DFS TEST REPORT

FCC ID	:	**O2U-5881**
Equipment	:	**Wireless Access Point**
Brand Name	:	**cbn**
Model Name	:	**WR5881**
Applicant	:	**COMPAL BROADBAND NETWORKS,INC.**
		13F-1, No.1, Taiyuan 1st St., Zhubei City, Hsinchu County 30288, Taiwan, R.O.C.
Manufacturer	:	**COMPAL BROADBAND NETWORKS,INC.**
		13F-1, No.1, Taiyuan 1st St., Zhubei City, Hsinchu County 30288, Taiwan, R.O.C.
Standard	:	**47 CFR FCC Part 15.407**

The product was received on Jul. 06, 2021, and testing was started from Jul. 21, 2021 and completed on Sep. 15, 2021. We, Sporton International Inc. Hsinchu Laboratory, 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 variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.
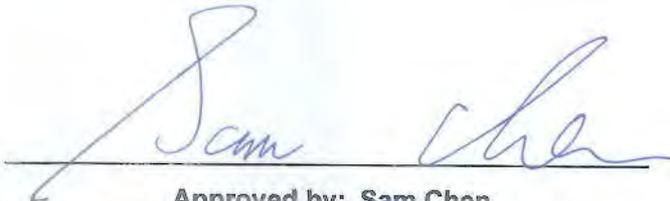
Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

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Appendix A. Test Photos

Photographs of EUT v01

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History of this test report

Report No.	Version	Description	Issued Date
FZ151112-01	01	Initial issue of report	Sep. 28, 2021

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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	FCC KDB 905462 7.8.1	DFS: UNII Detection Bandwidth Measurement	PASS	-
3.4	FCC KDB 905462 7.8.2.1	DFS: Initial Channel Availability Check Time	PASS	-
3.4	FCC KDB 905462 7.8.2.2	DFS: Radar Burst at the Beginning of the Channel Availability Check Time	PASS	-
3.4	FCC KDB 905462 7.8.2.3	DFS: Radar Burst at the End of the Channel Availability Check Time	PASS	-
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	PASS	-
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	PASS	-
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	-
3.6	FCC KDB 905462 7.8.4	DFS: Statistical Performance Check	PASS	-
3.1.4	FCC KDB 905462 8.1	User Access Restrictions	N/A	Manufacturer attestation NOT accessible to user

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Vicky Huang

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1   General Description

1.1   Information

1.1.1   RF General Information

Specification Items	Description	
Frequency Range	5250 MHz – 5350 MHz	
	5470 MHz – 5725 MHz	
Product Type	WLAN (4TX, 4RX)	
Radio Type	Intentional Transceiver	
Power Type	From power adapter	
Channel Bandwidth	20/40/80 MHz operating channel bandwidth	
Operating Mode	☒ Master	
	☐ Client with radar detection	
	☐ Client without radar detection	
Communication Mode	☒ IP Based (Load Based)	☐ Frame Based
TPC Function	☒ With TPC	☐ Without TPC
Weather Band (5600~5650MHz)	☒ With 5600~5650MHz	☐ Without 5600~5650MHz
Power-on cycle	80MHz: Requires 56.087 seconds to complete its power-on cycle.	
Firmware Number	11.3.0.1a1-SH	
Test sample serial number	1415881200004	

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EUT employ a TPC mechanism and TPC have the capability to operate at least 6 dB below highest RF output power.

Note: The above information was declared by manufacturer.

TPC Power Result

Mode	Min Power (dBm)	Max Power (dBm)	Min EIRP (dBm)	Max EIRP (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-
5.25-5.35GHz	16.36	22.36	21.08	27.08
5.47-5.725GHz	16.15	22.15	20.87	26.87
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-
5.25-5.35GHz	15.46	21.46	20.18	26.18
5.47-5.725GHz	14.78	20.78	19.50	25.50
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-
5.25-5.35GHz	17.70	23.70	22.42	28.42
5.47-5.725GHz	17.63	23.63	22.35	28.35
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-
5.25-5.35GHz	17.66	23.66	22.38	28.38
5.47-5.725GHz	17.78	23.78	22.50	28.50

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1.1.2   Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
	2.4GHz	5GHz					2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	3	-	CBN	WR5581	PCB	I-Pex	3.41	-	0.67	-	2.74	-
2	2	-	CBN	WR5581	PCB	I-Pex	4.09	-	0.68	-	3.41	-
3	4	-	CBN	WR5581	PCB	I-Pex	5.22	-	0.55	-	4.67	-
4	1	-	CBN	WR5581	PCB	I-Pex	4.27	-	1.13	-	3.14	-
5	-	1	CBN	WR5581	PCB	I-Pex	-	3.48	-	0.29	-	3.19
6	-	2	CBN	WR5581	Dipole	I-Pex	-	3.80	-	0.63	-	3.17
7	-	3	CBN	WR5581	Dipole	I-Pex	-	4.43	-	0.32	-	4.11
8	-	4	CBN	WR5581	PCB	I-Pex	-	5.17	-	0.45	-	4.72

Note: The above information was declared by manufacturer.

<For 2.4GHz Band>

For IEEE 802.11b/g/n mode (4TX/4RX)

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

<For 5GHz Band>

For IEEE 802.11a/n/ac/ax mode (4TX/4RX)

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously

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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.

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
5250~5350 MHz Band 2	52	5260 MHz	60	5300 MHz
	54	5270 MHz	62	5310 MHz
	56	5280 MHz	64	5320 MHz
	58	5290 MHz	-	-
5470~5725 MHz Band 3	100	5500 MHz	124	5620 MHz
	102	5510 MHz	126	5630 MHz
	104	5520 MHz	128	5640 MHz
	106	5530 MHz	132	5660 MHz
	108	5540 MHz	134	5670 MHz
	110	5550 MHz	136	5680 MHz
	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	-	-

1.1.4 Table for Class II Change

This product is an extension of original one reported under Sporton project number: 151112

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device	It was performed for all tests

1.2 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	Frecom	F30L7-120250SPAU	INPUT: 100-240V~50/60Hz, 0.8A OUTPUT: 12.0V, 2.5A, 30.0W
Other			
RJ-45 cable*1: Non-Shielded, 1.5m			

1.3 Support Equipment

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
- 47 CFR FCC Part 15.407
- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

1.5 Testing Location Information

Testing Location Information
Test Lab.：Sporton International Inc. Hsinchu Laboratory

Hsinchu   ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)   TEL: 886-3-656-9065   FAX: 886-3-656-9085
             Test site Designation No. TW3787 with FCC.
             Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment (°C / %)**	**Test Date**
DFS	DF01-CB	Mason Chen	24.6-25.1 / 62-64	Jul. 21, 2021~ Sep. 15, 2021

2   Test Configuration of EUT

2.1   Test Channel Frequencies Configuration

Test Channel Frequencies Configuration	
IEEE Std.	**Test Channel Freq. (MHz)**
802.11ax (HEW20)	5500 MHz
802.11ax (HEW40)	5510 MHz
802.11ax (HEW80)	5530 MHz

2.2   The Worst Case Measurement Configuration

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	802.11ax (HEW20), 802.11ax (HEW40), 802.11ax (HEW80)

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).
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

Requirement	DFS Operational mode		
	Master	**Client without radar detection**	**Client with radar detection**
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

3.1.3   Applicability of DFS Requirements during Normal Operation

Requirement	DFS Operational mode		
	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.

3.1.5 Channel Loading/Data Streaming

☐	The data file (MPEG-4) has been transmitting in a streaming mode.
☒	Software to ping the client is permitted to simulate data transfer with random ping intervals.
☒	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	$Roundup\left\{\left(\dfrac{1}{360}\right)\times\left(\dfrac{19\times10^{6}}{PRI}\right)\right\}$	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI		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
Aggregate (Radar Types 1-4)				80%	120
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 *Burst*	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 between the first and second pulses is chosen independently of the time between the second and third pulses.

◆ 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
	☒	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.		

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3.2.5　Calibration Setup

Master Radiated Calibration Setup

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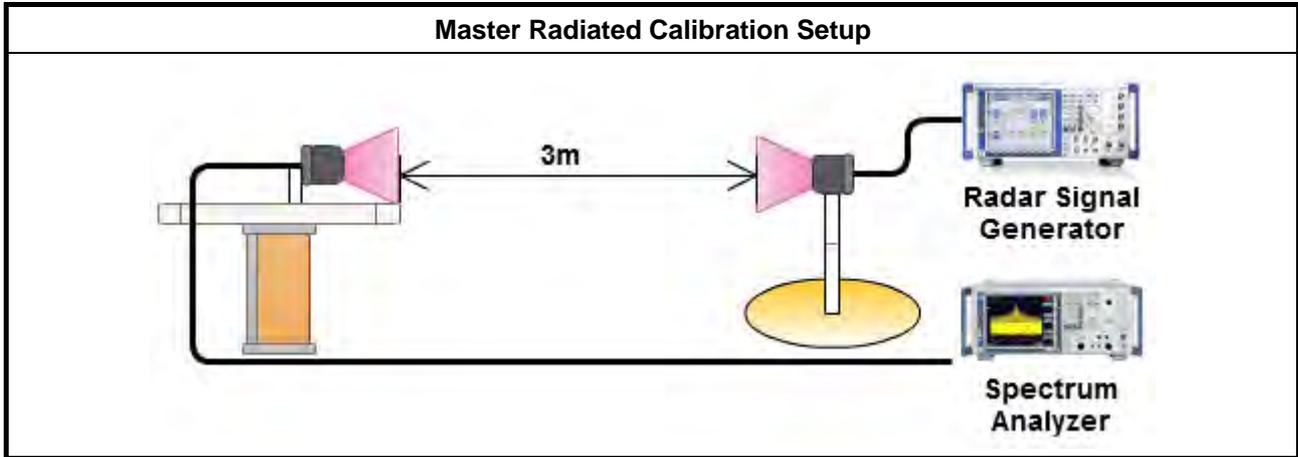
3.2.6 Radar Waveform calibration Plot

