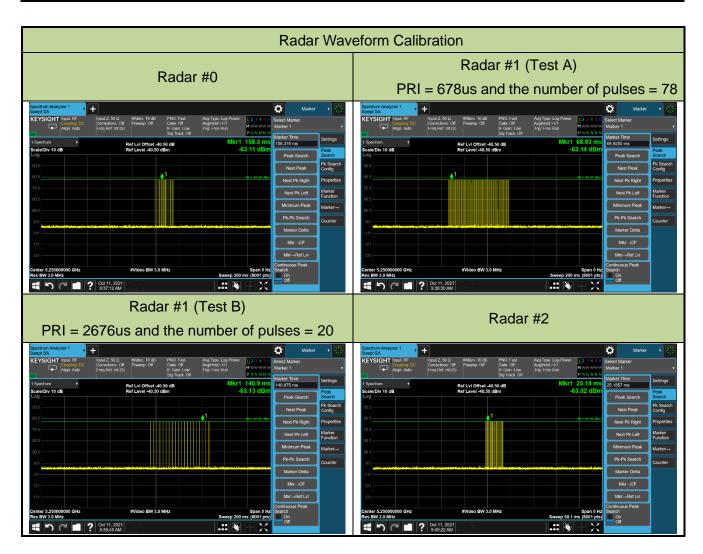
The Interference Radar Detection Threshold Level is (-64dBm) + (0) [dBi]+ 1 dB= -63 dBm that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test 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(-64dBm) + (0) [dBi]+ 1 dB= -63dBm. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

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5.2.3. Test Result of Calibration

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2
Test Engineer	Eric Lin	Test Date	2021/10/11
Test Item	Radar Waveform Calibration		



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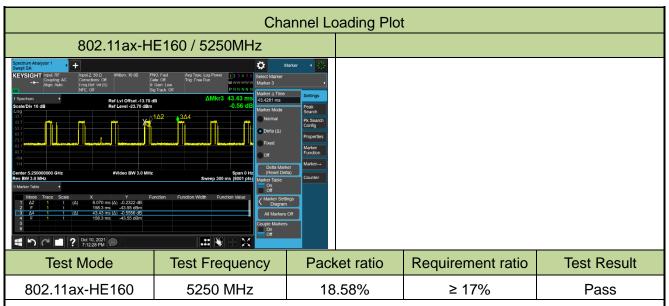


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5.2.4. Test Result of Channel Loading

Test Engineer	Eric Lin	Test Site	SR2
Test Item	Channel Loading	Test Date	2021/10/10



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).

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5.3. NII Detection Bandwidth Measurement

5.3.1. Test Limit

Minimum 100% of the NII 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.

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- 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.

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5.3.3. Test Result

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2	
Test Engineer	Eric Lin	Test Date	2021/10/11	
Test Item	Detection Bandwidth (802.11ax-HE160 mode - 5250MHz)			

Radar Frequency	DFS Detection Trials (1=Detection, 0= No Detection)										
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250 FL	1	1	1	1	1	1	1	1	1	1	100%
5251	1	1	1	1	1	1	1	1	1	1	100%
5252	1	1	1	1	1	1	1	1	1	1	100%
5253	1	1	1	1	1	1	1	1	1	1	100%
5254	1	1	1	1	1	1	1	1	1	1	100%
5255	1	1	1	1	1	1	1	1	1	1	100%
5260	1	1	1	1	1	1	1	1	1	1	100%
5265	1	1	1	1	1	1	1	1	1	1	100%
5270	1	1	1	1	1	1	1	1	1	1	100%
5275	1	1	1	1	1	1	1	1	1	1	100%
5280	1	1	1	1	1	1	1	1	1	1	100%
5285	1	1	1	1	1	1	1	1	1	1	100%
5290	1	1	1	1	1	1	1	1	1	1	100%
5295	1	1	1	1	1	1	1	1	1	1	100%
5300	1	1	1	1	1	1	1	1	1	1	100%
5305	1	1	1	1	1	1	1	1	1	1	100%
5310	1	1	1	1	1	1	1	1	1	1	100%
5315	1	1	1	1	1	1	1	1	1	1	100%
5320	1	1	1	1	1	1	1	1	1	1	100%
5325	1	1	1	1	1	1	1	1	1	1	100%
5326	1	1	1	1	1	1	1	1	1	1	100%
5327	1	1	1	1	1	1	1	1	1	1	100%
5328	1	1	1	1	1	1	1	1	1	1	100%
5329 FH	1	1	1	1	1	1	1	1	1	1	100%
5330	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 5250MHz. The 99% channel bandwidth fall within DFS bandwidth is 77.605MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = F_H - F_L = 5329MHz - 5250MHz = 79MHz.

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Note 3: NII Detection Bandwidth Min. Limit (MHz): 77.605MHz x 100% = 77.605MHz.

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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

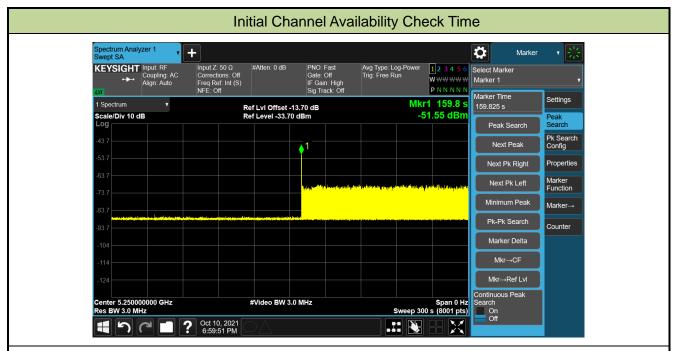
- 1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (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.

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5.4.3. Test Result

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2
Test Engineer	Eric Lin	Test Date	2021/10/10
Test Item	Initial Channel Availability Check Time (802.11ax-HE160 mode - 5250MHz)		



Note: The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (99.8 sec). Initial beacons/data transmissions are indicated by marker 1 (159.8 sec).

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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

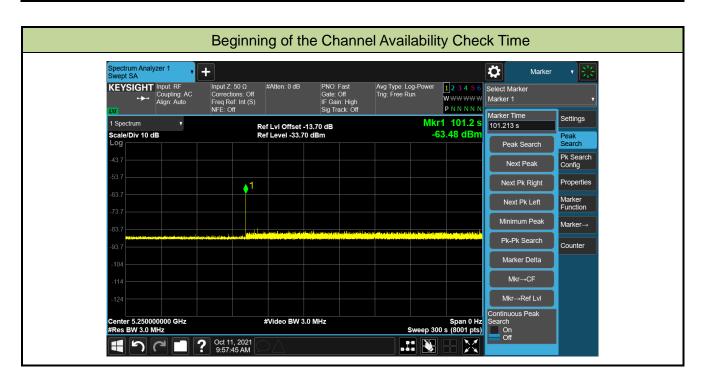
- 1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning 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.

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5.5.3. Test Result

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2	
Test Engineer	Eric Lin	Test Date	2021/10/11	
Took Itam	Beginning of the Channel Availability Check Time			
Test Item	(802.11ax-HE160 mode - 5250MHz)			



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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

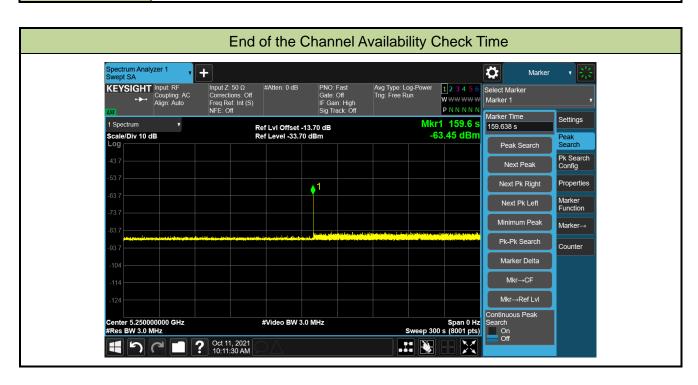
- 1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning 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 thanT1 + 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.

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5.6.3. Test Result

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2
Test Engineer	Eric Lin	Test Date	2021/10/11
Test Item	End of the Channel Availability Check Time (802.11ax-HE160 mode - 5250MHz)		



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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 30minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

5.7.2. Test Procedure Used

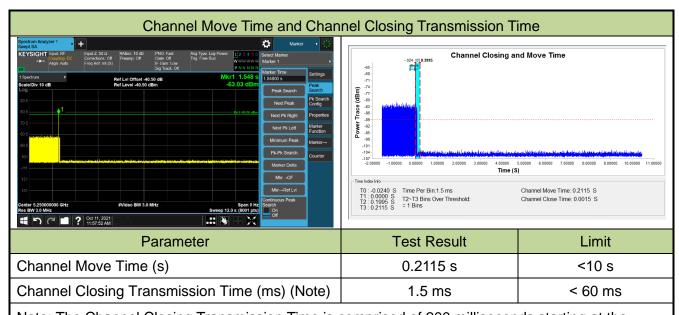
- 1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
- 2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will 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 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 X 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.

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5.7.3. Test Result

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2
Test Engineer	Eric Lin	Test Date	2021/10/11
Test Item	Channel Move Time and Channel Closing Transmission Time		
Test Mode	802.11ax-HE160 - 5250 MHz		

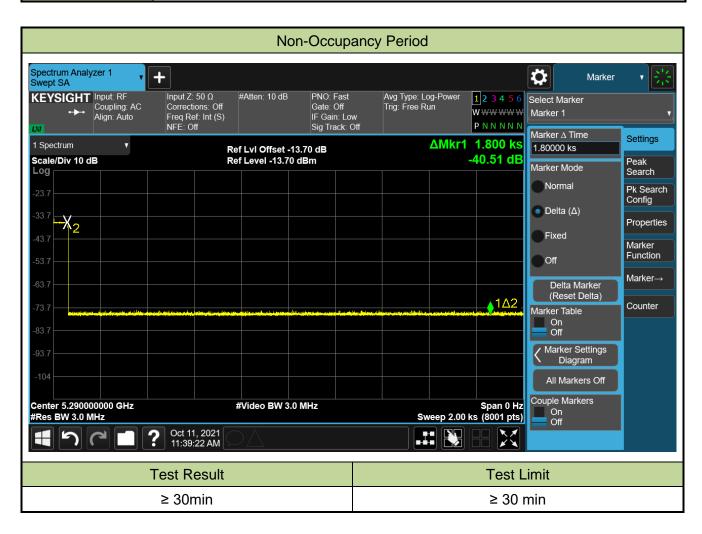


Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate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

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Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2
Test Engineer	Eric Lin	Test Date	2021/10/11
Test Item	Non-Occupancy Period		
Test Mode	802.11ax-HE160 mode - 5250 MHz		



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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%

Note: The percentage of successful detection is calculated by:

(Total Waveform Detections/ Total Waveform Trails) * 100 = 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.

