

Report No.: FZ790630-01

Project No: CB10612307

FCC DFS Test Report

Equipment

: Liberty Wireless Module

Brand Name

: Bowers & Wilkins

Model No.

: CC72036

FCC ID

: 2ACIX-LWM

Standard

: 47 CFR FCC Part 15.407

Frequency Range: 5250 MHz - 5350 MHz

5470 MHz - 5725 MHz

Applicant

: B&W Group Ltd.

Dale Road Worthing, West Sussex BN11 2BH, United

Kingdom

Manufacturer

: B&W Group Ltd.

Dale Road Worthing, West Sussex BN11 2BH, United

Operate Mode

: Master and Mesh

The product sample received on Sep. 15, 2017 and completely tested on Dec. 18, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

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Summary of Test Result

	Conformance Test Specifications								
Report Clause	Ref. Std. Clause	Description	Limit	Result					
3.3	FCC KDB 905462 7.8.1	DFS: UNII Detection Bandwidth Measurement	100% of the 99% BW	Complied					
3.4	FCC KDB 905462 7.8.2.1	DFS: Initial Channel Availability Check Time	CAC ≥ 60 sec	Complied					
3.4	FCC KDB 905462 7.8.2.2	DFS: Radar Burst at the Beginning of the Channel Availability Check Time	Detection Threshold: -63 dBm	Complied					
3.4	FCC KDB 905462 7.8.2.3	DFS: Radar Burst at the End of the Channel Availability Check Time	Detection Threshold: -63 dBm	Complied					
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	CMT ≤ 10sec	Complied					
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	CCTT ≤ 60 ms starting at CMT 200ms	Complied					
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	NOP ≥ 30 min	Complied					
3.6	FCC KDB 905462 7.8.4	DFS: Statistical Performance Check	Table 5 - 7 (KDB 905462)	Complied					
3.1.4	FCC KDB 905462 8.1	User Access Restrictions	DFS controls	Complied					

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Revision History

Report No.	Version	Description	Issued Date
FZ790630-01	Rev. 01	Initial issue of report	Jan. 08, 2018
FZ790630-01	Rev. 02	Adding Mesh mode	Jan. 17, 2018

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1 General Description

1.1 Information

1.1.1 RF General Information

Specification Items	Desc	cription	
Product Type	WLAN (2TX, 2RX)		
Radio Type	Intentional Transceiver		
Power Type	From host system		
Modulation	IEEE 802.11a: OFDM (BPSK / QP	SK / 16QAM / 64QAM)	
	IEEE 802.11n/ac: see the below ta	able	
Data Rate (Mbps)	IEEE 802.11a: OFDM (6/9/12/18/2	4/36/48/54)	
	IEEE 802.11n/ac: see the below ta	able	
Channel Bandwidth	20/40/80 MHz operating channel bandwidth		
Operating Mode			
operaning invari	☐ Client with radar detection		
	Client without radar detection		
Communication Mode		☐ Frame Based	
TPC Function	With TPC	☐ Without TPC	
Weather Band (5600~5650MHz)	With 5600~5650MHz	☐ Without 5600~5650MHz	
Power-on cycle	80MHz: Requires 29.304 seconds	to complete its power-on cycle.	
Software / Firmware Version	3.14.43 (mrakes@MarkRakesBW.local) (gcc version 4.9.4 20150629		
	(prerelease) (Linaro GCC 4.9-2015.06-2~dev)) #1 SMP PREEMPT		
	Wed Oct 4 14:53:02 PDT2017		
Note: EUT employ a TPC mechanis output power.	sm and TPC have the capability to c	perate at least 6 dB below highest RF	

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TPC Power Result

For Radio 3 - Band 2

Mode	Min Power	Max Power	Min EIRP	Max EIRP
	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-
5.25-5.35GHz	17.16	23.16	20.22	26.22
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	17.26	23.26	20.32	26.32
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	17.83	23.83	20.89	26.89

For Radio 2 - Band 3

Mode	Min Power	Max Power	Min EIRP	Max EIRP
	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-
5.47-5.725GHz	16.38	22.38	19.44	25.44
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.47-5.725GHz	16.83	22.83	19.89	25.89
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-
5.47-5.725GHz	17.91	23.91	20.97	26.97
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.47-5.725GHz	17.81	23.81	20.87	26.87

Antenna & Band width

For Radio 3 - Band 2

Antenna	Two (TX)				
Band width Mode	20 MHz	40 MHz			
IEEE 802.11a	V	X			
IEEE 802.11n	V	V			

For Radio 2 - Band 3

Antenna	Two (TX)			
Band width Mode	20 MHz	40 MHz	80 MHz	
IEEE 802.11a	V	X	X	
IEEE 802.11n	V	V	X	
IEEE 802.11ac	V	V	V	

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IEEE 11n/ac Spec.

Protocol	Number of	Data Rate / MCS
802.11n (HT20)	Transmit Chains (NTX) 2	MCS0-15
802.11n (HT40)	2	MCS0-15
802.11ac (VHT20)	2	MCS 0-9/Nss1-2
802.11ac (VHT40)	2	MCS 0-9/Nss1-2
802.11ac (VHT80)	2	MCS 0-9/Nss1-2

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Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT support HT20 and HT40.

Note 2: IEEE Std. 802.11ac modulation consists of VHT20, VHT40, VHT80 and VHT160 (VHT: Very High Throughput). Then EUT support VHT20, VHT40 and VHT80.

Note 3: Modulation modes consist of below configuration:

11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac

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1.1.2 Antenna Information

						Gain (dBi)			
Ant.	Port	Radio	Brand	P/N	Antenna Type	Connector	WLAN	WLAN	ВТ
1	1	R1	LUXSHARE ICT	DCIW303	Dipole Antenna	I-PEX	2.4GHz 2.02	5GHz 3.06	
2	2	R1	LUXSHARE ICT	DCIW303	<u>'</u>	I-PEX	2.02	3.00	
					Dipole Antenna			2.00	-
3	1	R2	LUXSHARE ICT	DCIW303	Dipole Antenna	I-PEX	-	3.06	-
4	2	R2	LUXSHARE ICT	DCIW303	Dipole Antenna	I-PEX	-	3.06	-
5	1	R3/R4	LUXSHARE ICT	DCIW303	Dipole Antenna	I-PEX	-	3.06	2.02
6	2	R3	LUXSHARE ICT	DCIW303	Dipole Antenna	I-PEX	-	3.06	-
7	ı	R2/R3	ACON	ZZ35343	Dipole Antenna	I-PEX 20670-001R -37	-	1.28	-
8	-	R1/R2/R3	ACON	ZZ35351	Dipole Antenna	I-PEX 20670-001R -37	1.92	2	-
9	-	R2/R3	ACON	ZZ35378	Dipole Antenna	I-PEX 20670-001R -37	-	1.77	-
10	-	R2/R3	ACON	ZZ35386	Dipole Antenna	I-PEX 20670-001R -37	-	2.93	-
11	-	R1	ACON	ZZ35394	Dipole Antenna	I-PEX 20670-001R -37	1.53	NA	-
12	-	R1/R2/R3/ R4	ACON	ZZ35408	Dipole Antenna	I-PEX 20670-001R -37	1.92	1.52	1.92
13	-	R2/R3	ACON	ZZ35491	Dipole Antenna	I-PEX 20670-001R -37	-	2.12	-
14	-	R1/R2/R3	ACON	ZZ35505	Dipole Antenna	I-PEX 20670-001R -37	1.94	2.88	-
15	-	R2/R3	ACON	ZZ35513	Dipole Antenna	I-PEX 20670-001R -37	-	1.73	-
16	-	R2/R3	ACON	ZZ35521	Dipole Antenna	I-PEX 20670-001R -37	-	1.41	-
17	-	R1	ACON	ZZ35548	Dipole Antenna	I-PEX 20670-001R -37	1.91	-	-
18	-	R1/R2/R3/ R4	ACON	ZZ35556	Dipole Antenna	I-PEX 20670-001R -37	1.62	0.46	1.62

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Note: There are 18 antennas in the antenna table list, only antenna 18 has been selected to perform the test and recorded in this report.

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For 2.4GHz function:

Radio 1

For IEEE 802.11b/g/n/ac mode (2TX/2RX)

Ant.1 (Port 1) and Ant.2 (Port 2) could transmit/receive simultaneously.

For 5GHz function:

Radio 1 (For B1~B4)

For IEEE 802.11a/n/ac mode (1RX)

Only Ant.1 (Port 1) can be used as receiving antenna.

Radio 2 (For B3~B4)

For IEEE 802.11a/n/ac mode (2TX/2RX)

Ant.3 (Port 1) and Ant.4 (Port 2) could transmit/receive simultaneously.

Radio 3 (For B1~B2)

For IEEE 802.11a/n mode (2TX/2RX)

Ant.5 (Port 1) and Ant.6 (Port 2) could transmit/receive simultaneously.

For bluetooth function:

Radio 4

For bluetooth mode (1TX/1RX)

Only Ant.5 (Port 1) can be used as transmitting/receiving antenna.

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1.1.3 DFS Band Carrier Frequencies

There are three bandwidth systems.

For 20MHz bandwidth systems, use Channel 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144.

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For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 118, 126, 134, 142.

For 80MHz bandwidth systems, use Channel 58, 106, 122, 138.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	52	5260 MHz	60	5300 MHz
5250~5350 MHz	54	5270 MHz	62	5310 MHz
Band 2	56	5280 MHz	64	5320 MHz
	58	5290 MHz	-	-
	100	5500 MHz	124	5620 MHz
	102	5510 MHz	126	5630 MHz
	104	5520 MHz	128	5640 MHz
	106	5530 MHz	132	5660 MHz
5470~5725 MHz	108	5540 MHz	134	5670 MHz
5470~5725 WHZ Band 3	110	5550 MHz	136	5680 MHz
Danu 3	112	5560 MHz	138	5690 MHz
	116	5580 MHz	140	5700 MHz
	118	5590 MHz	142	5710 MHz
	120	5600 MHz	144	5720 MHz
	122	5610 MHz	-	-

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1.1.4 Table for EUT functions

Radio	2.4GHz & 5GHz (B1~B4) (5GHz Scanning only)	5GHz (B1&B2)	5GHz (B3&B4)	Bluetooth
1	V	-	-	-
2	-	-	V	-
3	-	V	-	-
4	-	-	-	V

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Type of function	2.4GHz	5GHz (B1&B2)	5GHz (B3&B4)	5GHz (Radio 1)	Bluetooth
31	(Radio 1)	(Radio 3)	(Radio 2)	(B1~B4) (Scanning only)	(Radio 4)
AP Mode (Master)	N/A	V	V	V	V
Station Mode					
(Slave without	V	V	V	N/A	V
radar detection)					
Station Mode					
(Slave without	N/A	V	V	V	V
radar detection)					

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FZ790630 Below is the table for the change of the product with respect to the original one.

Modifications	Description
1. Adding B2~B3 DFS master function mode	All items test
2. Adding mesh function mode	Do not have to retest assessed

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1.2 Accessories

N/A

1.3 Support Equipment

	Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID	
1	Notebook	DELL	E4300	DoC	
2	Notebook	DELL	E4300	DoC	
3	WLAN Dongle	LINKSYS	AE6000	Q87-AE6000	
4	Test fixture	Arcadyan	WN9722BTBAC22-WB JIG TEST	N/A	

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1.4 Testing Applied Standards

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

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

1.5 Testing Location Information

	Testing Location									
	HWA YA	ADD	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.							
		TEL	:	886-3	-327-3456	FAX	:	886	6-3-327-0973	
\boxtimes	JHUBEI	ADD	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.							
		TEL: 886-3-656-9065 FAX: 886-3-656-9085								
Test	t Condition	Test Site No. Test Engineer Test Environment Test Date		Test Date						
	OFS Site	DF	01-	СВ	DK	Chang			24.5°C / 62%	12-Dec-17 ~ 18-Dec-17

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

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2 Test Configuration of EUT

2.1 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration		
IEEE Std.	Test Channel Freq. (MHz)	
802.11ac (VHT20)	5500 MHz	
802.11ac (VHT40)	5510 MHz	
802.11ac (VHT80)	5530 MHz	

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2.2 The Worst Case Measurement Configuration

Т	The Worst Case Mode for Following Conformance Tests		
Tests Item	Dynamic Frequency Selection (DFS)		
Test Condition	Radiated measurement The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used. The DFS radar test signals have been aligned to the direction corresponding to the EUT's maximum antenna gain.		
Modulation Mode	802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80)		

This device supports AP and Mesh mode, only AP mode has been tested and recorded in this test report.

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3 Dynamic Frequency Selection (DFS) Test Result

3.1 General DFS Information

3.1.1 DFS Parameters

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

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- Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
- Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (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 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

Table D.2: Interference threshold values		
Maximum Transmit Power	Value (see note)	
EIRP ≥ 200 mW	-64 dBm	
EIRP < 200 mW and PSD < 10dBm/MHz	-62 dBm	
EIRP < 200 mW and PSD >= 10dBm/MHz	-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 662911D01.

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3.1.2 Applicability of DFS Requirements Prior to Use of a Channel

	DFS Operational mode				
Requirement	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		

3.1.3 Applicability of DFS Requirements during Normal Operation

	DFS Operational mode				
Requirement	Master	Client without radar detection	Client with radar detection		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Closing Transmission Time	Yes	Yes	Yes		
Channel Move Time	Yes	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required	Yes		

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

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3.1.4 User Access Restrictions

User Access Restrictions ☑ DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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3.1.5 Channel Loading/Data Streaming

	The data file (MPEG-4) has been transmitting in a streaming mode.
\boxtimes	Software to ping the client is permitted to simulate data transfer with random ping intervals.
\boxtimes	Minimum channel loading of approximately 17%.
	Unicast protocol has been used.

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3.2 Radar Test Waveform Calibration

3.2.1 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1A	1	15 unique PRI in KDB 905462 D02 Table 5a	[(1) (19×10 ⁶)]	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI	$Roundup \left\{ \left(\frac{1}{360} \right) \times \left(\frac{19 \times 10^6}{PRI} \right) \right\}$	60%	15
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
Aggrega	ate (Radar Type	s 1-4)		80%	120

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

A minimum of 30 unique waveforms are required for each of the short pulse radar types 1 through 4. If more than 30 waveforms are used for short pulse radar types 1 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

3.2.2 Long Pulse Radar Test Waveform

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

Each waveform is defined as follows:

- The transmission period for the Long Pulse Radar test signal is 12 seconds.
- There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time

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between the first and second pulses is chosen independently of the time between the second and third pulses.

