



DFS MEASUREMENT REPORT

FCC 15.407 WLAN 802.11a/n/ac

FCC ID: P27OT221

Applicant: Sercomm Corporation

Application Type: C3PC Certification

Product: Dual Band ONT

Model No.: AOT-4221SR

Brand Name: Airtel

FCC Classification: Unlicensed National Information Infrastructure (NII)

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

Test Date: January 25 ~ 29, 2021

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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 (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2101RSU065-U2	Rev. 01	Initial Report	03-29-2021	Valid

Note: Adding band U-NII-2A and U-NII-2C, requests a Class III Permissive Change for its application with FCC ID: P27OT221 granted on 10-26-2020 and 12-07-2020.

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2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Dual Band ONT
Model No.	AOT-4221SR
Brand Name	Airtel
Wi-Fi Specification	802.11a/b/g/n/ac
EUT Identification No.	20210126Sample#01 (Conducted)
Hardware Version	8.0
Software Version	AOT4221SR_R1.9

2.2. Product Specification Subjective to this Report

Frequency Range	For 802.11a/n-HT20/ac-VHT20: 5260~5320MHz, 5500~5720MHz For 802.11n-HT40/ac-VHT40: 5270~5310MHz, 5510~5710MHz For 802.11ac-VHT80: 5290MHz, 5530MHz, 5610MHz, 5690MHz
Type of Modulation	802.11a/n/ac: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.6Mbps
Power-on cycle	Requires 188.0 seconds to complete its power-on cycle
Uniform Spreading (For DFS Frequency Band)	For the 5250-5350MHz, 5470-5725 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 report will be issued separately.

2.3. DFS Band Working Frequencies

802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz
144	5720 MHz	--	--	--	--

802.11n-HT40/ ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	--	--

802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	--	--	--	--

2.4. Description of Available Antennas

Antenna Type	Frequency Band (MHz)	T _x Paths	Max Antenna Gain (dBi)	Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
					For Power	For PSD
PIFA Antenna	2412 ~ 2462	2	3.50	6.51	3.50	6.51
	5150 ~ 5850	2	3.30	6.31	3.30	6.31

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11a/b/g/n/ac mode and beamforming technology for 802.11n/ac.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode and beamforming mode, and CDD and beamforming signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 Array Gain = $10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01$;
- For power measurements on IEEE 802.11 devices,

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

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Note 3: The antenna gain is declared by manufacture.

2.5. Test Mode

Test Mode	Mode 1: Make the EUT communicate with notebook at DFS channel
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2.6. Test Environment Condition

Ambient Temperature	15°C~35°C
Relative Humidity	20%RH ~75%RH

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 Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

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

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

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

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

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

3.2. DFS Devices Requirements

Per FCC KDB 905462 D02 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 subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

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

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

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

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

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

Table 3-3: DFS Response Requirements

3.3. DFS Detection Threshold Values

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

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

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

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

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

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

3.4. Parameters of DFS Test Signals

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms

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

Table 3-5: Parameters for Short Pulse Radar Waveforms

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

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

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

Long Pulse Radar Test Waveform

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

Table 3-7: Parameters for Long Pulse Radar Waveforms

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

Frequency Hopping Radar Test Waveform

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

Table 3-8: Parameters for Frequency Hopping Radar Waveforms

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

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

3.5. Conducted Test Setup

The FCC KDB 905462 D02 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.

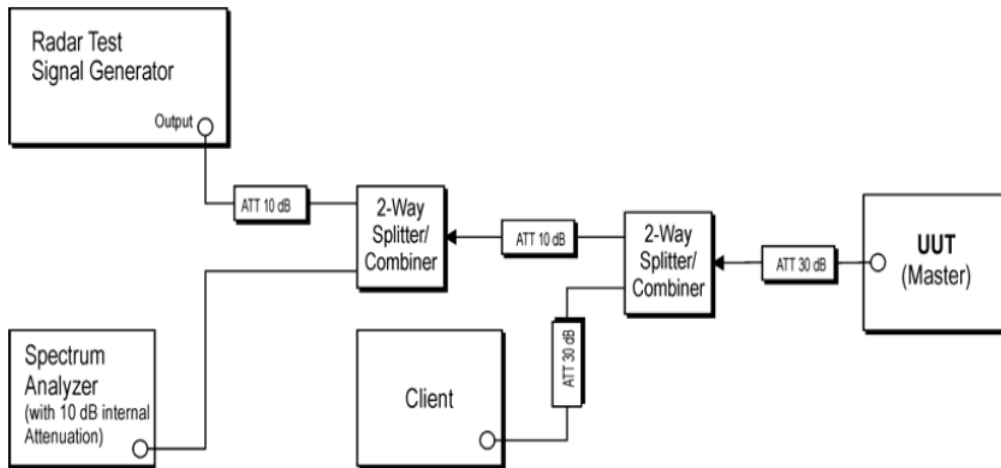


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters

4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS) (SIP-TR2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTSUE06457	1 year	2021/07/02
ESG Vector Signal Generator	Agilent	E4438C	MRTSUE06026	1 year	2021/10/22
Vector Signal Generator	R&S	SMBV100A	MRTSUE06279	1 year	2021/04/14
Thermohygrometer	Testo	608-H1	MRTSUE06402	1 year	2021/07/26

Client Information

Instrument	Manufacturer	Type No.
Wireless Network Adapter	Intel	7260HMW

Software	Version	Manufacturer	Function
Pulse Building	N/A	Agilent	Radar Signal Generation Software
DFS Tool	V 6.9.2	Agilent	DFS Test Software
R&S Pulse Sequencer DFS	V 2.0	R&S	DFS Test Software

5. TEST RESULT

5.1. Summary

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

5.2. Radar Waveform Calibration

5.2.1. Calibration Setup

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

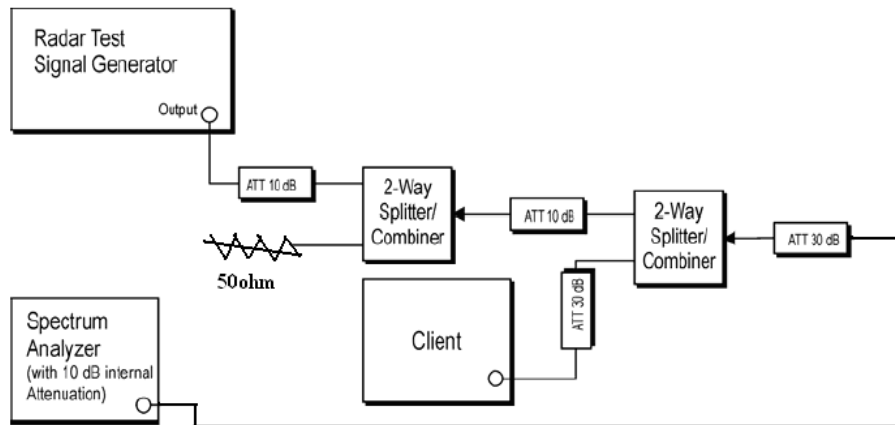


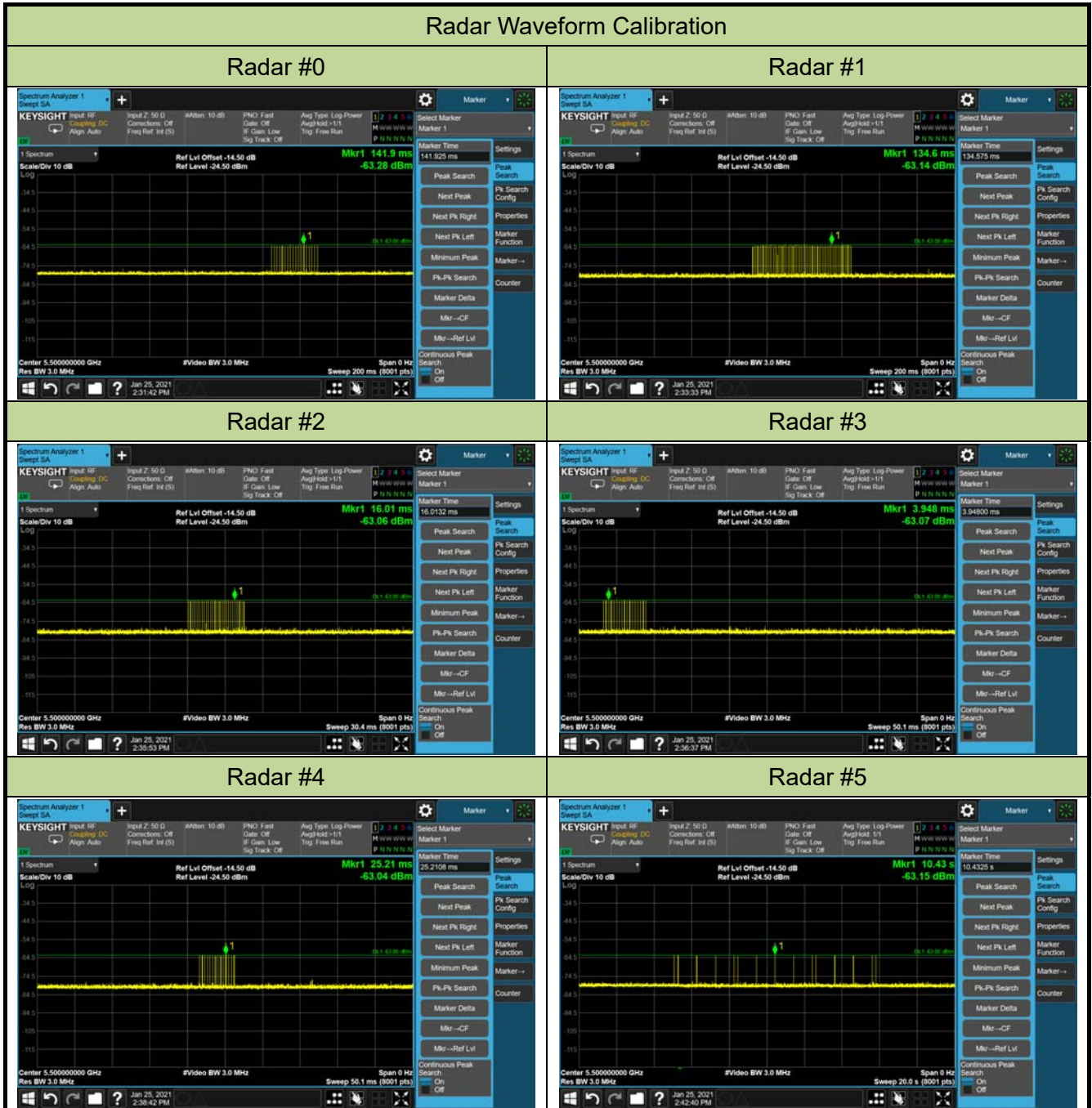
Figure 3-2: Conducted Test Setup

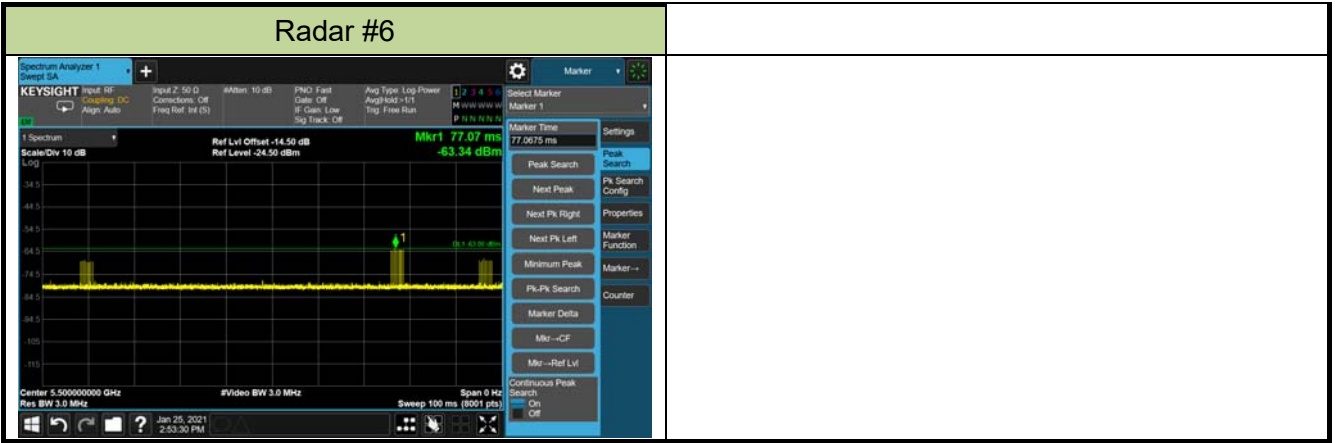
5.2.2. Calibration Procedure

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

5.2.3. Cablibration Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/25	Test Item	Radar Waveform Calibration





5.2.4. Channel Loading Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/26~2021/01/27	Test Item	Channel Loading

Channel Loading Plot				
802.11ac-VHT20 5500MHz		802.11ac-VHT40 5510MHz		
Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result
802.11ac-VHT20	5500 MHz	23.23%	≥ 17%	Pass
802.11ac-VHT40	5510 MHz	18.59%	≥ 17%	Pass
802.11ac-VHT80	5530 MHz	22.58%	≥ 17%	Pass
Note: System testing was performed with the iperf software This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Packet ratio = Time On / (Time On + Off Time).				

5.3. 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.

7. The U-NII Detection Bandwidth is calculated as follows: $\text{U-NII Detection Bandwidth} = FH - FL$
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.

5.3.3. Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/29	Test Item	Detection Bandwidth (802.11ac-VHT20 mode - 5500MHz)

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate
	1	2	3	4	5	6	7	8	9	10	
5488	0	0	0	0	0	0	0	0	0	0	0%
5488.4 Fl	1	1	1	1	1	1	1	1	1	1	100%
5489	1	1	1	1	1	1	1	1	1	1	100%
5490	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5511.4 Fh	1	1	1	1	1	1	1	1	1	1	100%
5512	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5500MHz. The 99% channel bandwidth is 17.58MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = Fh- Fl = 5511.4MHz – 5488.4MHz = 23MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 17.58MHz x 100% = 17.58MHz.

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/29	Test Item	Detection Bandwidth (802.11ac-VHT40 mode - 5510MHz)

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate
	1	2	3	4	5	6	7	8	9	10	
5482	0	0	0	0	0	0	0	0	0	0	0%
5482.6 F1	1	1	1	1	1	1	1	1	1	1	100%
5483	1	1	1	1	1	1	1	1	1	1	100%
5484	1	1	1	1	1	1	1	1	1	1	100%
5485	1	1	1	1	1	1	1	1	1	1	100%
5490	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5570	1	1	1	1	1	1	1	1	1	1	100%
5575	1	1	1	1	1	1	1	1	1	1	100%
5576	1	1	1	1	1	1	1	1	1	1	100%
5577	1	1	1	1	1	1	1	1	1	1	100%
5577.2 Fh	1	1	1	1	1	1	1	1	1	1	100%
5578	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 35.90MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = Fh - F1 = 5577.2MHz – 5482.6MHz = 94.6MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): $35.90\text{MHz} \times 100\% = 35.90\text{MHz}$.

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/29	Test Item	Detection Bandwidth (802.11ac-VHT80 mode - 5530MHz)

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate
	1	2	3	4	5	6	7	8	9	10	
5482	0	0	0	0	0	0	0	0	0	0	0%
5482.8 F1	1	1	1	1	1	1	1	1	1	1	100%
5483	1	1	1	1	1	1	1	1	1	1	100%
5484	1	1	1	1	1	1	1	1	1	1	100%
5485	1	1	1	1	1	1	1	1	1	1	100%
5490	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5570	1	1	1	1	1	1	1	1	1	1	100%
5575	1	1	1	1	1	1	1	1	1	1	100%
5576	1	1	1	1	1	1	1	1	1	1	100%
5576.8 Fh	1	1	1	1	1	1	1	1	1	1	100%
5577	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 75.28MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = Fh - F1 = 5576.8MHz – 5482.8MHz = 94MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 75.28MHz x 100% = 75.28MHz.