Test Frequency: 5530 MHz
Radar #0 DFS detection threshold level

Date: 11.SEP.2021 22:05:19

| **Radar #1 DFS detection threshold level** |

Date: 11.SEP.2021 22:05:54

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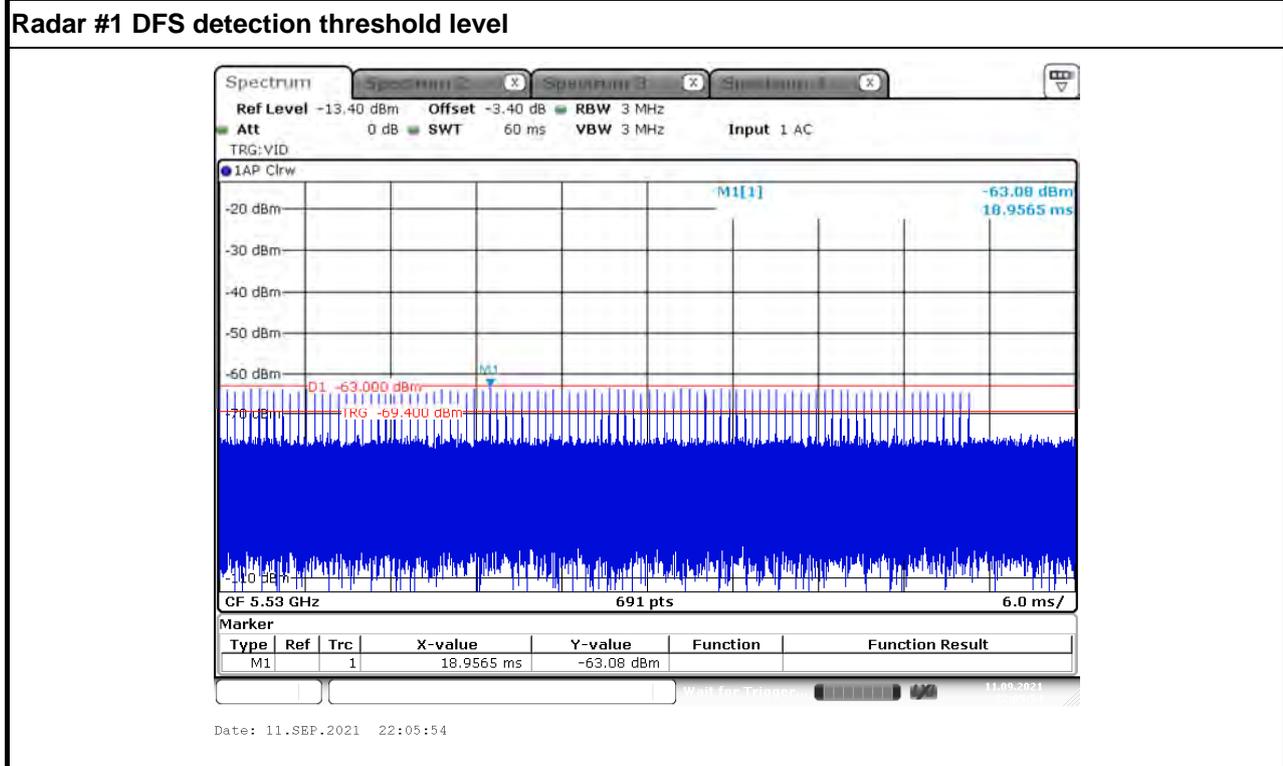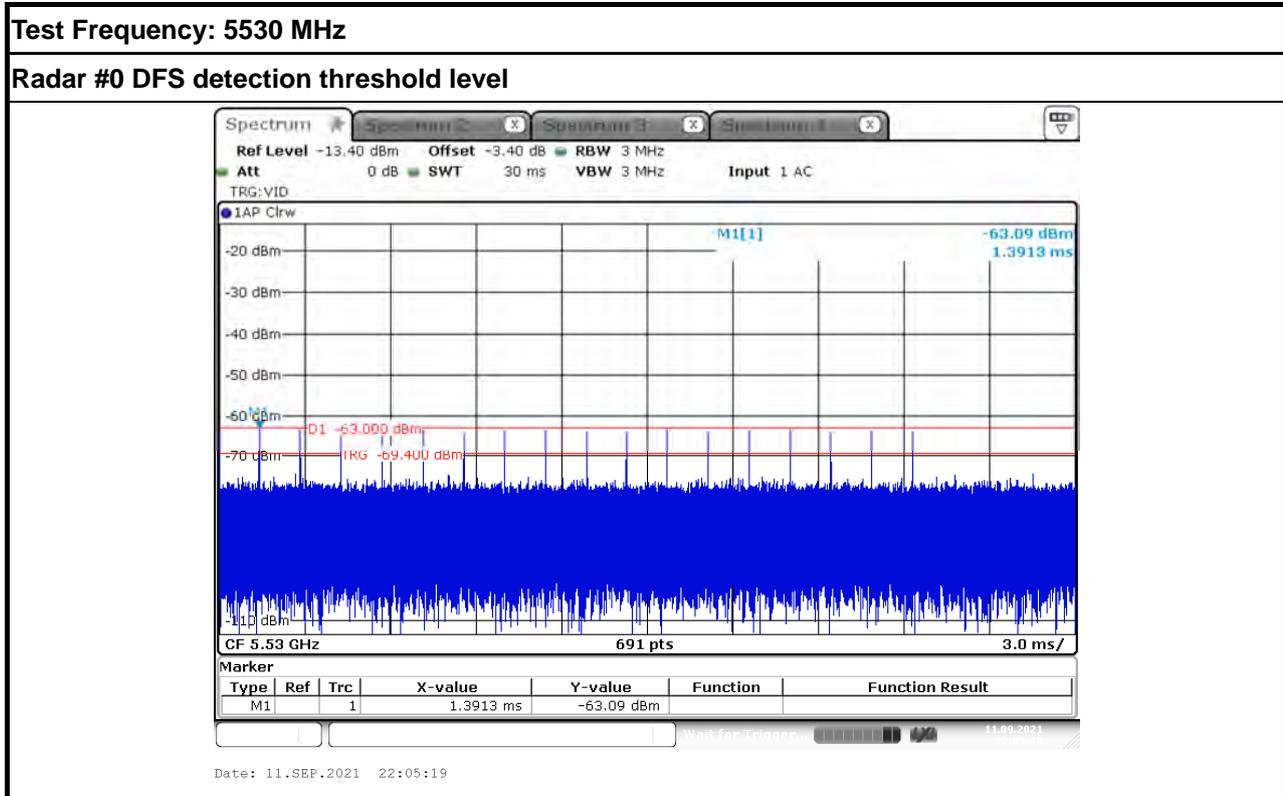
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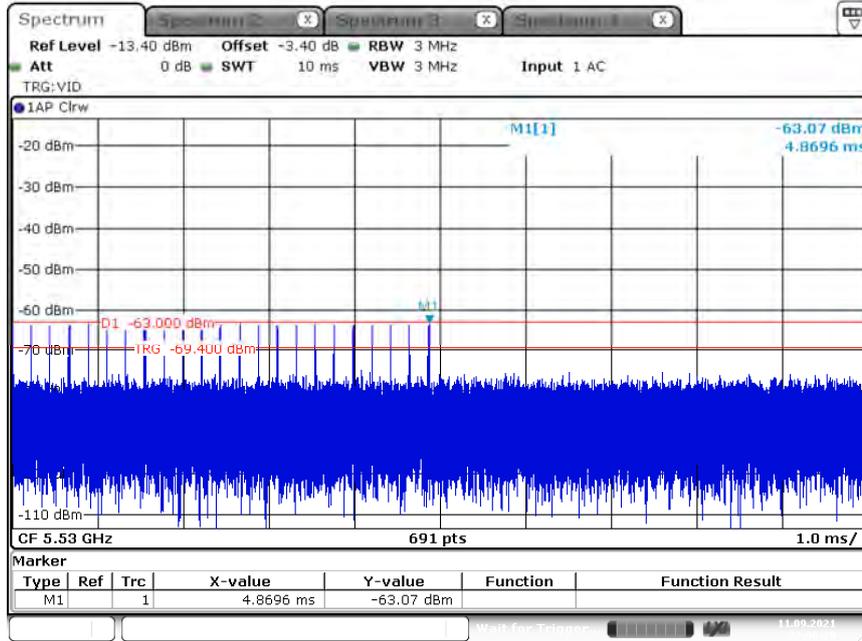
Date: 11.SEP.2021 22:06:30