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The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

3.2.3 Frequency Hopping Radar Test Waveform

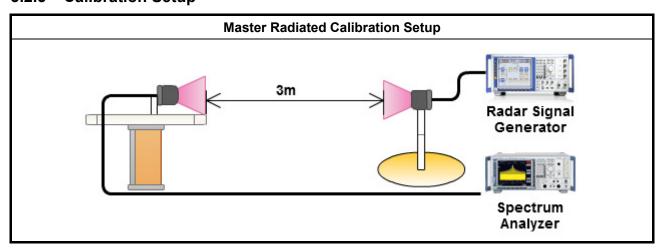
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

3.2.4 DFS Threshold Level

DFS Threshold Level						
DFS Threshold level:	-63	dBm	□ :	at the antenna connector		
			⊠ i	in front of the antenna		
The Interference Radar Detection Threshold Level is is -64 dBm + 0 [dBi] + 1 dB = -63 dBm. That had been taken into account the output power range and antenna gain.						at had

3.2.5 Calibration Setup



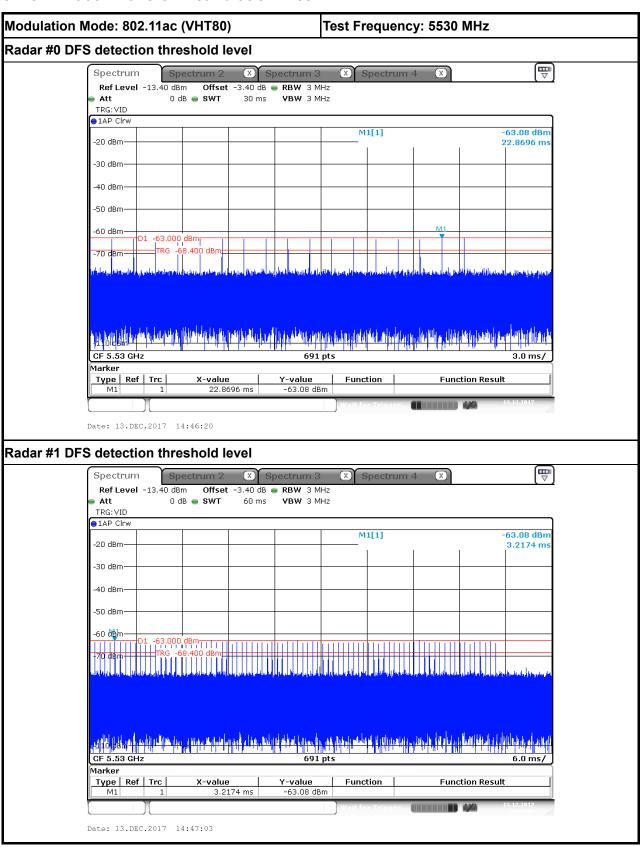
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3.2.6 Radar Waveform calibration Plot

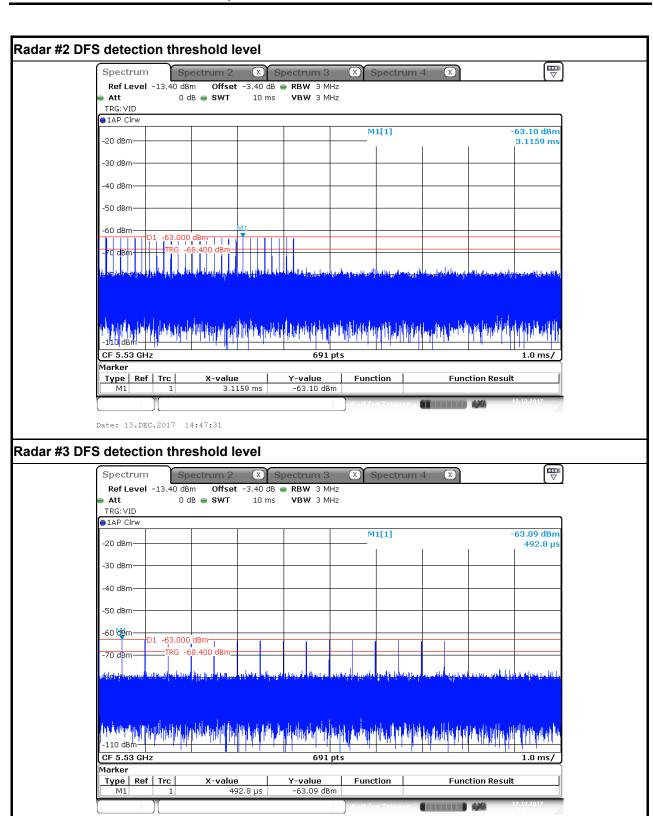


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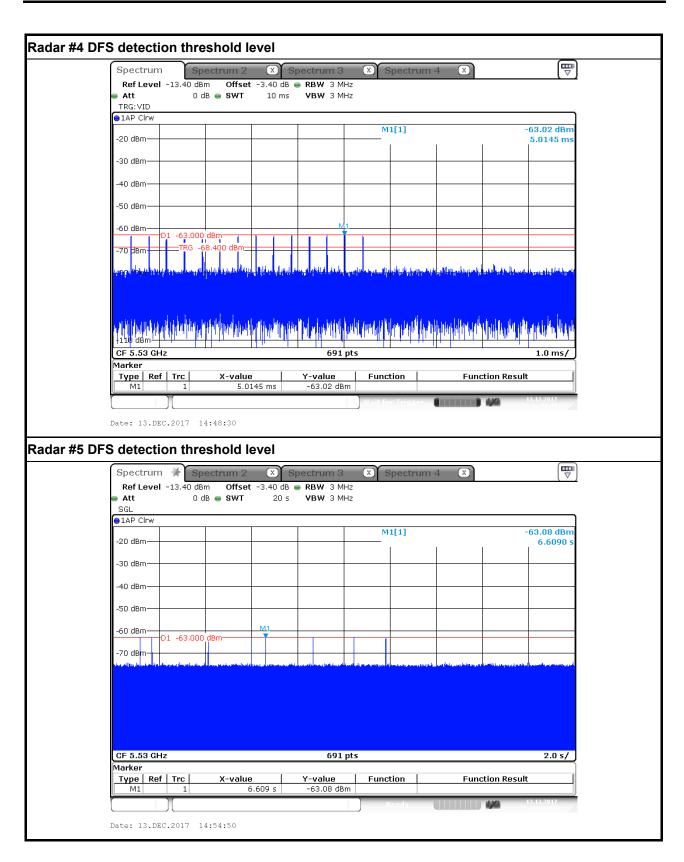
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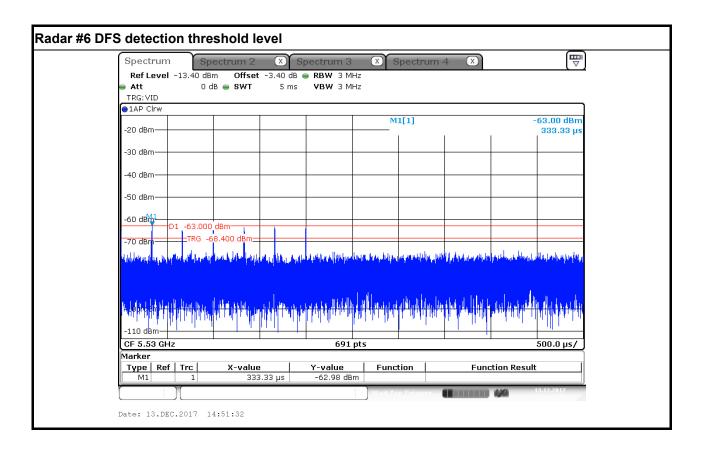
Date: 13.DEC.2017 14:48:04



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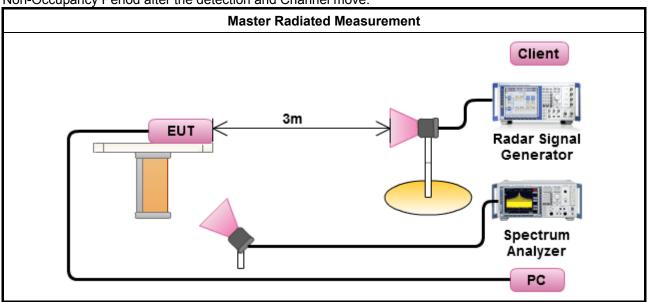
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3.2.7 Test Setup

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move.



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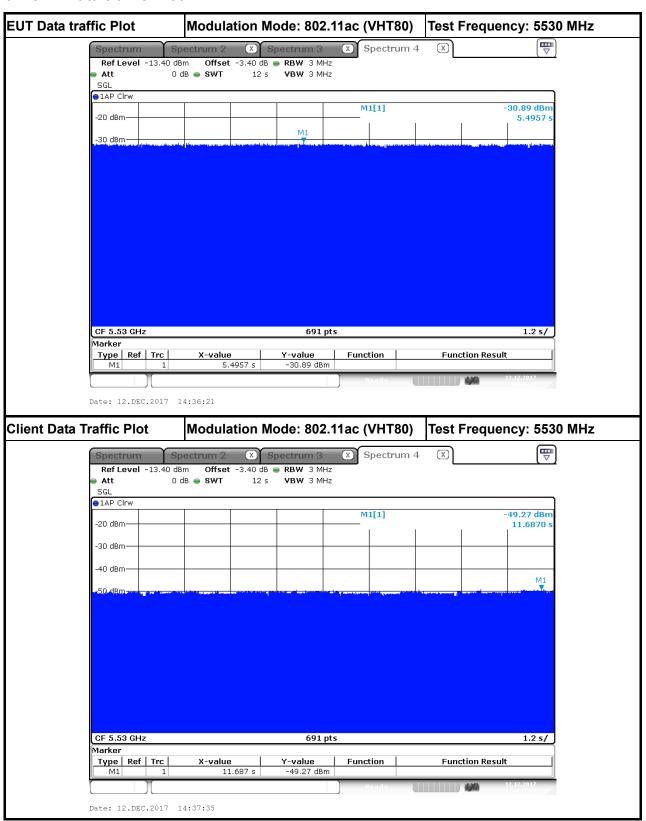
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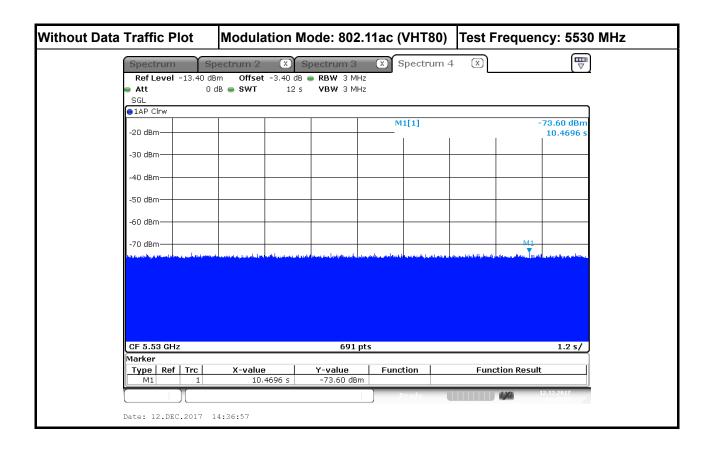


3.2.8 Data traffic Plot



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3.3 UNII Detection Bandwidth

3.3.1 UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	UNII Detection Bandwidth Min. Limit (MHz)
20	17.105	18
40	37.047	38
80	74.963	75

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UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method

During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F_H. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L. UNII Detection Bandwidth = F_H - F_L.

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3.3.4 Test Result of UNII Detection Bandwidth

	EU	T Fre	quer	icy=5	500	MHz					
Channel Bandwidth (MHz)	20										
		DF	S De	tecti	on Tr	ials (1=De	tecti	on, 0	= No	Detection)
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490	0	0	0	0	0	0	0	0	0	0	0%
5491(FL)	1	0	1	1	1	1	1	1	1	1	90%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509(FH)	1	1	1	0	1	1	1	1	1	1	90%
5510	0	0	0	0	0	0	0	0	0	0	0%
5490 0 0 0 0 0 0 0 0 0							0	0%			
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5509MHz-5491MHz)=						18					
UNII Detection Bandwidth Min. Limit	UNII Detection Bandwidth Min. Limit (MHz) =				18						
Test Result											Complied

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	EU	T Fre	auer	icv=5	5510	MHz								
Channel Bandwidth (MHz)	40		4											
,		DF	S De	tecti	on Tr	ials (1=De	tecti	on, 0	= No	o Detection)			
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)			
5490(FL)	1	1	1	1	1	1	0	1	1	1	90%			
5491	1	1	1	1	1	1	1	1	1	1	100%			
5492	1	1	1	1	1	1	1	1	1	1	100%			
5493	1	1	1	1	1	1	1	1	1	1	100%			
5494	1	1	1	1	1	1	1	1	1	1	100%			
5495	1	1	1	1	1	1	1	1	1	1	100%			
5500	1	1	1	1	1	1	1	1	1	1	100%			
5505	1	1	1	1	1	1	1	1	1	1	100%			
5510	1	1	1	1	1	1	1	1	1	1	100%			
5515	1	1	1	1	1	1	1	1	1	1	100%			
5520	1	1	1	1	1	1	1	1	1	1	100%			
5525	1	1	1	1	1	1	1	1	1	1	100%			
5526	1	1	1	1	1	1	1	1	1	1	100%			
5527	1	1	1	1	1	1	1	1	1	1	100%			
5528	1	1	1	1	1	1	1	1	1	1	100%			
5529	1	1	1	1	1	1	1	1	1	1	100%			
5530(FH)	1	1	1	1	0	1	1	1	1	1	90%			
Radar Type 0-Detection Bandwidth (I	MHz)	= (FF	H-FL)	= (55	30MI	Hz-54	190M	Hz)=			40			
UNII Detection Bandwidth Min. Limit	(MHz) =									38			
Test Result											Complied			

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	EII	T Erc	ALIO	ncy=5	520	MUZ					
Channel Bandwidth (MHz)	80	I FIE	quei	icy-t	9330	IVITIZ					
Channel Bandwidth (MH2)	00	DE	S De	tocti	on Tr	iale (1=De	tocti	on O	= No	Detection)
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490(FL)	1	1	1	1	0	1	1	1	1	1	90%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	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%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568	1	1	1	1	1	1	1	1	1	1	100%
5569	1	1	1	1	1	1	1	1	1	1	100%
5570(FH)	1	1	1	1	1	1	1	0	1	1	90%
Radar Type 0-Detection Bandwidth	(MHz)	= (FF	i-FL)	= (55	70MI	Hz-54	90MI	Hz)=	•	•	80
UNII Detection Bandwidth Min. Limit	(MHz) =		•				•			75
Test Result											Complied

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3.4 Channel Availability Check (CAC)

3.4.1 Channel Availability Check Limit

Channel Availability Check Limit

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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 (60 sec) on the intended operating frequency.