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5.8.3. Test Result

Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2				
Test Engineer	Eric Lin	Test Date	2021/10/11				
Test Item	Radar Statistical Performance Check (802.11ax-HE160 – 5250MHz)						

		Rada	r Type 1-4 -	Radar Statis	tical Perform	nance		
Trial	Radar	Type 1	Radar	Type 2	Radar	Type 3	Radar	Type 4
	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect
	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect
0	5298	1	5310	1	5273	1	5273	1
1	5307	1	5323	1	5318	1	5286	1
2	5293	1	5298	1	5316	1	5327	1
3	5277	1	5268	1	5285	1	5326	1
4	5308	1	5300	1	5268	1	5276	0
5	5297	1	5261	1	5283	1	5272	1
6	5294	1	5261	1	5276	1	5303	1
7	5284	1	5306	1	5265	1	5304	1
8	5259	1	5258	1	5301	1	5296	1
9	5262	1	5281	1	5298	1	5308	1
10	5298	1	5317	1	5319	1	5315	1
11	5288	1	5303	1	5256	1	5291	1
12	5287	1	5297	1	5322	0	5275	1
13	5321	1	5286	1	5265	1	5293	0
14	5257	1	5262	1	5318	1	5278	1
15	5251	1	5328	1	5302	1	5272	1
16	5319	1	5301	1	5271	1	5315	1
17	5310	1	5315	1	5290	1	5296	1
18	5309	1	5262	1	5273	1	5268	1
19	5296	1	5250	1	5328	1	5315	0
20	5303	1	5311	1	5271	1	5276	0
21	5261	1	5296	1	5319	1	5264	1
22	5266	1	5307	1	5275	1	5263	1
23	5298	1	5260	1	5307	1	5302	1
24	5319	1	5279	1	5320	1	5281	1
25	5280	1	5326	1	5274	1	5255	1

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Trial	Radar	Type 1	Radar	Type 2	Radar	Туре 3	Radar	Type 4	
	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	
	(MHz)	0=no detect							
26	5264	1	5325	1	5326	1	5313	0	
27	5277	1	5279	1	5313	1	5284	1	
28	5292	1	5277	1	5303	1	5322	1	
29	5316	1	5284	1	5327	1	5298	1	
Probability:	100% 100%			0%	96.	7%	83.3%		
Aggregate:		95%							

	Rad	lar Typ	e 1 - Ra	dar Wav	eform			Rad	ar Type	e 2 - Ra	dar Wav	eform	
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Humber of Pulses	Taveform Length (us)		Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Taveford Length (us)
Download	0	Type 1	1.0	938.0	57	53466.0	Download	0	Type 2	3.2	179.0	26	4654.0
ownload	1	Type 1	1.0	698.0	76	53048.0	Download	1	Type 2	1.1	207.0	23	4761.0
ownload	2	Type 1	1.0	618.0	86	53148.0	Download	2	Type 2	2.1	230.0	24	5520.0
ownload	3	Type 1	1.0	538. 0	99	53262.0	Download	3	Type 2	4.8	200.0	29	5800.0
ownload	4	Type 1	1.0	878.0	61	53558.0	Download	4	Type 2	3.9	214.0	28	5992.0
ownload	5	Type 1	1.0	3066.0	18	55188.0	Download	5	Type 2	2.9	222.0	26	5772.0
ownload	6	Type 1	1.0	638.0	83	52954.0	Download	6	Type 2	3.2	204.0	26	5304.0
)ownload	7	Type 1	1.0	918.0	58	53244.0	Download	7	Type 2	2.5	192.0	25	4800.0
Download	8	Type 1	1.0	838.0	63	52794.0	Download	8	Type 2	3.1	164.0	26	4264.0
Download	9	Type 1	1.0	858.0	62	53196.0	Download	9	Type 2	1.2	156.0	23	3588.0
ownload	10	Type 1	1.0	798.0	67	53466.0	Download	10	Type 2	3.9	210.0	27	5670.0
Download	11	Type 1	1.0	718.0	74	53132.0	Download	11	Type 2	4.6	201.0	29	5829.0
Download	12	Type 1	1.0	578.0	92	53176.0	Download	12	Type 2	3.2	162.0	26	4212.0
Download	13	Type 1	1.0	598.0	89	53222.0	Download	13	Type 2	2.2	197.0	25	4925.0
Download	14	Type 1	1.0	558.0	95	53010.0	Download	14	Type 2	4.5	163.0	29	4727.0
Download	15	Type 1	1.0	2536.0	21	53256.0	Download	15	Type 2	3.0	203.0	26	5278.0
Download	16	Type 1	1.0	966.0	55	53130.0	Download	16	Type 2	5.0	168.0	29	4872.0
Download	17	Type 1	1.0	827.0	64	52928.0	Download	17	Type 2	2.4	217.0	25	5425.0
Download	18	Type 1	1.0	2501.0	22	55022.0	Download	18	Type 2	2.9	191.0	26	4966.0
Download	19	Type 1	1.0	2595.0	21	54495.0	Download	19	Type 2	2.3	166.0	25	4150.0
Download	20	Type 1	1.0	1114.0	48	53472.0	Download	20	Type 2	3. 7	150.0	27	4050.0
Download	21	Type 1	1.0	1302.0	41	53382.0	Download	21	Type 2	2.2	176.0	25	4400.0
Download	22	Type 1	1.0	3045.0	18	54810.0	Download	22	Type 2	4.9	195.0	29	5655.0
Download	23	Type 1	1.0	1624. 0	33	53592.0	Download	23	Type 2	2.9	202.0	26	5252.0
Download	24	Type 1	1.0	2878.0	19	54682.0	Download	24	Type 2	2.5	178.0	25	4450.0
Download	25	Type 1	1.0	1027. 0	52	53404.0	Download	25	Type 2	1.1	206.0	23	4738.0
Download	26	Type 1	1.0	2485.0	22	54670.0	Download	26	Type 2	3.8	155.0	27	4185.0
Download	27	Type 1	1.0	1600.0	33	52800.0	Download	27	Type 2	4. 7	157.0	29	4553.0
Download	28	Type 1	1.0	1172.0	46	53912.0	Download	28	Type 2	2.4	224.0	25	5600.0
Download	29	Type 1	1.0	1177.0	45	52965.0	Download	29	Type 2	4.2	159.0	28	4452.0

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Radar Type 3 - Radar Waveform

Taveform Length (us) Pulse Vidth (us) Number of Pulses Trial Id PRI (us) Download 355.0 Туре З 8.2 8035.0 6.1 Download 487.0 16 Туре З Download 344.0 16 504.0 Туре З Download 9.8 288.0 18 5184.0 Type 3 Download 8.9 230.0 18 4140.0 Туре З Download 7.9 432.0 17 7344.0 Туре З Download 8.2 207.0 3519.0 Туре З Download 7.5 443.0 Туре З Download 8.1 17 439.0 7463.0 Туре З Download 6.2 223.0 16 8568.0 Туре З 8.9 208.0 18 3744.0 Туре З Download 9.6 463.0 Type 3 Download 8.2 441.0 7497.0 Туре З Download 7.2 16 323.0 5168.0 Туре З 9.5 297.0 18 5346.0 Туре З 8.0 412.0 004.0 Туре З 10.0 324.0 Туре З 271.0 Туре З 7.9 349.0 Type 3 933. 0 Download Гуре З 409.0 16 544.0 Download 373.0 6714.0 Туре З 254.0 Туре З Туре З 274.0 Download Туре З 278.0 Download 7.5 317.0 Type 3 Download 260.0 16 Туре З Download Туре З 211.0

272.0

264.0

4488.0

Туре З

7.4

Download

Download

Radar Type 4 - Radar Waveform

	Trial Id	Radar Type	Pulse Vidth (us)	PRI (us)	Humber of Pulses	Taveform Length (us)
Download	0	Type 4	16.0	355.0	14	4970.0
Download	1	Type 4	11.3	487.0	12	5844.0
Download	2	Type 4	13.5	344.0	13	4472.0
Download	3	Type 4	19.4	288.0	16	4608.0
Download	4	Type 4	17.5	230.0	15	3450.0
Download	5	Type 4	15.3	432.0	14	6048.0
Download	6	Type 4	15.9	207.0	14	2898.0
Download	7	Type 4	14.3	443.0	13	5759.0
Download	8	Type 4	15.8	439.0	14	6146.0
Download	9	Type 4	11.5	223.0	12	2676.0
Download	10	Туре 4	17.4	208.0	15	3120.0
Download	11	Type 4	19.0	463.0	16	7408.0
Download	12	Type 4	16.0	441.0	14	6174.0
Download	13	Type 4	13.8	323.0	13	4199.0
Download	14	Type 4	18.9	297.0	16	4752.0
Download	15	Type 4	15.5	412.0	14	5768.0
Download	16	Type 4	19.9	324.0	16	5184.0
Download	17	Type 4	14. 1	271.0	13	3523.0
Download	18	Type 4	15.2	349.0	14	4886.0
Download	19	Type 4	13.8	409.0	13	5317.0
Download	20	Type 4	17.1	373.0	15	5595.0
Download	21	Type 4	13.8	254.0	13	3302.0
Download	22	Type 4	19.8	274.0	16	4384.0
Download	23	Type 4	15.3	278.0	14	3892.0
Download	24	Type 4	14.5	317.0	13	4121.0
Download	25	Type 4	11.3	260.0	12	3120.0
Download	26	Type 4	17.3	211.0	15	3165.0
Download	27	Type 4	19.2	272.0	16	4352.0
Download	28	Type 4	14.2	264.0	13	3432.0
Download	29	Type 4	18.2	284.0	15	4260.0

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Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
0	5290	1	15	5252.8	1
1	5290	1	16	5252	1
2	5290	1	17	5254.4	1
3	5290	1	18	5252.8	1
4	5290	1	19	5254.8	1
5	5290	1	20	5321	1
6	5290	1	21	5323.4	1
7	5290	1	22	5326.6	1
8	5290	1	23	5323	0
9	5290	1	24	5326.2	1
10	5256.4	1	25	5323	0
11	5258	1	26	5326.6	0
12	5252	1	27	5322.2	1
13	5252.4	0	28	5324.2	1
14	5253.6	1	29	5327	1
	Det	ection Percentage	(%)		86.7%

Type 5 Radar Waveform_0										
Burst Offset (us) Pulse Width (us) Width Width										
537155.0	62.5	9	1	1105.0	-	-				
798644.0	98.8	9	3	1236.0	1990.0	1717.0				
1065541.0	60.8	9	1	1348.0	-	-				
239514.0	98. 4	9	3	1707.0	1774.0	1123.0				
504407.0	51.0	9	1	1516.0	-	-				
768519.0	59.5	9	1	1658.0	-	-				
1032715.0	59.3	9	1	1639.0	-	-				
207136.0	84.8	9	3	1552.0	1261.0	1399.0				
471979.0	63.9	9	1	1247.0	-	-				
735966.0	55.2	9	1	1677.0	-	-				
998597.0	80.5	9	2	1550.0	1806.0	-				

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
96044.0	72.3	20	2	1156.0	1319.0	-
239665.0	96.2	20	3	1925.0	1928.0	1841.0
386579.0	51.1	20	1	1395.0	-	-
529244.0	93.5	20	3	1031.0	1223.0	1973.0
78346.0	59.5	20	1	1310.0	-	-
222316.0	88.2	20	3	1585.0	1272.0	1749.0
368753.0	56. 7	20	1	1302.0	-	-
511493.0	88.9	20	3	1556.0	1546.0	1069.0
60270.0	69.7	20	2	1837.0	1360.0	-
205763.0	60.5	20	1	1014.0	-	-
349752.0	75. 7	20	2	1950.0	1255.0	-
494992.0	76.9	20	2	1004.0	1600.0	-
42566.0	59.5	20	1	1436.0	-	-
187249.0	75. 4	20	2	1470.0	1522.0	-
332595.0	51.4	20	1	1998.0	-	-
477978.0	62.4	20	1	1561.0	-	-
24601.0	82.6	20	2	1801.0	1649.0	-
169704.0	50. 7	20	1	1968.0	-	-
314923.0	53.8	20	1	1630.0	-	-
460364.0	60. 4	20	1	1217.0	_	_

Type 5 Radar Waveform_2

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
13619.0	59.8	8	1	1621.0	-	-
304402.0	52.3	8	1	1076.0	-	-
595151.0	59. 7	8	1	1132.0	-	-
883481.0	86.3	8	3	1432.0	1397.0	1595.0
1176133.0	56. 7	8	1	1686.0	-	-
268517.0	65.1	8	1	1378.0	-	-
558936.0	50.5	8	1	1989.0	-	-
848103.0	94.7	8	3	1540.0	1244.0	1162.0
1137817.0	88.3	8	3	1337.0	1583.0	1412.0
232374.0	83.3	8	2	1570.0	1536.0	-

Type 5 Radar Waveform_3

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
260007.0	95.2	20	3	1109.0	1903.0	1568.0
404166.0	93.5	20	3	1578.0	1745.0	1624.0
549286.0	92.9	20	3	1126.0	1035.0	1917.0
98015.0	79. 1	20	2	1425.0	1916.0	-
242550.0	72.0	20	2	1872.0	1897.0	-
387350.0	70.8	20	2	1532.0	1936.0	-
532088.0	73.0	20	2	1733.0	1667.0	-
79920.0	90.8	20	3	1892.0	1693.0	1767.0
225470.0	65.0	20	1	1825.0	-	-
369936.0	67.1	20	2	1521.0	1289.0	-
516282.0	59. 1	20	1	1060.0	-	-
62466.0	74.0	20	2	1192.0	1185.0	-
207506.0	77.7	20	2	1000.0	1097.0	-
351332.0	84.9	20	3	1218.0	1237.0	1651.0
495587.0	86.9	20	3	1347.0	1361.0	1720.0
44533.0	71.9	20	2	1763.0	1689.0	-
189984.0	51.2	20	1	1026.0	-	-
334045.0	72.9	20	2	1722.0	1463.0	_
477704.0	99.6	20	3	1564.0	1054.0	1923.0
26647.0	97.2	20	3	1602.0	1632.0	1656.0

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
430223.0	76.8	5	2	1518.0	1050.0	_
791859.0	84. 1	5	3	1946.0	1721.0	1805.0
1157046.0	60.1	5	1	1955.0	-	-
22286.0	94.8	5	3	1539.0	1635.0	1279.0
385310.0	70.7	5	2	1316.0	1943.0	-
748808.0	70.0	5	2	1071.0	1207.0	-
1110533.0	86.4	5	3	1679.0	1221.0	1424.0
1476343.0	64.9	5	1	1216.0	-	-