Radar #3 DFS detection threshold level
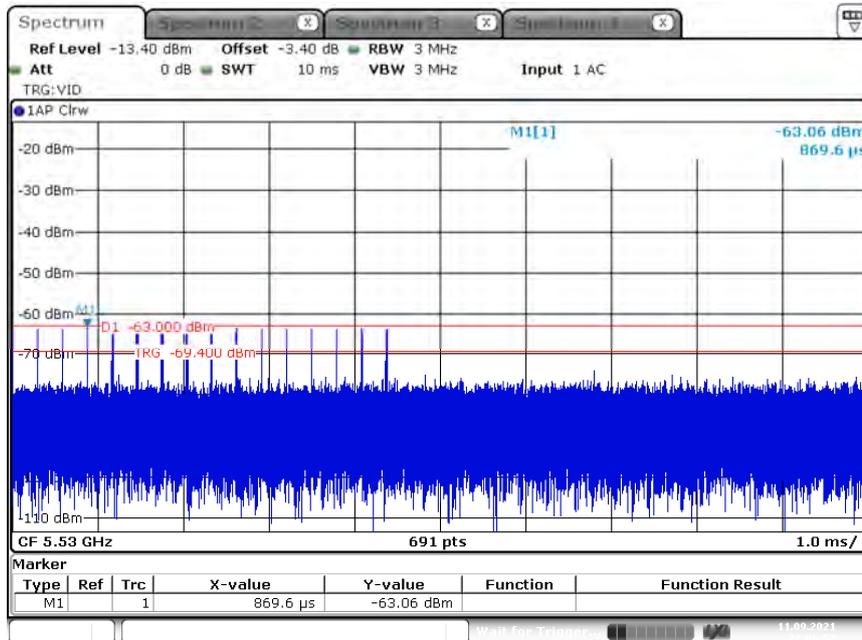
Date: 11.SEP.2021 22:06:53

Radar #4 DFS detection threshold level
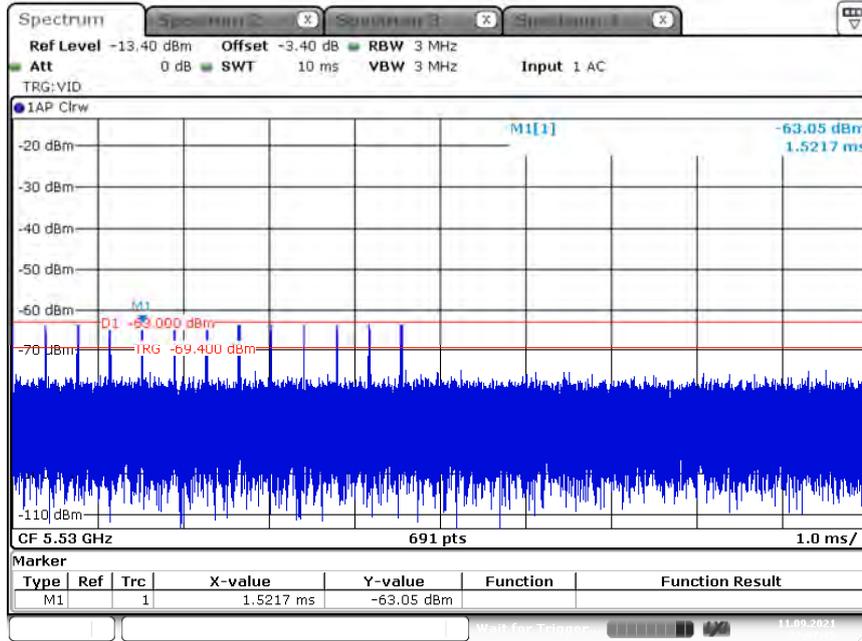
Date: 11.SEP.2021 22:07:15

Radar #5 DFS detection threshold level

Date: 11.SEP.2021 22:09:07

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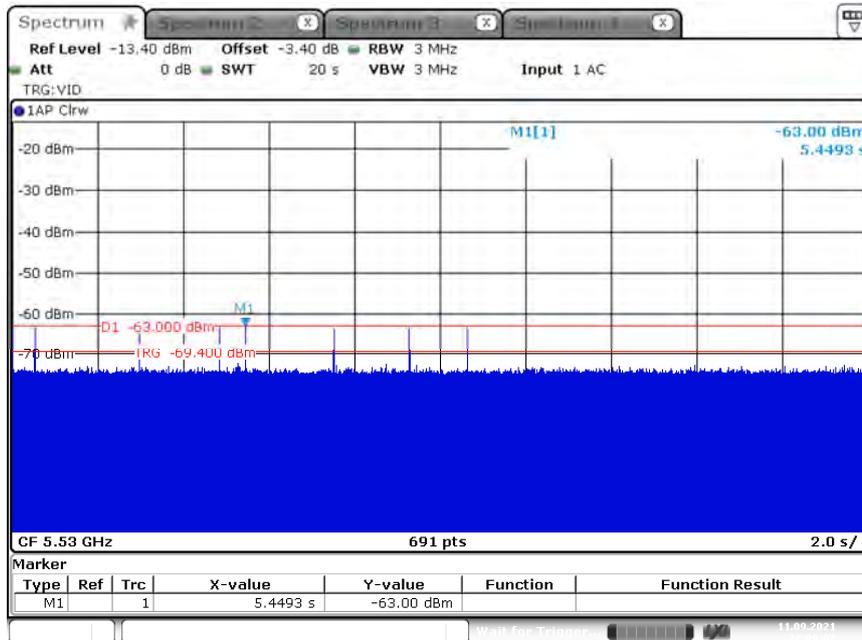
Radar #6 DFS detection threshold level

Date: 11.SEP.2021 22:09:48

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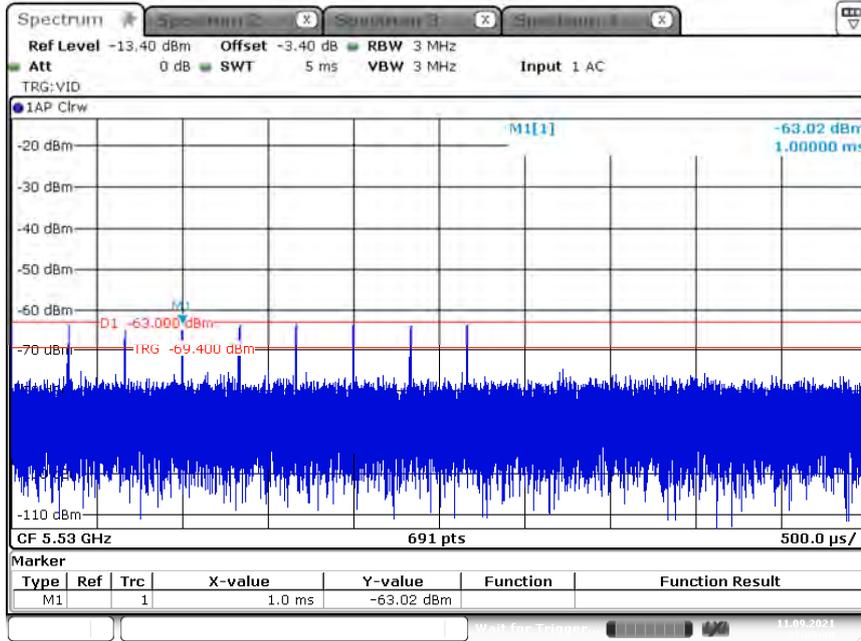
3.2.7   Test Setup

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.

3.2.8 Data traffic Plot

EUT Data traffic Plot	Modulation Mode: 802.11ax (HEW80)	Test Frequency: 5530 MHz

Date: 11.SEP.2021 22:10:34

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Client Data Traffic Plot	Modulation Mode: 802.11ax (HEW80)	Test Frequency: 5530 MHz

Date: 11.SEP.2021 22:11:34

Without Data Traffic Plot	Modulation Mode: 802.11ax (HEW80)	Test Frequency: 5530 MHz

Date: 11.SEP.2021 21:23:43

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3.3   UNII Detection Bandwidth

3.3.1   UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	Frequency (MHz)	99% Occupied Bandwidth (MHz)	UNII Detection Bandwidth Min. Limit (MHz)
20	5500 MHz	19.102	19.2
40	5510 MHz	38.350	39
80	5530 MHz	77.279	78
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

EUT Frequency=5500 MHz											
Channel Bandwidth (MHz)	**20**										
Radar Frequency (MHz)	**DFS Detection Trials (1=Detection, 0= No Detection)**										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490	0	0	0	0	0	0	0	0	0	0	0
5490.4(FL)	1	0	1	1	1	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
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5509.6(FH)	1	1	1	0	1	1	1	1	1	1	90
5510	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5509.6MHz-5490.4MHz)=											19.2
UNII Detection Bandwidth Min. Limit (MHz) =											19.2
Test Result											**PASS**

EUT Frequency=5510 MHz											
Channel Bandwidth (MHz)	40										
Radar Frequency (MHz)	**DFS Detection Trials (1=Detection, 0= No Detection)**										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0
5490(FL)	1	1	1	0	1	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
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	1	1	1	1	1	0	90
5531	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5530MHz-5490MHz)=											40
UNII Detection Bandwidth Min. Limit (MHz) =											39
Test Result											**PASS**

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EUT Frequency=5530 MHz											
Channel Bandwidth (MHz)	**80**										
Radar Frequency (MHz)	**DFS Detection Trials (1=Detection, 0= No Detection)**										
	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	1	1	1	0	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
5510	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569(FH)	1	1	1	1	1	1	1	1	1	0	90
5570	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5569MHz-5491MHz)=											78
UNII Detection Bandwidth Min. Limit (MHz) =											78
Test Result											**PASS**

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3.4   Channel Availability Check (CAC)

3.4.1   Channel Availability Check Limit

Channel Availability Check Limit
☒   The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (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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3.4.4   Test Result of Initial Channel Availability Check Time