3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method

- For Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.
- For Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.
- For Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

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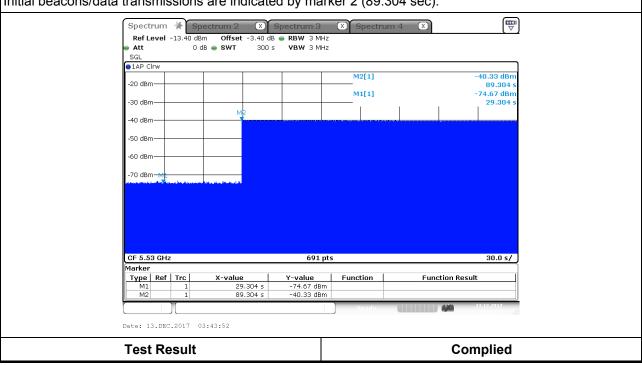
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3.4.4 Test Result of Initial Channel Availability Check Time

Modulation Mode	Freq.	Radar Test Signal
802.11ac (VHT80)	5530 MHz	N/A

The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (29.304 sec). The initial CAC time of the EUT is indicated by marker 1 (29.304 sec). Initial beacons/data transmissions are indicated by marker 2 (89.304 sec).



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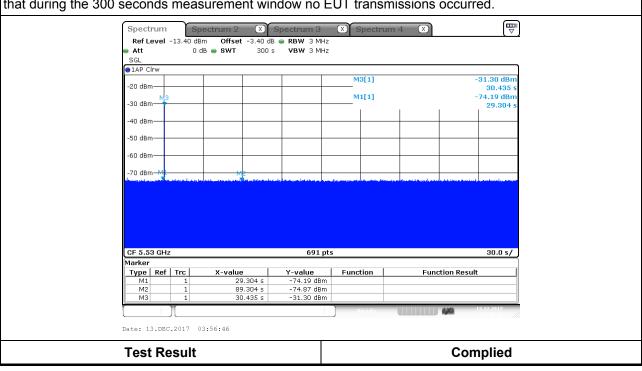
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3.4.5 Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

Modulation Mode	Freq. (MHz)	Radar Type Signal
802.11ac (VHT80)	5530 MHz	0

Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 269.565 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



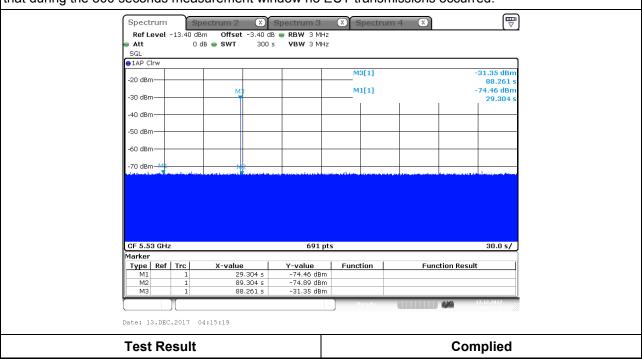
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3.4.6 Test Result of Radar Burst at the End of the Channel Availability Check Time

Modulation Mode	Freq. (MHz)	Radar Type Signal
802.11ac (VHT80)	5530 MHz	0

Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 211.739 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



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3.5 In-service Monitoring

3.5.1 In-service Monitoring Limit

In-service Monitoring Limit					
Channel Move Time	10 sec				
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.				
Non-occupancy period	Minimum 30 minutes				

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3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method

- ✓ Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.
- ✓ Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 12 sec plot needs to be reported for the Short Pulse Radar Types 0 sec plot. And zoom-in a 60 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.
- Verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

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3.5.4 Test Result of Channel Move Time

Modulation Mode: 802.11ac (VHT80)

Parameter	Test Result	Limit
	Туре 0	
Test Channel (MHz)	5530 MHz	-
Channel Move Time (sec.)	0.313	< 10s

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Type | Ref | Trc |

Date: 12.DEC.2017 15:17:53

M1 M2 M3 M4

Modulation Mode Freq. Radar Type 5530 MHz 0 802.11ac (VHT80) Spectrum 2 💥 Spectrum 3
 Ref Level -13.40 dBm
 Offset -3.40 dB • RBW
 3 MHz

 Att
 0 dB • SWT
 12 s
 VBW
 3 MHz
 Radar ●1AP Clrw M3[1] 20 dBm -22.61 dBm M1[1] dBm-**EUT signal** T2 CF 5.53 GHz 691 pts

> Y-value -22.61 dBm -36.38 dBm -35.69 dBm -74.24 dBm

0.0 s 200.0 ms 313.0 ms 10.0 s **Function Result**

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3.5.5 Test Result of Channel Closing Transmission Time

Modulation Mode: 802.11ac (VHT80)

Parameter	Test Result	Limit	
Farameter	Туре 0	Limit	
Test Channel (MHz)	5510 MHz	-	
Channel Closing Transmission Time (ms) (Note)	5.797	< 60ms	

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

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Modula		Freq				Radar Typ	е	
802.11	ac (VHT80)		5530 MHz				0	
Channel Closin Time plus 60ms				0 ms starti	ng at	the beginr	ning of the Ch	nannel Move
Radar	Ref Level -13.40 d		Spectrum 3 dB • RBW 3 MHz 2 s VBW 3 MHz	Spectru	um 4	X	▼	
П	1-20 dBm	МЗ		M3[1] M1[1]			-36.19 dBm 394.20 ms -23.07 dBm 0.00000 s	
EUT signal	T1	la quanta de la carte de la ca		miliopanii se areetju tee	Mark June	nging and I among provide	entre de la constitución de la c	
<u> </u>	CF 5.53 GHz Marker		691 pts				200.0 ms/	
	Type Ref Trc	X-value 0.0 s 200.0 ms 394.2 ms	Y-value -23.07 dBm -75.69 dBm -36.19 dBm	Function		Function Re	12.12.2017	
D	ate: 12.DEC.2017	15:15:25						

Dwell is the dwell time per spectrum analyzer sampling bin.

S is the sweep time

B is the number of spectrum analyzer sampling bins

C is the intermittent control signals of Channel Closing Transmission Time

N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission

Dwell (2.899 ms)= S (2000 ms) / B (690)

C (5.797 ms) = N (2) X Dwell (2.899 ms)

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3.5.6 Test Result of Non-Occupancy Period

Modulation Mode: 802.11ac (VHT80)

Parameter	Test Result	Limit	
Farameter	Type 0	Limit	
Test Channel (MHz)	5530 MHz	-	
Non-Occupancy Period (min.)	≥30	≥ 30 min	

	Modulation	Mode		Freq.				
	802.11ac (VHT80)			5530 MHz				
on-Occup	pancy Period							
uring the	30 minutes observ							
	Ref Level -13.40 dB	m Offset -3.40 dB	Spectrum 3 RBW 3 MHz VBW 3 MHz		rum 4 (x			
	●1AP Clrw	T T		M1[1]			00.00.40	
	-20 dem-				1	1	-22.92 dBm 97.10 s	
	Bm-							
	Bm-							
	Bm-							
	Bm-							
	Bm-			also be at a second				
	CF 5.53 GHz		691 pt	s			200.0 s/	
	Type Ref Trc	X-value 97.1 s	Y-value -22,92 dBm	Function	F	unction Res	ult	
		22	22.72 3011	Ready			12.12.2017	
	Date: 12.DEC.2017 1	6.00.30		_				

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3.6 **Statistical Performance Check**

3.6.1 **Statistical Performance Check Limit**

Radar Type	Minimum Percentage of Successful Detection (Pd)	Minimum Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

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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

3.6.2 **Measuring Instruments**

Refer a test equipment and calibration data table in this test report.

3.6.3 **Test Procedures**

Test Method

For Statistical Performance Check test. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT 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. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

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The percentage of successful detection is calculated by:

 $[\]frac{TotalWaveformDetections}{-} \times 100 = Probability of Detection Radar Waveform$



3.6.4 Test Result of Statistical Performance Check

Modulation Mode: 802.11ac (VHT20)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5503	1	1930.5	518	1
2	5493	23	326.2	3066	1
3	5500	19	1139.0	878	1
4	5501	12	1355.0	738	1
5	5509	4	1730.1	578	1
6	5504	8	1519.8	658	1
7	5504	15	1253.1	798	1
8	5499	6	1618.1	618	1
9	5492	14	1285.3	778	1
10	5507	3	1792.1	558	1
11	5499	13	1319.3	758	0
12	5498	9	1474.9	678	1
13	5505	7	1567.4	638	1
14	5502	17	1193.3	838	1
15	5501	10	1432.7	698	1
16	5493	-	1692.0	591	1
17	5498	-	328.1	3048	1
18	5497	-	373.4	2678	0
19	5507	-	574.4	1741	1
20	5496	-	1216.5	822	1
21	5500	-	801.3	1248	1
22	5502	-	488.5	2047	1
23	5499	-	956.0	1046	1
24	5494	-	517.6	1932	1
25	5496	-	1422.5	703	1
26	5508	-	542.0	1845	1
27	5502	-	741.3	1349	1
28	5495	-	881.8	1134	1
29	5509	-	427.4	2340	1
30	5498	-	628.9	1590	0
		Detection Percentage ((%)		90.000
Limit	60%				
Test Res	ult				Complied

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Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5502	2.6	221	23	1
2	5503	4.6	198	27	1
3	5503	1.1	184	29	1
4	5503	4.8	203	24	1
5	5497	2.4	162	25	1
6	5492	3.4	204	28	1
7	5491	2.3	170	27	1
8	5501	3.5	184	23	1
9	5499	4.9	150	27	1
10	5495	4.6	211	29	0
11	5505	2.9	158	23	1
12	5491	2.6	226	27	1
13	5499	1.6	204	26	1
14	5509	3.9	181	25	1
15	5497	4.6	202	24	1
16	5498	4.1	194	27	1
17	5500	2.3	193	28	0
18	5491	3.9	173	29	1
19	5508	4.3	188	23	1
20	5501	1.5	215	26	1
21	5499	4.9	227	27	1
22	5500	1.1	199	23	1
23	5493	4.5	155	29	1
24	5503	4.0	190	27	1
25	5505	2.4	151	23	1
26	5496	2.5	180	28	1
27	5495	2.5	228	23	1
28	5498	2.5	203	25	1
29	5503	1.5	188	25	1
30	5507	1.9	217	24	1
Detection Percentage (%)					93.333
_imit		.	•		60%
Fest Result					Complied

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Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection ; 0=No Detection
1	5502	8.0	205	16	0
2	5502	6.7	382	18	0
3	5494	8.6	418	16	1
4	5501	9.4	351	17	1
5	5491	7.4	383	18	1
6	5492	9.8	232	16	1
7	5502	9.1	377	17	1
8	5500	9.6	457	16	1
9	5507	8.0	471	18	1
10	5499	9.0	304	18	1
11	5503	8.0	316	17	1
12	5496	9.8	325	16	1
13	5502	8.0	409	17	1
14	5504	9.9	200	17	1
15	5499	8.8	458	16	1
16	5494	8.0	232	18	1
17	5507	8.3	250	16	1
18	5499	8.7	270	16	1
19	5491	7.7	350	17	1
20	5496	7.1	230	16	1
21	5491	7.3	416	18	1
22	5499	7.6	498	18	1
23	5506	7.3	286	17	1
24	5505	7.3	287	16	1
25	5498	7.5	462	17	1
26	5497	6.2	300	17	0
27	5500	6.4	323	18	1
28	5496	7.1	420	16	1
29	5500	7.2	395	18	1
30	5491	8.4	377	16	1
	90.000				
Limit	60%				
Test Res	Complied				

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Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5496	18.0	242	15	1
2	5508	19.9	279	12	1
3	5493	12.9	487	14	1
4	5503	15.0	452	13	1
5	5500	16.3	230	12	1
6	5501	19.8	238	13	0
7	5494	18.2	420	16	0
8	5509	16.3	452	15	1
9	5496	14.2	495	12	1
10	5493	17.8	228	16	1
11	5500	19.1	211	16	1
12	5508	18.4	283	15	1
13	5503	11.8	411	12	1
14	5496	14.2	284	13	1
15	5495	13.9	202	12	1
16	5505	17.8	340	14	1
17	5502	15.6	290	16	1
18	5494	14.6	250	16	1
19	5505	14.4	484	15	1
20	5502	18.9	387	13	1
21	5491	11.1	348	15	1
22	5504	13.8	291	16	1
23	5496	14.3	295	12	1
24	5492	12.5	300	12	1
25	5506	12.5	322	14	1
26	5506	12.5	383	13	1
27	5495	15.7	322	16	1
28	5495	19.8	469	13	1
29	5509	18.6	406	15	1
30	5504	15.9	238	14	1
		93.333			
Limit					60%
Test Resi	ult				Complied

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
radai Typo n	
<u>'</u>	90.000
2	93.333
3	90.000
4	93.333
Aggregate (Radar Types 1-4)	91.667
Limit	80%
Test Result	Complied

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5500	5492	5508	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5500	1
2	20	0	5500	1
3	7	0	5500	1
4	8	0	5500	1
5	9	0	5500	1
6	10	0	5500	1
7	11	0	5500	1
8	12	0	5500	1
9	13	0	5500	1
10	14	0	5500	1
11	15	6	5498	1
12	16	6.4	5498	1
13	17	6.8	5499	1
14	20	8	5500	1
15	19	7.6	5500	1
16	18	7.2	5499	1
17	17	6.8	5499	1
18	16	6.4	5498	1
19	15	6	5498	1
20	14	5.6	5498	1
21	13	5.2	5503	1
22	12	4.8	5503	1
23	11	4.4	5504	1
24	10	4	5504	1
25	9	3.6	5504	1
26	8	3.2	5505	1
27	18	7.2	5501	1
28	19	7.6	5500	0
29	20	8	5500	1
30	5	2	5506	1
		29		
	Detection Per	otal centage (%)		97%
mit		U ,		80%
est Result				Complied

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Trial Number								
Number of Bur	ımber of Bursts in Trial							
Chirp Center F	requency			55	00			
Burst	Burst No. of Pulses Pulse Width (us) Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Spacing (us)				Starting Location Within Interval (ms)			
1	1	62.1	5	-	-	1091		
2	2	56	5	1729	-	133		
3	2	91.3	5	1230	-	1057		
4	3	50.7	5	1762	1616	1442		
5	2	92.6	5	1723	-	544		
6	2	87.3	5	1302	-	1089		
7	2	59.5	5	1291	-	1374		
8	2	52.2	5 1653 - 1237					
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number			2			
Number of Bu	Number of Bursts in Trial			(9	
Chirp Center Frequency				55	00	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us) Starti Locat Spacing (us) With Interval			
1	3	90	20	1007	1326	30
2	2	73.7	20	1785	-	979
3	1	78.1	20	-	-	683
4	2	92.4	20	1281	-	950
5	1	61.2	20	-	-	612
6	3	67.2	20	1525	1870	17
7	1	78.5	20	-	-	429
8	2	60.3	20	1931	-	936
9	3	92.9	20	1403	1476	548
Detection Ched	ck (1=Detection; 0	=No Detection)				1

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Trial Number			3					
Number of Bu	ırsts in Trial			10				
Chirp Center Frequency				55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locati (MHz) Spacing (us) Spacing (us) Within Interval					
1	3	63.4	7	1574	1607	801		
2	1	98	7	-	-	966		
3	1	58.7	7	-	-	185		
4	1	88	7	-	-	1012		
5	3	79.5	7	1562	1370	943		
6	3	57.1	7	1900	1188	686		
7	2	64.4	7	1090	-	599		
8	1	78.7	7	-	-	1089		
9	1	69.3	7	-	-	188		
10	3	55.3	7	1375	1691	933		
Detection Che	ck (1=Detection; 0	=No Detection)				1		