Type 5 Radar Waveform_5

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
272107.0	86. 7	8	3	1111.0	1203.0	1920.0
561948.0	94.5	8	3	1298.0	1934.0	1362.0
851697.0	87.6	8	3	1959.0	1488.0	1392.0
1144663.0	62.1	8	1	1592.0	-	-
236839.0	50.6	8	1	1931.0	-	-
526248.0	86.5	8	3	1784.0	1737.0	1047.0
818254.0	65.3	8	1	1527.0	-	-
1108027.0	82.3	8	2	1099.0	1394.0	-
200635.0	84.0	8	3	1824.0	1085.0	1484.0
491518.0	80.4	8	2	1038.0	1136.0	-
	_			-	-	

Type 5 Radar Waveform_6

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
782330.0	53.3	7	1	1712.0	-	-
1072114.0	80.7	7	2	1032.0	1616.0	-
164839.0	89.5	7	3	1645.0	1610.0	1702.0
455153.0	91.9	7	3	1052.0	1208.0	1440.0
744339.0	85.7	7	3	1295.0	1941.0	1996.0
1034992.0	86.8	7	3	1760.0	1021.0	1430.0
129480.0	51.3	7	1	1793.0	-	-
419316.0	85.8	7	3	1379.0	1214.0	1387.0
710220.0	74.6	7	2	1553.0	1024.0	-
1000199.0	74.9	7	2	1935.0	1161.0	-

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Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
99.5	16	3	1375.0	1409.0	1855.0
84.9	16	3	1384.0	1741.0	1326.0
63.8	16	1	1067.0	-	_
77.6	16	2	1519.0	1571.0	-
95. 1	16	3	1719.0	1349.0	1945.0
91.2	16	3	1976.0	1344.0	1695.0
56.5	16	1	1108.0	-	-
61.1	16	1	1533.0	-	_
83.3	16	2	1341.0	1373.0	-
98. 1	16	3	1647.0	1914.0	1175.0
58.3	16	1	1622.0	-	-
52.0	16	1	1874.0	-	-
84. 4	16	3	1930.0	1469.0	1327.0
58. 1	16	1	1898.0	-	-
54.0	16	1	1355.0	-	-
70.6	16	2	1309.0	1809.0	_
79.5	16	2	1868.0	1180.0	-
	99.5 84.9 63.8 77.6 95.1 91.2 56.5 61.1 83.3 98.1 58.3 52.0 84.4 58.1 54.0	### width (us) ####################################	Pulses per Burst Pulses per	Width (us) Width (MHz) Pulses per Burst PRI-1 (us) 99.5 16 3 1375.0 84.9 18 3 1384.0 63.8 18 1 1067.0 77.6 18 2 1519.0 95.1 16 3 1719.0 91.2 16 3 1976.0 56.5 16 1 1108.0 61.1 16 1 1533.0 83.3 16 2 1341.0 98.1 16 3 1647.0 58.3 16 1 1822.0 52.0 16 1 1874.0 84.4 16 3 1930.0 58.1 16 1 1898.0 54.0 16 1 1355.0 70.6 16 2 1309.0	Width (us) Width (MHx) Pulses per Burst PRI-1 (us) PRI-2 (us) 99.5 16 3 1375.0 1409.0 84.9 16 3 1384.0 1741.0 63.8 16 1 1067.0 - 77.6 16 2 1519.0 1571.0 95.1 16 3 1719.0 1349.0 91.2 16 3 1976.0 1344.0 56.5 16 1 1108.0 - 61.1 16 1 1533.0 - 83.3 16 2 1341.0 1373.0 98.1 16 3 1647.0 1914.0 58.3 16 1 1874.0 - 52.0 16 1 1874.0 - 84.4 16 3 1930.0 1469.0 58.1 16 1 1898.0 - 54.0 16 1 1355.0 -

Type 5 Radar Waveform_8

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
218526.0	97.0	9	3	1494.0	1705.0	1713.0
482648.0	73. 4	9	2	1582.0	1676.0	-
745655.0	91.2	9	3	1413.0	1068.0	1918.0
1010374.0	69.5	9	2	1402.0	1699.0	-
186747.0	54.5	9	1	1034.0	-	-
449652.0	88.0	9	3	1036.0	1461.0	1977.0
714468.0	70.8	9	2	1048.0	1414.0	-
977254.0	69.5	9	2	1894.0	1899.0	-
153941.0	68.9	9	2	1098.0	1674.0	-
418282.0	57.6	9	1	1644.0	-	-
680490.0	84.9	9	3	1618.0	1288.0	1888.0

Type 5 Radar Waveform_9

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1155325.0	98.5	6	3	1242.0	1606.0	1100.0
148407.0	73. 4	6	2	1670.0	1829.0	-
470670.0	93. 4	6	3	1011.0	1478.0	1754.0
792905.0	84. 9	6	3	1165.0	1807.0	1458.0
1115140.0	95. 4	6	3	1958.0	1528.0	1023.0
108813.0	61.5	6	1	1862.0	-	-
431968.0	65. 4	6	1	1147.0	-	-
754960.0	51.8	6	1	1334.0	-	-
1076169.0	80.6	6	2	1761.0	1850.0	-

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
41391.0	59. 9	14	1	1703.0	_	-
234650.0	67.0	14	2	1615.0	1291.0	-
428574.0	59. 4	14	1	1781.0	-	-
620768.0	80.0	14	2	1794.0	1782.0	-
17553.0	54.2	14	1	1225.0	_	-
210680.0	99.0	14	3	1049.0	1081.0	1368.0
403412.0	85.9	14	3	1401.0	1037.0	1938.0
597701.0	72.1	14	2	1140.0	1467.0	-
792598.0	51.3	14	1	1092.0	-	-
186531.0	96.3	14	3	1325.0	1727.0	1956.0
380218.0	81.4	14	2	1380.0	1790.0	-
572846.0	87.8	14	3	1318.0	1505.0	1220.0
768268.0	65.0	14	1	1574.0	-	-
163413.0	57.2	14	1	1921.0	-	-
356949.0	54. 4	14	1	1975.0	-	-

Type 5 Radar Waveform_11

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
635613.0	62.3	12	1	1660.0	_	_
856782.0	83.5	12	3	1226.0	1626.0	1278.0
161171.0	55.3	12	1	1486.0	-	-
383237.0	94.9	12	3	1282.0	1732.0	1944.0
605727.0	96.9	12	3	1612.0	1747.0	1875.0
828832.0	93.1	12	3	1186.0	1724.0	1771.0
133688.0	58.0	12	1	1148.0	_	_
356408.0	76.2	12	2	1758.0	1653.0	-
578339.0	83.5	12	3	1764.0	1672.0	1748.0
802805.0	71.6	12	2	1746.0	1320.0	-
106068.0	62.7	12	1	1828.0	_	_
329493.0	59.9	12	1	1847.0	-	-
552837.0	54.6	12	1	1986.0	-	-

Type 5 Radar Waveform_12

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
503183.0	73. 4	19	2	1431.0	1482.0	-
51044.0	56.6	19	1	1317.0	-	-
195791.0	72.9	19	2	1531.0	1167.0	-
339641.0	92.7	19	3	1094.0	1816.0	1566.0
486603.0	52.1	19	1	1366.0	-	-
32938.0	90.1	19	3	1669.0	1932.0	1715.0
177943.0	69.5	19	2	1543.0	1170.0	-
322397.0	80.0	19	2	1896.0	1569.0	-
468530.0	63.9	19	1	1607.0	-	-
15278.0	61.2	19	1	1157.0	-	-
160477.0	65.3	19	1	1303.0	-	-
305549.0	55.6	19	1	1559.0	-	-
450770.0	52.0	19	1	1452.0	-	-
592608.0	98.8	19	3	1641.0	1396.0	1759.0
142239.0	68.2	19	2	1181.0	1599.0	_
286676.0	72.6	19	2	1922.0	1706.0	-
432025.0	76.3	19	2	1407.0	1240.0	_
575818.0	97.2	19	3	1234.0	1195.0	1340.0
124116.0	83.4	19	3	1107.0	1742.0	1286.0
269948.0	66.1	19	1	1215.0	-	_

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1037233.0	89.0	5	3	1058.0	1442.0	1544.0
1400542.0	72.5	5	2	1684.0	1834.0	_
267345.0	61.9	5	1	1601.0	-	-
630894.0	56.2	5	1	1267.0	-	-
992863.0	70.6	5	2	1619.0	1940.0	-
1357558.0	55.0	5	1	1617.0	-	-
222167.0	87.6	5	3	1178.0	1426.0	1787.0
586148.0	51.9	5	1	1197.0	-	-

Type 5 Radar Waveform_14

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
397496.0	90.9	18	3	1438.0	1504.0	1285.0
550790.0	76.0	18	2	1189.0	1735.0	-
74773.0	58. 4	18	1	1500.0	-	-
226501.0	91.6	18	3	1062.0	1563.0	1881.0
378989.0	89.0	18	3	1499.0	1018.0	1321.0
532136.0	81.2	18	2	1381.0	1393.0	-
55661.0	98.7	18	3	1876.0	1296.0	1580.0
207694.0	94.7	18	3	1415.0	1886.0	1427.0
360854.0	73. 4	18	2	1501.0	1259.0	-
512510.0	88.8	18	3	1030.0	1191.0	1584.0
36958.0	85.6	18	3	1880.0	1130.0	1352.0
189460.0	75.0	18	2	1101.0	1993.0	-
340942.0	87.7	18	3	1661.0	1728.0	1443.0
494230.0	74.5	18	2	1991.0	1211.0	-
18218.0	98.5	18	3	1117.0	1411.0	1895.0
170609.0	72.2	18	2	1480.0	1890.0	-
322594.0	90.1	18	3	1273.0	1314.0	1514.0
474729.0	89.2	18	3	1198.0	1560.0	1406.0
626802.0	94.9	18	3	1668.0	1473.0	1118.0

Type 5 Radar Waveform_15

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
288778.0	94.3	8	3	1942.0	1696.0	1611.0
579175.0	89. 9	8	3	1466.0	1166.0	1311.0
871338.0	53.5	8	1	1080.0	-	-
1162023.0	57.2	8	1	1173.0	-	-
253521.0	74. 4	8	2	1987.0	1206.0	-
543809.0	79.3	8	2	1652.0	1487.0	-
833217.0	93.8	8	3	1613.0	1388.0	1385.0
1125835.0	65. 7	8	1	1572.0	-	-
218076.0	50.8	8	1	1498.0	-	-
507330.0	94.8	8	3	1766.0	1820.0	1258.0

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
468656.0	66. 7	17	2	1633.0	1638.0	_
639187.0	72.0	17	2	1446.0	1687.0	_
106736.0	97.2	17	3	1025.0	1575.0	1453.0
277773.0	52. 4	17	1	1972.0	_	_
447441.0	67.6	17	2	1636.0	1988.0	_
616991.0	89. 1	17	3	1492.0	1483.0	1525.0
85724.0	88.0	17	3	1502.0	1475.0	1451.0
257097.0	52.8	17	1	1007.0	-	-
426799.0	73.8	17	2	1800.0	1269.0	-
596978.0	66. 7	17	2	1493.0	1900.0	-
64876.0	70.9	17	2	1982.0	1277.0	-
236030.0	50.1	17	1	1033.0	-	_
406130.0	73.5	17	2	1429.0	1074.0	-
574597.0	99.3	17	3	1230.0	1951.0	1913.0
43854.0	87.6	17	3	1581.0	1194.0	1003.0
214942.0	61.6	17	1	1134.0	-	-
385557.0	58.3	17	1	1698.0	_	_

Type 5 Radar Waveform_17

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1051232.0	78.5	7	2	1369.0	1383.0	-
43411.0	64.5	7	1	1102.0	-	-
366031.0	74. 1	7	2	1029.0	1848.0	-
688334.0	89. 7	7	3	1176.0	1190.0	1235.0
1012753.0	66.1	7	1	1079.0	-	-
3607.0	81.4	7	2	1064.0	1810.0	-
326505.0	60.1	7	1	1980.0	-	-
648621.0	93. 4	7	3	1151.0	1224.0	1201.0
972833.0	62.0	7	1	1243.0	-	-
972833.0	62.0	7	1	1243.0	-	-