Modulation Mode	Freq.	Radar Test Signal
802.11ax (HEW80)	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 (56.087 sec). The initial CAC time of the EUT is indicated by marker 1 (56.087 sec). Initial beacons/data transmissions are indicated by marker 2 (116.087 sec).
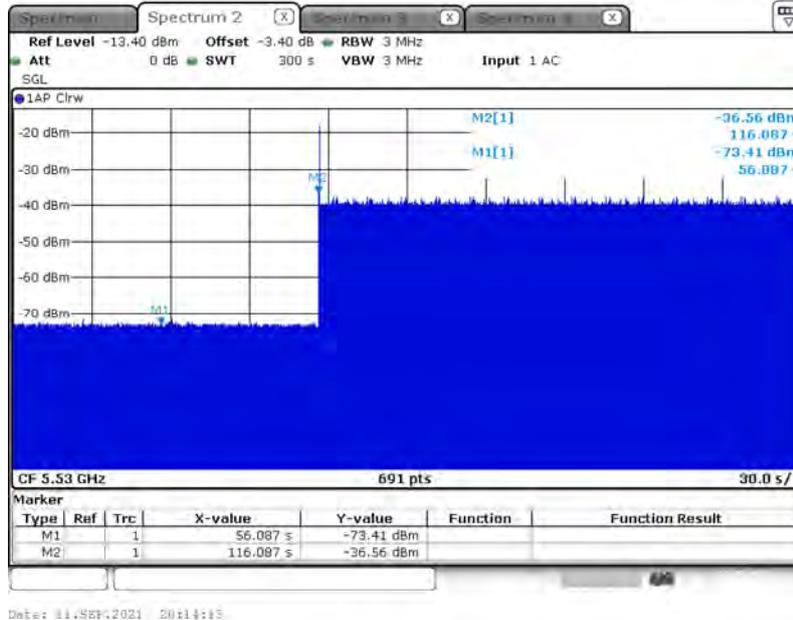
Test Result		PASS

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

Modulation Mode	Freq. (MHz)	Radar Type Signal
802.11ax (HEW80)	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 242.609 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.

Test Result	PASS

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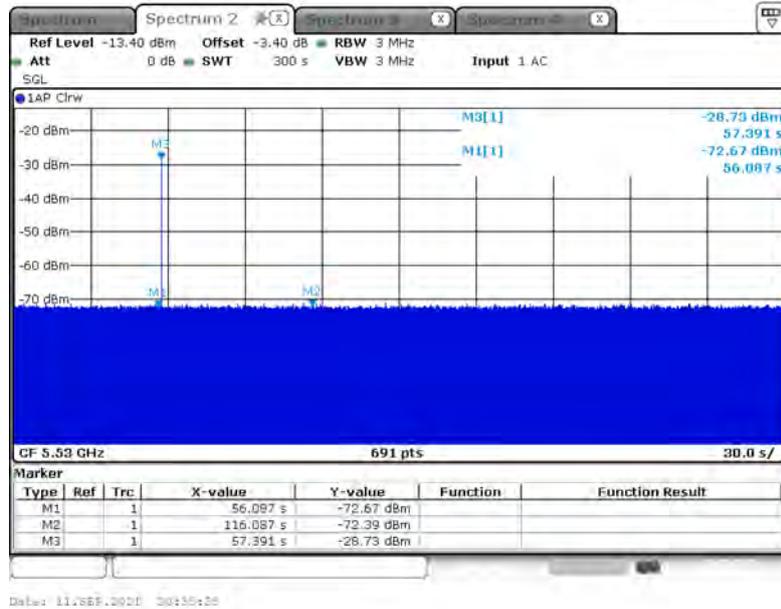
3.4.6 Test Result of Radar Burst at the End of the Channel Availability Check Time

Modulation Mode	Freq. (MHz)	Radar Type Signal
802.11ax (HEW80)	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 184.348 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.
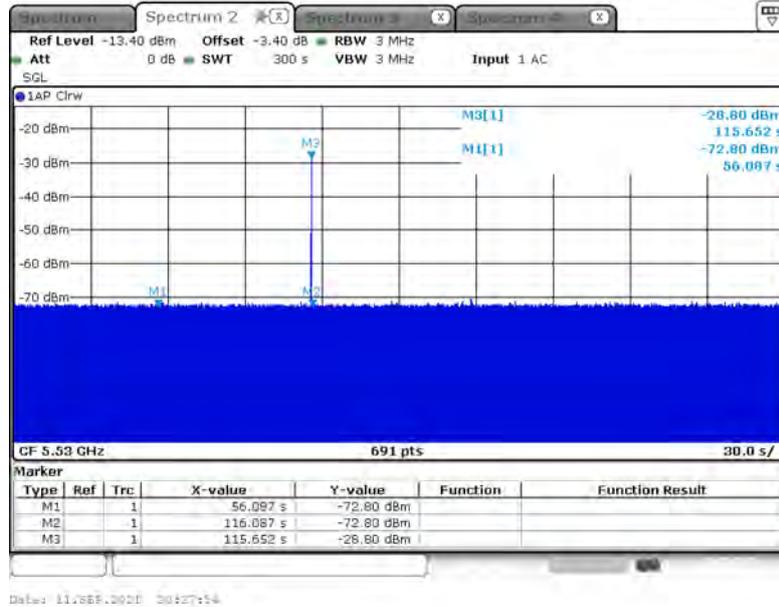
Test Result	PASS

3.5   In-service Monitoring

3.5.1   In-service Monitoring Limit

<table>
<tr><th colspan="2">In-service Monitoring Limit</th></tr>
<tr><td>Channel Move Time</td><td>10 sec</td></tr>
<tr><td>Channel Closing Transmission Time</td><td>200 ms + an aggregate of 60 ms over remaining 10 sec periods.</td></tr>
<tr><td>Non-occupancy period</td><td>Minimum 30 minutes</td></tr>
</table>

3.5.2   Measuring Instruments

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

3.5.3   Test Procedures

<table>
<tr><th colspan="2">Test Method</th></tr>
<tr><td>☒</td><td>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.</td></tr>
<tr><td>☒</td><td>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. 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.</td></tr>
<tr><td>☒</td><td>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.</td></tr>
</table>

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3.5.4 Test Result of Channel Move Time

Modulation Mode: 802.11ax (HEW80)

Parameter	Test Result	Limit
	Type 0	
Test Channel (MHz)	5530 MHz	-
Channel Move Time (sec.)	0.469	< 10s

Modulation Mode	Freq.	Radar Type
802.11ax (HEW80)	5530 MHz	0

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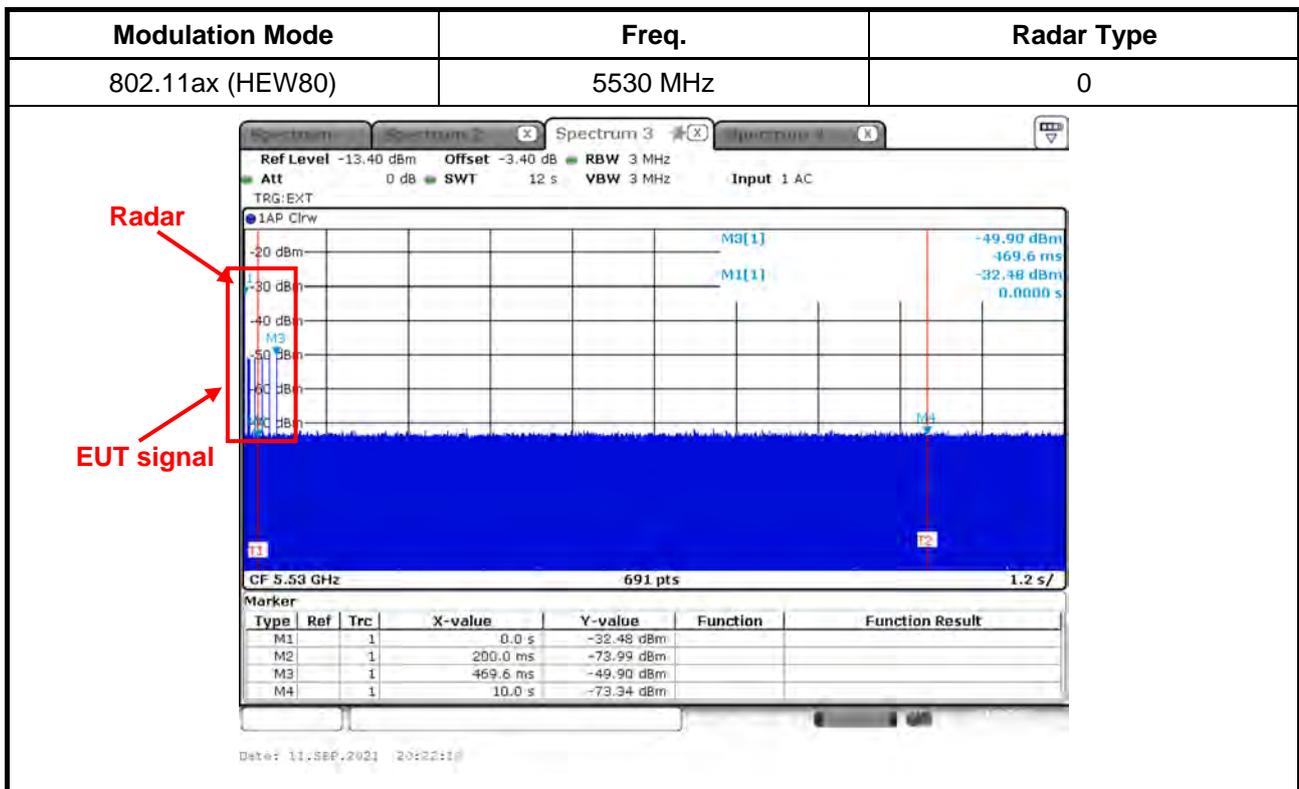
3.5.5　Test Result of Channel Closing Transmission Time

Modulation Mode: 802.11ax (HEW80)

Parameter	Test Result	Limit
	Type 0	
Test Channel (MHz)	5530 MHz	-
Channel Closing Transmission Time (ms) (Note)	14.493	$<$ 60ms

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.