Trial Number			4				
Number of Bui	rsts in Trial			11			
Chirp Center Frequency				55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (m				
1	2	74.3	8	1642	-	24	
2	1	83.1	8	-	-	985	
3	2	59.5	8	1680	-	988	
4	2	59.8	8	1786	-	800	
5	2	77.6	8	1617	-	339	
6	2	79.9	8	1553	-	1040	
7	1	56	8	-	-	544	
8	3	71.4	8	1406	1927	452	
9	1	97.4	8	-	-	204	
10	2	98.3	8	1037	-	926	
11	1	63.6	8	-	-	1052	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			5 12				
Number of Bu	rsts in Trial						
Chirp Center F	Chirp Center Frequency			55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loc (MHz) Spacing (us) Spacing (us) Wi				
	4	50				Interval (ms)	
1	1	50	9	-	-	557	
2	2	62.5	9	1731	-	567	
3	2	55.4	9	1070	-	460	
4	1	65.7	9	_	-	4	
5	2	58	9	1512	-	64	
6	2	60.9	9	1230	-	650	
7	3	89.6	9	1598	1738	235	
8	3	84.4	9	1271	1617	873	
9	3	72.3	9	1498	1321	901	
10	1	58.9	9	-	-	663	
11	2	74.8	9	1584	-	919	
12	1	71.8	9	-	-	375	
Detection Chec	ck (1=Detection; C	=No Detection)				1	

Trial Number			6				
Number of Bu	rsts in Trial		13				
Chirp Center Frequency				55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locati (MHz) Spacing (us) Spacing (us) Withi Interval				
1	2	88.1	10	1257	-	846	
2	1	58.7	10	_	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	_	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	_	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			7				
Number of Bu	rsts in Trial		14				
Chirp Center F	Chirp Center Frequency			55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	92.7	11	1208	-	231	
2	2	81.3	11	1144	-	804	
3	2	60.4	11	1555	-	34	
4	2	62.1	11	1320	-	427	
5	1	50	11	-	-	577	
6	3	65.9	11	1020	1365	3	
7	2	73.8	11	1308	-	51	
8	2	74.3	11	1143	-	360	
9	1	62.9	11	-	-	394	
10	2	74.8	11	1404	-	317	
11	2	69.7	11	1309	-	532	
12	2	69.8	11	1688	-	339	
13	2	77.4	11	1857	-	381	
14	1	55.1	11	-	-	426	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

Trial Number			8					
Number of Bui	rsts in Trial		15					
Chirp Center Frequency				55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us) Ir				
1	1	91.7	12	-	-	776		
2	2	90	12	1196	-	187		
3	3	92.3	12	1486	1853	448		
4	2	66.8	12	1545	-	702		
5	1	64	12	-	-	403		
6	3	95.4	12	1123	1473	230		
7	3	66.8	12	1867	1401	604		
8	3	67.7	12	1472	1397	38		
9	1	68.2	12	-	-	735		
10	2	82.2	12	1297	-	610		
11	1	92.1	12	-	-	618		
12	2	57	12	1764	-	705		
13	2	58.5	12	1310	-	22		
14	3	85.5	12	1630	1447	641		
15	2	82.2	12	1371	-	109		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

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Trial Number	Trial Number			9				
Number of Bui	rsts in Trial		16					
Chirp Center Frequency				55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	2	74.4	13	1707	-	442		
2	2	63.6	13	1725	-	280		
3	2	71.3	13	1704	-	459		
4	3	77.6	13	1063	1405	197		
5	3	65.2	13	1731	1294	101		
6	3	55.1	13	1109	1549	17		
7	2	96.8	13	1034	-	131		
8	3	80.8	13	1533	1051	365		
9	1	60.4	13	-	-	222		
10	2	61.8	13	1312	-	371		
11	2	71.3	13	1657	-	33		
12	2	98.1	13	1024	-	291		
13	1	57.9	13	-	-	188		
14	1	91.8	13	-	-	163		
15	2	56.7	13	1259	-	426		
16	2	89.7	13	1690	-	606		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number			10				
Number of Bu	rsts in Trial		17				
Chirp Center Frequency				55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	
17	1	72.7	14	-	-	564	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			11				
Number of Bu	ırsts in Trial		18				
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	-	-	439	
16	1	64.5	15	-	-	188	
17	1	88.5	15	-	-	419	
18	1	60.6	15	-	-	205	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number				12				
Number of B	ursts in Trial		19					
Chirp Center	Frequency			54	98			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	90.5	16	1299	_	381		
2	2	88.4	16	1418	-	327		
3	2	53.7	16	1055	-	536		
4	1	80.5	16	-	-	285		
5	1	50.4	16	-	-	398		
6	2	61.2	16	1749	-	439		
7	2	78.8	16	1065	-	129		
8	3	75	16	1748	1820	325		
9	2	96.7	16	1254	-	440		
10	3	76.3	16	1848	1106	397		
11	1	73.3	16	-	-	232		
12	2	92.4	16	1317	-	91		
13	2	92.4	16	1854	-	256		
14	3	64.4	16	1240	1634	582		
15	2	67.3	16	1473	-	117		
16	2	84.1	16	1795	-	202		
17	1	80.9	16	-	-	135		
18	1	74.6	16	-	-	396		
19	2	97.6	16	1805	-	615		
Detection Che	ck (1=Detection; 0	=No Detection)	<u> </u>	<u> </u>		1		

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Trial Number				1	3		
Number of Bu	ırsts in Trial		20				
Chirp Center	Frequency			54	99		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	66.1	17	1417	-	388	
2	2	86.7	17	1693	-	348	
3	2	70.5	17	1263	-	215	
4	2	78	17	1446	-	28	
5	2	66	17	1185	-	585	
6	2	80.6	17	1855	-	65	
7	1	95.5	17	-	-	92	
8	1	98.8	17	-	-	68	
9	3	64.3	17	1641	1108	517	
10	1	75.1	17	-	-	121	
11	2	72.6	17	1499	-	448	
12	1	60.3	17	-	-	567	
13	2	54.9	17	1056	-	245	
14	2	98.8	17	1023	-	584	
15	2	60.9	17	1243	-	579	
16	2	62.7	17	1226	-	464	
17	1	80.1	17	-	-	89	
18	2	70.9	17	1711	-	153	
19	1	90.7	17	-	-	282	
20	1	98.9	17	-	-	71	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			14			
Number of Bursts in Trial				3	3		
Chirp Center F	Chirp Center Frequency			55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	67.5	20	1542	-	947	
2	3	83.6	20	1272	1696	124	
3	2	93.2	20	1877	-	701	
4	1	55.6	20	-	-	1123	
5	3	84.2	20	1733	1619	756	
6	3	69.1	20	1612	1071	1	
7	2	66.9	20	1905	-	7	
8	3	86.8	20 1697 1621 1082				
Detection Chec	k (1=Detection; 0	=No Detection)	•		·	1	

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Trial Number			15					
Number of Bursts in Trial				()			
Chirp Center Frequency			55	00				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Log (MHz) Spacing (us) Spacing (us) Inter					
1	2	62.2	19	1571	-	949		
2	2	85	19	1669	-	189		
3	2	64.5	19	1505	-	176		
4	2	50.4	19	1325	-	538		
5	2	66.1	19	1483	-	908		
6	2	71.2	19	1110	-	1017		
7	3	53.7	19	1445	1677	492		
8	3	62.5	19	1596	1341	349		
9	3	62	19 1929 1221 1105					
Detection Che	ck (1=Detection; 0	=No Detection)				1		

Trial Number			16				
Number of Bur	sts in Trial			10			
Chirp Center Frequency				54	99		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	80.5	18	1910	-	284	
2	2	64.2	18	1661	-	751	
3	2	90.1	18	1041	-	491	
4	2	69.8	18	1495	-	107	
5	1	73.1	18	-	-	490	
6	3	77.2	18	1418	1145	1155	
7	3	52.6	18	1732	1787	772	
8	2	71.4	18	1562	-	121	
9	2	89.8	18	1491	-	89	
10	2	76.4	18	1355	-	615	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			17					
Number of Bu	rsts in Trial			11				
Chirp Center Frequency				54	99			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locat (MHz) Spacing (us) Spacing (us) With Interval					
1	2	51.2	17	1236	-	740		
2	1	71.7	17	-	-	941		
3	2	74.7	17	1164	-	370		
4	2	50.9	17	1919	-	371		
5	2	65.2	17	1206	-	1033		
6	2	98	17	1182	-	346		
7	2	58.7	17	1612	-	639		
8	1	63.8	17	-	-	1056		
9	3	86.3	17	1545	1065	205		
10	1	94.4	17	-	-	753		
11	3	88.5	17	1699	1319	58		
Detection Ched	ck (1=Detection; C	=No Detection)	•	•		1		

Trial Number			18			
Number of Bur	sts in Trial		12			
Chirp Center Frequency				54	98	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	2	88.7	16	1405	_	448
2	3	90.2	16	1544	1235	621
3	1	96.5	16	-	-	512
4	2	80.5	16	1090	-	321
5	2	63.7	16	1268	-	798
6	1	53.4	16	-	-	809
7	2	52.3	16	1043	-	301
8	3	54.7	16	1701	1104	796
9	3	75.6	16	1923	1729	669
10	2	59.2	16	1244	-	369
11	1	56.3	16	-	-	51
12	2	87.8	16	1608	-	733
Detection Chec	k (1=Detection; 0	=No Detection)				1

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Trial Number	Trial Number			19			
Number of Bui	rsts in Trial		13				
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	68.2	15	1104	-	229	
2	2	58.4	15	1627	-	488	
3	3	74.7	15	1861	1015	137	
4	2	58.2	15	1593	-	520	
5	1	51.6	15	-	-	799	
6	2	94.7	15	1469	-	43	
7	2	70.7	15	1091	-	126	
8	2	82.9	15	1472	-	607	
9	3	62.7	15	1168	1453	527	
10	2	63.1	15	1529	-	143	
11	1	96.1	15	-	-	176	
12	2	57	15	1457	-	882	
13	3	95.6	15	1707	1501	214	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			20			
Number of Bur	sts in Trial		14				
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	95.7	14	-	-	117	
2	1	93.1	14	-	-	720	
3	1	55.8	14	-	-	297	
4	1	76.7	14	-	-	284	
5	2	68	14	1686	-	472	
6	3	94.1	14	1796	1393	264	
7	2	53.9	14	1293	-	525	
8	1	99.3	14	-	-	155	
9	2	73.3	14	1458	-	65	
10	2	93.3	14	1196	-	451	
11	3	55.8	14	1895	1034	243	
12	1	66.4	14	-	-	228	
13	2	65.6	14	1732	-	746	
14	2	76.5	14	1187	-	522	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number			21			
Number of Bu	rsts in Trial		15				
Chirp Center Frequency				55	03		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	85.1	13	-	-	565	
2	2	72.5	13	1648	-	211	
3	1	67.5	13	-	-	348	
4	2	56.1	13	1360	-	156	
5	1	71.1	13	-	-	718	
6	2	93.1	13	1391	-	400	
7	1	56.5	13	-	1	482	
8	1	63.8	13	-	ı	703	
9	2	67.4	13	1727	ı	780	
10	1	52.3	13	-	ı	102	
11	3	62.4	13	1228	1715	304	
12	2	53.3	13	1630	ı	57	
13	2	83.1	13	1205	1	768	
14	2	93.7	13	1085	1	461	
15	2	90.7	13	1297	1	746	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

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Trial Number				2	2		
Number of Bu	ırsts in Trial		16				
Chirp Center Frequency				55	03		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	98.8	12	1439	-	95	
2	1	54.5	12	-	-	676	
3	2	80.5	12	1360	-	8	
4	2	55.9	12	1906	-	373	
5	2	72.1	12	1623	-	254	
6	2	84.4	12	1604	-	480	
7	1	78.5	12	-	-	663	
8	1	88	12	-	-	314	
9	2	74.7	12	1157	-	596	
10	2	97.1	12	1673	-	264	
11	1	81.6	12	-	-	740	
12	1	83.6	12	-	-	163	
13	3	87.6	12	1757	1322	628	
14	2	58.5	12	1372	-	132	
15	3	91.8	12	1767	1183	106	
16	2	58.8	12	1432	-	659	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number			23				
Number of Bur	rsts in Trial		17				
Chirp Center Frequency				55	04		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	96	11	-	-	284	
2	2	92.5	11	1241	-	488	
3	2	89.5	11	1347	-	76	
4	2	74.8	11	1607	-	688	
5	2	60.6	11	1523	-	28	
6	2	71.5	11	1659	-	383	
7	2	71.1	11	1454	-	182	
8	1	98.7	11	-	-	20	
9	2	85.1	11	1770	-	576	
10	2	89.2	11	1086	-	410	
11	2	60.7	11	1101	-	458	
12	2	75.2	11	1719	-	348	
13	2	75.7	11	1799	-	481	
14	3	56.7	11	1132	1884	587	
15	2	65	11	1885	-	480	
16	2	64.6	11	1910	-	195	
17	3	69.9	11	1410	1190	396	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			24				
Number of Bur	sts in Trial		18				
Chirp Center F	Chirp Center Frequency			55	04		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	83.8	10	1290	1021	536	
2	2	66.9	10	1112	-	44	
3	3	91	10	1220	1504	611	
4	2	86.1	10	1678	-	456	
5	3	65.5	10	1928	1222	330	
6	1	62.6	10	-	-	297	
7	3	68.7	10	1505	1200	351	
8	3	59.2	10	1452	1114	230	
9	1	73.9	10	-	-	222	
10	1	77.2	10	-	-	57	
11	2	96.4	10	1357	-	399	
12	2	99.9	10	1173	-	299	
13	2	99.9	10	1520	-	464	
14	1	86.7	10	-	-	294	
15	1	92.6	10	-	-	653	
16	1	77.1	10	-	-	550	
17	2	81.1	10	1664	-	566	
18	3	68.4	10	1536	1309	580	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			25				
Number of Bui	rsts in Trial		19				
Chirp Center F	requency			55	04		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	68.2	9	1723	1868	471	
2	3	83.7	9	1711	1405	368	
3	2	69.7	9	1781	-	425	
4	1	59.7	9	-	-	440	
5	2	96.7	9	1484	-	123	
6	2	95.8	9	1319	-	261	
7	3	71.3	9	1095	1354	332	
8	3	53.2	9	1527	1427	427	
9	2	69.5	9	1771	-	397	
10	3	63.9	9	1075	1447	67	
11	2	93.4	9	1783	-	174	
12	2	77.3	9	1564	-	17	
13	2	73.1	9	1294	-	216	
14	1	77.4	9	-	-	292	
15	3	57.2	9	1722	1886	619	
16	2	68.7	9	1629	-	233	
17	1	60.8	9	-	-	226	
18	3	69.7	9	1128	1224	599	
19	1	62.2	9	-	-	433	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number	Number			26			
Number of Bu	rsts in Trial			2	0		
Chirp Center I	Frequency			55	05		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	80.5	8	-	-	90	
2	3	62.6	8	1406	1343	319	
3	3	85.6	8	1190	1529	384	
4	2	83.9	8	1208	-	567	
5	2	92.4	8	1488	-	234	
6	2	54	8	1529	-	535	
7	3	81.3	8	1501	1812	325	
8	1	98.5	8	-	-	532	
9	1	85.8	8	-	-	272	
10	2	84.7	8	1593	-	182	
11	2	83.3	8	1705	-	134	
12	2	79.8	8	1567	-	286	
13	1	77.9	8	-	-	368	
14	3	98.4	8	1510	1569	290	
15	2	79.9	8	1588	-	231	
16	3	78	8	1140	1353	353	
17	3	55.2	8	1700	1327	53	
18	3	71.9	8	1081	1224	44	
19	1	62	8	-	-	298	
20	3	70.5	8	1888	1442	529	
Detection Ched	ck (1=Detection; C	=No Detection)				1	