Type 5 Radar Waveform_18

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
644402.0	87.3	17	3	1330.0	1814.0	1128.0
143017.0	68.7	17	2	1346.0	1263.0	-
303775.0	84.0	17	3	1012.0	1177.0	1070.0
465751.0	62.2	17	1	1718.0	-	-
624356.0	95.2	17	3	1250.0	1520.0	1776.0
123341.0	65.5	17	1	1738.0	-	-
283676.0	97.8	17	3	1245.0	1335.0	1332.0
444099.0	100.0	17	3	1420.0	1751.0	1212.0
607190.0	56.7	17	1	1682.0	-	-
103190.0	66.7	17	2	1691.0	1887.0	-
263687.0	88. 4	17	3	1343.0	1119.0	1926.0
425340.0	72.5	17	2	1342.0	1439.0	-
586450.0	70.0	17	2	1609.0	1063.0	-
83253.0	85. 4	17	3	1331.0	1863.0	1398.0
244866.0	60.4	17	1	1772.0	-	-
405181.0	69. 4	17	2	1905.0	1410.0	-
567727.0	66.2	17	1	1367.0	-	-
63624.0	72.5	17	2	1428.0	1597.0	_

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
311291.0	73.9	11	2	1280.0	1912.0	-
533673.0	94.1	11	3	1614.0	1159.0	1657.0
758806.0	66.3	11	1	1598.0	-	-
60791.0	54.2	11	1	1962.0	-	-
283826.0	69.6	11	2	1995.0	1146.0	-
508047.0	62.8	11	1	1131.0	-	-
729667.0	70.9	11	2	1883.0	1744.0	-
33272.0	65.3	11	1	2000.0	_	-
256871.0	51.1	11	1	1249.0	-	-
479427.0	76.8	11	2	1625.0	1573.0	-
703469.0	55.0	11	1	1964.0	_	-
5757.0	50.5	11	1	1716.0	_	_
228540.0	90.6	11	3	1565.0	1292.0	1576.0

Type 5 Radar Waveform_20

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
586868.0	87.0	8	3	1979.0	1529.0	1997.0
879355.0	59. 1	8	1	1711.0	-	-
1170038.0	55.5	8	1	1650.0	-	-
262282.0	51.7	8	1	1845.0	-	-
552591.0	69.3	8	2	1417.0	1040.0	-
842559.0	68.8	8	2	1534.0	1594.0	-
1134750.0	61.6	8	1	1110.0	-	-
226134.0	71.5	8	2	1773.0	1948.0	-
517089.0	55. 4	8	1	1821.0	-	-
808223.0	52. 4	8	1	1022.0	-	-

Type 5 Radar Waveform_21

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
783782.0	73.6	13	2	1016.0	1053.0	-
135733.0	92.6	13	3	1675.0	1187.0	1456.0
343176.0	70.8	13	2	1547.0	1262.0	-
550289.0	73.2	13	2	1729.0	1219.0	-
755805.0	85.9	13	3	1006.0	1983.0	1823.0
110636.0	58.4	13	1	1370.0	-	-
317491.0	79.2	13	2	1274.0	1971.0	-
525373.0	63.7	13	1	1967.0	-	-
731829.0	70.3	13	2	1654.0	1423.0	-
84718.0	99.9	13	3	1740.0	1901.0	1276.0
292506.0	58.9	13	1	1710.0	-	-
498703.0	86.3	13	3	1055.0	1812.0	1020.0
705552.0	99.3	13	3	1013.0	1507.0	1479.0
59278.0	95. 7	13	3	1526.0	1953.0	1150.0

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
266549.0	83. 1	13	2	1491.0	1506.0	_
473152.0	99. 1	13	3	1524.0	1116.0	1356.0
681433.0	71.2	13	2	1125.0	1158.0	_
33841.0	91.3	13	3	1204.0	1184.0	1460.0
240976.0	79.9	13	2	1419.0	1778.0	-
448764.0	64.3	13	1	1902.0	-	-
655456.0	71.0	13	2	1541.0	1313.0	-
8348.0	95.0	13	3	1666.0	1304.0	1041.0
215923.0	56.2	13	1	1382.0	-	-
422774.0	76.2	13	2	1112.0	1680.0	-
631072.0	51.3	13	1	1312.0	-	-
838858.0	63.3	13	1	1087.0	-	-
190253.0	64. 4	13	1	1849.0	-	-
395917.0	83.6	13	3	1984.0	1878.0	1797.0

Type 5 Radar Waveform_23

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
845130.0	91.2	8	3	1770.0	1882.0	1826.0
1138316.0	50.6	8	1	1818.0	-	-
230859.0	54.6	8	1	1153.0	-	-
521356.0	51.0	8	1	1755.0	-	-
810779.0	68.5	8	2	1815.0	1694.0	-
1100809.0	91.7	8	3	1308.0	1305.0	1066.0
194508.0	92.8	8	3	1329.0	1839.0	1284.0
485647.0	61.7	8	1	1537.0	-	-
774244.0	98.9	8	3	1283.0	1957.0	1490.0
1064303.0	89.6	8	3	1866.0	1579.0	1096.0
	_					

Type 5 Radar Waveform_24

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
113295.0	85. 1	13	3	1743.0	1077.0	1323.0
321026.0	56.8	13	1	1873.0	-	-
527917.0	72.0	13	2	1701.0	1044.0	-
736348.0	63.0	13	1	1336.0	-	-
87698.0	84.8	13	3	1891.0	1386.0	1970.0
295682.0	50.6	13	1	1275.0	-	-
502323.0	81.7	13	2	1441.0	1422.0	-
710282.0	50.7	13	1	1937.0	-	-
62492.0	59. 9	13	1	1911.0	-	-
269941.0	59. 9	13	1	1822.0	-	-
476447.0	68. 7	13	2	1795.0	1704.0	-
683361.0	70.2	13	2	1889.0	1762.0	-
36845.0	97.7	13	3	1188.0	1907.0	1073.0
244051.0	70.3	13	2	1775.0	1228.0	_

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
790087.0	91.6	5	3	1434.0	1222.0	1700.0
1152552.0	91.1	5	3	1433.0	1655.0	1627.0
19942.0	81.4	5	2	1730.0	1266.0	_
382924.0	78. 7	5	2	1591.0	1752.0	_
745306.0	86.4	5	3	1681.0	1389.0	1485.0
1107635.0	94. 7	5	3	1301.0	1835.0	1910.0
1472024.0	71.8	5	2	1692.0	1509.0	_
338298.0	72.5	5	2	1043.0	1924.0	-

Type 5 Radar Waveform_26

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
509456.0	94.0	8	3	1227.0	1202.0	1086.0
772119.0	95.6	8	3	1683.0	1468.0	1861.0
1037304.0	72.6	8	2	1969.0	1133.0	-
213305.0	69.7	8	2	1593.0	1608.0	-
476319.0	95.3	8	3	1708.0	1620.0	1673.0
742313.0	57.9	8	1	1144.0	-	-
1004559.0	67.7	8	2	1857.0	1513.0	-
181057.0	57.5	8	1	1714.0	-	-
445495.0	52.9	8	1	1045.0	-	-
708659.0	71.3	8	2	1688.0	1142.0	-
973491.0	50.2	8	1	1780.0	-	-

Type 5 Radar Waveform_27

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
101824.0	81.6	15	2	1844.0	1404.0	_
283743.0	56.1	15	1	1114.0	-	-
463859.0	73.0	15	2	1640.0	1908.0	-
644033.0	92.4	15	3	1474.0	1238.0	1836.0
79702.0	57. 9	15	1	1497.0	_	_
261187.0	60.1	15	1	1642.0	-	-
442949.0	55.6	15	1	1199.0	-	-
620882.0	94.6	15	3	1853.0	1909.0	1843.0
57355.0	50.6	15	1	1306.0	-	-
238763.0	53. 4	15	1	1851.0	-	-
420202.0	54.5	15	1	1870.0	_	_
602108.0	64. 9	15	1	1297.0	-	-
34919.0	70.9	15	2	1637.0	1155.0	_
216484.0	52.9	15	1	1604.0	-	-
396829.0	84. 4	15	3	1138.0	1648.0	1009.0
579514.0	59. 4	15	1	1590.0	_	_

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Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
25241.0	77.5	5	2	1542.0	1231.0	-
388708.0	60.3	5	1	1455.0	-	-
752009.0	64.1	5	1	1739.0	-	-
1114881.0	75. 4	5	2	1300.0	1115.0	-
1478851.0	54.2	5	1	1646.0	-	-
343610.0	67.8	5	2	1765.0	1127.0	-
707338.0	62.6	5	1	1551.0	-	-
1071007.0	62.9	5	1	1205.0	-	-

Type 5 Radar Waveform_29

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1433175.0	76. 4	6	2	1089.0	1512.0	-
298695.0	90. 4	6	3	1209.0	1350.0	1281.0
662422.0	65.0	6	1	1893.0	-	-
1026345.0	55. 4	6	1	1039.0	-	-
1388121.0	73. 7	6	2	1929.0	1019.0	-
254104.0	83. 1	6	2	1374.0	1846.0	-
617841.0	52.4	6	1	1471.0	-	-
980962.0	56.9	6	1	1960.0	-	-

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Radar Type 6 - Radar Statistical Performance

Trail #	1=Detection	Trail #	1=Detection
	0=No Detection		0=No Detection
0	0	15	1
1	1	16	1
2	0	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
Detection Pe	rcentage (%)	93.	3%

		Type 6 R	adar Wavefor	·m_0		
Frequency List (MHz)	О	1	2	3	4	
CIST (MHZ)	5391	5513	5543	5257	5456	
5	5483	5343	5521	5279	5361	
10	5652	5662	5463	5706	5464	
15	5342	5505	5566	5719	5666	
20	5656	5328	5259	5370	5538	
25	5376	5260	5574	5568	5619	
30	5392	5261	5299	5504	5368	
35	5440	5387	5281	5645	5561	
40	5665	5591	5477	5312	5390	
45	5507	5648	5347	5373	5324	
50	5575	5429	5410	5572	5534	
55	5612	5265	5454	5430	5672	
60	5436	5564	5510	5651	5414	
65	5549	5346	5724	5632	5452	
70	5338	5394	5422	5604	5308	
75	5495	5691	5434	5542	5608	
80	5415	5508	5692	5441	5618	
85	5631	5597	5363	5381	5718	
90	5570	5374	5386	5323	5683	
95	5552	5445	5352	5451	5250	

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Frequency List (MHz)	o	1	2	3	4
0	5646	5277	5479	5321	5298
5	5622	5365	5596	5442	5665
10	5583	5451	5504	5426	5485
15	5430	5632	5669	5667	5383
20	5664	5494	5607	5348	5343
25	5325	5463	5300	5602	5283
30	5378	5693	5514	5656	5663
35	5579	5575	5552	5323	5475
40	5364	5529	5717	5309	5319
45	5487	5256	5405	5623	5675
50	5276	5480	5499	5395	5478
55	5597	5547	5724	5643	5565
60	5254	5455	5483	5715	5495
65	5673	5307	5464	5691	5255
70	5507	5380	5425	5453	5284
75	5454	5563	5457	5620	5523
80	5385	5428	5289	5381	5615
85	5351	5500	5680	5501	5573
90	5683	5524	5525	5512	5551
95	5329	5434	5554	5369	5506

Type 6 Radar Waveform_2

Frequency List (MHz)	o	1	2	3	4
0	5426	5516	5415	5482	5518
5	5664	5290	5671	5605	5397
10	5417	5715	5545	5621	5506
15	5662	5297	5712	5575	5672
20	5563	5645	5340	5316	5314
25	5652	5569	5404	5636	5325
30	5267	5650	5254	5430	5386
35	5718	5666	5348	5476	5389
40	5343	5447	5370	5385	5306
45	5626	5467	5339	5463	5479
50	5413	5454	5452	5531	5588
55	5693	5513	5551	5262	5446
60	5517	5694	5419	5497	5412
65	5638	5538	5622	5674	5486
70	5436	5579	5366	5525	5680
75	5260	5532	5577	5288	5504
80	5637	5567	5515	5643	5500
85	5522	5561	5298	5710	5716
90	5335	5654	5566	5315	5266
95	5677	5472	5418	5503	5485

Type 6 Radar Waveform_3

Frequency List (MHz)	o	1	2	3	4
0	5681	5280	5351	5643	5360
5	5706	5312	5271	5293	5604
10	5348	5601	5586	5341	5527
15	5606	5314	5400	5282	5292
20	5583	5254	5429	5289	5580
25	5504	5297	5508	5670	5367
30	5631	5607	5469	5582	5285
35	5619	5251	5657	5530	5308
40	5625	5555	5447	5422	5424
45	5532	5300	5330	5628	5677
50	5419	5269	5701	5505	5452
55	5265	5488	5584	5442	5719
60	5464	5484	5571	5379	5506
65	5378	5714	5273	5449	5528
70	5529	5711	5372	5404	5697
75	5334	5485	5414	5648	5326
80	5612	5630	5512	5363	5403
85	5461	5524	5385	5516	5546
90	5406	5688	5576	5675	5500
95	5616	5299	5639	5656	5575