Modulation Mode	Freq.	Radar Type
802.11ax (HEW80)	5530 MHz	0

Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Channel Move Time plus 60ms additional intermittent control signals

Date: 11.SEP.2021 20:42:39
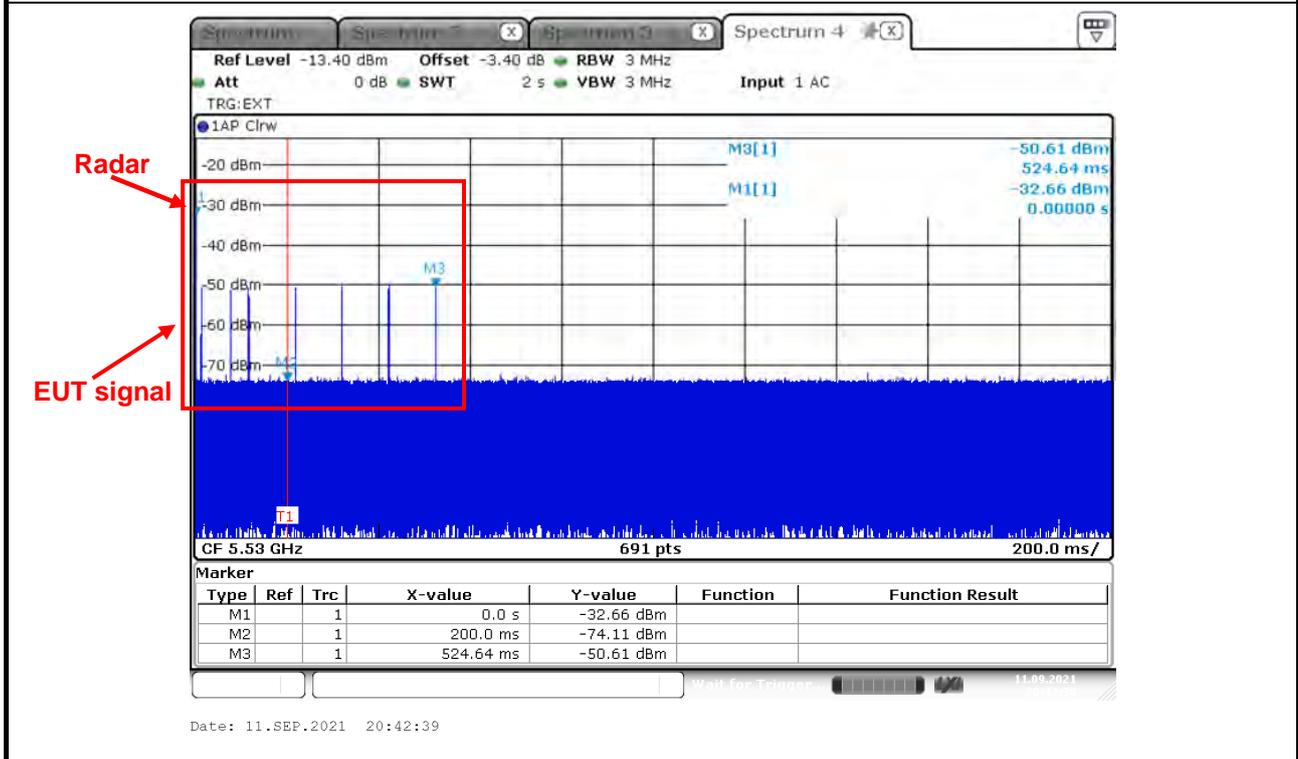
Dwell is the dwell time per spectrum analyzer sampling bin.

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 (14.49 ms) = N (5) X Dwell (2.899 ms)

3.5.6 Test Result of Non-Occupancy Period

Modulation Mode: 802.11ax (HEW80)

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

Modulation Mode	Freq.
802.11ax (HEW80)	5530 MHz

Non-Occupancy Period
During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

Date: 11.SEP.2021 21:22:11
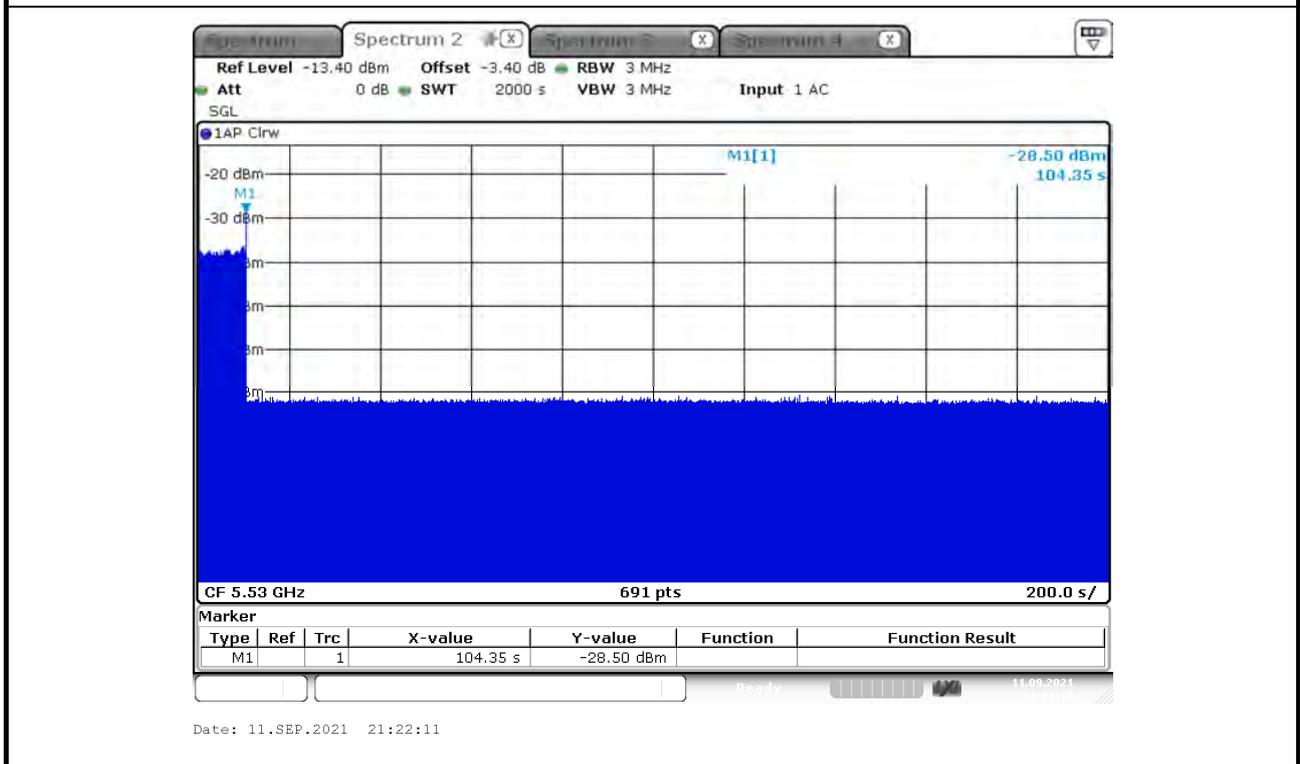
3.6 Statistical Performance Check

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
The percentage of successful detection is calculated by: $\dfrac{TotalWaveformDetections}{TotalWaveformTrails} \times 100 = $ Probability of Detection Radar Waveform In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows: $\dfrac{Pd1 + Pd2 + Pd3 + Pd4}{4}$		

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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3.6.4   Test Result of Statistical Performance Check

Modulation Mode: 802.11ax (HEW20)

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	5498	1	1930.5	518	1
2	5506	23	326.2	3066	1
3	5505	19	1139.0	878	1
4	5500	12	1355.0	738	1
5	5498	4	1730.1	578	1
6	5507	8	1519.8	658	1
7	5500	15	1253.1	798	1
8	5492	6	1618.1	618	1
9	5492	14	1285.3	778	1
10	5498	3	1792.1	558	1
11	5504	13	1319.3	758	0
12	5501	9	1474.9	678	1
13	5509	7	1567.4	638	1
14	5495	17	1193.3	838	1
15	5494	10	1432.7	698	1
16	5509	-	1692.0	591	1
17	5494	-	328.1	3048	1
18	5503	-	373.4	2678	1
19	5495	-	574.4	1741	1
20	5498	-	1216.5	822	1
21	5492	-	801.3	1248	1
22	5491	-	488.5	2047	1
23	5509	-	956.0	1046	1
24	5495	-	517.6	1932	0
25	5503	-	1422.5	703	1
26	5502	-	542.0	1845	1
27	5505	-	741.3	1349	1
28	5506	-	881.8	1134	1
29	5496	-	427.4	2340	1
30	5498	-	628.9	1590	1
Detection Percentage (%)					93.333
Limit					60%
Test Result					**PASS**

Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5507	2.6	221	23	1
2	5504	4.6	198	27	1
3	5501	1.1	184	29	1
4	5493	4.8	203	24	1
5	5503	2.4	162	25	1
6	5493	3.4	204	28	1
7	5506	2.3	170	27	1
8	5492	3.5	184	23	0
9	5492	4.9	150	27	1
10	5504	4.6	211	29	1
11	5492	2.9	158	23	1
12	5497	2.6	226	27	1
13	5499	1.6	204	26	1
14	5508	3.9	181	25	1
15	5507	4.6	202	24	1
16	5493	4.1	194	27	1
17	5491	2.3	193	28	0
18	5495	3.9	173	29	1
19	5500	4.3	188	23	1
20	5509	1.5	215	26	1
21	5496	4.9	227	27	1
22	5495	1.1	199	23	1
23	5500	4.5	155	29	1
24	5498	4.0	190	27	1
25	5492	2.4	151	23	1
26	5497	2.5	180	28	0
27	5508	2.5	228	23	1
28	5500	2.5	203	25	1
29	5498	1.5	188	25	1
30	5492	1.9	217	24	1
Detection Percentage (%)					90.00
Limit					60%
Test Result					**PASS**

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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	5505	8.0	205	16	1
2	5498	6.7	382	18	1
3	5495	8.6	418	16	1
4	5508	9.4	351	17	1
5	5494	7.4	383	18	1
6	5495	9.8	232	16	1
7	5502	9.1	377	17	0
8	5491	9.6	457	16	1
9	5498	8.0	471	18	1
10	5499	9.0	304	18	1
11	5491	8.0	316	17	1
12	5502	9.8	325	16	0
13	5501	8.0	409	17	1
14	5501	9.9	200	17	1
15	5496	8.8	458	16	1
16	5501	8.0	232	18	1
17	5501	8.3	250	16	1
18	5499	8.7	270	16	1
19	5501	7.7	350	17	1
20	5509	7.1	230	16	0
21	5504	7.3	416	18	1
22	5504	7.6	498	18	1
23	5506	7.3	286	17	1
24	5509	7.3	287	16	0
25	5496	7.5	462	17	1
26	5495	6.2	300	17	1
27	5504	6.4	323	18	1
28	5493	7.1	420	16	1
29	5506	7.2	395	18	1
30	5500	8.4	377	16	1
Detection Percentage (%)					86.667
Limit					60%
Test Result					**PASS**

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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	5505	19.9	279	12	0
3	5508	12.9	487	14	1
4	5494	15.0	452	13	0
5	5499	16.3	230	12	1
6	5502	19.8	238	13	1
7	5504	18.2	420	16	1
8	5494	16.3	452	15	0
9	5501	14.2	495	12	1
10	5507	17.8	228	16	1
11	5500	19.1	211	16	1
12	5505	18.4	283	15	1
13	5498	11.8	411	12	0
14	5495	14.2	284	13	1
15	5492	13.9	202	12	1
16	5500	17.8	340	14	1
17	5508	15.6	290	16	0
18	5500	14.6	250	16	1
19	5502	14.4	484	15	1
20	5493	18.9	387	13	1
21	5502	11.1	348	15	1
22	5508	13.8	291	16	0
23	5492	14.3	295	12	1
24	5509	12.5	300	12	1
25	5503	12.5	322	14	1
26	5491	12.5	383	13	1
27	5504	15.7	322	16	1
28	5498	19.8	469	13	1
29	5504	18.6	406	15	1
30	5495	15.9	238	14	1
Detection Percentage (%)					80.000
Limit					60%
Test Result					**PASS**

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	90.000
3	86.667
4	80.000
Aggregate (Radar Types 1-4)	87.500
Limit	80%
Test Result	**PASS**

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)	VSG Freq. (MHz)	Detection
5500	5490.4	5509.6		
Trial	Chirp	Offset		
1	5	2	5500.0	1
2	20	8	5500.0	1
3	7	2.8	5500.0	1
4	8	3.2	5500.0	1
5	9	3.6	5500.0	1
6	10	4	5500.0	1
7	11	4.4	5500.0	1
8	12	4.8	5500.0	1
9	13	5.2	5500.0	1
10	14	5.6	5500.0	1
11	15	6	5496.4	1
12	16	6.4	5496.8	1
13	17	6.8	5497.2	1
14	20	8	5498.4	0
15	19	7.6	5498.0	1
16	18	7.2	5497.6	1
17	17	6.8	5497.2	1
18	16	6.4	5496.8	1
19	15	6	5496.4	1
20	14	5.6	5496.0	1
21	13	5.2	5504.4	1
22	12	4.8	5504.8	1
23	11	4.4	5505.2	1
24	10	4	5505.6	1
25	9	3.6	5506.0	1
26	8	3.2	5506.4	1
27	18	7.2	5502.4	1
28	19	7.6	5502.0	1
29	20	8	5501.6	0
30	5	2	5507.6	1
Total				28
Detection Percentage (%)				93%
Limit				80%
Test Result				**PASS**

Trial Number				1		
Number of Bursts in Trial				8		
Chirp Center Frequency				5500		
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	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				2		
Number of Bursts in Trial				9		
Chirp Center Frequency				5500		
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	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	3					
Number of Bursts in Trial	10					
Chirp Center Frequency	5500					
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	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	4					
Number of Bursts in Trial	11					
Chirp Center Frequency	5500					
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	74.3	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				
Number of Bursts in Trial		12				
Chirp Center Frequency		5500				
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number		6				
Number of Bursts in Trial		13				
Chirp Center Frequency		5500				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				7		
Number of Bursts in Trial				14		
Chirp Center Frequency				5500		
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 Check (1=Detection; 0=No Detection)						1

Trial Number				8		
Number of Bursts in Trial				15		
Chirp Center Frequency				5500		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number		9			
Number of Bursts in Trial		16			
Chirp Center Frequency		5500			
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number			10			
Number of Bursts in Trial			17			
Chirp Center Frequency			5500			
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 Check (1=Detection; 0=No Detection)						1

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Trial Number				11		
Number of Bursts in Trial				18		
Chirp Center Frequency				5496		
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 Check (1=Detection; 0=No Detection)						1

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Trial Number					12	
Number of Bursts in Trial					19	
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number						13
Number of Bursts in Trial						20
Chirp Center 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 Check (1=Detection; 0=No Detection)						1

Trial Number						14
Number of Bursts in Trial						8
Chirp Center Frequency						5498
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	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 Check (1=Detection; 0=No Detection)						0

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Trial Number	15				
Number of Bursts in Trial	9				
Chirp Center Frequency	5498				
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	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 Check (1=Detection; 0=No Detection)					1

Trial Number	16				
Number of Bursts in Trial	10				
Chirp Center Frequency	5498				
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 Check (1=Detection; 0=No Detection)					1

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Trial Number		17				
Number of Bursts in Trial		11				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

Trial Number		18				
Number of Bursts in Trial		12				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	19				
Number of Bursts in Trial	13				
Chirp Center Frequency	5496				
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	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 Check (1=Detection; 0=No Detection)					1

Trial Number	20				
Number of Bursts in Trial	14				
Chirp Center Frequency	5496				
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 Check (1=Detection; 0=No Detection)					1

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Trial Number	21				
Number of Bursts in Trial	15				
Chirp Center Frequency	5504				
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number	22				
Number of Bursts in Trial	16				
Chirp Center Frequency	5505				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	23				
Number of Bursts in Trial	17				
Chirp Center Frequency	5505				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	24				
Number of Bursts in Trial	18				
Chirp Center Frequency	5506				
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	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 Check (1=Detection; 0=No Detection)					1

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Trial Number	25				
Number of Bursts in Trial	19				
Chirp Center Frequency	5506				
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 Check (1=Detection; 0=No Detection)						1

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Trial Number				26		
Number of Bursts in Trial				20		
Chirp Center Frequency				5506		
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 Check (1=Detection; 0=No Detection)						1

Trial Number				27		
Number of Bursts in Trial				8		
Chirp Center Frequency				5502		
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	69.1	18	1076	-	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 Check (1=Detection; 0=No Detection)						1

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Trial Number			28			
Number of Bursts in Trial			9			
Chirp Center Frequency			5502			
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	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)						1

Trial Number			29			
Number of Bursts in Trial			10			
Chirp Center Frequency			5502			
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	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)						0

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Trial Number		30			
Number of Bursts in Trial		11			
Chirp Center Frequency		5508			
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	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 Check (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
Detection Percentage (%)					100.000
Limit					70%
Test Result					**PASS**

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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	5525	23	326.2	3066	1
3	5499	19	1139.0	878	1
4	5527	12	1355.0	738	1
5	5505	4	1730.1	578	0
6	5529	8	1519.8	658	1
7	5496	15	1253.1	798	1
8	5523	6	1618.1	618	1
9	5512	14	1285.3	778	0
10	5504	3	1792.1	558	1
11	5497	13	1319.3	758	1
12	5496	9	1474.9	678	1
13	5525	7	1567.4	638	1
14	5514	17	1193.3	838	1
15	5497	10	1432.7	698	1
16	5516	-	1692.0	591	1
17	5515	-	328.1	3048	1
18	5504	-	373.4	2678	1
19	5527	-	574.4	1741	1
20	5517	-	1216.5	822	1
21	5500	-	801.3	1248	1
22	5526	-	488.5	2047	1
23	5496	-	956.0	1046	1
24	5522	-	517.6	1932	1
25	5517	-	1422.5	703	1
26	5515	-	542.0	1845	1
27	5500	-	741.3	1349	1
28	5497	-	881.8	1134	1
29	5529	-	427.4	2340	1
30	5496	-	628.9	1590	1
Detection Percentage (%)					93.333
Limit					60%
Test Result					**PASS**