5.4. Initial Channel Availability Check Time Measurement

5.4.1. Test Limit

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

5.4.2. Test Procedure

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

5.4.3. Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/26	Test Item	Initial Channel Availability Check Time (802.11ac-VHT20 mode - 5500MHz)

Initial Channel Availability Check Time

The screenshot shows a Keysight Spectrum Analyzer interface. The main display is a spectrum plot with a center frequency of 5.500000000 GHz and a resolution bandwidth of 3.0 MHz. A signal is visible starting at approximately 128 seconds, marked with a green arrow and '1'. The marker shows a time of 188.0 s and a power level of -33.07 dBm. The plot scale is 10 dB. The interface includes various control panels for settings, markers, and search functions.

Note: The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (128.0 sec). Initial beacons/data transmissions are indicated by marker 1 (188.0 sec).

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

5.5.1. Test Limit

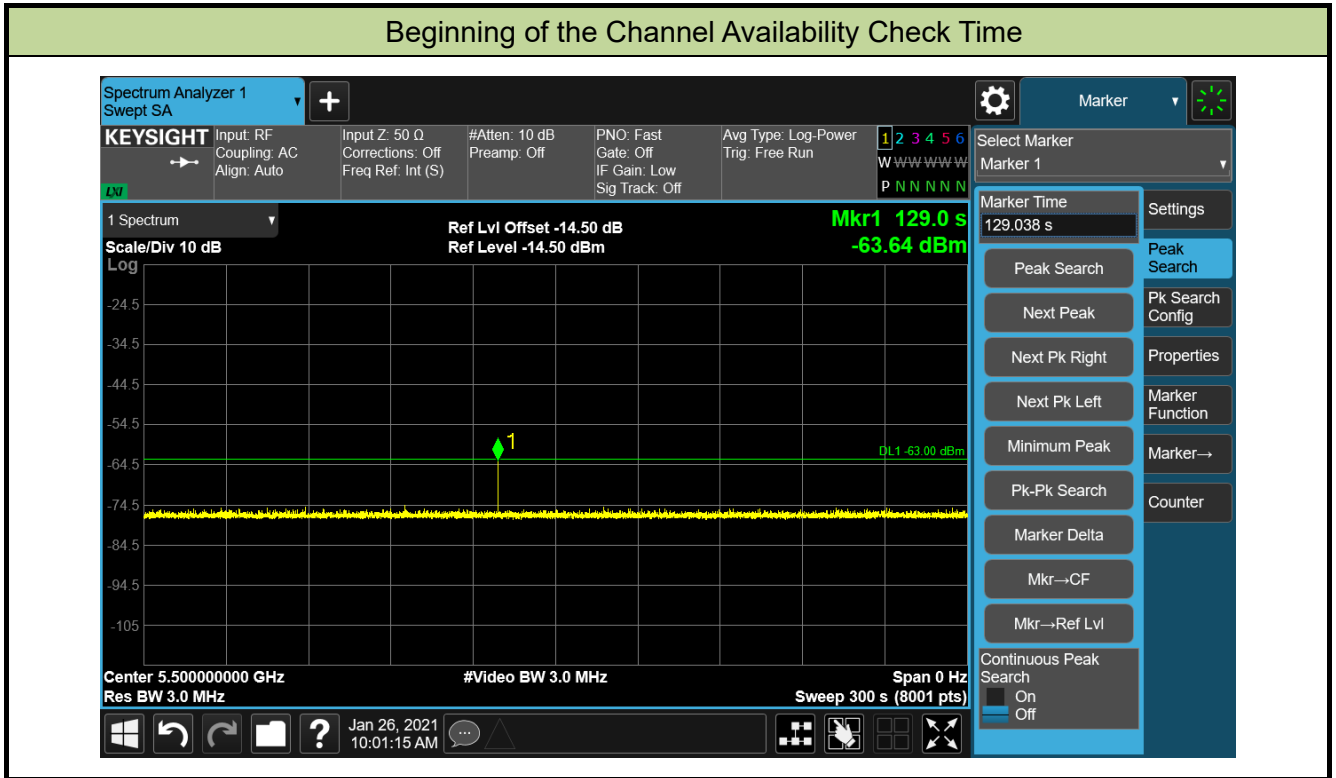
In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.5.2. Test Procedure

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

5.5.3. Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/26	Test Item	Beginning of the Channel Availability Check Time (802.11ac-VHT20 mode - 5500MHz)



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

5.6.1. Test Limit

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

5.6.2. Test Procedure

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

5.6.3. Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/26	Test Item	End of the Channel Availability Check Time (802.11ac-VHT20 mode - 5500MHz)



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

5.7.1. Test Limit

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

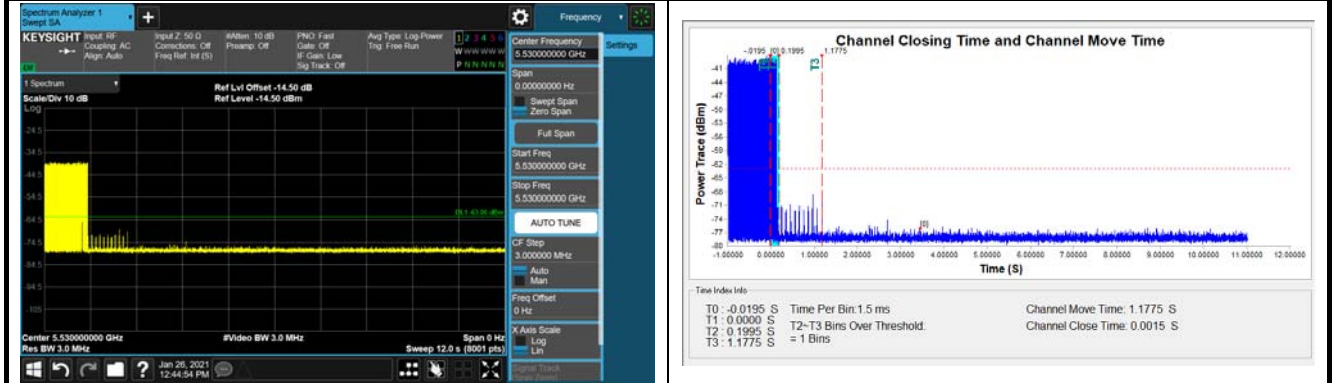
5.7.2. Test Procedure Used

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

5.7.3. Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/26	Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ac-VHT80 mode - 5530MHz)

Channel Move Time and Channel Closing Transmission Time



Non-Occupancy Period



Parameter	Test Result	Limit
Channel Move Time (s)	1.1775s	<10s
Channel Closing Transmission Time (ms) (Note)	1.5ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min

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

5.8. Statistical Performance Check Measurement

5.8.1. Test Limit

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

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

Note: The percentage of successful detection is calculated by:

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

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

5.8.2. Test Procedure

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

5.8.3. Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/28	Test Item	Radar Statistical Performance Check (802.11ac-VHT20 mode - 5500MHz)

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5488.4	1.0	938	57	0
2	5493.2	1.0	698	76	1
3	5507.5	1.0	618	86	1
4	5508.6	1.0	538	99	1
5	5504.3	1.0	878	61	1
6	5507.2	1.0	3066	18	1
7	5511.3	1.0	638	83	0
8	5497.0	1.0	918	58	1
9	5490.6	1.0	838	63	1
10	5504.6	1.0	858	62	1
11	5504.0	1.0	798	67	1
12	5500.4	1.0	718	74	1
13	5488.6	1.0	578	92	1
14	5507.2	1.0	598	89	1
15	5500.0	1.0	558	95	1
16	5504.4	1.0	2536	21	1
17	5492.3	1.0	966	55	1
18	5496.0	1.0	827	64	1
19	5490.1	1.0	2501	22	1
20	5502.8	1.0	2595	21	1
21	5489.4	1.0	1114	48	1
22	5491.0	1.0	1302	41	1
23	5503.7	1.0	3045	18	1
24	5498.7	1.0	1624	33	1
25	5504.9	1.0	2878	19	1
26	5500.7	1.0	1027	52	1
27	5501.0	1.0	2485	22	1
28	5500.2	1.0	1600	33	1
29	5494.3	1.0	1172	46	1

30	5511.4	1.0	1177	45	0
Detection Percentage (%)					90%

Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5488.4	3.2	179	26	1
2	5508.3	1.1	207	23	1
3	5501.5	2.1	230	24	1
4	5510.7	4.8	200	29	1
5	5501.0	3.9	214	28	1
6	5510.8	2.9	222	26	1
7	5502.5	3.2	204	26	1
8	5498.0	2.5	192	25	1
9	5494.9	3.1	164	26	1
10	5503.7	1.2	156	23	1
11	5493.2	3.9	210	27	1
12	5507.3	4.6	201	29	1
13	5505.8	3.2	162	26	1
14	5507.3	2.2	197	25	1
15	5500.0	4.5	163	29	1
16	5489.4	3.0	203	26	1
17	5489.9	5.0	168	29	1
18	5503.3	2.4	217	25	1
19	5505.1	2.9	191	26	1
20	5504.8	2.3	166	25	1
21	5506.7	3.7	150	27	1
22	5493.4	2.2	176	25	1
23	5496.1	4.9	195	29	1
24	5503.3	2.9	202	26	1
25	5490.1	2.5	178	25	1
26	5493.2	1.1	206	23	1
27	5498.7	3.8	155	27	1
28	5498.2	4.7	157	29	1
29	5497.0	2.4	224	25	1
30	5511.4	4.2	159	28	0
Detection Percentage (%)					96.7%

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5488.4	8.2	355	17	1
2	5501.0	6.1	487	16	1
3	5493.1	7.1	344	16	1
4	5509.6	9.8	288	18	1
5	5511.3	8.9	230	18	1
6	5506.8	7.9	432	17	1
7	5490.9	8.2	207	17	1
8	5497.1	7.5	443	17	1
9	5496.9	8.1	439	17	1
10	5507.6	6.2	223	16	1
11	5491.3	8.9	208	18	1
12	5506.1	9.6	463	18	1
13	5495.3	8.2	441	17	1
14	5491.7	7.2	323	16	1
15	5500.0	9.5	297	18	1
16	5497.1	8.0	412	17	1
17	5493.7	10.0	324	18	1
18	5489.0	7.4	271	17	1
19	5509.7	7.9	349	17	1
20	5502.2	7.3	409	16	1
21	5491.1	8.7	373	18	1
22	5510.0	7.2	254	16	1
23	5492.1	9.9	274	18	1
24	5490.6	7.9	278	17	1
25	5506.6	7.5	317	17	1
26	5496.7	6.1	260	16	1
27	5499.6	8.8	211	18	1
28	5509.1	9.7	272	18	1
29	5503.1	7.4	264	17	1
30	5511.4	9.2	284	18	1
Detection Percentage (%)					100%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5488.4	16.0	355	14	1
2	5494.1	11.3	487	12	1
3	5506.3	13.5	344	13	1
4	5491.6	19.4	288	16	1
5	5495.7	17.5	230	15	1
6	5492.5	15.3	432	14	1
7	5492.8	15.9	207	14	0
8	5507.8	14.3	443	13	1
9	5507.5	15.8	439	14	1
10	5509.5	11.5	223	12	1
11	5491.7	17.4	208	15	1
12	5506.9	19.0	463	16	1
13	5490.1	16.0	441	14	1
14	5507.8	13.8	323	13	1
15	5500.0	18.9	297	16	1
16	5499.6	15.5	412	14	1
17	5491.7	19.9	324	16	1
18	5500.5	14.1	271	13	1
19	5494.7	15.2	349	14	1
20	5504.8	13.8	409	13	1
21	5503.8	17.1	373	15	1
22	5511.0	13.8	254	13	1
23	5510.0	19.8	274	16	1
24	5510.3	15.3	278	14	1
25	5501.4	14.5	317	13	1
26	5495.4	11.3	260	12	1
27	5507.5	17.3	211	15	1
28	5490.3	19.2	272	16	1
29	5488.4	14.2	264	13	1
30	5511.4	18.2	284	15	1
Detection Percentage (%)					96.7%

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

waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (90\% + 96.7\% + 100\% + 96.7\%) / 4 = 95.8\% (>80\%)$

Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5496.2	1	16	5510.0	1
2	5493.0	1	17	5510.0	1
3	5494.6	1	18	5510.0	1
4	5498.6	1	19	5510.0	1
5	5497.4	1	20	5510.0	1
6	5495.8	1	21	5503.0	1
7	5496.2	1	22	5505.4	1
8	5495.0	1	23	5501.0	1
9	5496.2	1	24	5504.2	1
10	5493.4	1	25	5504.6	1
11	5510.0	1	26	5507.0	1
12	5510.0	1	27	5502.6	1
13	5510.0	1	28	5501.4	1
14	5510.0	1	29	5505.0	1
15	5510.0	1	30	5502.2	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6361...	77.8	13	2	1665.0	1477.0	-
1	32674.0	51.9	13	1	1074.0	-	-
2	2262...	63.8	13	1	1584.0	-	-
3	4179...	96.6	13	3	1682.0	1786.0	1843.0
4	6111...	85.9	13	3	1795.0	1215.0	1729.0
5	8789.0	73.7	13	2	1198.0	1549.0	-
6	2019...	77.2	13	2	1837.0	1819.0	-
7	3955...	68.4	13	2	1587.0	1114.0	-
8	5885...	76.7	13	2	2000.0	1155.0	-
9	7837...	53.2	13	1	1147.0	-	-
10	1779...	85.7	13	3	1433.0	1695.0	1394.0
11	3706...	94.3	13	3	1670.0	1426.0	1935.0
12	5648...	77.6	13	2	1294.0	1671.0	-
13	7595...	65.7	13	1	1512.0	-	-
14	1542...	93.5	13	3	1444.0	1130.0	1468.0

Type 5 Radar Waveform_2							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6530...	75.0	5	2	1880.0	1527.0	-
1	1015...	99.4	5	3	1401.0	1262.0	1257.0
2	1379...	67.4	5	2	1531.0	1403.0	-
3	2454...	73.6	5	2	1449.0	1041.0	-
4	6091...	65.9	5	1	1432.0	-	-
5	9708...	83.8	5	3	1356.0	1292.0	1419.0
6	1335...	65.5	5	1	1543.0	-	-
7	2004...	98.6	5	3	1548.0	1796.0	1728.0
Type 5 Radar Waveform_3							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4095...	73.8	9	2	1806.0	1538.0	-
1	6736...	69.5	9	2	1117.0	1649.0	-
2	9385...	51.9	9	1	1651.0	-	-
3	1132...	84.6	9	3	1976.0	1032.0	1271.0
4	3767...	95.4	9	3	1060.0	1903.0	1388.0
5	6412...	68.0	9	2	1368.0	1351.0	-
6	9037...	89.6	9	3	1338.0	1514.0	1573.0
7	80863.0	81.9	9	2	1022.0	1689.0	-
8	3440...	88.3	9	3	1810.0	1330.0	1838.0
9	6093...	53.7	9	1	1597.0	-	-
10	8715...	91.3	9	3	1961.0	1106.0	1001.0
Type 5 Radar Waveform_4							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	26541.0	68.1	19	2	1339.0	1355.0	-
1	1718...	58.7	19	1	1251.0	-	-
2	3162...	75.3	19	2	1136.0	1640.0	-
3	4618...	56.4	19	1	1753.0	-	-
4	8677.0	99.7	19	3	1196.0	1708.0	1159.0
5	1539...	57.7	19	1	1013.0	-	-
6	2992...	59.5	19	1	1072.0	-	-
7	4431...	80.0	19	2	1482.0	1369.0	-
8	5876...	82.0	19	2	1993.0	1197.0	-
9	1356...	82.8	19	2	1883.0	1005.0	-
10	2799...	88.0	19	3	1061.0	1928.0	1101.0
11	4242...	93.2	19	3	1207.0	1907.0	1223.0
12	5701...	70.4	19	2	1526.0	1360.0	-
13	1174...	95.3	19	3	1171.0	1955.0	1775.0
14	2625...	81.9	19	2	1690.0	1545.0	-
15	4065...	98.5	19	3	1975.0	1169.0	1062.0
16	5533...	65.0	19	1	1767.0	-	-
17	99799.0	85.4	19	3	1011.0	1637.0	1425.0
18	2440...	91.6	19	3	1878.0	1445.0	1325.0
19	3900...	67.3	19	2	1091.0	1218.0	-