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Frequency List (MHz)	o	1	2	3	4
0	5364	5519	5287	5329	5580
5	5273	5712	5346	5359	5433
10	5657	5390	5627	5536	5548
15	5597	5441	5503	5327	5581
20	5591	5323	5527	5421	5262
25	5468	5453	5500	5612	5704
30	5506	5617	5564	5587	5356
35	5501	5424	5373	5512	5404
40	5314	5496	5710	5721	5397
45	5387	5330	5505	5482	5585
50	5565	5681	5633	5388	5717
55	5317	5459	5642	5559	5477
60	5274	5551	5290	5430	5394
65	5520	5318	5716	5648	5517
70	5345	5435	5628	5378	5687
75	5331	5342	5466	5666	5661
80	5582	5301	5315	5509	5558
85	5306	5303	5584	5577	5384
90	5319	5253	5571	5444	5722
95	5458	5309	5574	5283	5537

Type 6 Radar Waveform_5

Frequency List (MHz)	o	1	2	3	4
0	5619	5283	5698	5490	5422
5	5412	5259	5421	5522	5640
10	5588	5654	5668	5634	5569
15	5685	5568	5509	5275	5298
20	5599	5489	5565	5510	5710
25	5305	5703	5338	5263	5548
30	5506	5521	5327	5508	5699
35	5563	5464	5308	5557	5432
40	5318	5659	5630	5394	5316
45	5310	5540	5541	5452	5505
50	5684	5477	5535	5413	5357
55	5378	5430	5439	5332	5383
60	5688	5473	5595	5469	5354
65	5320	5417	5631	5702	5663
70	5290	5342	5462	5620	5447
75	5443	5296	5363	5465	5278
80	5306	5547	5672	5349	5534
85	5567	5261	5450	5718	5321
90	5629	5364	5435	5517	5655
95	5664	5470	5362	5641	5409

Type 6 Radar Waveform_6

Frequency List (MHz)	o	1	2	3	4
0	5399	5522	5634	5651	5642
5	5454	5659	5496	5685	5372
10	5519	5443	5709	5354	5590
15	5298	5695	5612	5320	5490
20	5510	5558	5506	5502	5683
25	5622	5254	5431	5442	5297
30	5395	5478	5542	5282	5605
35	5652	5579	5332	5714	5271
40	5401	5597	5391	5720	5290
45	5671	5501	5594	5717	5336
50	5681	5260	5566	5363	5382
55	5693	5367	5547	5575	5304
60	5638	5604	5374	5690	5514
65	5419	5321	5418	5293	5283
70	5335	5598	5586	5407	5551
75	5724	5689	5485	5666	5428
80	5406	5619	5629	5441	5503
85	5570	5684	5559	5389	5692
90	5585	5340	5426	5456	5600
95	5430	5348	5409	5653	5465

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Frequency List (MHz)	o	1	2	3	4
0	5654	5286	5570	5337	5484
5	5496	5681	5571	5373	5676
10	5353	5707	5275	5549	5611
15	5386	5250	5715	5365	5682
20	5518	5724	5447	5591	5656
25	5413	5581	5537	5546	5331
30	5632	5381	5435	5282	5434
35	5717	5269	5268	5472	5485
40	5628	5585	5535	5538	5388
45	5552	5270	5279	5559	5647
50	5604	5687	5382	5311	5655
55	5564	5326	5406	5321	5262
60	5394	5292	5294	5319	5619
65	5340	5367	5329	5590	5605
70	5304	5658	5490	5259	5303
75	5683	5334	5506	5375	5419
80	5400	5696	5504	5403	5290
85	5587	5401	5657	5539	5588
90	5566	5462	5630	5482	5568
95	5264	5332	5328	5378	5512

Type 6 Radar Waveform_8

Frequency List (MHz)	o	1	2	3	4
0	5337	5525	5506	5401	5704
5	5538	5606	5646	5439	5408
10	5284	5593	5413	5269	5632
15	5377	5343	5410	5399	5526
20	5318	5388	5583	5629	5301
25	5433	5265	5650	5365	5296
30	5270	5392	5400	5683	5537
35	5359	5268	5638	5542	5424
40	5664	5473	5303	5482	5481
45	5250	5362	5617	5700	5394
50	5563	5558	5366	5387	5594
55	5275	5355	5688	5721	5421
60	5459	5264	5451	5263	5345
65	5316	5325	5497	5582	5352
70	5476	5262	5627	5494	5642
75	5530	5380	5487	5529	5656
80	5385	5485	5587	5340	5533
85	5676	5590	5289	5281	5565
90	5267	5551	5682	5319	5701
95	5260	5615	5375	5368	5350

Type 6 Radar Waveform_9

Frequency List (MHz)	0	1	2	3	4
0	5592	5289	5442	5562	5546
5	5677	5628	5721	5602	5615
10	5690	5382	5454	5464	5653
15	5465	5504	5446	5358	5591
20	5437	5484	5426	5672	5664
25	5468	5376	5399	5338	5256
30	5349	5360	5260	5547	5450
35	5539	5413	5553	5272	5314
40	5479	5313	5705	5445	5578
45	5278	5281	5439	5259	5455
50	5685	5307	5704	5545	5410
55	5692	5550	5624	5684	5283
60	5564	5354	5643	5265	5304
65	5632	5292	5385	5424	5462
70	5362	5476	5470	5601	5499
75	5370	5523	5404	5542	5549
80	5252	5397	5680	5490	5657
85	5593	5393	5544	5512	5487
90	5571	5660	5699	5374	5599
95	5714	5718	5670	5463	5387

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Frequency List (MHz)	o	1	2	3	4
0	5372	5528	5378	5723	5291
5	5719	5650	5321	5290	5444
10	5524	5646	5495	5562	5674
15	5553	5631	5452	5403	5308
20	5445	5367	5664	5575	5455
25	5709	5671	5480	5433	5380
30	5620	5306	5355	5609	5555
35	5589	5541	5335	5566	5467
40	5252	5686	5476	5717	5588
45	5636	5331	5546	5693	5435
50	5464	5544	5508	5536	5398
55	5658	5260	5704	5582	5314
60	5251	5590	5487	5300	5369
65	5689	5340	5659	5663	5593
70	5545	5365	5325	5446	5560
75	5371	5393	5569	5449	5656
80	5652	5713	5315	5394	5400
85	5499	5556	5488	5358	5498
90	5285	5307	5611	5577	5635
95	5409	5672	5716	5429	5381

Type 6 Radar Waveform_11

Frequency List (MHz)	o	1	2	3	4
0	5627	5292	5314	5409	5608
5	5286	5575	5396	5453	5651
10	5455	5435	5536	5282	5695
15	5641	5661	5555	5448	5597
20	5719	5308	5278	5548	5343
25	5658	5399	5584	5467	5519
30	5509	5263	5570	5375	5253
35	5254	5703	5381	5513	5535
40	5665	5451	5473	5646	5568
45	5611	5694	5287	5433	5569
50	5515	5633	5709	5383	5586
55	5612	5450	5523	5537	5711
60	5479	5671	5422	5313	5721
65	5667	5638	5279	5674	5454
70	5466	5531	5465	5552	5340
75	5712	5430	5336	5474	5305
80	5475	5391	5692	5393	5438
85	5616	5680	5323	5549	5533
90	5505	5301	5583	5572	5291
95	5306	5258	5484	5462	5395

Type 6 Radar Waveform_12

Frequency List (MHz)	o	1	2	3	4
0	5407	5531	5250	5570	5353
5	5328	5597	5471	5519	5383
10	5289	5699	5577	5477	5716
15	5632	5313	5658	5396	5314
20	5364	5410	5346	5270	5521
25	5609	5510	5505	5688	5501
30	5561	5495	5695	5535	5573
35	5392	5345	5499	5494	5352
40	5618	5603	5691	5470	5478
45	5548	5694	5655	5340	5698
50	5445	5690	5566	5344	5532
55	5327	5299	5640	5342	5508
60	5365	5644	5616	5351	5614
65	5393	5587	5315	5409	5724
70	5647	5359	5517	5468	5401
75	5301	5687	5633	5380	5411
80	5588	5300	5255	5469	5538
85	5388	5412	5296	5280	5579
90	5397	5666	5503	5306	5325
95	5466	5589	5606	5551	5415

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Frequency List (MHz)	0	1	2	3	4
0	5565	5295	5661	5256	5670
5	5467	5522	5546	5682	5590
10	5695	5585	5618	5672	5262
15	5720	5440	5286	5441	5506
20	5372	5479	5287	5359	5494
25	5497	5362	5708	5414	5535
30	5603	5384	5652	5428	5687
35	5393	5531	5436	5647	5306
40	5666	5701	5541	5564	5407
45	5528	5302	5713	5321	5391
50	5617	5433	5355	5649	5487
55	5423	5539	5334	5658	5537
60	5710	5594	5536	5351	5716
65	5616	5450	5431	5503	5568
70	5250	5277	5437	5656	5278
75	5426	5392	5365	5410	5511
80	5633	5601	5288	5607	5674
85	5597	5639	5492	5534	5554
90	5523	5631	5692	5640	5427
95	5389	5430	5655	5609	5271

Type 6 Radar Waveform_14

Frequency List (MHz)	0	1	2	3	4
0	5345	5534	5597	5417	5415
5	5509	5544	5621	5370	5419
10	5626	5374	5659	5392	5283
15	5333	5567	5389	5486	5698
20	5380	5645	5703	5351	5467
25	5288	5311	5436	5518	5569
30	5267	5273	5609	5643	5461
35	5591	5573	5527	5663	5325
40	5695	5602	5406	5479	5599
45	5561	5714	5508	5385	5296
50	5446	5375	5575	5668	5522
55	5653	5593	5675	5377	5545
60	5358	5353	5623	5499	5603
65	5490	5363	5656	5485	5290
70	5451	5411	5253	5503	5586
75	5571	5574	5299	5625	5398
80	5373	5617	5520	5292	5322
85	5664	5285	5327	5674	5536
90	5684	5343	5321	5577	5315
95	5649	5511	5661	5332	5269

Type 6 Radar Waveform_15

Frequency List (MHz)	o	1	2	3	4
0	5600	5395	5533	5578	5257
5	5551	5469	5696	5626	5460
10	5638	5700	5490	5304	5421
15	5694	5531	5415	5291	5714
20	5266	5440	5651	5639	5622
25	5603	5309	5259	5566	5383
30	5613	5411	5712	5618	5459
35	5575	5706	5441	5489	5417
40	5364	5558	5643	5488	5468
45	5499	5262	5451	5268	5719
50	5611	5379	5388	5331	5652
55	5324	5277	5664	5548	5322
60	5699	5434	5326	5283	5303
65	5672	5572	5574	5423	5704
70	5258	5497	5615	5354	5394
75	5389	5349	5282	5522	5577
80	5378	5662	5367	5559	5478
85	5541	5486	5645	5495	5297
90	5386	5530	5409	5323	5481
95	5648	5520	5265	5596	5683

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Frequency List (MHz)	o	1	2	3	4
0	5380	5634	5469	5642	5477
5	5593	5491	5296	5599	5358
10	5391	5427	5363	5685	5325
15	5412	5724	5498	5479	5607
20	5299	5405	5682	5432	5413
25	5539	5587	5367	5251	5637
30	5351	5623	5523	5501	5387
35	5609	5376	5709	5255	5253
40	5620	5280	5572	5355	5604
45	5555	5468	5551	5315	5552
50	5527	5327	5444	5295	5700
55	5677	5384	5576	5285	5353
60	5374	5309	5354	5493	5645
65	5441	5383	5362	5573	5334
70	5269	5558	5674	5650	5680
75	5692	5466	5541	5283	5335
80	5646	5643	5329	5553	5279
85	5339	5480	5317	5625	5496
90	5332	5513	5361	5651	5710
95	5548	5457	5657	5537	5284

Type 6 Radar Waveform_17

Frequency List (MHz)	o	1	2	3	4
0	5538	5398	5405	5328	5319
5	5257	5416	5371	5287	5662
10	5322	5691	5404	5346	5500
15	5376	5601	5524	5324	5307
20	5474	5623	5521	5386	5330
25	5439	5570	5452	5671	5490
30	5609	5480	5716	5539	5429
35	5418	5422	5526	5406	5534
40	5594	5655	5272	5552	5351
45	5634	5373	5508	5414	5581
50	5620	5411	5706	5667	5714
55	5543	5668	5644	5438	5519
60	5535	5558	5413	5591	5642
65	5332	5301	5325	5368	5515
70	5544	5677	5499	5559	5651
75	5338	5661	5329	5326	5278
80	5585	5717	5475	5276	5685
85	5688	5675	5564	5341	5582
90	5291	5554	5339	5560	5355
95	5633	5592	5548	5457	5358