Trial Number			27				
Number of Bu	rsts in Trial		8				
Chirp Center F	requency			55	01		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us)			
1	2	69.1	18	1076	_	Interval (ms) 1436	
2	2	62.1	18	1688	-	22	
3	2	94.8	18	1891	-	897	
4	1	75.8	18	-	-	1186	
5	2	65.4	18	1713	-	589	
6	2	97.7	18	614			
7	3	98.1	18	506			
8	2	85.4	18	776			
Detection Chec	k (1=Detection; C	=No Detection)	•		•	1	

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Trial Number			28					
Number of Bu	ursts in Trial		9					
Chirp Center	Frequency			55	00			
Burst	No. of Pulses	Pulse Width (us)						
1	3	82	19	1233	1713	679		
2	3	87.7	19	1554	1123	473		
3	2	98.9	19	1518	-	869		
4	1	55	19	-	-	719		
5	1	93.6	19	-	-	902		
6	2	58.7	19	1641	-	1243		
7	2	88.7	19	19 1387 -				
8	1	60.3	19	1154				
9 1 97.7 19						512		
Detection Che	ck (1=Detection; 0	=No Detection)				0		

Trial Number			29				
Number of Bursts in Trial			10				
Chirp Center Frequency				55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	1	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	-	ı	895	
4	1	74.6	20	-	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			30					
Number of B	umber of Bursts in Trial			11				
Chirp Center	Chirp Center Frequency			55	06			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	3	59.9	5	1901	1196	935		
2	2	77.1	5	1590	-	1038		
3	2	62.7	5	1227	-	690		
4	1	77.1	5	-	-	547		
5	3	99.8	5	1798	1790	551		
6	2	61.5	5	1135	-	876		
7	2	77.5	5	1583	-	448		
8	2	57.3	5	1890	-	736		
9	2	53.5	5	1757	-	362		
10	1	66.6	5	-	-	836		
11	3	80.7	5	1811	1289	410		
Detection Che	eck (1=Detection; 0	=No Detection)				1		

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Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5500	9	1	333	1
2	5500	9	1	333	1
3	5500	9	1	333	1
4	5500	9	1	333	1
5	5500	9	1	333	1
6	5500	9	1	333	1
7	5500	9	1	333	1
8	5500	9	1	333	1
9	5500	9	1	333	1
10	5500	9	1	333	1
11	5500	9	1	333	1
12	5500	9	1	333	1
13	5500	9	1	333	1
14	5500	9	1	333	1
15	5500	9	1	333	1
16	5500	9	1	333	1
17	5500	9	1	333	1
18	5500	9	1	333	1
19	5500	9	1	333	1
20	5500	9	1	333	1
21	5500	9	1	333	1
22	5500	9	1	333	1
23	5500	9	1	333	1
24	5500	9	1	333	1
25	5500	9	1	333	1
26	5500	9	1	333	1
27	5500	9	1	333	1
28	5500	9	1	333	1
29	5500	9	1	333	1
30	5500	9	1	333	1
	D	etection Percenta	ge (%)		100.00
Limit	70%				
Test Res				Complied	

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Modulation Mode: 802.11ac (VHT40)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5517	1	1930.5	518	1
2	5492	23	326.2	3066	1
3	5504	19	1139.0	878	1
4	5495	12	1355.0	738	1
5	5523	4	1730.1	578	1
6	5495	8	1519.8	658	1
7	5528	15	1253.1	798	1
8	5497	6	1618.1	618	0
9	5516	14	1285.3	778	1
10	5499	3	1792.1	558	1
11	5503	13	1319.3	758	1
12	5510	9	1474.9	678	1
13	5519	7	1567.4	638	1
14	5502	17	1193.3	838	1
15	5503	10	1432.7	698	1
16	5521	-	1692.0	591	1
17	5523	-	328.1	3048	1
18	5522	-	373.4	2678	0
19	5497	-	574.4	1741	1
20	5522	-	1216.5	822	1
21	5495	-	801.3	1248	1
22	5512	-	488.5	2047	1
23	5495	-	956.0	1046	1
24	5510	-	517.6	1932	1
25	5510	-	1422.5	703	1
26	5500	-	542.0	1845	1
27	5526	-	741.3	1349	1
28	5497	-	881.8	1134	1
29	5514	-	427.4	2340	1
30	5526	-	628.9	1590	1
'		Detection Percentage	(%)		93.333
Limit					60%
Test Res	ult	<u> </u>	<u> </u>		Complied

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Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5529	2.6	221	23	1
2	5516	4.6	198	27	1
3	5513	1.1	184	29	1
4	5514	4.8	203	24	1
5	5512	2.4	162	25	1
6	5490	3.4	204	28	1
7	5503	2.3	170	27	1
8	5522	3.5	184	23	1
9	5508	4.9	150	27	1
10	5497	4.6	211	29	1
11	5519	2.9	158	23	0
12	5516	2.6	226	27	1
13	5505	1.6	204	26	1
14	5507	3.9	181	25	1
15	5530	4.6	202	24	1
16	5493	4.1	194	27	1
17	5512	2.3	193	28	1
18	5493	3.9	173	29	1
19	5505	4.3	188	23	1
20	5496	1.5	215	26	1
21	5497	4.9	227	27	1
22	5507	1.1	199	23	0
23	5517	4.5	155	29	1
24	5515	4.0	190	27	1
25	5529	2.4	151	23	1
26	5526	2.5	180	28	1
27	5492	2.5	228	23	1
28	5520	2.5	203	25	1
29	5500	1.5	188	25	1
30	5524	1.9	217	24	1
•	D	etection Percentage (%)		93.333
Limit	60%				
Test Resu	Complied				

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Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5510	8.0	205	16	1
2	5526	6.7	382	18	1
3	5503	8.6	418	16	1
4	5520	9.4	351	17	1
5	5501	7.4	383	18	1
6	5494	9.8	232	16	1
7	5520	9.1	377	17	1
8	5492	9.6	457	16	0
9	5512	8.0	471	18	1
10	5498	9.0	304	18	1
11	5516	8.0	316	17	1
12	5529	9.8	325	16	1
13	5506	8.0	409	17	1
14	5511	9.9	200	17	1
15	5499	8.8	458	16	1
16	5529	8.0	232	18	1
17	5512	8.3	250	16	1
18	5514	8.7	270	16	1
19	5515	7.7	350	17	1
20	5501	7.1	230	16	0
21	5504	7.3	416	18	1
22	5498	7.6	498	18	1
23	5505	7.3	286	17	1
24	5495	7.3	287	16	0
25	5509	7.5	462	17	1
26	5529	6.2	300	17	1
27	5508	6.4	323	18	1
28	5495	7.1	420	16	1
29	5491	7.2	395	18	1
30	5500	8.4	377	16	1
•	D	etection Percentage (%)		90.000
Limit	60%				
Test Resu	ult				Complied

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Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5524	18.0	242	15	1
2	5520	19.9	279	12	1
3	5506	12.9	487	14	1
4	5524	15.0	452	13	1
5	5506	16.3	230	12	1
6	5526	19.8	238	13	1
7	5518	18.2	420	16	1
8	5529	16.3	452	15	1
9	5510	14.2	495	12	1
10	5526	17.8	228	16	0
11	5512	19.1	211	16	1
12	5518	18.4	283	15	1
13	5529	11.8	411	12	1
14	5524	14.2	284	13	1
15	5496	13.9	202	12	1
16	5526	17.8	340	14	0
17	5509	15.6	290	16	1
18	5519	14.6	250	16	1
19	5528	14.4	484	15	1
20	5530	18.9	387	13	1
21	5512	11.1	348	15	1
22	5512	13.8	291	16	1
23	5492	14.3	295	12	1
24	5526	12.5	300	12	1
25	5505	12.5	322	14	1
26	5491	12.5	383	13	1
27	5529	15.7	322	16	1
28	5499	19.8	469	13	0
29	5499	18.6	406	15	1
30	5498	15.9	238	14	1
Ш	D	etection Percentage (%)		90.000
mit	60%				
est Resi		Complied			

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	93.333
3	90.000
4	90.000
Aggregate (Radar Types 1-4)	91.667
Limit	80%
Test Result	Complied

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5510	5490	5530	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5510	1
2	20	0	5510	1
3	7	0	5510	1
4	8	0	5510	1
5	9	0	5510	1
6	10	0	5510	1
7	11	0	5510	1
8	12	0	5510	1
9	13	0	5510	1
10	14	0	5510	1
11	15	6	5496	1
12	16	6.4	5496	1
13	17	6.8	5497	1
14	20	8	5498	1
15	19	7.6	5498	1
16	18	7.2	5497	0
17	17	6.8	5497	1
18	16	6.4	5496	1
19	15	6	5496	1
20	14	5.6	5496	1
21	13	5.2	5525	1
22	12	4.8	5525	1
23	11	4.4	5526	1
24	10	4	5526	1
25	9	3.6	5526	1
26	8	3.2	5527	1
27	18	7.2	5523	1
28	19	7.6	5522	1
29	20	8	5522	1
30	5	2	5528	1
	To	otal		29
	Detection Per	centage (%)		97%
₋imit		· ,		80%
Test Result				Complied

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Trial Number			1				
Number of Bursts in Trial			8				
Chirp Center Frequency			5510				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	62.1	5	-	-	1091	
2	2	56	5	1729	-	133	
3	2	91.3	5	1230	-	1057	
4	3	50.7	5	1762	1616	1442	
5	2	92.6	5	1723	-	544	
6	2	87.3	5	1302	-	1089	
7	2	59.5	5	1291	-	1374	
8	2	52.2	5	1653	-	1237	
Detection Check (1=Detection; 0=No Detection)						1	

Trial Number Number of Bursts in Trial Chirp Center Frequency			2 9 5510											
								Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)
								1	3	90	20	1007	1326	30
2	2	73.7	20	1785	-	979								
3	1	78.1	20	-	-	683								
4	2	92.4	20	1281	-	950								
5	1	61.2	20	-	-	612								
6	3	67.2	20	1525	1870	17								
7	1	78.5	20	-	-	429								
8	2	60.3	20	1931	-	936								
9	3	92.9	20	1403	1476	548								
Detection Check (1=Detection; 0=No Detection)						1								

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Trial Number Number of Bursts in Trial			3 10				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	63.4	7	1574	1607	801	
2	1	98	7	-	-	966	
3	1	58.7	7	-	-	185	
4	1	88	7	-	-	1012	
5	3	79.5	7	1562	1370	943	
6	3	57.1	7	1900	1188	686	
7	2	64.4	7	1090	-	599	
8	1	78.7	7	-	-	1089	
9	1	69.3	7	-	-	188	
10	3	55.3	7	1375	1691	933	
Detection Check (1=Detection; 0=No Detection)						1	

Trial Number Number of Bursts in Trial			4 11				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.3	8	1642	_	24	
2	1	83.1	8	-	-	985	
3	2	59.5	8	1680	-	988	
4	2	59.8	8	1786	-	800	
5	2	77.6	8	1617	-	339	
6	2	79.9	8	1553	-	1040	
7	1	56	8	-	-	544	
8	3	71.4	8	1406	1927	452	
9	1	97.4	8	-	-	204	
10	2	98.3	8	1037	-	926	
11	1	63.6	8	-	-	1052	
Detection Check (1=Detection; 0=No Detection)						1	

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Trial Number			5 12			
Number of Bur	sts in Trial					
Chirp Center Frequency				55	10	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Pulse 2-to-3 Location Within			
1	1	50	9	_	_	Interval (ms) 557
2	2	62.5	9	1731	-	567
3	2	55.4	9	1070	-	460
4	1	65.7	9	-	-	4
5	2	58	9	1512	-	64
6	2	60.9	9	1230	-	650
7	3	89.6	9	1598	1738	235
8	3	84.4	9	1271	1617	873
9	3	72.3	9	1498	1321	901
10	1	58.9	9	-	-	663
11	2	74.8	9	1584	-	919
12	1	71.8	9	-	-	375
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number				6				
Number of Bu	rsts in Trial			13				
Chirp Center Frequency				55	10			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (r					
1	2	88.1	10	1257	-	846		
2	1	58.7	10	-	-	725		
3	2	97.1	10	1037	-	30		
4	3	83.1	10	1029	1106	490		
5	1	62.1	10	-	-	262		
6	2	71.4	10	1058	-	283		
7	2	86.3	10	1867	-	49		
8	3	77.3	10	1418	1876	634		
9	1	78.9	10	-	-	304		
10	3	79.2	10	1055	1572	564		
11	3	52	10	1582	1836	852		
12	3	56.5	10	1195	1542	525		
13	3	100	10	1638	1729	750		
Detection Ched	ck (1=Detection; 0	=No Detection)				1		