Type 5 Radar Waveform_5

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6296...	67.9	16	2	1320.0	1133.0	-
1	96856.0	62.3	16	1	1957.0	-	-
2	2677...	53.3	16	1	1592.0	-	-
3	4367...	90.0	16	3	1900.0	1153.0	1346.0
4	6082...	77.1	16	2	1166.0	1646.0	-
5	75610.0	83.9	16	3	1278.0	1232.0	1459.0
6	2456...	89.1	16	3	1240.0	1384.0	1939.0
7	4163...	81.8	16	2	1833.0	1676.0	-
8	5887...	50.3	16	1	1075.0	-	-
9	54571.0	87.1	16	3	1116.0	1996.0	1756.0
10	2251...	71.3	16	2	1225.0	1815.0	-
11	3948...	97.5	16	3	1884.0	1465.0	1132.0
12	5653...	90.6	16	3	1561.0	1040.0	1354.0
13	33643.0	86.3	16	3	1596.0	1183.0	1792.0
14	2039...	97.6	16	3	1365.0	1073.0	1361.0
15	3738...	84.7	16	3	1021.0	1718.0	1854.0
16	5440...	99.7	16	3	1150.0	1244.0	1988.0

Type 5 Radar Waveform_6

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	15438.0	92.9	12	3	1085.0	1564.0	1407.0
1	2224...	67.7	12	2	1744.0	1747.0	-
2	4307...	65.8	12	1	1092.0	-	-
3	6377...	56.3	12	1	1851.0	-	-
4	8453...	53.7	12	1	1727.0	-	-
5	1967...	83.5	12	3	1679.0	1930.0	1025.0
6	4049...	65.8	12	1	1519.0	-	-
7	6107...	85.9	12	3	1134.0	1034.0	1808.0
8	8180...	76.3	12	2	1606.0	1926.0	-
9	1714...	81.5	12	2	1891.0	1714.0	-
10	3779...	89.4	12	3	1310.0	1594.0	1827.0
11	5868...	63.4	12	1	1568.0	-	-
12	7928...	69.6	12	2	1307.0	1925.0	-
13	1460...	74.5	12	2	1264.0	1846.0	-

Type 5 Radar Waveform_7

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3290...	96.6	13	3	1182.0	1609.0	1581.0
1	5217...	96.7	13	3	1829.0	1799.0	1154.0
2	7142...	86.5	13	3	1923.0	1396.0	1865.0
3	1124...	73.3	13	2	1908.0	1318.0	-
4	3062...	55.8	13	1	1688.0	-	-
5	5002...	55.4	13	1	1145.0	-	-
6	6909...	85.3	13	3	1336.0	1504.0	1820.0
7	88645.0	79.4	13	2	1344.0	1893.0	-
8	2825...	65.7	13	1	1476.0	-	-
9	4758...	68.6	13	2	1008.0	1028.0	-
10	6678...	77.7	13	2	1972.0	1835.0	-
11	64845.0	79.6	13	2	1882.0	1331.0	-
12	2577...	94.9	13	3	1830.0	1070.0	1349.0
13	4523...	61.4	13	1	1451.0	-	-
14	6433...	90.6	13	3	1233.0	1562.0	1887.0

Type 5 Radar Waveform_8

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	51446.0	52.6	10	1	1210.0	-	-
1	2926...	84.1	10	3	1314.0	1725.0	1529.0
2	5339...	97.7	10	3	1139.0	1868.0	1805.0
3	7755...	97.3	10	3	1341.0	1446.0	1755.0
4	21542.0	98.8	10	3	1544.0	1386.0	1302.0
5	2633...	72.2	10	2	1771.0	1184.0	-
6	5055...	67.6	10	2	1175.0	1027.0	-
7	7470...	75.7	10	2	1026.0	1871.0	-
8	9899...	60.9	10	1	1798.0	-	-
9	2340...	64.2	10	1	1138.0	-	-
10	4752...	78.8	10	2	1784.0	1604.0	-
11	7158...	87.5	10	3	1511.0	1712.0	1683.0

Type 5 Radar Waveform_9

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	8231...	54.1	13	1	1415.0	-	-
1	1749...	50.7	13	1	1221.0	-	-
2	3822...	52.3	13	1	1974.0	-	-
3	5873...	99.8	13	3	1558.0	1696.0	1949.0
4	7968...	68.4	13	2	1014.0	1099.0	-
5	1490...	80.8	13	2	1736.0	1505.0	-
6	3567...	62.5	13	1	1778.0	-	-
7	5638...	74.8	13	2	1149.0	1204.0	-
8	7723...	50.8	13	1	1049.0	-	-
9	1237...	54.0	13	1	1417.0	-	-
10	3312...	63.0	13	1	1730.0	-	-
11	5374...	91.8	13	3	1143.0	1270.0	1347.0
12	7448...	79.3	13	2	1274.0	1992.0	-
13	98172.0	64.3	13	1	1937.0	-	-

Type 5 Radar Waveform_10

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5356...	63.4	6	1	1043.0	-	-
1	8986...	52.0	6	1	1863.0	-	-
2	1259...	97.2	6	3	1973.0	1605.0	1583.0
3	1271...	78.7	6	2	1466.0	1743.0	-
4	4903...	74.2	6	2	1280.0	1219.0	-
5	8524...	88.7	6	3	1293.0	1934.0	1273.0
6	1217...	54.3	6	1	1991.0	-	-
7	82296.0	95.4	6	3	1580.0	1555.0	1791.0

Type 5 Radar Waveform_11

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2092...	73.7	16	2	1208.0	1497.0	-
1	3783...	97.4	16	3	1942.0	1754.0	1613.0
2	5484...	91.7	16	3	1999.0	1702.0	1462.0
3	17733.0	66.2	16	1	1393.0	-	-
4	1879...	70.8	16	2	1968.0	1821.0	-
5	3592...	52.3	16	1	1740.0	-	-
6	5288...	78.9	16	2	1308.0	1984.0	-
7	7001...	70.9	16	2	1050.0	1358.0	-
8	1671...	75.6	16	2	1437.0	1430.0	-
9	3382...	59.1	16	1	1697.0	-	-
10	5083...	77.0	16	2	1397.0	1304.0	-
11	6786...	67.9	16	2	1803.0	1083.0	-
12	1460...	81.2	16	2	1720.0	1932.0	-
13	3169...	78.7	16	2	1247.0	1121.0	-
14	4880...	63.3	16	1	1634.0	-	-
15	6573...	68.9	16	2	1849.0	1423.0	-
16	1255...	59.3	16	1	1093.0	-	-

Type 5 Radar Waveform_12

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2637...	98.9	19	3	1381.0	1680.0	1488.0
1	4164...	82.3	19	2	1716.0	1855.0	-
2	5679...	86.7	19	3	1211.0	1400.0	1919.0
3	92979.0	89.7	19	3	1861.0	1068.0	1282.0
4	2451...	98.6	19	3	1507.0	1194.0	1461.0
5	3976...	71.1	19	2	1921.0	1789.0	-
6	5514...	55.9	19	1	1947.0	-	-
7	74413.0	67.9	19	2	1350.0	1372.0	-
8	2265...	84.4	19	3	1203.0	1107.0	1443.0
9	3800...	58.8	19	1	1715.0	-	-
10	5334...	65.6	19	1	1017.0	-	-
11	55547.0	78.5	19	2	1911.0	1704.0	-
12	2078...	82.3	19	2	1845.0	1686.0	-
13	3597...	90.1	19	3	1938.0	1071.0	1266.0
14	5112...	90.2	19	3	1989.0	1089.0	1950.0
15	36803.0	83.1	19	2	1943.0	1406.0	-
16	1896...	58.8	19	1	1742.0	-	-
17	3418...	77.0	19	2	1187.0	1657.0	-
18	4957...	55.0	19	1	1012.0	-	-

Type 5 Radar Waveform_13

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	22911.0	58.1	13	1	1929.0	-	-
1	2164...	52.1	13	1	1910.0	-	-
2	4100...	59.9	13	1	1971.0	-	-
3	6036...	60.2	13	1	1812.0	-	-
4	7941...	95.9	13	3	1399.0	1906.0	1608.0
5	1922...	79.9	13	2	1626.0	1859.0	-
6	3855...	78.5	13	2	1238.0	1917.0	-
7	5798...	53.8	13	1	1763.0	-	-
8	7734...	64.7	13	1	1800.0	-	-
9	1688...	61.4	13	1	1390.0	-	-
10	3616...	83.2	13	2	1692.0	1858.0	-
11	5538...	84.7	13	3	1533.0	1677.0	1638.0
12	7472...	88.7	13	3	1703.0	1528.0	1058.0
13	1447...	78.3	13	2	1258.0	1951.0	-
14	3378...	69.3	13	2	1731.0	1717.0	-

Type 5 Radar Waveform_14

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6642...	75.3	10	2	1994.0	1612.0	-
1	9078...	56.3	10	1	1456.0	-	-
2	1513...	67.7	10	2	1617.0	1185.0	-
3	3937...	55.6	10	1	1337.0	-	-
4	6350...	75.2	10	2	1421.0	1267.0	-
5	8769...	76.3	10	2	1359.0	1305.0	-
6	1212...	85.7	10	3	1547.0	1362.0	1924.0
7	3626...	98.4	10	3	1873.0	1550.0	1249.0
8	6043...	86.4	10	3	1779.0	1439.0	1046.0
9	8464...	93.6	10	3	1059.0	1031.0	1452.0
10	91871.0	63.3	10	1	1328.0	-	-
11	3330...	92.4	10	3	1412.0	1673.0	1322.0

Type 5 Radar Waveform_15

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3613...	93.3	18	3	1983.0	1912.0	1535.0
1	5152...	69.1	18	2	1102.0	1794.0	-
2	39025.0	86.9	18	3	1044.0	1152.0	1148.0
3	1909...	84.9	18	3	1894.0	1948.0	1118.0
4	3439...	72.3	18	2	1094.0	1916.0	-
5	4976...	51.7	18	1	1447.0	-	-
6	20319.0	58.3	18	1	1429.0	-	-
7	1729...	60.8	18	1	1979.0	-	-
8	3258...	57.1	18	1	1641.0	-	-
9	4758...	88.9	18	3	1886.0	1964.0	1489.0
10	1489.0	72.0	18	2	1909.0	1297.0	-
11	1536...	90.9	18	3	1261.0	1566.0	1370.0
12	3070...	59.8	18	1	1552.0	-	-
13	4588...	70.0	18	2	1759.0	1291.0	-
14	6107...	67.2	18	2	1625.0	1881.0	-
15	1347...	91.2	18	3	1382.0	1832.0	1661.0
16	2883...	56.5	18	1	1483.0	-	-
17	4412...	51.2	18	1	1237.0	-	-
18	5927...	74.1	18	2	1471.0	1245.0	-

Type 5 Radar Waveform_16

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1582...	76.9	12	2	1110.0	1140.0	-
1	3660...	50.2	12	1	1316.0	-	-
2	5734...	62.9	12	1	1520.0	-	-
3	7806...	64.7	12	1	1902.0	-	-
4	1324...	83.8	12	3	1410.0	1097.0	1621.0
5	3402...	65.4	12	1	1944.0	-	-
6	5482...	53.2	12	1	1024.0	-	-
7	7553...	51.7	12	1	1603.0	-	-
8	1071...	78.7	12	2	1804.0	1168.0	-
9	3145...	72.4	12	2	1030.0	1343.0	-
10	5224...	53.8	12	1	1327.0	-	-
11	7285...	73.6	12	2	1524.0	1553.0	-
12	81611.0	66.7	12	2	1722.0	1122.0	-
13	2889...	82.5	12	2	1404.0	1019.0	-

Type 5 Radar Waveform_17							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3457...	87.6	20	3	1565.0	1055.0	1840.0
1	4900...	85.2	20	3	1735.0	1541.0	1408.0
2	39073.0	84.8	20	3	1534.0	1889.0	1463.0
3	1839...	77.9	20	2	1749.0	1460.0	-
4	3287...	76.5	20	2	1518.0	1485.0	-
5	4747...	60.9	20	1	1540.0	-	-
6	21394.0	83.0	20	2	1080.0	1010.0	-
7	1659...	80.4	20	2	1824.0	1752.0	-
8	3109...	67.5	20	2	1764.0	1181.0	-
9	4568...	62.1	20	1	1495.0	-	-
10	3515.0	86.4	20	3	1773.0	1966.0	1263.0
11	1479...	84.3	20	3	1593.0	1188.0	1788.0
12	2932...	76.9	20	2	1226.0	1537.0	-
13	4369...	95.8	20	3	1192.0	1298.0	1844.0
14	5840...	55.2	20	1	1644.0	-	-
15	1308...	59.0	20	1	1402.0	-	-
16	2746...	94.5	20	3	1296.0	1700.0	1283.0
17	4185...	91.9	20	3	1970.0	1978.0	1165.0
18	5634...	85.2	20	3	1732.0	1551.0	1189.0
19	1127...	69.5	20	2	1038.0	1224.0	-

Type 5 Radar Waveform_18							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4292...	86.4	10	3	1259.0	1918.0	1455.0
1	6702...	92.2	10	3	1598.0	1719.0	1895.0
2	9128...	80.4	10	2	1816.0	1899.0	-
3	1586...	54.3	10	1	1335.0	-	-
4	4008...	53.1	10	1	1303.0	-	-
5	6419...	69.4	10	2	1503.0	1546.0	-
6	8838...	69.1	10	2	1279.0	1639.0	-
7	1283...	100.0	10	3	1375.0	1438.0	1595.0
8	3703...	79.6	10	2	1239.0	1705.0	-
9	6111...	88.4	10	3	1374.0	1579.0	1623.0
10	8556...	53.3	10	1	1016.0	-	-
11	98897.0	65.3	10	1	1709.0	-	-

Type 5 Radar Waveform_19							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2921...	55.3	12	1	1920.0	-	-
1	4996...	58.3	12	1	1797.0	-	-
2	7063...	72.3	12	2	1610.0	1039.0	-
3	58989.0	84.8	12	3	1131.0	1761.0	1721.0
4	2661...	82.5	12	2	1875.0	1431.0	-
5	4744...	63.3	12	1	1095.0	-	-
6	6805...	80.0	12	2	1119.0	1913.0	-
7	33519.0	90.3	12	3	1660.0	1853.0	1123.0
8	2403...	91.1	12	3	1539.0	1783.0	1172.0
9	4474...	96.6	12	3	1525.0	1036.0	1385.0
10	6545...	82.7	12	2	1710.0	1990.0	-
11	8083.0	50.7	12	1	1234.0	-	-
12	2154...	78.4	12	2	1047.0	1109.0	-
13	4213...	99.5	12	3	1299.0	1965.0	1869.0

Type 5 Radar Waveform_20							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	7337...	88.6	10	3	1501.0	1067.0	1927.0
1	9778...	57.4	10	1	1723.0	-	-
2	2211...	96.6	10	3	1086.0	1658.0	1324.0
3	4629...	69.7	10	2	1751.0	1945.0	-
4	7050...	77.9	10	2	1642.0	1317.0	-
5	9479...	62.0	10	1	1866.0	-	-
6	1913...	88.4	10	3	1997.0	1077.0	1366.0
7	4325...	97.3	10	3	1790.0	1896.0	1367.0
8	6740...	96.2	10	3	1391.0	1787.0	1672.0
9	9158...	95.4	10	3	1020.0	1892.0	1414.0
10	1621...	54.8	10	1	1084.0	-	-
11	4035...	80.4	10	2	1850.0	1436.0	-

Type 5 Radar Waveform_21							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4834...	74.7	15	2	1619.0	1611.0	-
1	6660...	57.1	15	1	1560.0	-	-
2	98810.0	91.9	15	3	1392.0	1475.0	1276.0
3	2799...	83.1	15	2	1809.0	1772.0	-
4	4625...	50.7	15	1	1003.0	-	-
5	6423...	79.2	15	2	1574.0	1600.0	-
6	76831.0	58.7	15	1	1186.0	-	-
7	2577...	71.0	15	2	1521.0	1567.0	-
8	4385...	79.0	15	2	1777.0	1960.0	-
9	6203...	68.5	15	2	1284.0	1428.0	-
10	54310.0	73.5	15	2	1904.0	1352.0	-
11	2355...	70.5	15	2	1864.0	1115.0	-
12	4170...	76.6	15	2	1045.0	1300.0	-
13	5979...	81.2	15	2	1160.0	1675.0	-
14	32086.0	61.8	15	1	1277.0	-	-
15	2127...	94.9	15	3	1450.0	1206.0	1860.0