Type 6 Radar Waveform_18

Frequency	_		_	_	
List (MHz)	0	1	2	3	4
0	5318	5637	5341	5489	5539
5	5299	5438	5446	5450	5394
10	5631	5577	5445	5600	5367
15	5588	5503	5704	5569	5516
20	5693	5640	5661	5513	5359
25	5291	5676	5556	5608	5532
30	5498	5437	5456	5313	5724
35	5557	5419	5656	5545	5530
40	5360	5609	5512	5646	5333
45	5331	5717	5334	5561	5679
50	5457	5321	5397	5500	5323
55	5650	5380	5668	5258	5487
60	5615	5567	5684	5480	5390
65	5336	5537	5465	5281	5337
70	5535	5260	5510	5627	5302
75	5348	5610	5307	5306	5472
80	5578	5366	5406	5635	5651
85	5254	5383	5476	5648	5308
90	5518	5272	5379	5506	5344
95	5519	5599	5400	5571	5544

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Type (6 Radar	Waveform _.	_19
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Frequency List (MHz)	o	1	2	3	4
0	5573	5401	5277	5650	5381
5	5341	5363	5424	5613	5601
10	5562	5366	5486	5320	5388
15	5676	5630	5332	5614	5330
20	5701	5709	5602	5484	5715
25	5404	5660	5642	5574	5387
30	5394	5671	5465	5447	5696
35	5604	5690	5334	5459	5369
40	5443	5547	5643	5640	5311
45	5325	5392	5566	5333	5497
50	5448	5589	5524	5568	5622
55	5306	5586	5374	5425	5697
60	5637	5580	5666	5705	5276
65	5367	5530	5596	5679	5305
70	5672	5511	5569	5654	5329
75	5518	5375	5355	5473	5698
80	5648	5449	5286	5415	5611
85	5500	5508	5520	5577	5350
90	5553	5481	5412	5588	5528
95	5723	5591	5323	5647	5307

Frequency List (MHz)	o	1	2	3	4
0	5353	5640	5688	5336	5601
5	5480	5385	5499	5679	5430
10	5493	5630	5527	5418	5409
15	5667	5282	5338	5562	5522
20	5709	5400	5543	5594	5305
25	5372	5567	5607	5289	5676
30	5616	5373	5351	5314	5714
35	5267	5360	5695	5486	5487
40	5683	5526	5485	5420	5569
45	5291	5408	5450	5356	5684
50	5673	5678	5347	5441	5281
55	5576	5638	5503	5557	5350
60	5539	5370	5529	5463	5392
65	5654	5312	5674	5422	5399
70	5276	5599	5405	5424	5528
75	5623	5449	5661	5414	5403
80	5637	5286	5645	5644	5257
85	5671	5692	5473	5523	5293
90	5397	5361	5490	5266	5521
95	5605	5504	5609	5621	5426

Type 6 Radar Waveform_21

Frequency List (MHz)	o	1	2	3	4
0	5608	5404	5624	5497	5443
5	5522	5310	5574	5367	5637
10	5327	5419	5568	5613	5430
15	5280	5312	5441	5607	5714
20	5620	5469	5484	5683	5278
25	5638	5516	5335	5393	5710
30	5262	5308	5529	5391	5465
35	5402	5311	5379	5640	5384
40	5609	5423	5660	5498	5271
45	5491	5411	5720	5718	5463
50	5374	5550	5389	5645	5288
55	5530	5353	5322	5431	5382
60	5704	5412	5458	5386	5472
65	5690	5603	5348	5409	5692
70	5677	5445	5585	5408	5273
75	5487	5495	5569	5329	5337
80	5524	5659	5326	5349	5642
85	5461	5664	5634	5341	5541
90	5595	5526	5362	5623	5630
95	5719	5559	5593	5519	5452

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Frequency List (MHz)	o	1	2	3	4
0	5291	5643	5657	5658	5663
5	5564	5332	5649	5530	5369
10	5258	5683	5609	5333	5451
15	5368	5439	5544	5652	5431
20	5628	5635	5522	5675	5251
25	5526	5538	5594	5269	5322
30	5626	5265	5640	5285	5541
35	5499	5650	5415	5298	5361
40	5314	5425	5634	5330	5574
45	5469	5508	5339	5550	5601
50	5478	5468	5707	5484	5446
55	5616	5402	5511	5394	5357
60	5290	5687	5515	5416	5552
65	5287	5716	5487	5383	5517
70	5668	5597	5464	5689	5375
75	5318	5539	5440	5490	5509
80	5639	5656	5567	5513	5694
85	5504	5306	5528	5691	5465
90	5558	5408	5642	5261	5614
95	5577	5417	5334	5632	5307

Type 6 Radar Waveform_23

Frequency List (MHz)	o	1	2	3	4
0	5546	5407	5593	5722	5505
5	5606	5257	5724	5693	5673
10	5567	5472	5650	5528	5456
15	5566	5647	5600	5623	5636
20	5326	5463	5289	5699	5414
25	5317	5644	5698	5303	5364
30	5612	5697	5484	5483	5680
35	5590	5446	5568	5687	5297
40	5397	5299	5665	5253	5259
45	5609	5657	5527	5254	5395
50	5690	5251	5652	5669	5554
55	5273	5438	5338	5373	5640
60	5559	5302	5597	5513	5461
65	5714	5501	5323	5451	5379
70	5661	5686	5654	5511	5318
75	5405	5433	5334	5518	5316
80	5696	5557	5572	5539	5376
85	5355	5599	5649	5482	5465
90	5613	5381	5471	5495	5290
95	5276	5278	5658	5315	5313

Type 6 Radar Waveform_24

Frequency List (MHz)	0	1	2	3	4
0	5326	5646	5529	5408	5250
5	5270	5279	5324	5381	5405
10	5498	5358	5313	5723	5493
15	5447	5693	5275	5645	5340
20	5547	5395	5404	5281	5672
25	5680	5644	5372	5327	5337
30	5503	5501	5654	5602	5566
35	5303	5722	5681	5339	5721
40	5698	5611	5480	5615	5333
45	5589	5265	5488	5307	5660
50	5427	5703	5656	5492	5461
55	5392	5351	5632	5344	5294
60	5724	5429	5436	5407	5440
65	5262	5283	5649	5464	5640
70	5514	5295	5364	5305	5357
75	5564	5280	5568	5282	5477
80	5635	5536	5571	5470	5717
85	5316	5614	5533	5713	5336
90	5546	5647	5288	5642	5688
95	5670	5266	5453	5278	5393

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Frequency List (MHz)	o	1	2	3	4
0	5581	5410	5465	5569	5567
5	5312	5679	5399	5447	5612
10	5429	5622	5354	5346	5514
15	5535	5345	5281	5690	5532
20	5555	5561	5442	5370	5645
25	5568	5496	5575	5431	5371
30	5545	5390	5611	5342	5718
35	5598	5386	5297	5610	5450
40	5660	5553	5573	5722	5495
45	5348	5546	5360	5547	5603
50	5279	5270	5315	5649	5724
55	5541	5451	5693	5423	5414
60	5289	5261	5262	5353	5263
65	5298	5493	5267	5355	5723
70	5614	5522	5323	5274	5477
75	5707	5392	5258	5698	5533
80	5388	5373	5680	5508	5482
85	5487	5486	5631	5711	5483
90	5466	5432	5397	5409	5304
95	5626	5683	5369	5523	5548

Type 6 Radar Waveform_26

Frequency List (MHz)	o	1	2	3	4
0	5264	5649	5401	5255	5312
5	5354	5701	5474	5610	5441
10	5263	5411	5395	5541	5535
15	5623	5375	5384	5260	5724
20	5563	5630	5383	5362	5715
25	5359	5445	5303	5632	5405
30	5587	5376	5568	5557	5492
35	5321	5525	5388	5406	5526
40	5289	5268	5491	5338	5719
45	5424	5549	5431	5604	5413
50	5337	5696	5304	5330	5456
55	5613	5678	5256	5270	5664
60	5552	5579	5709	5665	5660
65	5396	5464	5334	5325	5336
70	5545	5524	5617	5371	5721
75	5282	5621	5597	5278	5339
80	5514	5574	5530	5583	5373
85	5453	5265	5603	5447	5538
90	5259	5586	5500	5314	5506
95	5426	5581	5531	5472	5643

Type 6 Radar Waveform_27

Frequency List (MHz)	0	1	2	3	4
0	5519	5413	5337	5416	5629
5	5396	5626	5549	5298	5648
10	5669	5675	5436	5261	5556
15	5711	5502	5487	5683	5538
20	5474	5321	5324	5451	5688
25	5722	5297	5506	5439	5251
30	5265	5525	5644	5616	5664
35	5479	5677	5327	5537	5700
40	5351	5429	5578	5716	5256
45	5529	5514	5662	5466	5699
50	5572	5480	5381	5545	5339
55	5611	5550	5632	5446	5467
60	5635	5584	5269	5654	5497
65	5486	5342	5665	5394	5273
70	5535	5606	5348	5596	5695
75	5717	5697	5590	5421	5320
80	5277	5515	5295	5641	5527
85	5303	5276	5392	5703	5315
90	5492	5507	5649	5566	5592
95	5437	5574	5518	5443	5414

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Frequency List (MHz)	0	1	2	3	4
0	5299	5652	5273	5577	5374
5	5535	5648	5624	5461	5380
10	5600	5464	5477	5456	5702
15	5629	5590	5253	5255	5482
20	5390	5362	5443	5661	5513
25	5721	5612	5365	5473	5293
30	5251	5415	5418	5339	5706
35	5667	5570	5451	5539	5434
40	5367	5713	5660	5509	5597
45	5623	5519	5489	5448	5656
50	5432	5634	5637	5555	5263
55	5586	5636	5286	5606	5696
60	5329	5312	5288	5488	5343
65	5309	5498	5529	5290	5681
70	5720	5544	5673	5675	5462
75	5467	5301	5625	5551	5330
80	5524	5654	5709	5280	5543
85	5372	5256	5598	5471	5627
90	5460	5469	5377	5392	5678
95	5264	5261	5412	5258	5424

Type 6 Radar Waveform_29

Frequency List (MHz)	0	1	2	3	4	
0	5554	5416	5684	5263	5691	
5	5577	5573	5699	5527	5587	
10	5434	5350	5518	5651	5598	
15	5315	5281	5693	5298	5447	
20	5490	5556	5303	5532	5634	
25	5401	5340	5469	5507	5335	
30	5615	5439	5630	5667	5370	
35	5283	5366	5255	5365	5378	
40	5614	5305	5486	5332	5492	
45	5392	5680	5681	5475	5376	
50	5702	5357	5483	5723	5460	
55	5402	5451	5540	5254	5580	
60	5480	5367	5599	5641	5636	
65	5710	5331	5689	5292	5293	
70	5362	5289	5345	5296	5552	
75	5431	5385	5610	5282	5306	
80	5638	5494	5669	5424	5654	
85	5551	5251	5607	5623	5497	
90	5528	5421	5604	5408	5338	
95	5261	5477	5524	5659	5275	

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Product	AXE5400 Whole Home Mesh Wi-Fi 6E System	Test Site	SR2				
Test Engineer	Eric Lin	Test Date	2021/10/28				
Test Item	Radar Statistical Performance Check – Mesh Mode (802.11ax-HE160 – 5250MHz)						

		Rada	r Type 1-4 -	Radar Statis	tical Perform	ance		
Trial	Radar	Type 1	Radar	Type 2	Radar	Туре 3	Radar	Type 4
	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect
	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect
0	5268	1	5250	1	5259	0	5260	1
1	5321	1	5320	1	5253	1	5302	1
2	5293	1	5326	1	5330	0	5255	1
3	5305	1	5311	1	5317	1	5278	1
4	5322	1	5298	1	5303	1	5280	1
5	5261	1	5293	0	5268	1	5304	0
6	5267	1	5255	1	5277	1	5267	1
7	5293	1	5286	1	5300	1	5271	0
8	5250	1	5259	1	5293	1	5305	1
9	5252	1	5274	1	5281	1	5274	1
10	5266	1	5274	1	5256	1	5329	1
11	5288	1	5284	1	5320	1	5317	1
12	5314	1	5299	1	5261	1	5324	1
13	5262	1	5256	1	5311	1	5250	1
14	5317	0	5295	1	5255	1	5299	1
15	5286	0	5319	1	5296	1	5323	1
16	5304	1	5307	0	5257	1	5262	0
17	5330	1	5330	1	5257	1	5286	0
18	5253	1	5290	1	5250	1	5296	0
19	5326	1	5260	1	5313	1	5311	1
20	5321	0	5281	0	5289	1	5306	0
21	5272	1	5305	1	5282	1	5258	1
22	5323	1	5319	0	5265	1	5279	1
23	5257	0	5252	1	5291	1	5321	0
24	5317	1	5282	1	5251	0	5328	1
25	5299	1	5276	0	5316	1	5282	1