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Trial Number			7				
Number of Bur	rsts in Trial		14				
Chirp Center F	Chirp Center Frequency			55	10		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	2	92.7	11	1208	-	231	
2	2	81.3	11	1144	-	804	
3	2	60.4	11	1555	-	34	
4	2	62.1	11	1320	-	427	
5	1	50	11	-	-	577	
6	3	65.9	11	1020	1365	3	
7	2	73.8	11	1308	-	51	
8	2	74.3	11	1143	-	360	
9	1	62.9	11	-	-	394	
10	2	74.8	11	1404	-	317	
11	2	69.7	11	1309	-	532	
12	2	69.8	11	1688	-	339	
13	2	77.4	11	1857	-	381	
14	1	55.1	11	-	-	426	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			8				
Number of Bur	sts in Trial			15			
Chirp Center Frequency				55	10		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (r				
1	1	91.7	12	-	-	776	
2	2	90	12	1196	-	187	
3	3	92.3	12	1486	1853	448	
4	2	66.8	12	1545	-	702	
5	1	64	12	-	-	403	
6	3	95.4	12	1123	1473	230	
7	3	66.8	12	1867	1401	604	
8	3	67.7	12	1472	1397	38	
9	1	68.2	12	-	-	735	
10	2	82.2	12	1297	-	610	
11	1	92.1	12	-	-	618	
12	2	57	12	1764	-	705	
13	2	58.5	12	1310	-	22	
14	3	85.5	12	1630	1447	641	
15	2	82.2	12	1371	-	109	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			9				
Number of Bu	rsts in Trial		16				
Chirp Center Frequency				55	10		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	74.4	13	1707	-	442	
2	2	63.6	13	1725	-	280	
3	2	71.3	13	1704	-	459	
4	3	77.6	13	1063	1405	197	
5	3	65.2	13	1731	1294	101	
6	3	55.1	13	1109	1549	17	
7	2	96.8	13	1034	-	131	
8	3	80.8	13	1533	1051	365	
9	1	60.4	13	-	-	222	
10	2	61.8	13	1312	-	371	
11	2	71.3	13	1657	-	33	
12	2	98.1	13	1024	-	291	
13	1	57.9	13	-	-	188	
14	1	91.8	13	-	-	163	
15	2	56.7	13	1259	-	426	
16	2	89.7	13	1690	-	606	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number				1	0		
Number of Bu	ırsts in Trial		17				
Chirp Center Frequency				55	10		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	_	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	_	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	
17	1	72.7	14	-	-	564	
Detection Che	ck (1=Detection; C	=No Detection)				1	

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Trial Number			11				
Number of B	ursts in Trial		18				
Chirp Center	Frequency			54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	_	-	604	
5	1	81.2	15	_	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	_	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	_	-	439	
16	1	64.5	15	-	-	188	
17	1	88.5	15	-	-	419	
18	1	60.6	15	-	-	205	
Detection Che	eck (1=Detection; C	=No Detection)				1	

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Trial Number			12				
Number of B	ursts in Trial		19				
Chirp Center	Chirp Center Frequency			54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within	
1	2	00.5	46	1200		Interval (ms)	
1	2	90.5	16	1299	-	381	
2		88.4	16	1418	-	327	
3	2	53.7	16	1055	-	536	
4	1	80.5	16	-	-	285	
5	1	50.4	16	-	-	398	
6	2	61.2	16	1749	-	439	
7	2	78.8	16	1065	-	129	
8	3	75	16	1748	1820	325	
9	2	96.7	16	1254	-	440	
10	3	76.3	16	1848	1106	397	
11	1	73.3	16	-	-	232	
12	2	92.4	16	1317	-	91	
13	2	92.4	16	1854	-	256	
14	3	64.4	16	1240	1634	582	
15	2	67.3	16	1473	-	117	
16	2	84.1	16	1795	-	202	
17	1	80.9	16	-	-	135	
18	1	74.6	16	-	-	396	
19	2	97.6	16	1805	-	615	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number			13				
Number of Bu	rsts in Trial			20				
Chirp Center I	Frequency			5497				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	66.1	17	1417	-	388		
2	2	86.7	17	1693	-	348		
3	2	70.5	17	1263	-	215		
4	2	78	17	1446	-	28		
5	2	66	17	1185	-	585		
6	2	80.6	17	1855	-	65		
7	1	95.5	17	-	-	92		
8	1	98.8	17	-	-	68		
9	3	64.3	17	1641	1108	517		
10	1	75.1	17	-	-	121		
11	2	72.6	17	1499	-	448		
12	1	60.3	17	-	-	567		
13	2	54.9	17	1056	-	245		
14	2	98.8	17	1023	-	584		
15	2	60.9	17	1243	-	579		
16	2	62.7	17	1226	-	464		
17	1	80.1	17	-	-	89		
18	2	70.9	17	1711	-	153		
19	1	90.7	17	-	-	282		
20	1	98.9	17	-	-	71		
Detection Ched	ck (1=Detection; C	=No Detection)				1		

Trial Number			14				
Number of Bu	Number of Bursts in Trial			3	3		
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Starting Location Within				
1	2	67.5	20	1542		Interval (ms) 947	
2	3	83.6	20	1272	1696	124	
3	2	93.2	20	1877	-	701	
4	1	55.6	20	-	-	1123	
5	3	84.2	20	1733	1619	756	
6	3	69.1	20	1612	1071	1	
7	2	66.9	20	1905	-	7	
8	3	86.8	20 1697 1621 1082				
Detection Chec	k (1=Detection; 0	=No Detection)		•		1	

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Trial Number			15			
Number of Bu	Number of Bursts in Trial			()	
Chirp Center Frequency				54	98	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (m			
1	2	62.2	19	1571	-	949
2	2	85	19	1669	-	189
3	2	64.5	19	1505	-	176
4	2	50.4	19	1325	-	538
5	2	66.1	19	1483	-	908
6	2	71.2	19	1110	-	1017
7	3	53.7	19	1445	1677	492
8	3	62.5	19	1596	1341	349
9	3	62	19	1929	1221	1105
Detection Ched	ck (1=Detection; 0	=No Detection)				1

Trial Number			16				
Number of Bur	sts in Trial			10			
Chirp Center Frequency				54	97		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	80.5	18	1910	-	284	
2	2	64.2	18	1661	-	751	
3	2	90.1	18	1041	-	491	
4	2	69.8	18	1495	-	107	
5	1	73.1	18	-	-	490	
6	3	77.2	18	1418	1145	1155	
7	3	52.6	18	1732	1787	772	
8	2	71.4	18	1562	-	121	
9	2	89.8	18	1491	-	89	
10	2	76.4	18	1355	-	615	
Detection Chec	k (1=Detection; 0	=No Detection)		-		0	

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Trial Number	Trial Number			17			
Number of Bu	rsts in Trial			11			
Chirp Center Frequency				54	97		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (m				
1	2	51.2	17	1236	-	740	
2	1	71.7	17	-	-	941	
3	2	74.7	17	1164	-	370	
4	2	50.9	17	1919	-	371	
5	2	65.2	17	1206	-	1033	
6	2	98	17	1182	-	346	
7	2	58.7	17	1612	-	639	
8	1	63.8	17	-	-	1056	
9	3	86.3	17	1545	1065	205	
10	1	94.4	17	-	-	753	
11	3	88.5	17	1699	1319	58	
Detection Ched	ck (1=Detection; C	=No Detection)				1	

Trial Number			18			
Number of Bur	sts in Trial		12			
Chirp Center Frequency				54	96	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within			
1	2	88.7	16	1405	_	Interval (ms) 448
2	3	90.2	16	1544	1235	621
3	1	96.5	16	-	-	512
4	2	80.5	16	1090	-	321
5	2	63.7	16	1268	-	798
6	1	53.4	16	-	-	809
7	2	52.3	16	1043	-	301
8	3	54.7	16	1701	1104	796
9	3	75.6	16	1923	1729	669
10	2	59.2	16	1244	-	369
11	1	56.3	16	-	-	51
12	2	87.8	16	1608	-	733
Detection Chec	k (1=Detection; 0	=No Detection)				1

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Trial Number			19				
Number of Bur	sts in Trial		13				
Chirp Center Frequency				54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	2	68.2	15	1104	-	229	
2	2	58.4	15	1627	-	488	
3	3	74.7	15	1861	1015	137	
4	2	58.2	15	1593	-	520	
5	1	51.6	15	-	-	799	
6	2	94.7	15	1469	-	43	
7	2	70.7	15	1091	-	126	
8	2	82.9	15	1472	-	607	
9	3	62.7	15	1168	1453	527	
10	2	63.1	15	1529	-	143	
11	1	96.1	15	-	-	176	
12	2	57	15	1457	-	882	
13	3	95.6	15	1707	1501	214	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			20			
Number of Bui	rsts in Trial		14				
Chirp Center F	Chirp Center Frequency			54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	1	95.7	14	-	-	117	
2	1	93.1	14	-	-	720	
3	1	55.8	14	-	-	297	
4	1	76.7	14	-	-	284	
5	2	68	14	1686	-	472	
6	3	94.1	14	1796	1393	264	
7	2	53.9	14	1293	-	525	
8	1	99.3	14	-	-	155	
9	2	73.3	14	1458	-	65	
10	2	93.3	14	1196	-	451	
11	3	55.8	14	1895	1034	243	
12	1	66.4	14	-	-	228	
13	2	65.6	14	1732	-	746	
14	2	76.5	14	1187	-	522	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number			21			
Number of Bu	rsts in Trial		15				
Chirp Center Frequency				55	25		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	85.1	13	-	-	565	
2	2	72.5	13	1648	-	211	
3	1	67.5	13	-	-	348	
4	2	56.1	13	1360	-	156	
5	1	71.1	13	-	-	718	
6	2	93.1	13	1391	-	400	
7	1	56.5	13	-	-	482	
8	1	63.8	13	-	-	703	
9	2	67.4	13	1727	-	780	
10	1	52.3	13	-	-	102	
11	3	62.4	13	1228	1715	304	
12	2	53.3	13	1630	-	57	
13	2	83.1	13	1205	-	768	
14	2	93.7	13	1085	-	461	
15	2	90.7	13	1297	-	746	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

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Trial Number			22				
Number of Bu	rsts in Trial		16				
Chirp Center Frequency				55	25		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	98.8	12	1439	-	95	
2	1	54.5	12	-	-	676	
3	2	80.5	12	1360	-	8	
4	2	55.9	12	1906	-	373	
5	2	72.1	12	1623	-	254	
6	2	84.4	12	1604	-	480	
7	1	78.5	12	-	-	663	
8	1	88	12	-	-	314	
9	2	74.7	12	1157	-	596	
10	2	97.1	12	1673	-	264	
11	1	81.6	12	-	-	740	
12	1	83.6	12	-	-	163	
13	3	87.6	12	1757	1322	628	
14	2	58.5	12	1372	-	132	
15	3	91.8	12	1767	1183	106	
16	2	58.8	12	1432	-	659	
Detection Chec	k (1=Detection; C	=No Detection)				1	

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Trial Number			23			
Number of Bu	rsts in Trial		17			
Chirp Center Frequency				55	26	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	1	96	11	-	-	284
2	2	92.5	11	1241	-	488
3	2	89.5	11	1347	-	76
4	2	74.8	11	1607	-	688
5	2	60.6	11	1523	-	28
6	2	71.5	11	1659	-	383
7	2	71.1	11	1454	-	182
8	1	98.7	11	_	-	20
9	2	85.1	11	1770	-	576
10	2	89.2	11	1086	-	410
11	2	60.7	11	1101	-	458
12	2	75.2	11	1719	-	348
13	2	75.7	11	1799	-	481
14	3	56.7	11	1132	1884	587
15	2	65	11	1885	-	480
16	2	64.6	11	1910	-	195
17	3	69.9	11	1410	1190	396
Detection Chec	ck (1=Detection; C	=No Detection)				1

Trial Number			24				
Number of Bur	sts in Trial			1	8		
Chirp Center Frequency				55	26		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	83.8	10	1290	1021	536	
2	2	66.9	10	1112	-	44	
3	3	91	10	1220	1504	611	
4	2	86.1	10	1678	-	456	
5	3	65.5	10	1928	1222	330	
6	1	62.6	10	-	-	297	
7	3	68.7	10	1505	1200	351	
8	3	59.2	10	1452	1114	230	
9	1	73.9	10	-	-	222	
10	1	77.2	10	-	-	57	
11	2	96.4	10	1357	-	399	
12	2	99.9	10	1173	-	299	
13	2	99.9	10	1520	-	464	
14	1	86.7	10	-	-	294	
15	1	92.6	10	-	-	653	
16	1	77.1	10	-	-	550	
17	2	81.1	10	1664	-	566	
18	3	68.4	10	1536	1309	580	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number				25				
Number of B	ursts in Trial		19					
Chirp Center Frequency				55	26			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	3	68.2	9	1723	1868	471		
2	3	83.7	9	1711	1405	368		
3	2	69.7	9	1781	-	425		
4	1	59.7	9	-	-	440		
5	2	96.7	9	1484	-	123		
6	2	95.8	9	1319	_	261		
7	3	71.3	9	1095	1354	332		
8	3	53.2	9	1527	1427	427		
9	2	69.5	9	1771	-	397		
10	3	63.9	9	1075	1447	67		
11	2	93.4	9	1783	-	174		
12	2	77.3	9	1564	-	17		
13	2	73.1	9	1294	-	216		
14	1	77.4	9	-	-	292		
15	3	57.2	9	1722	1886	619		
16	2	68.7	9	1629	-	233		
17	1	60.8	9	-	-	226		
18	3	69.7	9	1128	1224	599		
19	1	62.2	9	-	-	433		
Detection Che	ck (1=Detection; 0	=No Detection)	·	<u> </u>	·	1		

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Trial Number			26				
Number of Bui	rsts in Trial		20				
Chirp Center F	Chirp Center Frequency			55	27		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	80.5	8	-	-	90	
2	3	62.6	8	1406	1343	319	
3	3	85.6	8	1190	1529	384	
4	2	83.9	8	1208	-	567	
5	2	92.4	8	1488	-	234	
6	2	54	8	1529	-	535	
7	3	81.3	8	1501	1812	325	
8	1	98.5	8	-	-	532	
9	1	85.8	8	-	-	272	
10	2	84.7	8	1593	-	182	
11	2	83.3	8	1705	-	134	
12	2	79.8	8	1567	-	286	
13	1	77.9	8	-	-	368	
14	3	98.4	8	1510	1569	290	
15	2	79.9	8	1588	-	231	
16	3	78	8	1140	1353	353	
17	3	55.2	8	1700	1327	53	
18	3	71.9	8	1081	1224	44	
19	1	62	8	-	-	298	
20	3	70.5	8	1888	1442	529	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			27				
Number of Bui	Number of Bursts in Trial			3	3		
Chirp Center F	Chirp Center Frequency			55	23		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within				
1	2	69.1	18	1076		Interval (ms) 1436	
2	2	62.1	18	1688		22	
3	2	94.8	18	1891	_	897	
4	1	75.8	18	-	-	1186	
5	2	65.4	18	1713	-	589	
6	2	97.7	18	1292	-	614	
7	3	98.1	18	1670	1711	506	
8	2	85.4	18 1672 - 776				
Detection Chec	k (1=Detection; 0	=No Detection)		•		1	

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Trial Number			28				
Number of Bursts in Trial				9	9		
Chirp Center Frequency			55	22			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (m				
1	3	82	19	1233	1713	679	
2	3	87.7	19	1554	1123	473	
3	2	98.9	19	1518	-	869	
4	1	55	19	-	-	719	
5	1	93.6	19	-	-	902	
6	2	58.7	19	1641	-	1243	
7	2	88.7	19	1387	-	410	
8	1	60.3	19	-	-	1154	
9	1	97.7	19 512				
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			29				
Number of Bu	lumber of Bursts in Trial			10			
Chirp Center I	Chirp Center Frequency			55	22		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	1	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	_	-	895	
4	1	74.6	20	_	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Ched	ck (1=Detection; 0	=No Detection)				1	