Type 5 Radar Waveform_22							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5261...	78.5	9	2	1653.0	1698.0	-
1	7671...	89.8	9	3	1174.0	1962.0	1167.0
2	12955.0	59.4	9	1	1982.0	-	-
3	2546...	79.6	9	2	1633.0	1890.0	-
4	4965...	76.0	9	2	1112.0	1811.0	-
5	7397...	53.6	9	1	1144.0	-	-
6	9808...	80.9	9	2	1220.0	1053.0	-
7	2252...	61.6	9	1	1724.0	-	-
8	4672...	53.4	9	1	1901.0	-	-
9	7097...	59.9	9	1	1379.0	-	-
10	9518...	60.4	9	1	1453.0	-	-
11	1948...	91.4	9	3	1768.0	1726.0	1227.0

Type 5 Radar Waveform_23

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2618...	77.0	20	2	1191.0	1363.0	-
1	4076...	58.1	20	1	1248.0	-	-
2	5523...	62.1	20	1	1836.0	-	-
3	99107.0	76.9	20	2	1334.0	1236.0	-
4	2435...	80.0	20	2	1914.0	1852.0	-
5	3894...	52.0	20	1	1701.0	-	-
6	5310...	88.6	20	3	1693.0	1995.0	1905.0
7	81159.0	72.9	20	2	1922.0	1387.0	-
8	2252...	98.5	20	3	1839.0	1746.0	1389.0
9	3719...	57.9	20	1	1193.0	-	-
10	5141...	95.9	20	3	1659.0	1870.0	1066.0
11	63561.0	53.5	20	1	1162.0	-	-
12	2075...	92.0	20	3	1745.0	1654.0	1458.0
13	3536...	57.3	20	1	1834.0	-	-
14	4975...	70.5	20	2	1684.0	1586.0	-
15	45553.0	70.0	20	2	1042.0	1664.0	-
16	1898...	84.0	20	3	1765.0	1630.0	1176.0
17	3353...	76.1	20	2	1557.0	1057.0	-
18	4788...	93.2	20	3	1985.0	1018.0	1340.0
19	27594.0	96.8	20	3	1760.0	1614.0	1817.0

Type 5 Radar Waveform_24

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2471...	50.1	12	1	1841.0	-	-
1	4533...	93.5	12	3	1590.0	1081.0	1413.0
2	6608...	68.8	12	2	1707.0	1577.0	-
3	14140.0	56.3	12	1	1056.0	-	-
4	2207...	86.0	12	3	1953.0	1108.0	1987.0
5	4283...	75.2	12	2	1572.0	1536.0	-
6	6366...	54.4	12	1	1517.0	-	-
7	8431...	71.1	12	2	1329.0	1243.0	-
8	1955...	76.2	12	2	1940.0	1770.0	-
9	4032...	80.2	12	2	1098.0	1209.0	-
10	6102...	79.7	12	2	1588.0	1214.0	-
11	8152...	90.9	12	3	1615.0	1862.0	1601.0
12	1702...	68.7	12	2	1377.0	1441.0	-
13	3773...	67.4	12	2	1872.0	1313.0	-

Type 5 Radar Waveform_25

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6280...	94.0	11	3	1643.0	1748.0	1941.0
1	8533...	70.8	11	2	1177.0	1201.0	-
2	1562...	56.3	11	1	1006.0	-	-
3	3787...	96.7	11	3	1230.0	1163.0	1332.0
4	6013...	90.6	11	3	1217.0	1582.0	1498.0
5	8254...	74.5	11	2	1569.0	1281.0	-
6	1282...	92.6	11	3	1065.0	1669.0	1222.0
7	3511...	89.0	11	3	1493.0	1135.0	1380.0
8	5734...	96.5	11	3	1607.0	1822.0	1602.0
9	7984...	70.5	11	2	1141.0	1178.0	-
10	1007...	94.0	11	3	1009.0	1629.0	1956.0
11	3246...	55.8	11	1	1290.0	-	-
12	5462...	87.7	11	3	1435.0	1963.0	1164.0

Type 5 Radar Waveform_26							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1253...	68.6	5	2	1306.0	1161.0	-
1	1194...	83.1	5	2	1420.0	1315.0	-
2	4829...	60.9	5	1	1687.0	-	-
3	8456...	77.7	5	2	1776.0	1158.0	-
4	1208...	77.4	5	2	1793.0	1510.0	-
5	74748.0	66.8	5	2	1576.0	1323.0	-
6	4383...	63.7	5	1	1333.0	-	-
7	8001...	91.2	5	3	1409.0	1681.0	1275.0

Type 5 Radar Waveform_27							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5458...	83.6	16	3	1632.0	1195.0	1000.0
1	14067.0	89.4	16	3	1173.0	1627.0	1656.0
2	1849...	55.8	16	1	1532.0	-	-
3	3537...	90.9	16	3	1981.0	1554.0	1998.0
4	5263...	54.7	16	1	1825.0	-	-
5	6948...	97.7	16	3	1734.0	1202.0	1250.0
6	1635...	67.5	16	2	1571.0	1434.0	-
7	3334...	96.7	16	3	1589.0	1469.0	1268.0
8	5040...	68.3	16	2	1750.0	1954.0	-
9	6752...	78.3	16	2	1591.0	1082.0	-
10	1428...	55.0	16	1	1427.0	-	-
11	3124...	84.9	16	3	1129.0	1936.0	1199.0
12	4829...	74.6	16	2	1959.0	1856.0	-
13	6550...	63.3	16	1	1885.0	-	-
14	1214...	99.8	16	3	1035.0	1515.0	1120.0
15	2926...	63.6	16	1	1647.0	-	-
16	4613...	87.3	16	3	1931.0	1051.0	1831.0

Type 5 Radar Waveform_28							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5651...	85.6	19	3	1946.0	1078.0	1015.0
1	89970.0	68.6	19	2	1029.0	1780.0	-
2	2431...	54.2	19	1	1111.0	-	-
3	3960...	61.2	19	1	1104.0	-	-
4	5462...	97.1	19	3	1157.0	1969.0	1100.0
5	70998.0	98.3	19	3	1142.0	1699.0	1622.0
6	2240...	62.4	19	1	1655.0	-	-
7	3761...	80.2	19	2	1126.0	1769.0	-
8	5278...	87.5	19	3	1216.0	1448.0	1179.0
9	52247.0	85.8	19	3	1847.0	1348.0	1472.0
10	2045...	88.1	19	3	1023.0	1124.0	1631.0
11	3579...	65.3	19	1	1848.0	-	-
12	5109...	52.5	19	1	1470.0	-	-
13	33698.0	52.3	19	1	1312.0	-	-
14	1860...	74.1	19	2	1915.0	1200.0	-
15	3393...	54.9	19	1	1479.0	-	-
16	4910...	76.2	19	2	1376.0	1502.0	-
17	14858.0	60.4	19	1	1758.0	-	-
18	1673...	81.5	19	2	1491.0	1103.0	-

Type 5 Radar Waveform_29							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5077...	50.5	10	1	1857.0	-	-
1	7502...	55.7	10	1	1246.0	-	-
2	9890...	85.8	10	3	1774.0	1002.0	1967.0
3	2356...	76.9	10	2	1125.0	1474.0	-
4	4776...	75.1	10	2	1254.0	1052.0	-
5	7183...	92.3	10	3	1180.0	1486.0	1492.0
6	9608...	78.1	10	2	1301.0	1757.0	-
7	2053...	92.2	10	3	1898.0	1252.0	1713.0
8	4469...	89.0	10	3	1260.0	1706.0	1411.0
9	6892...	70.9	10	2	1578.0	1620.0	-
10	9323...	63.1	10	1	1782.0	-	-
11	1762...	55.3	10	1	1522.0	-	-

Type 5 Radar Waveform_30							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2774...	83.4	17	3	1454.0	1205.0	1801.0
1	4378...	97.3	17	3	1319.0	1826.0	1635.0
2	5984...	90.4	17	3	1079.0	1986.0	1674.0
3	97088.0	91.8	17	3	1563.0	1151.0	1802.0
4	2572...	98.2	17	3	1876.0	1977.0	1766.0
5	4198...	59.5	17	1	1952.0	-	-
6	5807...	80.0	17	2	1253.0	1137.0	-
7	77366.0	86.5	17	3	1054.0	1128.0	1828.0
8	2380...	91.1	17	3	1105.0	1599.0	1442.0
9	3986...	93.5	17	3	1867.0	1373.0	1087.0
10	5620...	60.7	17	1	1033.0	-	-
11	57684.0	67.2	17	2	1288.0	1405.0	-
12	2190...	61.8	17	1	1585.0	-	-
13	3792...	79.4	17	2	1933.0	1667.0	-
14	5408...	81.4	17	2	1096.0	1464.0	-
15	37916.0	65.7	17	1	1496.0	-	-
16	1987...	76.0	17	2	1733.0	1255.0	-
17	3597...	81.0	17	2	1326.0	1668.0	-

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Hopping Number	1=Detection 0=No Detection
1	5499.2	5.0	1
2	5499.6	2.0	1
3	5493.6	6.0	1
4	5495.7	6.0	1
5	5510.6	3.0	1
6	5490.6	1.0	1
7	5491.7	4.0	1
8	5496.2	7.0	1
9	5500.2	6.0	1
10	5500.0	2.0	1
11	5505.8	5.0	1
12	5491.3	9.0	1
13	5492.7	6.0	1
14	5499.6	5.0	1
15	5496.0	5.0	1
16	5506.6	7.0	1
17	5504.4	2.0	1
18	5492.0	7.0	1
19	5511.3	4.0	1
20	5502.4	7.0	1
21	5506.8	7.0	1
22	5507.0	8.0	1
23	5500.6	6.0	1
24	5505.3	3.0	1
25	5506.5	3.0	1
26	5491.0	3.0	1
27	5505.4	4.0	1
28	5496.1	6.0	1
29	5511.3	7.0	1
30	5502.2	5.0	1
Detection Percentage (%)			100%

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/28	Test Item	Radar Statistical Performance Check (802.11ac-VHT40 mode - 5510MHz)

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5494.0	1.0	678	78	1
2	5549.0	1.0	858	62	1
3	5534.0	1.0	738	72	1
4	5517.0	1.0	878	61	1
5	5543.0	1.0	938	57	1
6	5505.0	1.0	918	58	1
7	5520.0	1.0	538	99	1
8	5507.0	1.0	618	86	1
9	5548.0	1.0	798	67	1
10	5556.0	1.0	898	59	1
11	5573.0	1.0	518	102	1
12	5513.0	1.0	718	74	1
13	5553.0	1.0	3066	18	1
14	5507.0	1.0	598	89	1
15	5534.0	1.0	838	63	1
16	5514.0	1.0	2846	19	1
17	5524.0	1.0	562	94	1
18	5558.0	1.0	1335	40	1
19	5504.0	1.0	1748	31	1
20	5575.0	1.0	3047	18	1
21	5541.0	1.0	850	63	1
22	5578.0	1.0	2404	22	0
23	5525.0	1.0	1611	33	1
24	5514.0	1.0	2904	19	1
25	5517.0	1.0	2736	20	1
26	5529.0	1.0	3044	18	1
27	5543.0	1.0	1604	33	1
28	5538.0	1.0	2695	20	1
29	5528.0	1.0	2004	27	1
30	5488.0	1.0	2642	20	1

Detection Percentage (%)	96.7%
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Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5510.0	2.8	164	26	1
2	5578.0	3.9	160	27	0
3	5520.0	4.8	215	29	1
4	5512.0	4.1	202	28	1
5	5558.0	3.5	203	27	1
6	5482.0	3.7	154	27	0
7	5514.0	1.1	230	23	1
8	5565.0	4.2	204	28	1
9	5577.0	1.0	166	23	0
10	5545.0	2.7	169	25	1
11	5565.0	4.5	190	29	1
12	5531.0	4.4	195	28	1
13	5522.0	2.8	185	26	1
14	5554.0	3.0	181	26	1
15	5535.0	1.0	218	23	1
16	5563.0	3.5	173	27	1
17	5522.0	1.1	227	23	1
18	5541.0	2.5	193	25	1
19	5492.0	2.4	205	25	1
20	5576.0	5.0	208	29	0
21	5568.0	2.5	152	25	1
22	5509.0	4.9	210	29	1
23	5520.0	4.5	211	29	1
24	5571.0	1.5	158	23	1
25	5575.0	3.7	179	27	0
26	5528.0	3.9	199	27	1
27	5484.0	3.9	222	28	0
28	5525.0	1.6	171	24	1
29	5496.0	2.6	225	25	1
30	5539.0	4.5	216	29	1
Detection Percentage (%)					80%

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5561.0	7.8	333	17	1
2	5533.0	8.9	349	18	1
3	5548.0	9.8	228	18	1
4	5535.0	9.1	256	18	1
5	5541.0	8.5	402	17	1
6	5540.0	8.7	340	17	1
7	5495.0	6.1	392	16	1
8	5539.0	9.2	383	18	1
9	5577.0	6.0	460	16	0
10	5512.0	7.7	336	17	1
11	5509.0	9.5	381	18	1
12	5513.0	9.4	306	18	1
13	5491.0	7.8	210	17	1
14	5538.0	8.0	222	17	1
15	5521.0	6.0	480	16	1
16	5543.0	8.5	358	17	1
17	5520.0	6.1	470	16	1
18	5483.0	7.5	465	17	0
19	5499.0	7.1	217	17	1
20	5492.0	10.0	278	18	1
21	5567.0	7.5	407	17	1
22	5547.0	9.9	281	18	1
23	5498.0	9.5	226	18	1
24	5490.0	6.5	297	16	1
25	5509.0	8.7	406	17	1
26	5519.0	8.9	235	18	1
27	5557.0	8.9	479	18	1
28	5546.0	6.6	401	16	1
29	5527.0	7.6	219	17	1
30	5516.0	9.5	354	18	1
Detection Percentage (%)					93.3%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5564.0	15.1	333	14	1
2	5568.0	17.4	349	15	1
3	5514.0	19.6	228	16	1
4	5576.0	18.0	256	15	0
5	5492.0	16.5	402	15	1
6	5565.0	17.0	340	15	1
7	5485.0	11.2	392	12	0
8	5501.0	18.1	383	15	1
9	5578.0	11.1	460	12	0
10	5535.0	14.7	336	14	1
11	5520.0	18.8	381	16	1
12	5531.0	18.5	306	16	1
13	5518.0	15.1	210	14	0
14	5539.0	15.5	222	14	1
15	5517.0	11.0	480	12	0
16	5574.0	16.5	358	15	0
17	5535.0	11.2	470	12	1
18	5570.0	14.3	465	13	1
19	5508.0	14.2	217	13	1
20	5542.0	19.8	278	16	1
21	5526.0	14.5	407	13	1
22	5499.0	19.8	281	16	1
23	5515.0	18.9	226	16	1
24	5572.0	12.2	297	12	1
25	5511.0	16.9	406	15	1
26	5517.0	17.4	235	15	1
27	5521.0	17.5	479	15	1
28	5537.0	12.3	401	12	1
29	5516.0	14.6	219	14	1
30	5490.0	18.9	354	16	1
Detection Percentage (%)					80%

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

waveforms is as follows:
$$\frac{P_d1+P_d2+P_d3+P_d4}{4} = (96.7\%+80\%+93.3\%+80\%)/4 = 87.5\% (>80\%)$$

Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5496.8	1	16	5510.0	1
2	5498.4	1	17	5510.0	1
3	5500.0	1	18	5510.0	1
4	5498.8	1	19	5510.0	1
5	5497.6	1	20	5510.0	1
6	5498.0	1	21	5522.0	1
7	5494.0	1	22	5524.4	1
8	5498.8	1	23	5520.0	1
9	5497.2	1	24	5523.2	1
10	5494.4	1	25	5523.6	1
11	5510.0	1	26	5526.0	1
12	5510.0	1	27	5521.6	1
13	5510.0	1	28	5520.4	1
14	5510.0	1	29	5524.0	1
15	5510.0	1	30	5521.2	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6441...	72.8	12	2	1089.0	1169.0	-
1	8650...	85.5	12	3	1476.0	1358.0	1992.0
2	1695...	97.5	12	3	1112.0	1742.0	1581.0
3	3925...	88.7	12	3	1216.0	1568.0	1160.0
4	6158...	80.6	12	2	1475.0	1906.0	-
5	8399...	83.2	12	2	1152.0	1034.0	-
6	1426...	51.2	12	1	1022.0	-	-
7	3647...	89.3	12	3	1368.0	1722.0	1623.0
8	5894...	51.0	12	1	1617.0	-	-
9	8115...	70.8	12	2	2000.0	1223.0	-
10	1146...	93.1	12	3	1751.0	1199.0	1656.0
11	3373...	91.6	12	3	1453.0	1829.0	1329.0
12	5607...	72.8	12	2	1830.0	1763.0	-