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Trial	Radar	Type 1	Radar	Type 2	Radar	Туре 3	Radar Type 4		
	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	
	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect	
26	5305	1	5325	1	5286	1	5276	1	
27	5276	1	5325	1	5257	1	5309	1	
28	5275	0	5262	0	5295	1	5330	0	
29	5261	0	5304	1	5263	1	5318	0	
Probability:	80	80% 80%)%	70	70%	
Aggregate:				80	1%				

	Rada	ar Type 1	- Radar V	Vaveform		Rada	ar Type 2	- Radar V	Vaveform
Trial #	Number of Pulses per Burst	Pulse Width (µ sec)	PRI (μs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µ sec)	PRI (μs)	Detection (yes/no)
1	57	1	938		1	27	1.9	220	
2	68	1	778		2	24	4.3	216	
3	70	1	758		3	24	2.6	220	
4	61	1	878		4	26	2.1	208	
5	83	1	638		5	27	2.2	206	
6	59	1	898		6	27	1.2	205	
7	89	1	598		7	28	2.8	176	
8	62	1	858		8	25	3.9	208	
9	76	1	698		9	24	2.5	200	
10	72	1	738		10	27	3.8	211	
11	86	1	618		11	28	1.7	154	
12	81	1	658		12	26	1.7	188	
13	74	1	718		13	28	3.6	224	
14	67	1	798		14	28	3.5	224	
15	78	1	678		15	26	4.8	179	
16	19	1	2896		16	23	3.5	161	
17	19	1	2906		17	26	2.6	191	
18	19	1	2821		18	27	2.3	178	
19	33	1	1613		19	28	1.2	224	
20	22	1	2416		20	28	1.5	167	
21	21	1	2620		21	24	3.8	215	
22	41	1	1301		22	26	3.3	159	
23	46	1	1170		23	28	1.9	204	
24	55	1	964		24	27	4.6	179	
25	33	1	1600		25	27	2.5	186	
26	19	1	2879		26	28	1	227	
27	21	1	2560		27	28	2.7	160	
28	54	1	990		28	26	4.7	194	
29	29	1	1829		29	27	1.4	176	
30	19	1	2797		30	23	1.4	177	

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	Rada	ar Type 3	- Radar V	Vaveform		Radar Type 4 - Radar Waveform				
Trial #	Number of Pulses per Burst	Pulse Width (µ sec)	PRI (μs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µ sec)	PRI (µs)	Detection (yes/no)	
1	16	7.9	419		1	13	15	356	***************************************	
2	16	6.9	214		2	13	14.8	317		
3	16	9.5	264		3	14	19.7	264		
4	17	8	277		4	13	17.6	431		
5	18	9.3	347		5	13	14.2	316		
6	16	8.8	443		6	12	17.1	361		
7	18	7.5	428		7	16	11.6	238		
8	17	6.1	341		8	13	14.1	252		
9	17	6.5	445		9	13	13.6	213		
10	17	7.7	382		10	15	18.6	225		
11	17	9.7	218		11	16	13.9	493		
12	17	9.7	422		12	13	17.8	299		
13	17	7.6	262		13	15	15.1	393		
14	18	6.9	378		14	15	16.3	222		
15	18	6.9	439		15	15	12.3	313		
16	17	6.1	262		16	16	16.9	379		
17	18	7.9	483		17	13	15.3	237		
18	17	7.4	373		18	15	15.3	364		
19	17	7.1	458		19	13	12.9	363		
20	18	9.4	410		20	13	14	208		
21	17	9.4	274		21	14	18.4	239		
22	18	9.4	421		22	13	17.2	225		
23	16	10	247		23	15	19.6	388		
24	17	7	203		24	16	17.5	277		
25	16	8.1	301		25	13	16.2	480		
26	18	6.5	267		26	14	15	451		
27	18	8.1	344		27	13	15.6	465		
28	16	6.7	273		28	16	13.1	455		
29	17	7.3	226		29	14	19.8	465		
30	16	8	259		30	13	11.8	438		

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Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
0	5250	1	15	5256.8	1
0		ı			I
1	5250	1	16	5254.8	1
2	5250	1	17	5256.4	1
3	5250	1	18	5252.4	1
4	5250	1	19	5252.8	1
5	5250	1	20	5326.4	0
6	5250	1	21	5323.6	1
7	5250	1	22	5323.6	1
8	5250	1	23	5323.2	1
9	5250	1	24	5323.2	1
10	5252.4	1	25	5326.4	0
11	5255.6	1	26	5327.2	0
12	5254.8	1	27	5323.6	1
13	5257.6	1	28	5322.8	1
14	5254	1	29	5323.2	1
	Det	ection Percentage	(%)		90%

Type 5 Radar Waveform_0										
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	77.1	11	1636		658.782				
2	3	97.8	11	1936	1658	616.683				
3	2	75.2	11	1748		866.126				
4	1	61	11			66.359				
5	2	83.5	11	1356		191.632				
6	3	98.7	11	1369	1438	268.805				
7	2	92.9	11	1244		294.228				
8	2	90.9	11	1863		176.772				
9	3	70.1	11	1468	1988	111.025				
10	2	57	11	1659		442.568				
11	1	84.8	11			355.341				
12	2	72.3	11	1408		85.754				
13	2	73.7	11	1389		292.577				

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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	71.7	20			452.003
2	1	54.5	20			492.53
3	2	61.2	20	1505		731.76
4	1	70.4	20			320.1
5	3	67.6	20	1253	1702	521.83
6	1	90.5	20			723.93
7	2	74	20	1980		174.87
8	3	81.6	20	1503	1340	196.29
9	3	62.7	20	1067	1921	607.93
10	2	60.2	20	1782		82.19
11	2	92.8	20	1748		142.5
12	3	58.4	20	1103	1201	724.5

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	1	62	13			379.882
2	1	72.8	13			579.631
3	2	62.2	13	1933		6.802
4	2	89.7	13	1700		573.343
5	2	53.7	13	1503		243.254
6	1	51.7	13			613.545
7	2	52.9	13	1309		539.216
8	2	82.5	13	1178		549.547
9	1	75.1	13			575.428
10	2	91.3	13	1402		266.339
11	2	78.7	13	1699		570.951
12	2	86.6	13	1416		590.212
13	2	79.7	13	1766		368.583
14	2	59.9	13	1829		127.504
15	2	73.1	13	1394		153.015
16	3	70.2	13	1813	1965	549.816
17	2	61.3	13	1387		619.937
18	2	76.2	13	1686		269.258
19	2	70.8	13	1792		350.479

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	71.3	7	1999	1033	614.537
2	1	87.7	7			98.581
3	2	53.9	7	1082		552.83
4	2	94.7	7	1814		402.44
5	2	54.1	7	1035		373.7
6	1	76.6	7			325.73
7	1	55.2	7			261.08
8	3	73.4	7	1091	1823	432.02
9	1	95.2	7			135.04
10	1	79.3	7			525.82
11	1	53	7			680.55
12	1	55.8	7			372.88
13	1	71.7	7			393.4
14	3	77.7	7	1673	1376	100.8
15	2	50.8	7	1996		541.4
16	1	87.7	7			33.7

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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	79.8	13	1808		203.82
2	2	98.8	13	1756		95.76
3	2	62.2	13	1425		1176.24
4	2	50.9	13	1868		689.02
5	2	97.1	13	1819		840.64
6	1	67.5	13			222.2
7	2	75.6	13	1137		216.76
8	2	91	13	1809		1085.31
9	3	81.6	13	1830	1188	505.2
10	1	65.4	13			1073.9

Type 5 Radar Waveform_5

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	53.2	10	1949		651.767
2	2	61.5	10	1451		318.901
3	2	56.8	10	1322		75.607
4	3	58.8	10	1728	1888	423.37
5	1	53.1	10			184.673
6	1	70	10			93.867
7	2	76.3	10	1025		34.78
8	2	73.1	10	1377		160.643
9	3	63.8	10	1858	1439	225.807
10	3	96.7	10	1714	1815	549.28
11	2	99.5	10	1748		138.903
12	1	98.1	10			52.147
13	2	80	10	1897		197.15
14	3	50.5	10	1464	1509	476.563
15	2	91.5	10	1661		412.537
16	2	83.3	10	1359		35.7
17	2	99.3	10	1540		5.633
18	3	74.2	10	1195	1814	612.567

Type 5 Radar Waveform_6

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	94.4	18	1593	1644	459.641
2	2	79.5	18	1645		184.497
3	1	57.7	18			615.503
4	2	80.8	18	1996		18.74
5	3	89.9	18	1392	1208	451.567
6	2	93.1	18	1129		408.003
7	2	84.5	18	1554		901.4
8	2	91.7	18	1284		141.427
9	2	56.5	18	1458		855.833

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Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µ sec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	93.4	10			66.522
2	3	78.6	10	1134	1820	632.4
3	2	69.6	10	1898		631.65
4	1	55.1	10			285.71
5	1	67.4	10			769.8
6	2	99.1	10	1469		471.56
7	2	90.8	10	1120		335.18
8	3	81.9	10	1764	1132	6.68
9	3	56.6	10	1539	1566	252.75
10	2	82.9	10	1748		225.72
11	2	52.9	10	1171		772.6
12	2	83.3	10	1795		407.75
13	1	60.8	10			774
14	2	96.2	10	1088		331.7
15	1	92.3	10			460

Type 5 Radar Waveform_8

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	66.3	18	1163		519.856
2	1	61.9	18			442.28
3	2	97.4	18	1968		252.79
4	1	91.7	18			569.34
5	3	66	18	1438	1188	66.19
6	1	53.5	18			69.2
7	3	75.6	18	1656	1874	207.48
8	1	70.9	18			423.94
9	2	93	18	1431		610.77
10	2	61.4	18	1327		429.46
11	2	79.2	18	1708		380.14
12	3	60.4	18	1400	1468	84.77
13	1	58.2	18			536.6
14	3	53.3	18	1797	1585	38.28
15	2	56.3	18	1988		87.6
16	3	61.5	18	1548	1271	170.3

Type 5 Radar Waveform_9

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	94.1	18	1820		211.955
2	1	74.5	18			210.267
3	3	73.5	18	1255	1853	472.624
4	2	94.4	18	1564		16.341
5	2	71.6	18	1457		54.429
6	1	55.7	18			205.366
7	1	77.8	18			197.723
8	2	87.1	18	1610		640.74
9	3	55.7	18	1122	1082	406.807
10	1	55.1	18			323.554
11	3	77.4	18	1746	1348	837.881
12	1	83.3	18			100.339
13	2	77.2	18	1242		712.786
14	1	97.2	18			153.743

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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	74.7	6	1154	1817	531.537
2	2	75	6	1966		955.82
3	3	90.4	6	1075	1114	649.28
4	3	68	6	1019	1287	73.03
5	2	91.7	6	1810		536.17
6	2	77	6	1294		47.99
7	2	94.2	6	1464		27.35
8	2	99.1	6	1649		910.92
9	3	77.4	6	1542	1962	23.27
10	2	79.4	6	1445		770.08
11	2	51.8	6	1986		188.2
12	3	70.5	6	1096	1061	145.4

Type 5 Radar Waveform_11

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	61.8	14			217.521
2	1	69.4	14			609.221
3	1	78.3	14			8.322
4	1	76.3	14			230.253
5	3	78.3	14	1077	1977	208.104
6	2	86.3	14	1074		58.635
7	1	74.4	14			599.666
8	2	90.8	14	1550		455.857
9	1	92.4	14			239.498
10	3	86.4	14	1721	1762	205.539
11	3	78.9	14	1019	1559	596.451
12	2	64.9	14	1022		334.252
13	1	65.4	14			118.263
14	3	91.8	14	1417	1555	33.594
15	2	54.3	14	1514		573.135
16	1	96	14			501.916
17	2	56.7	14	1687		449.537
18	1	97.5	14			165.458
19	3	72.2	14	1034	1489	193.579

Type 5 Radar Waveform_12

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	98.3	12	1986		876.779
2	3	97.7	12	1311	1779	1301.727
3	2	66.1	12	1183		504.473
4	2	80.8	12	1139		489.6
5	3	92.6	12	1294	1601	168.457
6	3	90.3	12	1687	1156	946.603
7	2	61.6	12	1546		442.4
8	1	62.1	12			929.267
9	2	82.7	12	1755		1143.233

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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	63.2	19			236.198
2	2	99.1	19	1722		737.02
3	2	57.2	19	1803		145.98
4	2	75.4	19	1148		383.32
5	3	56.2	19	1403	1084	542.71
6	1	70.4	19			314.93
7	3	67.7	19	1412	1715	45.08
8	3	83.7	19	1380	1881	404.23
9	2	55.3	19	1551		437.01
10	3	55.9	19	1200	1960	214.67
11	2	60.2	19	1518		493.39
12	3	80.9	19	1976	1520	266.5
13	3	62.9	19	1835	1775	688.4
14	3	93	19	1350	1448	565.8
15	1	78.5	19			76.8