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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	5494	2.6	221	23	1
2	5508	4.6	198	27	1
3	5521	1.1	184	29	1
4	5518	4.8	203	24	1
5	5528	2.4	162	25	1
6	5515	3.4	204	28	1
7	5492	2.3	170	27	1
8	5498	3.5	184	23	1
9	5526	4.9	150	27	1
10	5506	4.6	211	29	0
11	5490	2.9	158	23	1
12	5508	2.6	226	27	1
13	5511	1.6	204	26	1
14	5527	3.9	181	25	0
15	5514	4.6	202	24	1
16	5498	4.1	194	27	0
17	5527	2.3	193	28	1
18	5496	3.9	173	29	1
19	5493	4.3	188	23	0
20	5500	1.5	215	26	1
21	5497	4.9	227	27	1
22	5520	1.1	199	23	1
23	5520	4.5	155	29	1
24	5521	4.0	190	27	1
25	5526	2.4	151	23	1
26	5502	2.5	180	28	1
27	5521	2.5	228	23	1
28	5524	2.5	203	25	1
29	5521	1.5	188	25	1
30	5508	1.9	217	24	1
Detection Percentage (%)					86.667
Limit					60%
Test Result					**PASS**

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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	5504	8.0	205	16	1
2	5511	6.7	382	18	1
3	5516	8.6	418	16	1
4	5497	9.4	351	17	1
5	5528	7.4	383	18	1
6	5511	9.8	232	16	1
7	5499	9.1	377	17	1
8	5510	9.6	457	16	1
9	5499	8.0	471	18	1
10	5520	9.0	304	18	1
11	5529	8.0	316	17	0
12	5529	9.8	325	16	1
13	5511	8.0	409	17	0
14	5511	9.9	200	17	1
15	5504	8.8	458	16	1
16	5524	8.0	232	18	0
17	5493	8.3	250	16	1
18	5502	8.7	270	16	0
19	5493	7.7	350	17	1
20	5505	7.1	230	16	1
21	5517	7.3	416	18	0
22	5526	7.6	498	18	1
23	5500	7.3	286	17	1
24	5507	7.3	287	16	1
25	5505	7.5	462	17	1
26	5508	6.2	300	17	1
27	5525	6.4	323	18	1
28	5504	7.1	420	16	1
29	5528	7.2	395	18	1
30	5507	8.4	377	16	1
Detection Percentage (%)					83.333
Limit					60%
Test Result					**PASS**

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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	5519	18.0	242	15	1
2	5521	19.9	279	12	1
3	5498	12.9	487	14	0
4	5496	15.0	452	13	1
5	5519	16.3	230	12	1
6	5510	19.8	238	13	0
7	5515	18.2	420	16	1
8	5514	16.3	452	15	1
9	5517	14.2	495	12	0
10	5501	17.8	228	16	1
11	5517	19.1	211	16	1
12	5517	18.4	283	15	0
13	5530	11.8	411	12	1
14	5516	14.2	284	13	1
15	5527	13.9	202	12	1
16	5513	17.8	340	14	0
17	5519	15.6	290	16	1
18	5511	14.6	250	16	1
19	5501	14.4	484	15	1
20	5492	18.9	387	13	1
21	5509	11.1	348	15	1
22	5512	13.8	291	16	1
23	5513	14.3	295	12	0
24	5528	12.5	300	12	1
25	5501	12.5	322	14	1
26	5527	12.5	383	13	0
27	5524	15.7	322	16	1
28	5502	19.8	469	13	1
29	5513	18.6	406	15	1
30	5504	15.9	238	14	1
Detection Percentage (%)					76.667
Limit					60%
Test Result					**PASS**

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	86.667
3	83.333
4	76.667
Aggregate (Radar Types 1-4)	85.000
Limit	80%
Test Result	**PASS**

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)	VSG Freq. (MHz)	Detection
5510	5490	5530		
Trial	Chirp	Offset		
1	5	2	5510.0	1
2	20	8	5510.0	0
3	7	2.8	5510.0	1
4	8	3.2	5510.0	1
5	9	3.6	5510.0	1
6	10	4	5510.0	1
7	11	4.4	5510.0	1
8	12	4.8	5510.0	1
9	13	5.2	5510.0	1
10	14	5.6	5510.0	1
11	15	6	5496.0	1
12	16	6.4	5496.4	1
13	17	6.8	5496.8	1
14	20	8	5498.0	0
15	19	7.6	5497.6	1
16	18	7.2	5497.2	1
17	17	6.8	5496.8	1
18	16	6.4	5496.4	1
19	15	6	5496.0	1
20	14	5.6	5495.6	1
21	13	5.2	5524.8	0
22	12	4.8	5525.2	1
23	11	4.4	5525.6	1
24	10	4	5526.0	1
25	9	3.6	5526.4	1
26	8	3.2	5526.8	1
27	18	7.2	5522.8	1
28	19	7.6	5522.4	1
29	20	8	5522.0	1
30	5	2	5528.0	1
Total				27
Detection Percentage (%)				90%
Limit				80%
Test Result				**PASS**

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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)**	**Pulse 2-to-3 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		2				
Number of Bursts in Trial		9				
Chirp Center Frequency		5510				
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	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)						0

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Trial Number	3				
Number of Bursts in Trial	10				
Chirp Center Frequency	5510				
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	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	4				
Number of Bursts in Trial	11				
Chirp Center Frequency	5510				
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	74.3	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				
Number of Bursts in Trial		12				
Chirp Center Frequency		5510				
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number		6				
Number of Bursts in Trial		13				
Chirp Center Frequency		5510				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				7		
Number of Bursts in Trial				14		
Chirp Center Frequency				5510		
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 Check (1=Detection; 0=No Detection)						1

Trial Number				8		
Number of Bursts in Trial				15		
Chirp Center Frequency				5510		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				9		
Number of Bursts in Trial				16		
Chirp Center Frequency				5510		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	10				
Number of Bursts in Trial	17				
Chirp Center Frequency	5510				
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)
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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 Check (1=Detection; 0=No Detection)						1

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Trial Number					11	
Number of Bursts in Trial					18	
Chirp Center Frequency					5496	
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 Check (1=Detection; 0=No Detection)						1

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Trial Number				12		
Number of Bursts in Trial				19		
Chirp Center Frequency				5496		
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 Check (1=Detection; 0=No Detection)						1

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Trial Number				13		
Number of Bursts in Trial				20		
Chirp Center 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 Check (1=Detection; 0=No Detection)						1

Trial Number				14		
Number of Bursts in Trial				8		
Chirp Center Frequency				5498		
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	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 Check (1=Detection; 0=No Detection)						0

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Trial Number				15		
Number of Bursts in Trial				9		
Chirp Center Frequency				5498		
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number				16		
Number of Bursts in Trial				10		
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number		17				
Number of Bursts in Trial		11				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

Trial Number		18				
Number of Bursts in Trial		12				
Chirp Center Frequency		5496				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	19					
Number of Bursts in Trial	13					
Chirp Center Frequency	5496					
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number	20					
Number of Bursts in Trial	14					
Chirp Center Frequency	5496					
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 Check (1=Detection; 0=No Detection)						1

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Trial Number	21					
Number of Bursts in Trial	15					
Chirp Center Frequency	5525					
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	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 Check (1=Detection; 0=No Detection)						0

Trial Number	22					
Number of Bursts in Trial	16					
Chirp Center Frequency	5525					
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				23		
Number of Bursts in Trial				17		
Chirp Center Frequency				5526		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	24				
Number of Bursts in Trial	18				
Chirp Center Frequency	5526				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	25				
Number of Bursts in Trial	19				
Chirp Center Frequency	5526				
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 Check (1=Detection; 0=No Detection)						1

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Trial Number	26				
Number of Bursts in Trial	20				
Chirp Center Frequency	5527				
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 Check (1=Detection; 0=No Detection)						1

Trial Number	27				
Number of Bursts in Trial	8				
Chirp Center Frequency	5523				
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	69.1	18	1076	-	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 Check (1=Detection; 0=No Detection)						1

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Trial Number			28			
Number of Bursts in Trial			9			
Chirp Center Frequency			5522			
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	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)						1

Trial Number			29			
Number of Bursts in Trial			10			
Chirp Center Frequency			5522			
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	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)						1

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Trial Number					30	
Number of Bursts in Trial					11	
Chirp Center Frequency					5528	
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	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 Check (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
Detection Percentage (%)					100.000
Limit					70%
Test Result					**PASS**

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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	5538	1	1930.5	518	1
2	5505	23	326.2	3066	1
3	5536	19	1139.0	878	1
4	5542	12	1355.0	738	1
5	5539	4	1730.1	578	1
6	5546	8	1519.8	658	1
7	5499	15	1253.1	798	1
8	5558	6	1618.1	618	1
9	5566	14	1285.3	778	1
10	5567	3	1792.1	558	1
11	5513	13	1319.3	758	1
12	5549	9	1474.9	678	1
13	5543	7	1567.4	638	1
14	5538	17	1193.3	838	1
15	5501	10	1432.7	698	1
16	5531	-	1692.0	591	0
17	5556	-	328.1	3048	1
18	5528	-	373.4	2678	1
19	5548	-	574.4	1741	1
20	5513	-	1216.5	822	1
21	5569	-	801.3	1248	1
22	5523	-	488.5	2047	1
23	5545	-	956.0	1046	1
24	5517	-	517.6	1932	1
25	5497	-	1422.5	703	1
26	5562	-	542.0	1845	1
27	5501	-	741.3	1349	1
28	5517	-	881.8	1134	1
29	5553	-	427.4	2340	1
30	5550	-	628.9	1590	1
Detection Percentage (%)					96.667
Limit					60%
Test Result					**PASS**

Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5500	2.6	221	23	1
2	5537	4.6	198	27	0
3	5549	1.1	184	29	1
4	5526	4.8	203	24	1
5	5520	2.4	162	25	1
6	5524	3.4	204	28	1
7	5564	2.3	170	27	1
8	5505	3.5	184	23	1
9	5566	4.9	150	27	1
10	5528	4.6	211	29	1
11	5517	2.9	158	23	1
12	5528	2.6	226	27	1
13	5532	1.6	204	26	1
14	5525	3.9	181	25	1
15	5496	4.6	202	24	1
16	5551	4.1	194	27	0
17	5526	2.3	193	28	1
18	5503	3.9	173	29	1
19	5544	4.3	188	23	1
20	5522	1.5	215	26	0
21	5499	4.9	227	27	1
22	5504	1.1	199	23	1
23	5538	4.5	155	29	1
24	5535	4.0	190	27	1
25	5533	2.4	151	23	1
26	5537	2.5	180	28	1
27	5564	2.5	228	23	1
28	5555	2.5	203	25	1
29	5506	1.5	188	25	1
30	5508	1.9	217	24	1
Detection Percentage (%)					90.000
Limit					60%
Test Result					**PASS**

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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	5531	8.0	205	16	0
2	5506	6.7	382	18	1
3	5493	8.6	418	16	1
4	5542	9.4	351	17	1
5	5505	7.4	383	18	1
6	5500	9.8	232	16	0
7	5567	9.1	377	17	1
8	5557	9.6	457	16	1
9	5549	8.0	471	18	1
10	5495	9.0	304	18	1
11	5500	8.0	316	17	1
12	5523	9.8	325	16	1
13	5552	8.0	409	17	1
14	5519	9.9	200	17	1
15	5526	8.8	458	16	1
16	5510	8.0	232	18	1
17	5545	8.3	250	16	0
18	5565	8.7	270	16	1
19	5536	7.7	350	17	1
20	5555	7.1	230	16	1
21	5543	7.3	416	18	0
22	5532	7.6	498	18	0
23	5565	7.3	286	17	1
24	5559	7.3	287	16	1
25	5549	7.5	462	17	1
26	5514	6.2	300	17	1
27	5553	6.4	323	18	1
28	5511	7.1	420	16	1
29	5552	7.2	395	18	1
30	5508	8.4	377	16	1
Detection Percentage (%)					83.333
Limit					60%
Test Result					**PASS**

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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	5500	18.0	242	15	0
2	5565	19.9	279	12	1
3	5527	12.9	487	14	1
4	5540	15.0	452	13	0
5	5513	16.3	230	12	0
6	5543	19.8	238	13	1
7	5508	18.2	420	16	1
8	5560	16.3	452	15	1
9	5507	14.2	495	12	0
10	5554	17.8	228	16	1
11	5511	19.1	211	16	1
12	5532	18.4	283	15	1
13	5552	11.8	411	12	0
14	5512	14.2	284	13	1
15	5530	13.9	202	12	1
16	5492	17.8	340	14	1
17	5515	15.6	290	16	1
18	5492	14.6	250	16	1
19	5541	14.4	484	15	1
20	5568	18.9	387	13	1
21	5537	11.1	348	15	1
22	5504	13.8	291	16	0
23	5491	14.3	295	12	1
24	5511	12.5	300	12	1
25	5521	12.5	322	14	1
26	5554	12.5	383	13	0
27	5506	15.7	322	16	1
28	5534	19.8	469	13	0
29	5497	18.6	406	15	1
30	5539	15.9	238	14	1
Detection Percentage (%)					73.333
Limit					60%
Test Result					**PASS**

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	96.667
2	90.000
3	83.333
4	73.333
Aggregate (Radar Types 1-4)	85.833
Limit	80%
Test Result	**PASS**

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)	VSG Freq. (MHz)	Detection
5530	5491	5569		
Trial	Chirp	Offset		
1	5	2	5530.0	1
2	20	8	5530.0	1
3	7	2.8	5530.0	1
4	8	3.2	5530.0	1
5	9	3.6	5530.0	1
6	10	4	5530.0	1
7	11	4.4	5530.0	1
8	12	4.8	5530.0	1
9	13	5.2	5530.0	1
10	14	5.6	5530.0	1
11	15	6	5497.0	1
12	16	6.4	5497.4	1
13	17	6.8	5497.8	1
14	20	8	5499.0	1
15	19	7.6	5498.6	1
16	18	7.2	5498.2	1
17	17	6.8	5497.8	1
18	16	6.4	5497.4	1
19	15	6	5497.0	1
20	14	5.6	5496.6	1
21	13	5.2	5563.8	1
22	12	4.8	5564.2	1
23	11	4.4	5564.6	1
24	10	4	5565.0	1
25	9	3.6	5565.4	1
26	8	3.2	5565.8	1
27	18	7.2	5561.8	1
28	19	7.6	5561.4	1
29	20	8	5561.0	0
30	5	2	5567.0	1
Total				29
Detection Percentage (%)				97%
Limit				80%
Test Result				**PASS**

Trial Number		1				
Number of Bursts in Trial		8				
Chirp Center Frequency		5530				
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	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		2				
Number of Bursts in Trial		9				
Chirp Center Frequency		5530				
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	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		3				
Number of Bursts in Trial		10				
Chirp Center Frequency		5530				
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	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		4				
Number of Bursts in Trial		11				
Chirp Center Frequency		5530				
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	74.3	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		
Number of Bursts in Trial				12		
Chirp Center Frequency				5530		
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number				6		
Number of Bursts in Trial				13		
Chirp Center Frequency				5530		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				7		
Number of Bursts in Trial				14		
Chirp Center Frequency				5530		
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 Check (1=Detection; 0=No Detection)						1

Trial Number				8		
Number of Bursts in Trial				15		
Chirp Center Frequency				5530		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				9		
Number of Bursts in Trial				16		
Chirp Center Frequency				5530		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number			10			
Number of Bursts in Trial			17			
Chirp Center Frequency			5530			
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 Check (1=Detection; 0=No Detection)						1

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Trial Number					11	
Number of Bursts in Trial					18	
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	12				
Number of Bursts in Trial	19				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)					1

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Trial Number	13					
Number of Bursts in Trial	20					
Chirp Center Frequency	5498					
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 Check (1=Detection; 0=No Detection)						1

Trial Number	14					
Number of Bursts in Trial	8					
Chirp Center Frequency	5499					
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	15				
Number of Bursts in Trial	9				
Chirp Center Frequency	5499				
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	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 Check (1=Detection; 0=No Detection)					1

Trial Number	16				
Number of Bursts in Trial	10				
Chirp Center Frequency	5498				
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 Check (1=Detection; 0=No Detection)					1

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Trial Number		17				
Number of Bursts in Trial		11				
Chirp Center Frequency		5498				
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number		18				
Number of Bursts in Trial		12				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	19				
Number of Bursts in Trial	13				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)					1

Trial Number	20				
Number of Bursts in Trial	14				
Chirp Center 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	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 Check (1=Detection; 0=No Detection)					1

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Trial Number	21					
Number of Bursts in Trial	15					
Chirp Center Frequency	5564					
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	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 Check (1=Detection; 0=No Detection)						1

Trial Number	22					
Number of Bursts in Trial	16					
Chirp Center Frequency	5564					
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	23				
Number of Bursts in Trial	17				
Chirp Center Frequency	5565				
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number				24		
Number of Bursts in Trial				18		
Chirp Center Frequency				5565		
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	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 Check (1=Detection; 0=No Detection)						1

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Trial Number		25			
Number of Bursts in Trial		19			
Chirp Center Frequency		5565			
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 Check (1=Detection; 0=No Detection)						1

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Trial Number			26			
Number of Bursts in Trial			20			
Chirp Center Frequency			5566			
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 Check (1=Detection; 0=No Detection)						1

Trial Number			27			
Number of Bursts in Trial			8			
Chirp Center Frequency			5562			
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	69.1	18	1076	-	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 Check (1=Detection; 0=No Detection)						1

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Trial Number	28					
Number of Bursts in Trial	9					
Chirp Center Frequency	5561					
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	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)						1

Trial Number	29					
Number of Bursts in Trial	10					
Chirp Center Frequency	5561					
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	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)						0

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Trial Number	30					
Number of Bursts in Trial	11					
Chirp Center Frequency	5567					
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	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 Check (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
Detection Percentage (%)					100.000
Limit					70%
Test Result					**PASS**

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4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Dec. 01, 2020	Nov. 30, 2021	Radiated (DF01-CB)
Vector Signal generator	R&S	SMU200A	102782	100kHz-6GHz	Jun. 24, 2021	Jun. 23, 2022	Radiated (DF01-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 23, 2021	Jun. 22, 2022	Radiated (DF01-CB)
Horn Antenna	COM-POWER	AH-118	071042	1GHz – 18GHz	Dec. 22, 2020	Dec. 21, 2021	Radiated (DF01-CB)
RF Power Divider	STI	2 Way	DV-2way -05	1GHz ~ 8GHz	Mar. 01, 2021	Feb. 28, 2022	Radiated (DF01-CB)
RF Power Divider	STI	2 Way	DV-2way -06	1GHz ~ 8GHz	Mar. 01, 2021	Feb. 28, 2022	Radiated (DF01-CB)
RF Power Divider	MTJ	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-57	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-58	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-59	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiated (DF01-CB)

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

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