Type 5 Radar Waveform_2

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5997...	75.1	16	2	1180.0	1063.0	-
1	66838.0	50.0	16	1	1817.0	-	-
2	2370...	80.8	16	2	1747.0	1603.0	-
3	4084...	51.6	16	1	1704.0	-	-
4	5786...	68.4	16	2	1033.0	1352.0	-
5	45703.0	67.7	16	2	1657.0	1723.0	-
6	2155...	98.9	16	3	1898.0	1472.0	1613.0
7	3871...	69.5	16	2	1010.0	1038.0	-
8	5556...	98.5	16	3	1113.0	1819.0	1916.0
9	24683.0	93.7	16	3	1240.0	1904.0	1171.0
10	1956...	57.1	16	1	1338.0	-	-
11	3658...	83.0	16	2	1511.0	1119.0	-
12	5348...	85.7	16	3	1673.0	1910.0	1159.0
13	3723.0	86.2	16	3	1589.0	1914.0	1166.0
14	1746...	57.3	16	1	1252.0	-	-
15	3448...	70.0	16	2	1641.0	1058.0	-
16	5138...	93.6	16	3	1982.0	1412.0	1342.0

Type 5 Radar Waveform_3

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5822...	79.8	20	2	1407.0	1686.0	-
1	1304...	62.9	20	1	1573.0	-	-
2	2755...	56.7	20	1	1588.0	-	-
3	4186...	83.5	20	3	1219.0	1896.0	1355.0
4	5656...	53.9	20	1	1753.0	-	-
5	1126...	54.9	20	1	1138.0	-	-
6	2564...	84.8	20	3	1811.0	1161.0	1543.0
7	4005...	84.4	20	3	1636.0	1678.0	1590.0
8	5447...	84.6	20	3	1861.0	1262.0	1980.0
9	94426.0	71.0	20	2	1306.0	1881.0	-
10	2388...	84.9	20	3	1183.0	1047.0	1876.0
11	3828...	83.8	20	3	1016.0	1998.0	1810.0
12	5300...	50.6	20	1	1646.0	-	-
13	76503.0	90.0	20	3	1084.0	1808.0	1030.0
14	2210...	87.0	20	3	1024.0	1665.0	1230.0
15	3670...	65.7	20	1	1586.0	-	-
16	5119...	60.5	20	1	1907.0	-	-
17	58930.0	55.0	20	1	1534.0	-	-
18	2032...	99.4	20	3	1205.0	1444.0	1409.0
19	3476...	89.2	20	3	1621.0	1535.0	1099.0

Type 5 Radar Waveform_4

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5496...	54.3	17	1	1251.0	-	-
1	45658.0	63.6	17	1	1046.0	-	-
2	2067...	73.4	17	2	1278.0	1000.0	-
3	3672...	77.7	17	2	1304.0	1973.0	-
4	5296...	64.5	17	1	1434.0	-	-
5	25704.0	74.4	17	2	1036.0	1781.0	-
6	1860...	91.9	17	3	1503.0	1526.0	1967.0
7	3466...	90.4	17	3	1860.0	1339.0	1711.0
8	5095...	55.7	17	1	1669.0	-	-
9	5859.0	95.0	17	3	1585.0	1519.0	1224.0
10	1663...	97.0	17	3	1938.0	1345.0	1685.0
11	3272...	93.9	17	3	1580.0	1057.0	1536.0
12	4891...	69.2	17	2	1150.0	1260.0	-
13	6507...	57.4	17	1	1903.0	-	-
14	1463...	91.1	17	3	1950.0	1878.0	1972.0
15	3080...	80.1	17	2	1720.0	1070.0	-
16	4677...	84.8	17	3	1782.0	1609.0	1312.0
17	6283...	89.3	17	3	1447.0	1990.0	1137.0

Type 5 Radar Waveform_5							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1528...	71.1	14	2	1060.0	1193.0	-
1	3448...	95.1	14	3	1929.0	1984.0	1700.0
2	5378...	96.0	14	3	1954.0	1952.0	1320.0
3	7323...	67.2	14	2	1718.0	1529.0	-
4	1287...	83.9	14	3	1307.0	1064.0	1484.0
5	3217...	96.7	14	3	1874.0	1151.0	1139.0
6	5164...	63.9	14	1	1521.0	-	-
7	7067...	85.7	14	3	1602.0	1831.0	1890.0
8	1048...	97.8	14	3	1505.0	1531.0	1894.0
9	2991...	53.6	14	1	1140.0	-	-
10	4921...	70.1	14	2	1229.0	1088.0	-
11	6856...	67.3	14	2	1087.0	1209.0	-
12	81269.0	75.1	14	2	1538.0	1745.0	-
13	2746...	81.2	14	2	1653.0	1075.0	-
14	4688...	58.0	14	1	1431.0	-	-

Type 5 Radar Waveform_6							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6197...	80.9	15	2	1452.0	1561.0	-
1	53790.0	89.2	15	3	1204.0	1630.0	1443.0
2	2354...	66.1	15	1	1666.0	-	-
3	4149...	89.5	15	3	1999.0	1651.0	1549.0
4	5976...	79.1	15	2	1102.0	1618.0	-
5	31582.0	68.9	15	2	1380.0	1231.0	-
6	2127...	79.6	15	2	1853.0	1039.0	-
7	3945...	63.1	15	1	1732.0	-	-
8	5743...	94.5	15	3	1059.0	1065.0	1883.0
9	9249.0	78.6	15	2	1220.0	1857.0	-
10	1899...	89.6	15	3	1221.0	1841.0	1942.0
11	3715...	74.1	15	2	1962.0	1201.0	-
12	5519...	91.0	15	3	1182.0	1092.0	1787.0
13	7349...	64.6	15	1	1981.0	-	-
14	1677...	93.3	15	3	1494.0	1071.0	1794.0
15	3483...	99.0	15	3	1682.0	1471.0	1867.0

Type 5 Radar Waveform_7							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1064...	56.8	5	1	1598.0	-	-
1	1426...	80.9	5	2	1604.0	1393.0	-
2	2921...	71.2	5	2	1749.0	1483.0	-
3	6543...	83.9	5	3	1779.0	1532.0	1698.0
4	1019...	54.2	5	1	1446.0	-	-
5	1380...	93.2	5	3	1142.0	1389.0	1020.0
6	2470...	87.2	5	3	1812.0	1415.0	1911.0
7	6101...	79.8	5	2	1924.0	1847.0	-

Type 5 Radar Waveform_8							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4316...	76.7	17	2	1640.0	1295.0	-
1	5943...	63.7	17	1	1006.0	-	-
2	89930.0	78.9	17	2	1086.0	1482.0	-
3	2508...	76.6	17	2	1571.0	1279.0	-
4	4109...	88.2	17	3	1145.0	1986.0	1243.0
5	5731...	70.2	17	2	1118.0	1466.0	-
6	69860.0	88.5	17	3	1421.0	1424.0	1905.0
7	2310...	69.8	17	2	1002.0	1901.0	-
8	3927...	65.8	17	1	1645.0	-	-
9	5515...	85.8	17	3	1170.0	1696.0	1727.0
10	50098.0	88.3	17	3	1514.0	1267.0	1815.0
11	2113...	68.2	17	2	1100.0	1277.0	-
12	3720...	74.9	17	2	1273.0	1960.0	-
13	5321...	90.7	17	3	1562.0	1663.0	1001.0
14	30478.0	55.7	17	1	1127.0	-	-
15	1914...	70.4	17	2	1697.0	1116.0	-
16	3515...	91.5	17	3	1497.0	1554.0	1413.0
17	5132...	81.9	17	2	1569.0	1445.0	-

Type 5 Radar Waveform_9							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	8231...	54.1	13	1	1415.0	-	-
1	1749...	50.7	13	1	1221.0	-	-
2	3822...	52.3	13	1	1974.0	-	-
3	5873...	99.8	13	3	1558.0	1696.0	1949.0
4	7968...	68.4	13	2	1014.0	1099.0	-
5	1490...	80.8	13	2	1736.0	1505.0	-
6	3567...	62.5	13	1	1778.0	-	-
7	5638...	74.8	13	2	1149.0	1204.0	-
8	7723...	50.8	13	1	1049.0	-	-
9	1237...	54.0	13	1	1417.0	-	-
10	3312...	63.0	13	1	1730.0	-	-
11	5374...	91.8	13	3	1143.0	1270.0	1347.0
12	7448...	79.3	13	2	1274.0	1992.0	-
13	98172.0	64.3	13	1	1937.0	-	-

Type 5 Radar Waveform_10							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5356...	63.4	6	1	1043.0	-	-
1	8986...	52.0	6	1	1863.0	-	-
2	1259...	97.2	6	3	1973.0	1605.0	1583.0
3	1271...	78.7	6	2	1466.0	1743.0	-
4	4903...	74.2	6	2	1280.0	1219.0	-
5	8524...	88.7	6	3	1293.0	1934.0	1273.0
6	1217...	54.3	6	1	1991.0	-	-
7	82296.0	95.4	6	3	1580.0	1555.0	1791.0

Type 5 Radar Waveform_11							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2092...	73.7	16	2	1208.0	1497.0	-
1	3783...	97.4	16	3	1942.0	1754.0	1613.0
2	5484...	91.7	16	3	1999.0	1702.0	1462.0
3	17733.0	66.2	16	1	1393.0	-	-
4	1879...	70.8	16	2	1968.0	1821.0	-
5	3592...	52.3	16	1	1740.0	-	-
6	5288...	78.9	16	2	1308.0	1984.0	-
7	7001...	70.9	16	2	1050.0	1358.0	-
8	1671...	75.6	16	2	1437.0	1430.0	-
9	3382...	59.1	16	1	1697.0	-	-
10	5083...	77.0	16	2	1397.0	1304.0	-
11	6786...	67.9	16	2	1803.0	1083.0	-
12	1460...	81.2	16	2	1720.0	1932.0	-
13	3169...	78.7	16	2	1247.0	1121.0	-
14	4880...	63.3	16	1	1634.0	-	-
15	6573...	68.9	16	2	1849.0	1423.0	-
16	1255...	59.3	16	1	1093.0	-	-

Type 5 Radar Waveform_12							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2637...	98.9	19	3	1381.0	1680.0	1488.0
1	4164...	82.3	19	2	1716.0	1855.0	-
2	5679...	86.7	19	3	1211.0	1400.0	1919.0
3	92979.0	89.7	19	3	1861.0	1068.0	1282.0
4	2451...	98.6	19	3	1507.0	1194.0	1461.0
5	3976...	71.1	19	2	1921.0	1789.0	-
6	5514...	55.9	19	1	1947.0	-	-
7	74413.0	67.9	19	2	1350.0	1372.0	-
8	2265...	84.4	19	3	1203.0	1107.0	1443.0
9	3800...	58.8	19	1	1715.0	-	-
10	5334...	65.6	19	1	1017.0	-	-
11	55547.0	78.5	19	2	1911.0	1704.0	-
12	2078...	82.3	19	2	1845.0	1686.0	-
13	3597...	90.1	19	3	1938.0	1071.0	1266.0
14	5112...	90.2	19	3	1989.0	1089.0	1950.0
15	36803.0	83.1	19	2	1943.0	1406.0	-
16	1896...	58.8	19	1	1742.0	-	-
17	3418...	77.0	19	2	1187.0	1657.0	-
18	4957...	55.0	19	1	1012.0	-	-

Type 5 Radar Waveform_13							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	22911.0	58.1	13	1	1929.0	-	-
1	2164...	52.1	13	1	1910.0	-	-
2	4100...	59.9	13	1	1971.0	-	-
3	6036...	60.2	13	1	1812.0	-	-
4	7941...	95.9	13	3	1399.0	1906.0	1608.0
5	1922...	79.9	13	2	1626.0	1859.0	-
6	3855...	78.5	13	2	1238.0	1917.0	-
7	5798...	53.8	13	1	1763.0	-	-
8	7734...	64.7	13	1	1800.0	-	-
9	1688...	61.4	13	1	1390.0	-	-
10	3616...	83.2	13	2	1692.0	1858.0	-
11	5538...	84.7	13	3	1533.0	1677.0	1638.0
12	7472...	88.7	13	3	1703.0	1528.0	1058.0
13	1447...	78.3	13	2	1258.0	1951.0	-
14	3378...	69.3	13	2	1731.0	1717.0	-

Type 5 Radar Waveform_14							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6642...	75.3	10	2	1994.0	1612.0	-
1	9078...	56.3	10	1	1456.0	-	-
2	1513...	67.7	10	2	1617.0	1185.0	-
3	3937...	55.6	10	1	1337.0	-	-
4	6350...	75.2	10	2	1421.0	1267.0	-
5	8769...	76.3	10	2	1359.0	1305.0	-
6	1212...	85.7	10	3	1547.0	1362.0	1924.0
7	3626...	98.4	10	3	1873.0	1550.0	1249.0
8	6043...	86.4	10	3	1779.0	1439.0	1046.0
9	8464...	93.6	10	3	1059.0	1031.0	1452.0
10	91871.0	63.3	10	1	1328.0	-	-
11	3330...	92.4	10	3	1412.0	1673.0	1322.0

Type 5 Radar Waveform_15							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3613...	93.3	18	3	1983.0	1912.0	1535.0
1	5152...	69.1	18	2	1102.0	1794.0	-
2	39025.0	86.9	18	3	1044.0	1152.0	1148.0
3	1909...	84.9	18	3	1894.0	1948.0	1118.0
4	3439...	72.3	18	2	1094.0	1916.0	-
5	4976...	51.7	18	1	1447.0	-	-
6	20319.0	58.3	18	1	1429.0	-	-
7	1729...	60.8	18	1	1979.0	-	-
8	3258...	57.1	18	1	1641.0	-	-
9	4758...	88.9	18	3	1886.0	1964.0	1489.0
10	1489.0	72.0	18	2	1909.0	1297.0	-
11	1536...	90.9	18	3	1261.0	1566.0	1370.0
12	3070...	59.8	18	1	1552.0	-	-
13	4588...	70.0	18	2	1759.0	1291.0	-
14	6107...	67.2	18	2	1625.0	1881.0	-
15	1347...	91.2	18	3	1382.0	1832.0	1661.0
16	2883...	56.5	18	1	1483.0	-	-
17	4412...	51.2	18	1	1237.0	-	-
18	5927...	74.1	18	2	1471.0	1245.0	-

Type 5 Radar Waveform_16							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1582...	76.9	12	2	1110.0	1140.0	-
1	3660...	50.2	12	1	1316.0	-	-
2	5734...	62.9	12	1	1520.0	-	-
3	7806...	64.7	12	1	1902.0	-	-
4	1324...	83.8	12	3	1410.0	1097.0	1621.0
5	3402...	65.4	12	1	1944.0	-	-
6	5482...	53.2	12	1	1024.0	-	-
7	7553...	51.7	12	1	1603.0	-	-
8	1071...	78.7	12	2	1804.0	1168.0	-
9	3145...	72.4	12	2	1030.0	1343.0	-
10	5224...	53.8	12	1	1327.0	-	-
11	7285...	73.6	12	2	1524.0	1553.0	-
12	81611.0	66.7	12	2	1722.0	1122.0	-
13	2889...	82.5	12	2	1404.0	1019.0	-

Type 5 Radar Waveform_17							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3457...	87.6	20	3	1565.0	1055.0	1840.0
1	4900...	85.2	20	3	1735.0	1541.0	1408.0
2	39073.0	84.8	20	3	1534.0	1889.0	1463.0
3	1839...	77.9	20	2	1749.0	1460.0	-
4	3287...	76.5	20	2	1518.0	1485.0	-
5	4747...	60.9	20	1	1540.0	-	-
6	21394.0	83.0	20	2	1080.0	1010.0	-
7	1659...	80.4	20	2	1824.0	1752.0	-
8	3109...	67.5	20	2	1764.0	1181.0	-
9	4568...	62.1	20	1	1495.0	-	-
10	3515.0	86.4	20	3	1773.0	1966.0	1263.0
11	1479...	84.3	20	3	1593.0	1188.0	1788.0
12	2932...	76.9	20	2	1226.0	1537.0	-
13	4369...	95.8	20	3	1192.0	1298.0	1844.0
14	5840...	55.2	20	1	1644.0	-	-
15	1308...	59.0	20	1	1402.0	-	-
16	2746...	94.5	20	3	1296.0	1700.0	1283.0
17	4185...	91.9	20	3	1970.0	1978.0	1165.0
18	5634...	85.2	20	3	1732.0	1551.0	1189.0
19	1127...	69.5	20	2	1038.0	1224.0	-