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Trial Number			30			
Number of B	r of Bursts in Trial			1		
Chirp Center	Frequency			55	28	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	3	59.9	5	1901	1196	935
2	2	77.1	5	1590	-	1038
3	2	62.7	5	1227	-	690
4	1	77.1	5	-	-	547
5	3	99.8	5	1798	1790	551
6	2	61.5	5	1135	-	876
7	2	77.5	5	1583	-	448
8	2	57.3	5	1890	-	736
9	2	53.5	5	1757	-	362
10	1	66.6	5	-	-	836
11	3	80.7	5	1811	1289	410
Detection Che	eck (1=Detection; 0	=No Detection)				1

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Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5510	9	1	333	1
2	5510	9	1	333	1
3	5510	9	1	333	1
4	5510	9	1	333	1
5	5510	9	1	333	1
6	5510	9	1	333	1
7	5510	9	1	333	1
8	5510	9	1	333	1
9	5510	9	1	333	1
10	5510	9	1	333	1
11	5510	9	1	333	1
12	5510	9	1	333	1
13	5510	9	1	333	1
14	5510	9	1	333	1
15	5510	9	1	333	1
16	5510	9	1	333	1
17	5510	9	1	333	1
18	5510	9	1	333	1
19	5510	9	1	333	1
20	5510	9	1	333	1
21	5510	9	1	333	1
22	5510	9	1	333	1
23	5510	9	1	333	1
24	5510	9	1	333	1
25	5510	9	1	333	1
26	5510	9	1	333	1
27	5510	9	1	333	1
28	5510	9	1	333	1
29	5510	9	1	333	1
30	5510	9	1	333	1
		etection Percenta	age (%)		100.000
imit			· ,		70%
est Res	ult				Complied

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Modulation Mode: 802.11ac (VHT80)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5491	1	1930.5	518	1
2	5527	23	326.2	3066	1
3	5523	19	1139.0	878	1
4	5541	12	1355.0	738	1
5	5557	4	1730.1	578	1
6	5492	8	1519.8	658	1
7	5497	15	1253.1	798	1
8	5529	6	1618.1	618	1
9	5538	14	1285.3	778	1
10	5538	3	1792.1	558	1
11	5555	13	1319.3	758	1
12	5530	9	1474.9	678	1
13	5519	7	1567.4	638	1
14	5537	17	1193.3	838	0
15	5533	10	1432.7	698	1
16	5529	-	1692.0	591	1
17	5540	-	328.1	3048	1
18	5524	-	373.4	2678	1
19	5495	-	574.4	1741	1
20	5493	-	1216.5	822	1
21	5554	-	801.3	1248	1
22	5527	-	488.5	2047	0
23	5526	-	956.0	1046	1
24	5539	-	517.6	1932	1
25	5509	-	1422.5	703	1
26	5559	-	542.0	1845	1
27	5490	-	741.3	1349	1
28	5528	-	881.8	1134	1
29	5561	-	427.4	2340	1
30	5544	-	628.9	1590	1
'		Detection Percentage	(%)		93.333
Limit					60%
Test Res	ult				Complied

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Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5497	2.6	221	23	1
2	5498	4.6	198	27	1
3	5512	1.1	184	29	1
4	5515	4.8	203	24	1
5	5509	2.4	162	25	1
6	5536	3.4	204	28	1
7	5521	2.3	170	27	1
8	5524	3.5	184	23	1
9	5547	4.9	150	27	1
10	5513	4.6	211	29	1
11	5527	2.9	158	23	1
12	5544	2.6	226	27	1
13	5498	1.6	204	26	0
14	5529	3.9	181	25	1
15	5550	4.6	202	24	1
16	5538	4.1	194	27	1
17	5524	2.3	193	28	1
18	5524	3.9	173	29	1
19	5519	4.3	188	23	1
20	5561	1.5	215	26	0
21	5490	4.9	227	27	1
22	5505	1.1	199	23	1
23	5525	4.5	155	29	1
24	5529	4.0	190	27	1
25	5561	2.4	151	23	1
26	5511	2.5	180	28	1
27	5498	2.5	228	23	1
28	5528	2.5	203	25	0
29	5540	1.5	188	25	1
30	5526	1.9	217	24	1
		etection Percentage (%)		90.000
imit		<u> </u>	•		60%
est Resi	ult				Complied

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Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5493	8.0	205	16	1
2	5563	6.7	382	18	1
3	5529	8.6	418	16	1
4	5554	9.4	351	17	1
5	5553	7.4	383	18	1
6	5491	9.8	232	16	1
7	5511	9.1	377	17	1
8	5569	9.6	457	16	1
9	5495	8.0	471	18	1
10	5530	9.0	304	18	1
11	5529	8.0	316	17	1
12	5510	9.8	325	16	1
13	5533	8.0	409	17	1
14	5516	9.9	200	17	0
15	5528	8.8	458	16	1
16	5541	8.0	232	18	1
17	5559	8.3	250	16	1
18	5549	8.7	270	16	1
19	5531	7.7	350	17	1
20	5492	7.1	230	16	1
21	5533	7.3	416	18	1
22	5552	7.6	498	18	1
23	5521	7.3	286	17	1
24	5570	7.3	287	16	1
25	5540	7.5	462	17	1
26	5553	6.2	300	17	1
27	5513	6.4	323	18	1
28	5524	7.1	420	16	1
29	5516	7.2	395	18	0
30	5528	8.4	377	16	1
•	D	etection Percentage (%)		93.333
Limit					60%
Test Resu	ult				Complied

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Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5494	18.0	242	15	1
2	5512	19.9	279	12	1
3	5495	12.9	487	14	1
4	5562	15.0	452	13	1
5	5546	16.3	230	12	1
6	5514	19.8	238	13	1
7	5567	18.2	420	16	1
8	5556	16.3	452	15	1
9	5510	14.2	495	12	1
10	5539	17.8	228	16	0
11	5522	19.1	211	16	1
12	5504	18.4	283	15	1
13	5508	11.8	411	12	1
14	5564	14.2	284	13	1
15	5532	13.9	202	12	1
16	5491	17.8	340	14	1
17	5553	15.6	290	16	1
18	5510	14.6	250	16	1
19	5566	14.4	484	15	1
20	5550	18.9	387	13	0
21	5500	11.1	348	15	1
22	5523	13.8	291	16	1
23	5501	14.3	295	12	1
24	5541	12.5	300	12	1
25	5564	12.5	322	14	1
26	5502	12.5	383	13	1
27	5535	15.7	322	16	1
28	5559	19.8	469	13	1
29	5501	18.6	406	15	1
30	5560	15.9	238	14	1
	D	etection Percentage (%)		93.333
Limit			•		60%
Test Resu	ult				Complied

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	90.000
3	93.333
4	93.333
Aggregate (Radar Types 1-4)	92.500
Limit	80%
Test Result	Complied

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		Detection
5530	5490	5570	VSG Freq. (MHz)	
Trial	Chirp	Offset		
1	5	0	5530	1
2	20	0	5530	1
3	7	0	5530	1
4	8	0	5530	1
5	9	0	5530	1
6	10	0	5530	1
7	11	0	5530	1
8	12	0	5530	1
9	13	0	5530	1
10	14	0	5530	1
11	15	6	5496	1
12	16	6.4	5496	1
13	17	6.8	5497	1
14	20	8	5498	1
15	19	7.6	5498	1
16	18	7.2	5497	1
17	17	6.8	5497	0
18	16	6.4	5496	1
19	15	6	5496	1
20	14	5.6	5496	1
21	13	5.2	5565	1
22	12	4.8	5565	1
23	11	4.4	5566	0
24	10	4	5566	1
25	9	3.6	5566	1
26	8	3.2	5567	1
27	18	7.2	5563	1
28	19	7.6	5562	1
29	20	8	5562	0
30	5	2	5568	1
	27			
		90%		
imit	Detection Per	<u> </u>		80%
est Result				Complied

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Trial Number			1				
Number of Bu	rsts in Trial			8			
Chirp Center F	requency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Local Spacing (us) Spacing (us) With Interv				
1	1	62.1	5	-	-	1091	
2	2	56	5	1729	-	133	
3	2	91.3	5	1230	-	1057	
4	3	50.7	5	1762	1616	1442	
5	2	92.6	5	1723	-	544	
6	2	87.3	5	1302	-	1089	
7	2	59.5	5	1291	-	1374	
8	2	52.2	5	1237			
Detection Chec	k (1=Detection; C	=No Detection)				1	

Trial Number			2				
Number of Bu	ırsts in Trial		9				
Chirp Center	Frequency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Loca Spacing (us) Spacing (us) With Interva				
1	3	90	20	1007	1326	30	
2	2	73.7	20	1785	-	979	
3	1	78.1	20	-	-	683	
4	2	92.4	20	1281	-	950	
5	1	61.2	20	-	-	612	
6	3	67.2	20	1525	1870	17	
7	1	78.5	20	-	-	429	
8	2	60.3	20 1931 - 936				
9	3	92.9	20	1403	1476	548	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number			3			
Number of Bu	rsts in Trial	10				
Chirp Center F	Chirp Center Frequency			55	30	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	3	63.4	7	1574	1607	801
2	1	98	7	-	-	966
3	1	58.7	7	-	-	185
4	1	88	7	-	-	1012
5	3	79.5	7	1562	1370	943
6	3	57.1	7	1900	1188	686
7	2	64.4	7	1090	-	599
8	1	78.7	7	-	-	1089
9	1	69.3	7	-	-	188
10	3	55.3	7	1375	1691	933
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number				4	1		
Number of Bui	rsts in Trial			11			
Chirp Center Frequency				55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (us)				
1	2	74.3	8	1642	-	24	
2	1	83.1	8	-	-	985	
3	2	59.5	8	1680	-	988	
4	2	59.8	8	1786	-	800	
5	2	77.6	8	1617	-	339	
6	2	79.9	8	1553	-	1040	
7	1	56	8	-	-	544	
8	3	71.4	8	1406	1927	452	
9	1	97.4	8	-	-	204	
10	2	98.3	8	1037	-	926	
11	1	63.6	8	-	-	1052	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			5				
Number of Bui	rsts in Trial			12			
Chirp Center Frequency				55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within				
1	1	50	9	_	_	Interval (ms) 557	
2	2	62.5	9	1731	_	567	
3	2	55.4	9	1070	-	460	
4	1	65.7	9	-	-	4	
5	2	58	9	1512	-	64	
6	2	60.9	9	1230	-	650	
7	3	89.6	9	1598	1738	235	
8	3	84.4	9	1271	1617	873	
9	3	72.3	9	1498	1321	901	
10	1	58.9	9	-	-	663	
11	2	74.8	9	1584	-	919	
12	1	71.8	9	-	-	375	
Detection Chec	k (1=Detection; C	=No Detection)				1	

Trial Number	Trial Number			6			
Number of Bu	rsts in Trial		13				
Chirp Center Frequency				55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	2	88.1	10	1257	-	846	
2	1	58.7	10	_	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	_	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	_	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

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Trial Number			7				
Number of Bur	rsts in Trial		14				
Chirp Center F	Chirp Center Frequency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	2	92.7	11	1208	-	231	
2	2	81.3	11	1144	-	804	
3	2	60.4	11	1555	-	34	
4	2	62.1	11	1320	-	427	
5	1	50	11	-	-	577	
6	3	65.9	11	1020	1365	3	
7	2	73.8	11	1308	-	51	
8	2	74.3	11	1143	-	360	
9	1	62.9	11	-	-	394	
10	2	74.8	11	1404	-	317	
11	2	69.7	11	1309	-	532	
12	2	69.8	11	1688	-	339	
13	2	77.4	11	1857	-	381	
14	1	55.1	11	-	-	426	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			8				
Number of Bur	sts in Trial			15			
Chirp Center Frequency				55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Loc Spacing (us) Spacing (us) Wilnterv				
1	1	91.7	12	-	-	776	
2	2	90	12	1196	-	187	
3	3	92.3	12	1486	1853	448	
4	2	66.8	12	1545	-	702	
5	1	64	12	-	-	403	
6	3	95.4	12	1123	1473	230	
7	3	66.8	12	1867	1401	604	
8	3	67.7	12	1472	1397	38	
9	1	68.2	12	-	-	735	
10	2	82.2	12	1297	-	610	
11	1	92.1	12	-	-	618	
12	2	57	12	1764	-	705	
13	2	58.5	12	1310	-	22	
14	3	85.5	12	1630	1447	641	
15	2	82.2	12	1371	-	109	
Detection Chec	k (1=Detection; 0	=No Detection)	_	·	·	1	

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Trial Number	Trial Number			9				
Number of Bu	rsts in Trial		16					
Chirp Center F	Chirp Center Frequency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	74.4	13	1707	-	442		
2	2	63.6	13	1725	-	280		
3	2	71.3	13	1704	-	459		
4	3	77.6	13	1063	1405	197		
5	3	65.2	13	1731	1294	101		
6	3	55.1	13	1109	1549	17		
7	2	96.8	13	1034	-	131		
8	3	80.8	13	1533	1051	365		
9	1	60.4	13	-	-	222		
10	2	61.8	13	1312	-	371		
11	2	71.3	13	1657	-	33		
12	2	98.1	13	1024	-	291		
13	1	57.9	13	-	-	188		
14	1	91.8	13	-	-	163		
15	2	56.7	13	1259	-	426		
16	2	89.7	13	1690	-	606		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number				1	0		
Number of Bu	rsts in Trial		17				
Chirp Center F	Chirp Center Frequency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	
17	1	72.7	14	-	-	564	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			11				
Number of Bu	ırsts in Trial		18				
Chirp Center	Chirp Center Frequency			54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	-	-	439	
16	1	64.5	15	-	-	188	
17	1	88.5	15	-	-	419	
18	1	60.6	15	-	-	205	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number				12				
Number of B	ursts in Trial		19					
Chirp Center	Chirp Center Frequency			54	96			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	90.5	16	1299	_	381		
2	2	88.4	16	1418	-	327		
3	2	53.7	16	1055	-	536		
4	1	80.5	16	-	-	285		
5	1	50.4	16	-	-	398		
6	2	61.2	16	1749	-	439		
7	2	78.8	16	1065	-	129		
8	3	75	16	1748	1820	325		
9	2	96.7	16	1254	-	440		
10	3	76.3	16	1848	1106	397		
11	1	73.3	16	-	-	232		
12	2	92.4	16	1317	-	91		
13	2	92.4	16	1854	-	256		
14	3	64.4	16	1240	1634	582		
15	2	67.3	16	1473	-	117		
16	2	84.1	16	1795	-	202		
17	1	80.9	16	-	-	135		
18	1	74.6	16	-	-	396		
19	2	97.6	16	1805	-	615		
Detection Che	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	Trial Number			13				
Number of Bu	rsts in Trial			20				
Chirp Center F	requency			54	97			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	66.1	17	1417	-	388		
2	2	86.7	17	1693	-	348		
3	2	70.5	17	1263	-	215		
4	2	78	17	1446	-	28		
5	2	66	17	1185	-	585		
6	2	80.6	17	1855	-	65		
7	1	95.5	17	-	-	92		
8	1	98.8	17	-	-	68		
9	3	64.3	17	1641	1108	517		
10	1	75.1	17	-	-	121		
11	2	72.6	17	1499	-	448		
12	1	60.3	17	-	-	567		
13	2	54.9	17	1056	-	245		
14	2	98.8	17	1023	-	584		
15	2	60.9	17	1243	-	579		
16	2	62.7	17	1226	-	464		
17	1	80.1	17	-	-	89		
18	2	70.9	17	1711	-	153		
19	1	90.7	17	-	-	282		
20	1	98.9	17	-	-	71		
Detection Chec	k (1=Detection; C	=No Detection)				1		