Type 5 Radar Waveform_14

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	92.8	10	1350	1162	269.943
2	3	85.1	10	1335	1410	281.76
3	1	93.1	10			125.71
4	2	54.5	10	1512		634.17
5	3	70.2	10	1023	1374	538.29
6	2	84.1	10	1412		367.25
7	1	74.8	10			139.48
8	2	69.3	10	1742		755.23
9	2	83.9	10	1771		718.29
10	1	81	10			576.5
11	2	82.3	10	1410		373.89
12	2	57.9	10	1894		146.11
13	2	60.7	10	1960		693.8
14	2	70.5	10	1825		594.9
15	2	51.3	10	1206		227.9

Type 5 Radar Waveform_15

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	64.9	17	1451		437.607
2	1	78.9	17			445.701
3	1	58.2	17			85.022
4	1	90.3	17			400.673
5	1	58.5	17			19.094
6	2	61.3	17	1721		430.115
7	2	86.6	17	1615		389.195
8	2	64.9	17	1998		110.896
9	1	84.6	17			822.197
10	1	64.5	17			488.218
11	2	60.5	17	1682		178.309

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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	88.7	12			340.46
2	2	58.1	12	1021		96.735
3	2	76.9	12	1819		321.394
4	2	72.5	12	1865		790.761
5	3	93.8	12	1593	1346	627.539
6	2	75.2	12	1715		549.966
7	1	98.6	12			139.153
8	2	62.4	12	1325		205.74
9	2	52.4	12	1444		832.737
10	2	55.9	12	1931		92.994
11	3	61.2	12	1620	1795	561.511
12	2	73	12	1480		486.839
13	1	56.1	12			71.686
14	1	76.2	12			119.743

Type 5 Radar Waveform_17

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	68.4	16	1573		329.646
2	3	68.1	16	1677	1730	647.917
3	1	64.6	16			377.134
4	3	94.7	16	1024	1838	394.551
5	1	68.8	16			513.309
6	2	82.5	16	1722		771.986
7	3	60.6	16	1765	1206	402.093
8	3	86.9	16	1533	1241	757.63
9	2	84.9	16	1046		400.987
10	2	90.7	16	1555		741.884
11	3	82.7	16	1878	1713	296.891
12	2	79.3	16	1454		698.529
13	2	69.8	16	1172		597.186
14	1	61	16			335.443

Type 5 Radar Waveform_18

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	86.9	6	1103		407.644
2	3	99.9	6	1829	1534	532.9
3	2	99.4	6	1024		692.46
4	3	75.5	6	1090	1841	747.86
5	2	71.6	6	1200		663.16
6	3	92.7	6	1396	1932	829.08
7	1	88.8	6			1092.68
8	2	64.6	6	1622		226.5
9	2	84.6	6	1836		725.3
10	2	63.3	6	1980		658.3

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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	64.8	7	1709	1526	127.221
2	2	53.8	7	1229		249.181
3	1	68.4	7			65.182
4	2	76.9	7	1150		451.273
5	1	86.8	7			94.354
6	1	51.2	7			103.235
7	2	71	7	1613		86.636
8	1	71.6	7			0.937
9	2	86.7	7	1589		270.548
10	1	73.8	7			240.569
11	3	52.7	7	1057	1271	557.271
12	2	98.3	7	1050		333.622
13	2	92.8	7	1193		583.803
14	3	51.4	7	1572	1032	366.324
15	2	99	7	1320		572.195
16	1	81.7	7			444.566
17	2	52.7	7	1191		91.937
18	2	87.1	7	1581		180.658
19	2	90.3	7	1608		567.279

Type 5 Radar Waveform_20

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	56.5	9	1258		88.963
2	1	51	9			85.86
3	2	79.6	9	1383		848.49
4	3	85.2	9	1935	1649	660.86
5	1	95.8	9			971.39
6	2	65.6	9	1556		787.56
7	2	66.7	9	1293		749.18
8	1	56.9	9			214.85
9	2	54.3	9	1082		1066.1
10	2	89.2	9	1750		140.2

Type 5 Radar Waveform_21

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	53.2	16	1020	1864	156.533
2	2	77.3	16	1176		1243.807
3	2	75.2	16	1505		666.693
4	2	97.4	16	1260		31.21
5	2	64.2	16	1779		402.907
6	2	88.3	16	1951		124.033
7	3	96.4	16	1016	1305	905.45
8	1	72.4	16			1057.067
9	3	54.5	16	1040	1239	86.333

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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	72.5	16			1002.99
2	1	69.5	16			668.31
3	2	94.7	16	1724		755.45
4	2	52.1	16	1880		632.57
5	3	94.9	16	1550	1547	716.87
6	1	57.4	16			686.34
7	1	65.9	16			318.97
8	3	61.7	16	1591	1875	306.55
9	1	55.6	16			869.3
10	2	70.3	16	1106		369.1

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	57.9	17	1508		1090.93
2	1	53.5	17			1002.88
3	2	58.9	17	1157		301.08
4	1	87.6	17			1456.05
5	2	74.4	17	1477		500.89
6	3	62.9	17	1318	1201	131.22
7	2	55.5	17	1725		923.67
8	2	93.6	17	1642		891.2

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	2	73.6	17	1041		25.74
2	2	84.8	17	1244		367.163
3	2	70.2	17	1457		185.137
4	2	53.8	17	1172		373.1
5	3	51.8	17	1986	1977	117.783
6	3	52.1	17	1235	1928	310.537
7	3	80.6	17	1726	1303	113.99
8	2	55.2	17	1275		328.593
9	3	87.9	17	1175	1987	471.957
10	2	60.8	17	1433		223.56
11	2	80	17	1416		270.953
12	3	73.6	17	1796	1469	11.207
13	2	75.4	17	1806		185.55
14	3	89.5	17	1924	1099	469.373
15	2	96.6	17	1590		431.497
16	2	50.6	17	1315		474
17	1	82.1	17			281.633
18	2	70.5	17	1568		572.667

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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	72.5	9	1609	1583	734.58
2	3	95.7	9	1174	1584	558.87
3	2	80.4	9	1517		305.88
4	2	87.1	9	1592		92.98
5	3	70.9	9	1218	1730	782.87
6	2	98.6	9	1050		474
7	2	61.1	9	1189		485.82
8	2	91.3	9	1454		218.06
9	2	93.5	9	1368		152.51
10	2	61.7	9	1478		686.18
11	2	51.3	9	1969		584.1
12	2	53.9	9	1393		385.42
13	2	64.9	9	1888		695.5
14	3	74	9	1666	1492	446.7
15	3	54.2	9	1938	1970	324.1

Type 5 Radar Waveform_26

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	76.9	7	1188	1864	386.073
2	2	55.5	7	1560		613.591
3	1	54.6	7			350.842
4	2	81.8	7	1015		59.533
5	1	95.7	7			413.394
6	2	64	7	1239		305.635
7	2	70.1	7	1720		414.886
8	3	70.6	7	1064	1372	72.187
9	2	90.5	7	1774		493.628
10	3	59.1	7	1627	1156	439.919
11	2	77.5	7	1871		106.511
12	1	83.6	7			159.182
13	2	92	7	1564		415.903
14	2	83.2	7	1551		610.354
15	3	52.2	7	1742	1131	409.735
16	2	82	7	1533		395.416
17	2	89.8	7	1690		58.637
18	1	77.5	7			120.558
19	3	51.9	7	1221	1754	29.979

Type 5 Radar Waveform_27

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	77.1	16	1041	1348	29.298
2	1	51.1	16			24.768
3	3	50.6	16	1035	1444	290.917
4	3	75.9	16	1024	1978	53.47
5	2	85.4	16	1093		301.083
6	2	53.5	16	1660		441.927
7	1	71.6	16			287.2
8	2	73	16	1389		355.543
9	2	78.5	16	1985		1.157
10	2	77.4	16	1977		414.56
11	1	87	16			544.073
12	2	75.1	16	1592		11.097
13	3	96.6	16	1131	1408	49.25
14	2	60.9	16	1461		96.663
15	2	80.6	16	1509		127.307
16	2	65.6	16	1586		307.2
17	2	88	16	1316		644.633
18	2	83.2	16	1145		145.367

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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	54.3	18			41.829
2	2	72	18	1478		341.159
3	2	85.4	18	1849		220.322
4	3	88.2	18	1366	1099	505.103
5	2	86.2	18	1470		131.844
6	1	64.5	18			116.635
7	2	72.2	18	1396		533.176
8	1	50.5	18			320.567
9	2	77.9	18	1028		320.698
10	1	75.5	18			51.619
11	3	94.3	18	1222	1168	400.581
12	2	59.9	18	1857		286.182
13	3	64.5	18	1162	1550	161.803
14	2	50.5	18	1126		469.754
15	1	67.3	18			437.325
16	2	54.3	18	1316		415.066
17	1	66.2	18			411.237
18	2	87.5	18	1527		129.958
19	2	96.6	18	2000		319.979

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	1	91.6	17			47.284
2	3	83.3	17	1383	1921	910.123
3	3	99.1	17	1088	1139	340.626
4	3	85.7	17	1378	1932	810.909
5	1	72.7	17			793.742
6	2	79.1	17	1602		673.185
7	1	82.3	17			727.838
8	3	88.9	17	1542	1901	668.172
9	3	62.3	17	1134	1053	157.605
10	3	78.7	17	1254	1022	169.258
11	3	74.8	17	1121	1708	241.531
12	1	79.5	17			517.154
13	3	53.1	17	1475	1750	752.977

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Radar Type 6 - Radar Statistical Performance

Trail #	1=Detection	Trail #	1=Detection
	0=No Detection		0=No Detection
0	1	15	0
1	1	16	1
2	0	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	0	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	0
12	1	27	1
13	0	28	1
14	1	29	1
Detection Pe	rcentage (%)	83.	3%

F	Radar waveform #	0	Radar waveform #1		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5259	18	25	5257	75
40	5250	120	71	5254	213
			72	5251	216

F	Radar waveform #2			Radar waveform #3			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
			40	5257	120		
			69	5255	207		
			77	5259	231		
			87	5258	261		
			88	5253	264		
			91	5254	273		

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F	Radar waveform #4			Radar waveform #5		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)	
11	5254	33	46	5254	138	
			82	5252	246	

Radar waveform #6			Radar waveform #7		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
49	5254	147	18	5254	54
			55	5256	165
			57	5255	171
			73	5251	219

F	Radar waveform #8			Radar waveform #9		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
38	5255	114	38	5258	114	
45	5254	135				
62	5258	186				

Radar waveform #10		Radar waveform #11			
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Frequency (MHz)	Hopping Number	Pulse Start (ms)
19	5259	57	19	5253	57
			97	5259	291

Radar waveform #12			Radar waveform #13		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
45	5256	135	13	5253	39
73	5260	219	18	5256	54
82	5257	246	33	5251	99
93	5253	279	48	5255	144

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Radar waveform #14			Radar waveform #15		
Hopping	Frequency	Frequency Pulse Start (ms)		Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
25	5259	75	50	5256	150
43	5251	129	53	5252	159
65	5255	195	68	5257	204
70	5254	210			

Radar waveform #16			Radar waveform #17		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	Puise Start (IIIs)
14	5256	42	12	5251	36
22	5260	66	18	5259	54
78	5252	234	30	5252	90
			49	5254	147

Radar waveform #18			R	adar waveform #1	9
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
98	5260	294	16	5254	48

Radar waveform #20			Radar waveform #21		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
24	5260	72	30	5260	90
38	5259	114	72	5254	216
96	5251	288	86	5251	258

Radar waveform #22			Radar waveform #23		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
66	5254	198	59	5250	177
			92	5253	276

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R	Radar waveform #24			Radar waveform #25		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
8	5250	24	52	5258	156	
12	5257	36	94	5254	282	
28	5252	84	1	-		
41	5251	123				
58	5254	174	-	-1		
86	5250	258				
100	5256	300				

Radar waveform #26			Radar waveform #27		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
97	5252	291	35	5251	105
			60	5254	180
			68	5255	204
			88	5260	264

Radar waveform #28			R	adar waveform #2	29
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5251	21	61	5258	183
74	5255	222	74	5255	222

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6. CONCLUSION

The data collec	cted relate only	the item(s) teste	d and show that	the device is in con	npliance with FCC
Rules.					

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——— The End



Appendix A - Test Setup Photograph

Refer to "2109TW0010-Setup Photo" file.

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Appendix B - External Photograph

Refer to "2109TW0010-External Photo" file.

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Appendix C - Internal Photograph

Refer to "2109TW0010-Internal Photo" file.

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