Type 5 Radar Waveform_18							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4292...	86.4	10	3	1259.0	1918.0	1455.0
1	6702...	92.2	10	3	1598.0	1719.0	1895.0
2	9128...	80.4	10	2	1816.0	1899.0	-
3	1586...	54.3	10	1	1335.0	-	-
4	4008...	53.1	10	1	1303.0	-	-
5	6419...	69.4	10	2	1503.0	1546.0	-
6	8838...	69.1	10	2	1279.0	1639.0	-
7	1283...	100.0	10	3	1375.0	1438.0	1595.0
8	3703...	79.6	10	2	1239.0	1705.0	-
9	6111...	88.4	10	3	1374.0	1579.0	1623.0
10	8556...	53.3	10	1	1016.0	-	-
11	98897.0	65.3	10	1	1709.0	-	-

Type 5 Radar Waveform_19							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2921...	55.3	12	1	1920.0	-	-
1	4996...	58.3	12	1	1797.0	-	-
2	7063...	72.3	12	2	1610.0	1039.0	-
3	58989.0	84.8	12	3	1131.0	1761.0	1721.0
4	2661...	82.5	12	2	1875.0	1431.0	-
5	4744...	63.3	12	1	1095.0	-	-
6	6805...	80.0	12	2	1119.0	1913.0	-
7	33519.0	90.3	12	3	1660.0	1853.0	1123.0
8	2403...	91.1	12	3	1539.0	1783.0	1172.0
9	4474...	96.6	12	3	1525.0	1036.0	1385.0
10	6545...	82.7	12	2	1710.0	1990.0	-
11	8083.0	50.7	12	1	1234.0	-	-
12	2154...	78.4	12	2	1047.0	1109.0	-
13	4213...	99.5	12	3	1299.0	1965.0	1869.0

Type 5 Radar Waveform_20							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	7337...	88.6	10	3	1501.0	1067.0	1927.0
1	9778...	57.4	10	1	1723.0	-	-
2	2211...	96.6	10	3	1086.0	1658.0	1324.0
3	4629...	69.7	10	2	1751.0	1945.0	-
4	7050...	77.9	10	2	1642.0	1317.0	-
5	9479...	62.0	10	1	1866.0	-	-
6	1913...	88.4	10	3	1997.0	1077.0	1366.0
7	4325...	97.3	10	3	1790.0	1896.0	1367.0
8	6740...	96.2	10	3	1391.0	1787.0	1672.0
9	9158...	95.4	10	3	1020.0	1892.0	1414.0
10	1621...	54.8	10	1	1084.0	-	-
11	4035...	80.4	10	2	1850.0	1436.0	-

Type 5 Radar Waveform_21							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4834...	74.7	15	2	1619.0	1611.0	-
1	6660...	57.1	15	1	1560.0	-	-
2	98810.0	91.9	15	3	1392.0	1475.0	1276.0
3	2799...	83.1	15	2	1809.0	1772.0	-
4	4625...	50.7	15	1	1003.0	-	-
5	6423...	79.2	15	2	1574.0	1600.0	-
6	76831.0	58.7	15	1	1186.0	-	-
7	2577...	71.0	15	2	1521.0	1567.0	-
8	4385...	79.0	15	2	1777.0	1960.0	-
9	6203...	68.5	15	2	1284.0	1428.0	-
10	54310.0	73.5	15	2	1904.0	1352.0	-
11	2355...	70.5	15	2	1864.0	1115.0	-
12	4170...	76.6	15	2	1045.0	1300.0	-
13	5979...	81.2	15	2	1160.0	1675.0	-
14	32086.0	61.8	15	1	1277.0	-	-
15	2127...	94.9	15	3	1450.0	1206.0	1860.0

Type 5 Radar Waveform_22							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5261...	78.5	9	2	1653.0	1698.0	-
1	7671...	89.8	9	3	1174.0	1962.0	1167.0
2	12955.0	59.4	9	1	1982.0	-	-
3	2546...	79.6	9	2	1633.0	1890.0	-
4	4965...	76.0	9	2	1112.0	1811.0	-
5	7397...	53.6	9	1	1144.0	-	-
6	9808...	80.9	9	2	1220.0	1053.0	-
7	2252...	61.6	9	1	1724.0	-	-
8	4672...	53.4	9	1	1901.0	-	-
9	7097...	59.9	9	1	1379.0	-	-
10	9518...	60.4	9	1	1453.0	-	-
11	1948...	91.4	9	3	1768.0	1726.0	1227.0

Type 5 Radar Waveform_23

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2618...	77.0	20	2	1191.0	1363.0	-
1	4076...	58.1	20	1	1248.0	-	-
2	5523...	62.1	20	1	1836.0	-	-
3	99107.0	76.9	20	2	1334.0	1236.0	-
4	2435...	80.0	20	2	1914.0	1852.0	-
5	3894...	52.0	20	1	1701.0	-	-
6	5310...	88.6	20	3	1693.0	1995.0	1905.0
7	81159.0	72.9	20	2	1922.0	1387.0	-
8	2252...	98.5	20	3	1839.0	1746.0	1389.0
9	3719...	57.9	20	1	1193.0	-	-
10	5141...	95.9	20	3	1659.0	1870.0	1066.0
11	63561.0	53.5	20	1	1162.0	-	-
12	2075...	92.0	20	3	1745.0	1654.0	1458.0
13	3536...	57.3	20	1	1834.0	-	-
14	4975...	70.5	20	2	1684.0	1586.0	-
15	45553.0	70.0	20	2	1042.0	1664.0	-
16	1898...	84.0	20	3	1765.0	1630.0	1176.0
17	3353...	76.1	20	2	1557.0	1057.0	-
18	4788...	93.2	20	3	1985.0	1018.0	1340.0
19	27594.0	96.8	20	3	1760.0	1614.0	1817.0

Type 5 Radar Waveform_24

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2471...	50.1	12	1	1841.0	-	-
1	4533...	93.5	12	3	1590.0	1081.0	1413.0
2	6608...	68.8	12	2	1707.0	1577.0	-
3	14140.0	56.3	12	1	1056.0	-	-
4	2207...	86.0	12	3	1953.0	1108.0	1987.0
5	4283...	75.2	12	2	1572.0	1536.0	-
6	6366...	54.4	12	1	1517.0	-	-
7	8431...	71.1	12	2	1329.0	1243.0	-
8	1955...	76.2	12	2	1940.0	1770.0	-
9	4032...	80.2	12	2	1098.0	1209.0	-
10	6102...	79.7	12	2	1588.0	1214.0	-
11	8152...	90.9	12	3	1615.0	1862.0	1601.0
12	1702...	68.7	12	2	1377.0	1441.0	-
13	3773...	67.4	12	2	1872.0	1313.0	-

Type 5 Radar Waveform_25

Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6280...	94.0	11	3	1643.0	1748.0	1941.0
1	8533...	70.8	11	2	1177.0	1201.0	-
2	1562...	56.3	11	1	1006.0	-	-
3	3787...	96.7	11	3	1230.0	1163.0	1332.0
4	6013...	90.6	11	3	1217.0	1582.0	1498.0
5	8254...	74.5	11	2	1569.0	1281.0	-
6	1282...	92.6	11	3	1065.0	1669.0	1222.0
7	3511...	89.0	11	3	1493.0	1135.0	1380.0
8	5734...	96.5	11	3	1607.0	1822.0	1602.0
9	7984...	70.5	11	2	1141.0	1178.0	-
10	1007...	94.0	11	3	1009.0	1629.0	1956.0
11	3246...	55.8	11	1	1290.0	-	-
12	5462...	87.7	11	3	1435.0	1963.0	1164.0

Type 5 Radar Waveform_26							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1253...	68.6	5	2	1306.0	1161.0	-
1	1194...	83.1	5	2	1420.0	1315.0	-
2	4829...	60.9	5	1	1687.0	-	-
3	8456...	77.7	5	2	1776.0	1158.0	-
4	1208...	77.4	5	2	1793.0	1510.0	-
5	74748.0	66.8	5	2	1576.0	1323.0	-
6	4383...	63.7	5	1	1333.0	-	-
7	8001...	91.2	5	3	1409.0	1681.0	1275.0

Type 5 Radar Waveform_27							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5458...	83.6	16	3	1632.0	1195.0	1000.0
1	14067.0	89.4	16	3	1173.0	1627.0	1656.0
2	1849...	55.8	16	1	1532.0	-	-
3	3537...	90.9	16	3	1981.0	1554.0	1998.0
4	5263...	54.7	16	1	1825.0	-	-
5	6948...	97.7	16	3	1734.0	1202.0	1250.0
6	1635...	67.5	16	2	1571.0	1434.0	-
7	3334...	96.7	16	3	1589.0	1469.0	1268.0
8	5040...	68.3	16	2	1750.0	1954.0	-
9	6752...	78.3	16	2	1591.0	1082.0	-
10	1428...	55.0	16	1	1427.0	-	-
11	3124...	84.9	16	3	1129.0	1936.0	1199.0
12	4829...	74.6	16	2	1959.0	1856.0	-
13	6550...	63.3	16	1	1885.0	-	-
14	1214...	99.8	16	3	1035.0	1515.0	1120.0
15	2926...	63.6	16	1	1647.0	-	-
16	4613...	87.3	16	3	1931.0	1051.0	1831.0

Type 5 Radar Waveform_28							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5651...	85.6	19	3	1946.0	1078.0	1015.0
1	89970.0	68.6	19	2	1029.0	1780.0	-
2	2431...	54.2	19	1	1111.0	-	-
3	3960...	61.2	19	1	1104.0	-	-
4	5462...	97.1	19	3	1157.0	1969.0	1100.0
5	70998.0	98.3	19	3	1142.0	1699.0	1622.0
6	2240...	62.4	19	1	1655.0	-	-
7	3761...	80.2	19	2	1126.0	1769.0	-
8	5278...	87.5	19	3	1216.0	1448.0	1179.0
9	52247.0	85.8	19	3	1847.0	1348.0	1472.0
10	2045...	88.1	19	3	1023.0	1124.0	1631.0
11	3579...	65.3	19	1	1848.0	-	-
12	5109...	52.5	19	1	1470.0	-	-
13	33698.0	52.3	19	1	1312.0	-	-
14	1860...	74.1	19	2	1915.0	1200.0	-
15	3393...	54.9	19	1	1479.0	-	-
16	4910...	76.2	19	2	1376.0	1502.0	-
17	14858.0	60.4	19	1	1758.0	-	-
18	1673...	81.5	19	2	1491.0	1103.0	-

Type 5 Radar Waveform_29							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5077...	50.5	10	1	1857.0	-	-
1	7502...	55.7	10	1	1246.0	-	-
2	9890...	85.8	10	3	1774.0	1002.0	1967.0
3	2356...	76.9	10	2	1125.0	1474.0	-
4	4776...	75.1	10	2	1254.0	1052.0	-
5	7183...	92.3	10	3	1180.0	1486.0	1492.0
6	9608...	78.1	10	2	1301.0	1757.0	-
7	2053...	92.2	10	3	1898.0	1252.0	1713.0
8	4469...	89.0	10	3	1260.0	1706.0	1411.0
9	6892...	70.9	10	2	1578.0	1620.0	-
10	9323...	63.1	10	1	1782.0	-	-
11	1762...	55.3	10	1	1522.0	-	-

Type 5 Radar Waveform_30							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2774...	83.4	17	3	1454.0	1205.0	1801.0
1	4378...	97.3	17	3	1319.0	1826.0	1635.0
2	5984...	90.4	17	3	1079.0	1986.0	1674.0
3	97088.0	91.8	17	3	1563.0	1151.0	1802.0
4	2572...	98.2	17	3	1876.0	1977.0	1766.0
5	4198...	59.5	17	1	1952.0	-	-
6	5807...	80.0	17	2	1253.0	1137.0	-
7	77366.0	86.5	17	3	1054.0	1128.0	1828.0
8	2380...	91.1	17	3	1105.0	1599.0	1442.0
9	3986...	93.5	17	3	1867.0	1373.0	1087.0
10	5620...	60.7	17	1	1033.0	-	-
11	57684.0	67.2	17	2	1288.0	1405.0	-
12	2190...	61.8	17	1	1585.0	-	-
13	3792...	79.4	17	2	1933.0	1667.0	-
14	5408...	81.4	17	2	1096.0	1464.0	-
15	37916.0	65.7	17	1	1496.0	-	-
16	1987...	76.0	17	2	1733.0	1255.0	-
17	3597...	81.0	17	2	1326.0	1668.0	-

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Hopping Number	1=Detection 0=No Detection
1	5574.0	22.0	1
2	5554.0	15.0	1
3	5529.0	17.0	1
4	5518.0	22.0	1
5	5522.0	18.0	1
6	5502.0	19.0	1
7	5528.0	17.0	1
8	5505.0	17.0	1
9	5499.0	23.0	1
10	5550.0	21.0	1
11	5502.0	19.0	1
12	5528.0	26.0	1
13	5560.0	20.0	1
14	5577.0	22.0	1
15	5490.0	20.0	1
16	5504.0	23.0	1
17	5520.0	20.0	1
18	5568.0	25.0	1
19	5572.0	15.0	1
20	5530.0	17.0	1
21	5518.0	24.0	1
22	5564.0	24.0	1
23	5508.0	26.0	1
24	5555.0	20.0	1
25	5499.0	19.0	1
26	5487.0	17.0	1
27	5516.0	16.0	1
28	5564.0	21.0	1
29	5569.0	22.0	1
30	5522.0	23.0	1
Detection Percentage (%)			100%

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2021/01/28	Test Item	Radar Statistical Performance Check (802.11ac-VHT80 mode – 5530MHz)

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5559.0	1.0	778	68	1
2	5540.0	1.0	798	67	1
3	5538.0	1.0	838	63	1
4	5527.0	1.0	938	57	1
5	5572.0	1.0	598	89	1
6	5509.0	1.0	878	61	1
7	5524.0	1.0	918	58	1
8	5535.0	1.0	758	70	1
9	5554.0	1.0	858	62	1
10	5509.0	1.0	618	86	1
11	5494.0	1.0	818	65	1
12	5553.0	1.0	538	99	1
13	5563.0	1.0	658	81	1
14	5528.0	1.0	718	74	1
15	5532.0	1.0	698	76	1
16	5552.0	1.0	1622	33	1
17	5520.0	1.0	1679	32	1
18	5513.0	1.0	1372	39	1
19	5571.0	1.0	2823	19	1
20	5526.0	1.0	2836	19	1
21	5557.0	1.0	2586	21	1
22	5504.0	1.0	1522	35	1
23	5512.0	1.0	2900	19	1
24	5558.0	1.0	2612	21	1
25	5548.0	1.0	869	61	1
26	5525.0	1.0	2152	25	1
27	5489.0	1.0	1713	31	1
28	5530.0	1.0	1402	38	1
29	5494.0	1.0	1344	40	1
30	5504.0	1.0	2522	21	1

Detection Percentage (%)	100%
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Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5554.0	4.8	224	29	1
2	5562.0	2.7	194	25	1
3	5535.0	2.0	206	24	1
4	5576.0	3.2	229	26	1
5	5535.0	1.6	215	24	1
6	5529.0	4.2	193	28	1
7	5523.0	3.3	218	27	1
8	5576.0	2.1	228	24	1
9	5539.0	4.6	191	29	1
10	5563.0	1.1	156	23	1
11	5491.0	1.5	220	23	1
12	5537.0	1.2	152	23	1
13	5553.0	4.1	208	28	1
14	5556.0	5.0	180	29	1
15	5571.0	2.2	192	25	1
16	5529.0	5.0	212	29	1
17	5518.0	3.5	151	27	1
18	5498.0	4.0	185	28	1
19	5496.0	2.3	181	25	1
20	5542.0	3.4	209	27	1
21	5559.0	2.0	176	24	1
22	5574.0	3.9	196	28	1
23	5545.0	3.8	165	27	1
24	5570.0	4.2	168	28	1
25	5565.0	3.3	157	26	1
26	5538.0	1.2	169	23	1
27	5577.0	4.5	161	29	1
28	5567.0	3.1	201	26	1
29	5512.0	1.5	164	23	1
30	5573.0	1.2	226	23	1
Detection Percentage (%)					100%