Trial Number			14				
Number of Bu	Number of Bursts in Trial			3	3		
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	2	67.5	20	1542	-	Interval (ms) 947	
2	3	83.6	20	1272	1696	124	
3	2	93.2	20	1877	-	701	
4	1	55.6	20	-	-	1123	
5	3	84.2	20	1733	1619	756	
6	3	69.1	20	1612	1071	1	
7	2	66.9	20	1905	-	7	
8	3	86.8	20 1697 1621 1082				
Detection Chec	ck (1=Detection; C	=No Detection)				1	

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Trial Number			15				
Number of Bur	Number of Bursts in Trial			()		
Chirp Center Frequency			54	98			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us) Spacing (us) Within Interval (m				
1	2	62.2	19	1571	-	949	
2	2	85	19	1669	-	189	
3	2	64.5	19	1505	-	176	
4	2	50.4	19	1325	-	538	
5	2	66.1	19	1483	-	908	
6	2	71.2	19	1110	-	1017	
7	3	53.7	19	1445	1677	492	
8	3	62.5	19	1596	1341	349	
9	3	62	19 1929 1221 1105				
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			16				
Number of Bu	Number of Bursts in Trial			10			
Chirp Center Frequency				54	97		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Pulse 2-to-3 Location Spacing (us) Within Interval (r				
1	2	80.5	18	1910	-	284	
2	2	64.2	18	1661	-	751	
3	2	90.1	18	1041	ı	491	
4	2	69.8	18	1495	ı	107	
5	1	73.1	18	-	-	490	
6	3	77.2	18	1418	1145	1155	
7	3	52.6	18	1732	1787	772	
8	2	71.4	18	1562	-	121	
9	2	89.8	18	1491	-	89	
10	2	76.4	18	1355	-	615	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number			17					
Number of Bu	ırsts in Trial			11				
Chirp Center Frequency				54	97			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Starting Location Spacing (us) Within Interval (m					
1	2	51.2	17	1236	-	740		
2	1	71.7	17	-	-	941		
3	2	74.7	17	1164	-	370		
4	2	50.9	17	1919	-	371		
5	2	65.2	17	1206	-	1033		
6	2	98	17	1182	-	346		
7	2	58.7	17	1612	-	639		
8	1	63.8	17	-	-	1056		
9	3	86.3	17	1545	1065	205		
10	1	94.4	17	-	-	753		
11	3	88.5	17	1699	1319	58		
Detection Che	ck (1=Detection; C	=No Detection)				0		

Trial Number				1	8		
Number of Bur	sts in Trial			12			
Chirp Center Frequency				54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (m				
1	2	88.7	16	1405	_	448	
2	3	90.2	16	1544	1235	621	
3	1	96.5	16	-	-	512	
4	2	80.5	16	1090	-	321	
5	2	63.7	16	1268	-	798	
6	1	53.4	16	-	-	809	
7	2	52.3	16	1043	-	301	
8	3	54.7	16	1701	1104	796	
9	3	75.6	16	1923	1729	669	
10	2	59.2	16	1244	-	369	
11	1	56.3	16	-	-	51	
12	2	87.8	16	1608	-	733	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number			19				
Number of Bui	rsts in Trial			13				
Chirp Center Frequency				54	96			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Loc Spacing (us) Spacing (us) W					
1	2	68.2	15	1104	-	229		
2	2	58.4	15	1627	-	488		
3	3	74.7	15	1861	1015	137		
4	2	58.2	15	1593	-	520		
5	1	51.6	15	-	-	799		
6	2	94.7	15	1469	-	43		
7	2	70.7	15	1091	-	126		
8	2	82.9	15	1472	-	607		
9	3	62.7	15	1168	1453	527		
10	2	63.1	15	1529	-	143		
11	1	96.1	15	-	-	176		
12	2	57	15	1457	-	882		
13	3	95.6	15	1707	1501	214		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number			20 14				
Number of Bur	sts in Trial						
Chirp Center F	Chirp Center Frequency			54	96		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (
1	1	95.7	14	-	-	117	
2	1	93.1	14	-	-	720	
3	1	55.8	14	-	-	297	
4	1	76.7	14	-	-	284	
5	2	68	14	1686	-	472	
6	3	94.1	14	1796	1393	264	
7	2	53.9	14	1293	-	525	
8	1	99.3	14	-	-	155	
9	2	73.3	14	1458	-	65	
10	2	93.3	14	1196	-	451	
11	3	55.8	14	1895	1034	243	
12	1	66.4	14	-	-	228	
13	2	65.6	14	1732	-	746	
14	2	76.5	14	1187	-	522	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number			21				
Number of Bu	rsts in Trial		15					
Chirp Center F	Chirp Center Frequency			55	65			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	1	85.1	13	-	-	565		
2	2	72.5	13	1648	-	211		
3	1	67.5	13	-	-	348		
4	2	56.1	13	1360	-	156		
5	1	71.1	13	-	-	718		
6	2	93.1	13	1391	-	400		
7	1	56.5	13	-	-	482		
8	1	63.8	13	-	-	703		
9	2	67.4	13	1727	-	780		
10	1	52.3	13	-	-	102		
11	3	62.4	13	1228	1715	304		
12	2	53.3	13	1630	-	57		
13	2	83.1	13	1205	-	768		
14	2	93.7	13	1085	-	461		
15	2	90.7	13	1297	-	746		
Detection Chec	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	Trial Number			22				
Number of Bu	rsts in Trial		16					
Chirp Center Frequency				55	65			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	2	98.8	12	1439	-	95		
2	1	54.5	12	-	-	676		
3	2	80.5	12	1360	-	8		
4	2	55.9	12	1906	-	373		
5	2	72.1	12	1623	-	254		
6	2	84.4	12	1604	-	480		
7	1	78.5	12	-	-	663		
8	1	88	12	-	-	314		
9	2	74.7	12	1157	-	596		
10	2	97.1	12	1673	-	264		
11	1	81.6	12	-	-	740		
12	1	83.6	12	-	-	163		
13	3	87.6	12	1757	1322	628		
14	2	58.5	12	1372	-	132		
15	3	91.8	12	1767	1183	106		
16	2	58.8	12	1432		659		
Detection Ched	ck (1=Detection; 0	=No Detection)				1		

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Trial Number			23				
Number of Bu	rsts in Trial		17				
Chirp Center Frequency				55	66		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locat Spacing (us) Spacing (us) With Interval				
1	1	96	11	_	-	284	
2	2	92.5	11	1241	-	488	
3	2	89.5	11	1347	-	76	
4	2	74.8	11	1607	-	688	
5	2	60.6	11	1523	-	28	
6	2	71.5	11	1659	-	383	
7	2	71.1	11	1454	-	182	
8	1	98.7	11	-	-	20	
9	2	85.1	11	1770	-	576	
10	2	89.2	11	1086	-	410	
11	2	60.7	11	1101	-	458	
12	2	75.2	11	1719	-	348	
13	2	75.7	11	1799	-	481	
14	3	56.7	11	1132	1884	587	
15	2	65	11	1885	-	480	
16	2	64.6	11	1910	-	195	
17	3	69.9	11	1410	1190	396	
Detection Chec	ck (1=Detection; C	=No Detection)				0	

Trial Number			24					
Number of Bu	rsts in Trial		18					
Chirp Center Frequency				55	66			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	(MHz) Spacing (us) Spacing (us)				
1	3	83.8	10	1290	1021	Interval (ms) 536		
2	2	66.9	10	1112	-	44		
3	3	91	10	1220	1504	611		
4	2	86.1	10	1678	-	456		
5	3	65.5	10	1928	1222	330		
6	1	62.6	10	-	1	297		
7	3	68.7	10	1505	1200	351		
8	3	59.2	10	1452	1114	230		
9	1	73.9	10	-	ı	222		
10	1	77.2	10	-	ı	57		
11	2	96.4	10	1357	ı	399		
12	2	99.9	10	1173	ı	299		
13	2	99.9	10	1520	ı	464		
14	1	86.7	10	-	ı	294		
15	1	92.6	10	-	ı	653		
16	1	77.1	10	-	1	550		
17	2	81.1	10	1664	1	566		
18	3	68.4	10	1536	1309	580		
Detection Chec	ck (1=Detection; 0	=No Detection)				1		

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Trial Number			25				
Number of Bu	ırsts in Trial		19				
Chirp Center	Frequency			55	66		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	3	68.2	9	1723	1868	471	
2	3	83.7	9	1711	1405	368	
3	2	69.7	9	1781	-	425	
4	1	59.7	9	-	-	440	
5	2	96.7	9	1484	-	123	
6	2	95.8	9	1319	-	261	
7	3	71.3	9	1095	1354	332	
8	3	53.2	9	1527	1427	427	
9	2	69.5	9	1771	-	397	
10	3	63.9	9	1075	1447	67	
11	2	93.4	9	1783	-	174	
12	2	77.3	9	1564	-	17	
13	2	73.1	9	1294	-	216	
14	1	77.4	9	-	-	292	
15	3	57.2	9	1722	1886	619	
16	2	68.7	9	1629	-	233	
17	1	60.8	9	-	-	226	
18	3	69.7	9	1128	1224	599	
19	1	62.2	9	-	-	433	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number			26				
Number of Bu	ırsts in Trial			20				
Chirp Center	Frequency			55	67			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	1	80.5	8	-	-	90		
2	3	62.6	8	1406	1343	319		
3	3	85.6	8	1190	1529	384		
4	2	83.9	8	1208	-	567		
5	2	92.4	8	1488	-	234		
6	2	54	8	1529	-	535		
7	3	81.3	8	1501	1812	325		
8	1	98.5	8	-	-	532		
9	1	85.8	8	-	-	272		
10	2	84.7	8	1593	-	182		
11	2	83.3	8	1705	-	134		
12	2	79.8	8	1567	-	286		
13	1	77.9	8	-	-	368		
14	3	98.4	8	1510	1569	290		
15	2	79.9	8	1588	-	231		
16	3	78	8	1140	1353	353		
17	3	55.2	8	1700	1327	53		
18	3	71.9	8	1081	1224	44		
19	1	62	8	-	-	298		
20	3	70.5	8	1888	1442	529		
Detection Che	ck (1=Detection; C	=No Detection)				1		

Trial Number			27				
Number of Bursts in Trial				3	3		
Chirp Center F	Chirp Center Frequency			55	63		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within				
1	2	69.1	18	1076		Interval (ms) 1436	
2	2	62.1	18	1688	-	22	
3	2	94.8	18	1891	-	897	
4	1	75.8	18	-		1186	
5	2	65.4	18	1713	_	589	
6	2	97.7	18	1292	-	614	
7	3	98.1	18	1670	1711	506	
8	2	85.4	18 1672 - 776				
Detection Chec	k (1=Detection; 0	=No Detection)	•	•		1	

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Trial Number			28				
Number of Bursts in Trial			9				
Chirp Center Frequency			5562				
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	82	19	1233	1713	679	
2	3	87.7	19	1554	1123	473	
3	2	98.9	19	1518	-	869	
4	1	55	19	-	-	719	
5	1	93.6	19	-	-	902	
6	2	58.7	19	1641	-	1243	
7	2	88.7	19	1387	-	410	
8	1	60.3	19	-	-	1154	
9	1	97.7	19	-	-	512	
Detection Check (1=Detection; 0=No Detection)							

Trial Number			29				
Number of Bursts in Trial			10				
Chirp Center Frequency			5562				
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	-	-	895	
4	1	74.6	20	-	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Check (1=Detection; 0=No Detection)							

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Trial Number Number of Bursts in Trial Chirp Center Frequency			30 11 5568										
								Burst No. of Pulses Pulse Width (us)		Chirp Width (MHz)	h Pulse 1-to-2 Pulse 2-to-3 L Spacing (us) Spacing (us)		Starting Location Within Interval (ms)
								1	3	59.9	5	1901	1196
2	2	77.1	5	1590	-	1038							
3	2	62.7	5	1227	-	690							
4	1	77.1	5	-	-	547							
5	3	99.8	5	1798	1790	551							
6	2	61.5	5	1135	-	876							
7	2	77.5	5	1583	-	448							
8	2	57.3	5	1890	-	736							
9	2	53.5	5	1757	-	362							
10	1	66.6	5	-	-	836							
11	3	80.7	5	1811	1289	410							
Detection Che	eck (1=Detection; 0	=No Detection)				1							

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Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection			
1	5530	9	1	333	1			
2	5530	9	1	333	1			
3	5530	9	1	333	1			
4	5530	9	1	333	1			
5	5530	9	1	333	1			
6	5530	9	1	333	1			
7	5530	9	1	333	1			
8	5530	9	1	333	1			
9	5530	9	1	333	1			
10	5530	9	1	333	1			
11	5530	9	1	333	1			
12	5530	9	1	333	1			
13	5530	9	1	333	1			
14	5530	9	1	333	1			
15	5530	9	1	333	1			
16	5530	9	1	333	1			
17	5530	9	1	333	1			
18	5530	9	1	333	1			
19	5530	9	1	333	1			
20	5530	9	1	333	1			
21	5530	9	1	333	1			
22	5530	9	1	333	1			
23	5530	9	1	333	1			
24	5530	9	1	333	1			
25	5530	9	1	333	1			
26	5530	9	1	333	1			
27	5530	9	1	333	1			
28	5530	9	1	333	1			
29	5530	9	1	333	1			
30	5530	9	1	333	1			
	100.000							
imit		etection Percenta	· , ,		70%			
est Res	ult		Test Result					

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4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Sep. 19, 2017	Sep. 18, 2018	Radiated (DF01-CB)
Vector Signal generator	R&S	SMU200A	102782	25MHz-6GHz	Dec. 16, 2016	Dec. 15, 2017	Radiated (DF01-CB)
Vector Signal generator	R&S	SMU200A	102782	25MHz-6GHz	Dec. 18, 2017	Dec. 17, 2018	Radiated (DF01-CB)
Horn Antenna	COM-POWER	AH-118	071187	1GHz – 18GHz	Jul. 06, 2017	Jul. 05, 2018	Radiated (DF01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiated (DF01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-57	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-58	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)

Note: Calibration Interval of instruments listed above is one year.

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5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Radiated Emission	2.9 dB	Confidence levels of 95%

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