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5546.0	9.8	315	18	1
2	5530.0	7.7	492	17	1
3	5553.0	7.0	279	16	1
4	5534.0	8.2	385	17	1
5	5510.0	6.6	475	16	1
6	5552.0	9.2	244	18	1
7	5504.0	8.3	310	17	1
8	5482.0	7.1	360	16	1
9	5532.0	9.6	470	18	1
10	5493.0	6.1	392	16	1
11	5533.0	6.5	269	16	1
12	5542.0	6.2	299	16	1
13	5570.0	9.1	254	18	1
14	5491.0	10.0	468	18	1
15	5577.0	7.2	210	16	1
16	5555.0	10.0	245	18	1
17	5493.0	8.5	370	17	1
18	5575.0	9.0	327	18	1
19	5489.0	7.3	441	16	1
20	5492.0	8.4	294	17	1
21	5496.0	7.0	422	16	1
22	5528.0	8.9	377	18	1
23	5563.0	8.8	231	18	1
24	5482.0	9.2	474	18	0
25	5574.0	8.3	242	17	1
26	5567.0	6.2	495	16	1
27	5482.0	9.5	396	18	1
28	5563.0	8.1	325	17	1
29	5576.0	6.5	239	16	1
30	5555.0	6.2	375	16	1
Detection Percentage (%)					96.7%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5504.0	19.5	315	16	1
2	5498.0	14.7	492	14	1
3	5505.0	13.2	279	13	1
4	5560.0	16.1	385	14	1
5	5516.0	12.4	475	12	1
6	5569.0	18.1	244	15	1
7	5487.0	16.2	310	14	1
8	5483.0	13.5	360	13	1
9	5505.0	19.1	470	16	1
10	5486.0	11.4	392	12	1
11	5561.0	12.1	269	12	1
12	5537.0	11.4	299	12	1
13	5516.0	17.9	254	15	1
14	5482.0	19.9	468	16	1
15	5483.0	13.7	210	13	1
16	5489.0	20.0	245	16	1
17	5572.0	16.5	370	15	1
18	5518.0	17.8	327	15	1
19	5492.0	13.9	441	13	1
20	5577.0	16.3	294	14	1
21	5557.0	13.3	422	13	1
22	5543.0	17.5	377	15	1
23	5507.0	17.4	231	15	1
24	5522.0	18.2	474	15	1
25	5500.0	16.1	242	14	1
26	5512.0	11.6	495	12	1
27	5483.0	18.8	396	16	1
28	5528.0	15.8	325	14	1
29	5541.0	12.1	239	12	1
30	5519.0	11.6	375	12	1
Detection Percentage (%)					100%

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

waveforms is as follows:
$$\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 100\% + 96.7\% + 100\%) / 4 = 99.2\% (>80\%)$$

Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5530.0	1	16	5500.0	1
2	5530.0	1	17	5497.6	1
3	5530.0	1	18	5498.4	1
4	5530.0	1	19	5496.0	1
5	5530.0	1	20	5497.6	1
6	5530.0	1	21	5564.4	1
7	5530.0	1	22	5561.6	1
8	5530.0	1	23	5561.6	1
9	5530.0	1	24	5561.2	1
10	5530.0	1	25	5562.8	1
11	5494.4	1	26	5565.6	1
12	5494.0	1	27	5560.8	1
13	5498.8	1	28	5562.8	1
14	5500.0	1	29	5565.6	1
15	5495.6	1	30	5565.6	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1054...	96.8	19	3	1845.0	1194.0	1335.0
1	2504...	70.8	19	2	1055.0	1995.0	-
2	3959...	62.5	19	1	1988.0	-	-
3	5400...	78.0	19	2	1110.0	1948.0	-
4	88142.0	58.0	19	1	1176.0	-	-
5	2322...	89.5	19	3	1228.0	1317.0	1421.0
6	3770...	78.9	19	2	1938.0	1742.0	-
7	5235...	64.1	19	1	1508.0	-	-
8	69905.0	94.9	19	3	1807.0	1216.0	1119.0
9	2153...	52.3	19	1	1445.0	-	-
10	3606...	56.1	19	1	1226.0	-	-
11	5058...	52.5	19	1	1287.0	-	-
12	52030.0	88.4	19	3	1677.0	1692.0	1624.0
13	1965...	99.1	19	3	1595.0	1798.0	1003.0
14	3427...	65.0	19	1	1395.0	-	-
15	4857...	99.6	19	3	1367.0	1040.0	1656.0
16	34377.0	80.6	19	2	1336.0	1525.0	-
17	1785...	87.5	19	3	1332.0	1685.0	2000.0
18	3246...	66.3	19	1	1640.0	-	-
19	4682...	79.5	19	2	1732.0	1912.0	-

Type 5 Radar Waveform_2							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	25533.0	62.8	11	1	1133.0	-	-
1	2481...	86.2	11	3	1612.0	1492.0	1838.0
2	4711...	85.2	11	3	1312.0	1199.0	1716.0
3	6941...	89.7	11	3	1025.0	1873.0	1193.0
4	9182...	78.1	11	2	1180.0	1686.0	-
5	2215...	53.5	11	1	1380.0	-	-
6	4432...	93.2	11	3	1848.0	1558.0	1772.0
7	6672...	76.4	11	2	1898.0	1400.0	-
8	8920...	56.2	11	1	1443.0	-	-
9	1940...	53.3	11	1	1107.0	-	-
10	4174...	61.3	11	1	1553.0	-	-
11	6384...	99.8	11	3	1811.0	1441.0	1916.0
12	8620...	86.7	11	3	1338.0	1413.0	1410.0

Type 5 Radar Waveform_3							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1963...	82.2	8	2	1825.0	1809.0	-
1	4595...	86.6	8	3	1578.0	1389.0	1788.0
2	7253...	52.8	8	1	1296.0	-	-
3	9857...	93.4	8	3	1869.0	1797.0	1841.0
4	1642...	50.3	8	1	1425.0	-	-
5	4281...	76.0	8	2	1082.0	1231.0	-
6	6908...	92.7	8	3	1777.0	1427.0	1113.0
7	9532...	96.5	8	3	1972.0	1958.0	1679.0
8	1314...	69.9	8	2	1776.0	1166.0	-
9	3955...	72.1	8	2	1102.0	1207.0	-
10	6586...	84.4	8	3	1722.0	1026.0	1059.0

Type 5 Radar Waveform_4							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6771...	60.6	13	1	1936.0	-	-
1	72507.0	71.6	13	2	1650.0	1398.0	-
2	2652...	93.5	13	3	1863.0	1559.0	1202.0
3	4602...	54.2	13	1	1064.0	-	-
4	6505...	94.5	13	3	1617.0	1793.0	1900.0
5	48728.0	82.5	13	2	1337.0	1232.0	-
6	2414...	98.6	13	3	1014.0	1933.0	1771.0
7	4345...	91.1	13	3	1261.0	1743.0	1361.0
8	6281...	87.1	13	3	1129.0	1029.0	1384.0
9	24907.0	67.5	13	2	1328.0	1197.0	-
10	2185...	54.5	13	1	1635.0	-	-
11	4120...	60.5	13	1	1989.0	-	-
12	6031...	85.7	13	3	1889.0	1960.0	1371.0
13	1082.0	72.9	13	2	1310.0	1319.0	-
14	1940...	100.0	13	3	1523.0	1810.0	1114.0

Type 5 Radar Waveform_5							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5830...	54.5	7	1	1444.0	-	-
1	8708...	96.3	7	3	1984.0	1564.0	1778.0
2	1164...	52.4	7	1	1282.0	-	-
3	2563...	57.9	7	1	1966.0	-	-
4	5460...	91.6	7	3	1063.0	1575.0	1325.0
5	8358...	91.1	7	3	1874.0	1447.0	1013.0
6	1128...	56.4	7	1	1488.0	-	-
7	2206...	65.9	7	1	1586.0	-	-
8	5112...	56.1	7	1	1844.0	-	-
9	8017...	62.5	7	1	1899.0	-	-

Type 5 Radar Waveform_6							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6066...	62.2	17	1	1283.0	-	-
1	1025...	56.1	17	1	1805.0	-	-
2	2634...	80.3	17	2	1322.0	1454.0	-
3	4252...	61.4	17	1	1481.0	-	-
4	5850...	73.7	17	2	1538.0	1672.0	-
5	82567.0	83.0	17	2	1545.0	1359.0	-
6	2427...	92.9	17	3	1499.0	1736.0	1834.0
7	4056...	64.1	17	1	1067.0	-	-
8	5663...	50.8	17	1	1902.0	-	-
9	62702.0	79.0	17	2	1489.0	1789.0	-
10	2241...	56.4	17	1	1699.0	-	-
11	3857...	60.0	17	1	1103.0	-	-
12	5450...	89.0	17	3	1100.0	1318.0	1321.0
13	42958.0	82.0	17	2	1006.0	1125.0	-
14	2037...	73.7	17	2	1763.0	1542.0	-
15	3654...	54.7	17	1	1876.0	-	-
16	5259...	70.2	17	2	1424.0	1374.0	-
17	23138.0	62.6	17	1	1172.0	-	-

Type 5 Radar Waveform_7							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2210...	69.1	14	2	1468.0	1211.0	-
1	4142...	77.7	14	2	1626.0	1527.0	-
2	6076...	76.0	14	2	1375.0	1530.0	-
3	3902.0	67.2	14	2	1106.0	1739.0	-
4	1970...	70.5	14	2	1607.0	1819.0	-
5	3912...	50.3	14	1	1493.0	-	-
6	5844...	71.5	14	2	1058.0	1023.0	-
7	7746...	96.4	14	3	2000.0	1799.0	1755.0
8	1730...	94.1	14	3	1741.0	1218.0	1484.0
9	3673...	62.0	14	1	1569.0	-	-
10	5595...	80.6	14	2	1582.0	1973.0	-
11	7528...	93.3	14	3	1249.0	1049.0	1121.0
12	1497...	54.1	14	1	1987.0	-	-
13	3435...	55.7	14	1	1327.0	-	-
14	5354...	87.3	14	3	1268.0	1150.0	1591.0

Type 5 Radar Waveform_8							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	9951...	91.7	9	3	1259.0	1363.0	1001.0
1	1715...	82.2	9	2	1985.0	1713.0	-
2	4355...	76.4	9	2	1757.0	1167.0	-
3	6992...	68.2	9	2	1634.0	1577.0	-
4	9631...	79.7	9	2	1419.0	1729.0	-
5	1393...	63.3	9	1	1688.0	-	-
6	4023...	84.5	9	3	1829.0	1562.0	1333.0
7	6679...	61.6	9	1	1201.0	-	-
8	9287...	96.4	9	3	1618.0	1871.0	1875.0
9	1064...	84.8	9	3	1826.0	1872.0	1887.0
10	3698...	93.9	9	3	1540.0	1392.0	1993.0

Type 5 Radar Waveform_9							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3656...	93.6	19	3	1689.0	1507.0	1402.0
1	5185...	94.6	19	3	1015.0	1479.0	1035.0
2	42945.0	57.3	19	1	1698.0	-	-
3	1951...	70.5	19	2	1910.0	1541.0	-
4	3469...	84.3	19	3	1188.0	1616.0	1590.0
5	4991...	86.8	19	3	1511.0	1561.0	1311.0
6	24075.0	70.8	19	2	1148.0	1928.0	-
7	1759...	93.8	19	3	1747.0	1840.0	1518.0
8	3282...	96.8	19	3	1343.0	1764.0	1341.0
9	4817...	78.5	19	2	1290.0	1280.0	-
10	5285.0	86.6	19	3	1991.0	1399.0	1393.0
11	1574...	95.1	19	3	1606.0	1659.0	1000.0
12	3093...	85.7	19	3	1603.0	1882.0	1275.0
13	4627...	80.0	19	2	1173.0	1718.0	-
14	6133...	90.0	19	3	1584.0	1285.0	1937.0
15	1390...	77.3	19	2	1254.0	1266.0	-
16	2907...	89.0	19	3	1579.0	1482.0	1394.0
17	4434...	80.9	19	2	1944.0	1669.0	-
18	5944...	83.6	19	3	1439.0	1676.0	1835.0

Type 5 Radar Waveform_10							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2865...	57.5	5	1	1158.0	-	-
1	6492...	74.8	5	2	1373.0	1883.0	-
2	1013...	50.6	5	1	1552.0	-	-
3	1375...	72.7	5	2	1042.0	1476.0	-
4	2411...	97.3	5	3	1535.0	1907.0	1904.0
5	6036...	99.8	5	3	1521.0	1906.0	1827.0
6	9672...	97.4	5	3	1187.0	1080.0	1340.0
7	1329...	86.5	5	3	1614.0	1214.0	1888.0

Type 5 Radar Waveform_11							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1747...	90.6	6	3	1146.0	1532.0	1704.0
1	4968...	99.3	6	3	1641.0	1648.0	1600.0
2	8189...	84.7	6	3	1816.0	1929.0	1300.0
3	1144...	66.0	6	1	1345.0	-	-
4	1351...	79.7	6	2	1703.0	1031.0	-
5	4575...	82.4	6	2	1930.0	1920.0	-
6	7802...	76.6	6	2	1999.0	1370.0	-
7	1104...	56.7	6	1	1547.0	-	-
8	95416.0	76.9	6	2	1277.0	1589.0	-

Type 5 Radar Waveform_12							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4701...	89.1	5	3	1221.0	1565.0	1248.0
1	8335...	73.5	5	2	1406.0	1512.0	-
2	1196...	77.8	5	2	1774.0	1147.0	-
3	62564.0	93.8	5	3	1557.0	1723.0	1474.0
4	4256...	72.5	5	2	1486.0	1864.0	-
5	7893...	60.3	5	1	1867.0	-	-
6	1152...	59.0	5	1	1539.0	-	-
7	17938.0	58.8	5	1	1143.0	-	-

Type 5 Radar Waveform_13							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1791...	55.1	17	1	1891.0	-	-
1	3487...	87.2	17	3	1824.0	1334.0	1094.0
2	5187...	90.7	17	3	1599.0	1204.0	1593.0
3	6892...	88.3	17	3	1079.0	1909.0	1071.0
4	1576...	89.7	17	3	1033.0	1455.0	1636.0
5	3276...	86.1	17	3	1858.0	1170.0	1529.0
6	4974...	95.6	17	3	1356.0	1791.0	1813.0
7	6691...	80.8	17	2	1517.0	1678.0	-
8	1372...	62.8	17	1	1027.0	-	-
9	3072...	77.3	17	2	1660.0	1675.0	-
10	4772...	69.0	17	2	1837.0	1945.0	-
11	6474...	92.9	17	3	1693.0	1053.0	1141.0
12	1159...	71.8	17	2	1130.0	1773.0	-
13	2870...	60.0	17	1	1250.0	-	-
14	4564...	70.7	17	2	1998.0	1556.0	-
15	6252...	86.9	17	3	1765.0	1975.0	1615.0
16	95048.0	50.3	17	1	1832.0	-	-

Type 5 Radar Waveform_14							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2251...	80.3	20	2	1833.0	1923.0	-
1	3690...	94.5	20	3	1781.0	1566.0	1469.0
2	5158...	62.1	20	1	1951.0	-	-
3	62907.0	62.5	20	1	1613.0	-	-
4	2082...	56.9	20	1	1096.0	-	-
5	3529...	62.6	20	1	1946.0	-	-
6	4981...	59.0	20	1	1821.0	-	-
7	44947.0	73.2	20	2	1056.0	1668.0	-
8	1900...	63.0	20	1	1963.0	-	-
9	3338...	88.3	20	3	1018.0	1267.0	1935.0
10	4806...	65.4	20	1	1378.0	-	-
11	27149.0	53.1	20	1	1726.0	-	-
12	1712...	89.9	20	3	1859.0	1448.0	1955.0
13	3161...	85.1	20	3	1622.0	1165.0	1223.0
14	4625...	64.4	20	1	1563.0	-	-
15	9251.0	91.7	20	3	1037.0	1271.0	1075.0
16	1543...	63.8	20	1	1892.0	-	-
17	2977...	92.2	20	3	1504.0	1609.0	1990.0
18	4449...	62.6	20	1	1203.0	-	-
19	5898...	56.6	20	1	1551.0	-	-

Type 5 Radar Waveform_15							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2479...	98.2	9	3	1500.0	1349.0	1451.0
1	5126...	50.9	9	1	1818.0	-	-
2	7767...	63.2	9	1	1820.0	-	-
3	1038...	89.2	9	3	1241.0	1403.0	1842.0
4	2152...	85.3	9	3	1865.0	1503.0	1921.0
5	4798...	66.8	9	2	1352.0	1032.0	-
6	7443...	55.1	9	1	1651.0	-	-
7	1008...	57.6	9	1	1884.0	-	-
8	1834...	63.8	9	1	1608.0	-	-
9	4477...	55.1	9	1	1288.0	-	-
10	7112...	79.1	9	2	1196.0	1377.0	-

Type 5 Radar Waveform_16							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5366...	52.8	20	1	1078.0	-	-
1	82524.0	90.9	20	3	1431.0	1783.0	1115.0
2	2268...	93.5	20	3	1152.0	1721.0	1745.0
3	3709...	92.2	20	3	1870.0	1979.0	1316.0
4	5183...	65.9	20	1	1574.0	-	-
5	64697.0	97.0	20	3	1409.0	1379.0	1830.0
6	2090...	96.4	20	3	1339.0	1996.0	1472.0
7	3542...	98.3	20	3	1070.0	1104.0	1209.0
8	4992...	74.5	20	2	1674.0	1307.0	-
9	47062.0	81.6	20	2	1516.0	1183.0	-
10	1923...	65.1	20	1	1428.0	-	-
11	3369...	76.6	20	2	1414.0	1086.0	-
12	4798...	97.8	20	3	1974.0	1843.0	1145.0
13	29213.0	80.1	20	2	1495.0	1305.0	-
14	1737...	77.7	20	2	1943.0	1905.0	-
15	3188...	72.9	20	2	1252.0	1631.0	-
16	4622...	92.2	20	3	1896.0	1645.0	1219.0
17	11402.0	54.5	20	1	1236.0	-	-
18	1566...	51.2	20	1	1126.0	-	-
19	3014...	57.9	20	1	1970.0	-	-

Type 5 Radar Waveform_17							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5950...	67.9	14	2	1927.0	1116.0	-
1	7901...	58.1	14	1	1156.0	-	-
2	1846...	80.3	14	2	1195.0	1785.0	-
3	3787...	52.1	14	1	1256.0	-	-
4	5708...	79.4	14	2	1866.0	1760.0	-
5	7646...	81.3	14	2	1860.0	1043.0	-
6	1607...	72.9	14	2	1697.0	1918.0	-
7	3542...	77.3	14	2	1462.0	1411.0	-
8	5471...	90.1	14	3	1353.0	1008.0	1118.0
9	7418...	57.5	14	1	1855.0	-	-
10	1373...	51.4	14	1	1473.0	-	-
11	3309...	59.3	14	1	1442.0	-	-
12	5247...	57.9	14	1	1344.0	-	-
13	7182...	59.1	14	1	1515.0	-	-
14	1135...	62.6	14	1	1099.0	-	-

Type 5 Radar Waveform_18							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2710...	62.2	16	1	1140.0	-	-
1	4397...	96.5	16	3	1925.0	1505.0	1292.0
2	6103...	92.9	16	3	1437.0	1198.0	1483.0
3	78754.0	98.6	16	3	1245.0	1240.0	1501.0
4	2491...	94.7	16	3	1301.0	1011.0	1076.0
5	4199...	67.5	16	2	1272.0	1571.0	-
6	5894...	93.9	16	3	1065.0	1728.0	1159.0
7	57674.0	88.1	16	3	1683.0	1657.0	1992.0
8	2284...	75.1	16	2	1142.0	1592.0	-
9	3985...	83.1	16	2	1762.0	1611.0	-
10	5693...	74.3	16	2	1440.0	1416.0	-
11	36930.0	65.4	16	1	1817.0	-	-
12	2077...	59.0	16	1	1601.0	-	-
13	3784...	57.5	16	1	1849.0	-	-
14	5472...	94.0	16	3	1109.0	1519.0	1727.0
15	15905.0	62.9	16	1	1449.0	-	-
16	1867...	53.1	16	1	1422.0	-	-

Type 5 Radar Waveform_19							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5070...	62.6	10	1	1243.0	-	-
1	7465...	97.2	10	3	1205.0	1997.0	1694.0
2	9914...	61.2	10	1	1233.0	-	-
3	2341...	94.8	10	3	1215.0	1630.0	1587.0
4	4772...	60.6	10	1	1101.0	-	-
5	7170...	91.4	10	3	1596.0	1415.0	1560.0
6	9617...	62.8	10	1	1162.0	-	-
7	2045...	84.6	10	3	1024.0	1939.0	1108.0
8	4463...	74.0	10	2	1759.0	1598.0	-
9	6883...	69.1	10	2	1408.0	1658.0	-
10	9314...	58.2	10	1	1633.0	-	-
11	1750...	67.0	10	2	1238.0	1262.0	-

Type 5 Radar Waveform_20							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3332...	80.2	14	2	1696.0	1178.0	-
1	5271...	55.7	14	1	1931.0	-	-
2	7197...	68.7	14	2	1583.0	1435.0	-
3	1158...	88.7	14	3	1066.0	1903.0	1555.0
4	3090...	67.5	14	2	1941.0	1846.0	-
5	5037...	65.4	14	1	1260.0	-	-
6	6963...	76.5	14	2	1169.0	1390.0	-
7	92048.0	99.4	14	3	1348.0	1711.0	1628.0
8	2860...	55.9	14	1	1548.0	-	-
9	4795...	56.5	14	1	1737.0	-	-
10	6715...	90.5	14	3	1324.0	1054.0	1299.0
11	68473.0	74.0	14	2	1418.0	1122.0	-
12	2615...	70.1	14	2	1740.0	1731.0	-
13	4560...	55.1	14	1	1247.0	-	-
14	6479...	69.0	14	2	1853.0	1637.0	-

Type 5 Radar Waveform_21							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	60985.0	55.1	9	1	1687.0	-	-
1	3252...	65.8	9	1	1498.0	-	-
2	5896...	63.9	9	1	1175.0	-	-
3	8520...	69.7	9	2	1908.0	1665.0	-
4	28382.0	96.1	9	3	1815.0	1182.0	1097.0
5	2918...	94.6	9	3	1357.0	1769.0	1588.0
6	5553...	98.4	9	3	1533.0	1667.0	1315.0
7	8183...	96.8	9	3	1429.0	1922.0	1787.0
8	1085...	60.8	9	1	1200.0	-	-
9	2594...	98.0	9	3	1253.0	1430.0	1780.0
10	5236...	67.8	9	2	1168.0	1756.0	-

Type 5 Radar Waveform_22							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5100...	51.6	16	1	1171.0	-	-
1	6810...	55.0	16	1	1163.0	-	-
2	1468...	80.0	16	2	1758.0	1004.0	-
3	3180...	63.9	16	1	1350.0	-	-
4	4875...	70.7	16	2	1386.0	1880.0	-
5	6564...	98.5	16	3	1977.0	1407.0	1572.0
6	1254...	85.7	16	3	1304.0	1983.0	1969.0
7	2966...	71.0	16	2	1276.0	1010.0	-
8	4659...	95.0	16	3	1412.0	1828.0	1072.0
9	6375...	77.4	16	2	1366.0	1303.0	-
10	1050...	55.5	16	1	1768.0	-	-
11	2753...	76.8	16	2	1452.0	1524.0	-
12	4447...	91.6	16	3	1192.0	1971.0	1383.0
13	6148...	92.2	16	3	1954.0	1546.0	1127.0
14	83881.0	67.4	16	2	1160.0	1463.0	-
15	2550...	63.6	16	1	1047.0	-	-
16	4232...	97.2	16	3	1911.0	1654.0	1924.0

Type 5 Radar Waveform_23							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5963...	56.0	16	1	1702.0	-	-
1	62971.0	56.7	16	1	1510.0	-	-
2	2329...	87.2	16	3	1391.0	1372.0	1179.0
3	4033...	74.7	16	2	1708.0	1968.0	-
4	5751...	55.4	16	1	1850.0	-	-
5	41833.0	72.3	16	2	1961.0	1154.0	-
6	2127...	57.7	16	1	1456.0	-	-
7	3827...	68.8	16	2	1083.0	1976.0	-
8	5544...	60.1	16	1	1522.0	-	-
9	20797.0	99.4	16	3	1952.0	1536.0	1045.0
10	1916...	62.1	16	1	1610.0	-	-
11	3619...	72.5	16	2	1364.0	1270.0	-
12	5321...	81.8	16	2	1767.0	1385.0	-
13	7041...	58.9	16	1	1627.0	-	-
14	1707...	57.8	16	1	1155.0	-	-
15	3403...	90.7	16	3	1714.0	1044.0	1174.0
16	5095...	99.7	16	3	1812.0	1597.0	1949.0

Type 5 Radar Waveform_24							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	6449...	63.7	17	1	1684.0	-	-
1	1408...	71.4	17	2	1953.0	1733.0	-
2	3015...	69.3	17	2	1994.0	1914.0	-
3	4615...	92.0	17	3	1581.0	1663.0	1652.0
4	6220...	85.9	17	3	1734.0	1273.0	1957.0
5	1209...	92.0	17	3	1550.0	1061.0	1753.0
6	2817...	88.4	17	3	1487.0	1041.0	1313.0
7	4413...	99.1	17	3	1646.0	1947.0	1978.0
8	6053...	60.2	17	1	1534.0	-	-
9	1012...	91.6	17	3	1030.0	1291.0	1052.0
10	2617...	99.6	17	3	1724.0	1465.0	1135.0
11	4225...	89.0	17	3	1450.0	1605.0	1112.0
12	5842...	72.3	17	2	1509.0	1485.0	-
13	81486.0	77.5	17	2	1446.0	1715.0	-
14	2422...	78.7	17	2	1878.0	1782.0	-
15	4031...	80.9	17	2	1919.0	1602.0	-
16	5655...	51.1	17	1	1629.0	-	-
17	61516.0	90.8	17	3	1347.0	1706.0	1705.0

Type 5 Radar Waveform_25							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2679...	54.1	13	1	1217.0	-	-
1	4616...	60.7	13	1	1320.0	-	-
2	6528...	93.2	13	3	1213.0	1528.0	1621.0
3	50137.0	96.3	13	3	1354.0	1700.0	1913.0
4	2437...	82.8	13	2	1060.0	1420.0	-
5	4366...	72.3	13	2	1567.0	1744.0	-
6	6295...	95.2	13	3	1124.0	1073.0	1573.0
7	26509.0	60.6	13	1	1257.0	-	-
8	2194...	99.2	13	3	1323.0	1351.0	1436.0
9	4130...	73.5	13	2	1897.0	1138.0	-
10	6053...	98.5	13	3	1230.0	1222.0	1854.0
11	2646...	63.1	13	1	1666.0	-	-
12	1959...	68.4	13	2	1625.0	1480.0	-
13	3880...	97.8	13	3	1932.0	1664.0	1885.0
14	5818...	86.1	13	3	1623.0	1298.0	1068.0

Type 5 Radar Waveform_26							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1456...	92.0	6	3	1039.0	1926.0	1093.0
1	3233...	78.4	6	2	1087.0	1752.0	-
2	6860...	96.0	6	3	1019.0	1149.0	1643.0
3	1048...	94.3	6	3	1331.0	1302.0	1862.0
4	1414...	55.1	6	1	1120.0	-	-
5	2786...	70.2	6	2	1457.0	1028.0	-
6	6423...	64.8	6	1	1368.0	-	-
7	1003...	98.9	6	3	1314.0	1647.0	1879.0

Type 5 Radar Waveform_27							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	5744...	75.6	18	2	1632.0	1234.0	-
1	97909.0	95.2	18	3	1681.0	1387.0	1786.0
2	2506...	80.7	18	2	1237.0	1868.0	-
3	4039...	58.2	18	1	1673.0	-	-
4	5549...	79.9	18	2	1720.0	1980.0	-
5	79331.0	87.8	18	3	1189.0	1151.0	1365.0
6	2320...	71.8	18	2	1005.0	1417.0	-
7	3828...	83.5	18	3	1901.0	1638.0	1877.0
8	5357...	91.6	18	3	1779.0	1092.0	1294.0
9	60691.0	80.7	18	2	1184.0	1308.0	-
10	2133...	68.2	18	2	1157.0	1077.0	-
11	3663...	53.7	18	1	1661.0	-	-
12	5178...	80.0	18	2	1181.0	1982.0	-
13	41940.0	56.4	18	1	1856.0	-	-
14	1944...	67.5	18	2	1186.0	1397.0	-
15	3466...	88.7	18	3	1123.0	1051.0	1091.0
16	4976...	97.1	18	3	1568.0	1836.0	1513.0
17	23036.0	96.9	18	3	1438.0	1490.0	1405.0
18	1757...	75.2	18	2	1284.0	1105.0	-

Type 5 Radar Waveform_28							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	4443...	92.8	13	3	1981.0	1852.0	1670.0
1	6543...	64.9	13	1	1002.0	-	-
2	5861.0	50.5	13	1	1655.0	-	-
3	2127...	97.2	13	3	1520.0	1293.0	1396.0
4	4204...	73.2	13	2	1137.0	1263.0	-
5	6284...	51.8	13	1	1401.0	-	-
6	8357...	52.8	13	1	1649.0	-	-
7	1874...	80.4	13	2	1346.0	1754.0	-
8	3939...	99.2	13	3	1021.0	1881.0	1502.0
9	6020...	82.7	13	2	1585.0	1090.0	-
10	8069...	86.6	13	3	1466.0	1857.0	1775.0
11	1615...	96.0	13	3	1934.0	1212.0	1962.0
12	3693...	70.5	13	2	1164.0	1330.0	-
13	5753...	89.4	13	3	1329.0	1464.0	1671.0

Type 5 Radar Waveform_29							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1221...	61.9	6	1	1062.0	-	-
1	2126...	67.6	6	2	1255.0	1036.0	-
2	5356...	51.0	6	1	1735.0	-	-
3	8585...	52.0	6	1	1847.0	-	-
4	1181...	64.0	6	1	1644.0	-	-
5	1729...	65.2	6	1	1712.0	-	-
6	4956...	72.8	6	2	1220.0	1242.0	-
7	8175...	77.3	6	2	1950.0	1886.0	-
8	1139...	90.1	6	3	1144.0	1738.0	1244.0
Type 5 Radar Waveform_30							
Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1499...	56.8	6	1	1050.0	-	-
1	5127...	82.5	6	2	1795.0	1227.0	-
2	8765...	50.1	6	1	1794.0	-	-
3	1237...	94.0	6	3	1639.0	1940.0	1111.0
4	1050...	56.1	6	1	1543.0	-	-
5	4676...	85.5	6	3	1358.0	1423.0	1526.0
6	8320...	60.8	6	1	1265.0	-	-
7	1195...	57.3	6	1	1433.0	-	-

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Hopping Number	1=Detection 0=No Detection
1	5503.0	21.0	1
2	5518.0	17.0	1
3	5573.0	21.0	1
4	5559.0	16.0	1
5	5563.0	26.0	1
6	5508.0	22.0	1
7	5505.0	25.0	1
8	5535.0	23.0	1
9	5557.0	23.0	1
10	5493.0	18.0	1
11	5516.0	20.0	1
12	5537.0	18.0	1
13	5488.0	22.0	1
14	5539.0	18.0	1
15	5510.0	24.0	1
16	5527.0	14.0	1
17	5570.0	15.0	1
18	5494.0	15.0	1
19	5498.0	16.0	1
20	5511.0	21.0	1
21	5487.0	24.0	1
22	5538.0	18.0	1
23	5512.0	25.0	1
24	5576.0	17.0	1
25	5556.0	16.0	1
26	5506.0	27.0	1
27	5482.0	20.0	1
28	5495.0	18.0	1
29	5537.0	25.0	1
30	5483.0	18.0	1
Detection Percentage (%)			93.3%

6. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with FCC Rules.

————— The End —————

Appendix A - Test Setup Photograph

Refer to "2101RSU065-UT" file.

Appendix B - EUT Photograph

Refer to "2101RSU065-UE" file.