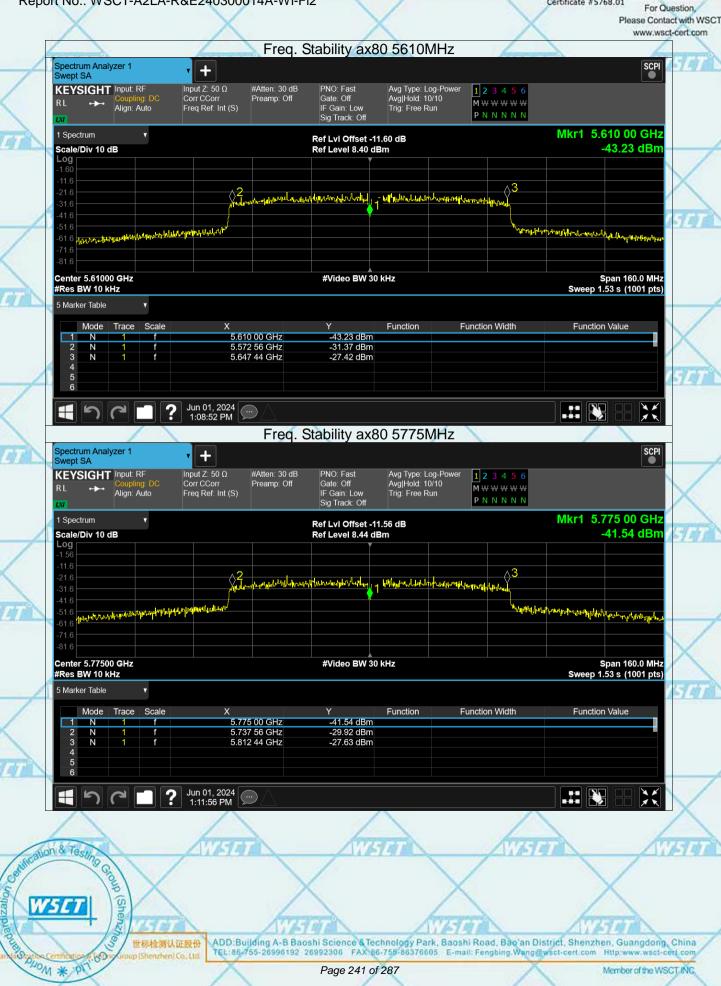






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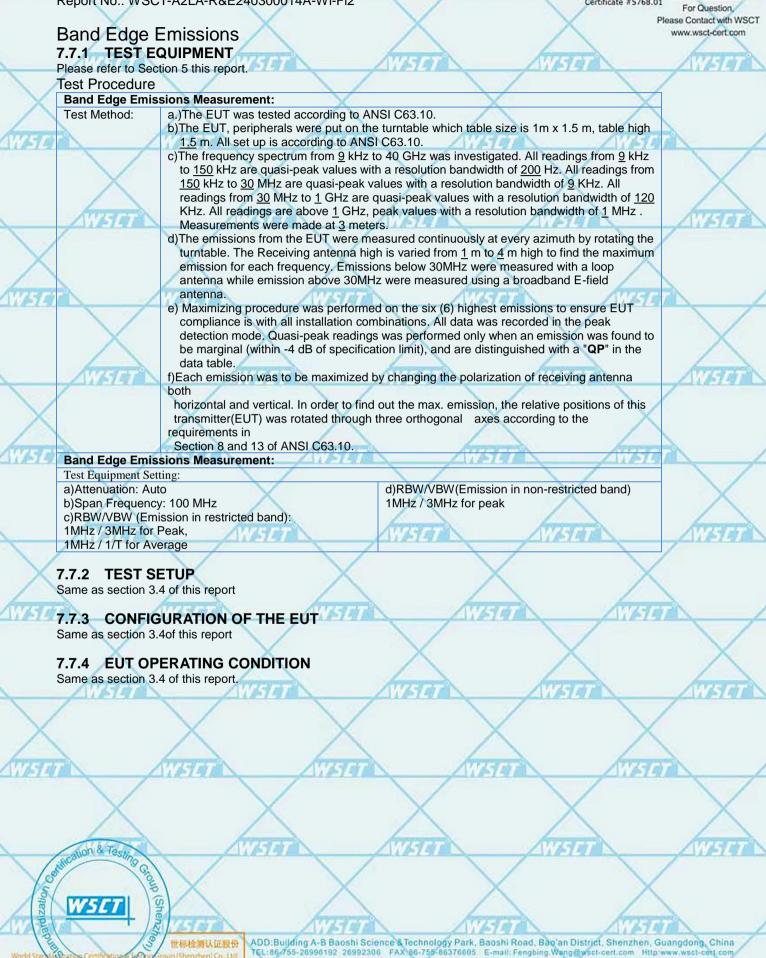


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# 7.7.5 LIMIT

-	Spurious Radiate	ed Emission & Band Edge Emissions Measurement:	AWSE.
×	Limit:	For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.	
	(THE	In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power that is produced by modulation products of the spreading sequence, the information	wist
X		sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in section 15.209(a), which lesser attenuation. All other emissions inside restricted bands specified in section 15.205(a) shall not exceed	
-19	permitted average 47 CFR § 15.237(	the general radiated emission limits specified in section 15.209(a) ics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum field strength is listed in section 15.209. c): The emission limits as specified above are based on measurement instrument employing or. The provisions in section 15.35 for limiting peak emissions apply.	

## 7.7.6 TEST RESULT

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#### **Band Edge and Fundamental Emissions**

	Product:	EUT-Sample	Test Mode:	20MHzIEEE 802.11a/n/ac	
	Test Item:	Band Edge and Fundamental Emissions	Temperature:	25 °C	
$\times$	Test Voltage:	DC 11.61V	Humidity:	56%RH	
7/5/E/	Test Result:	PASS	7	AWSTA AWST	

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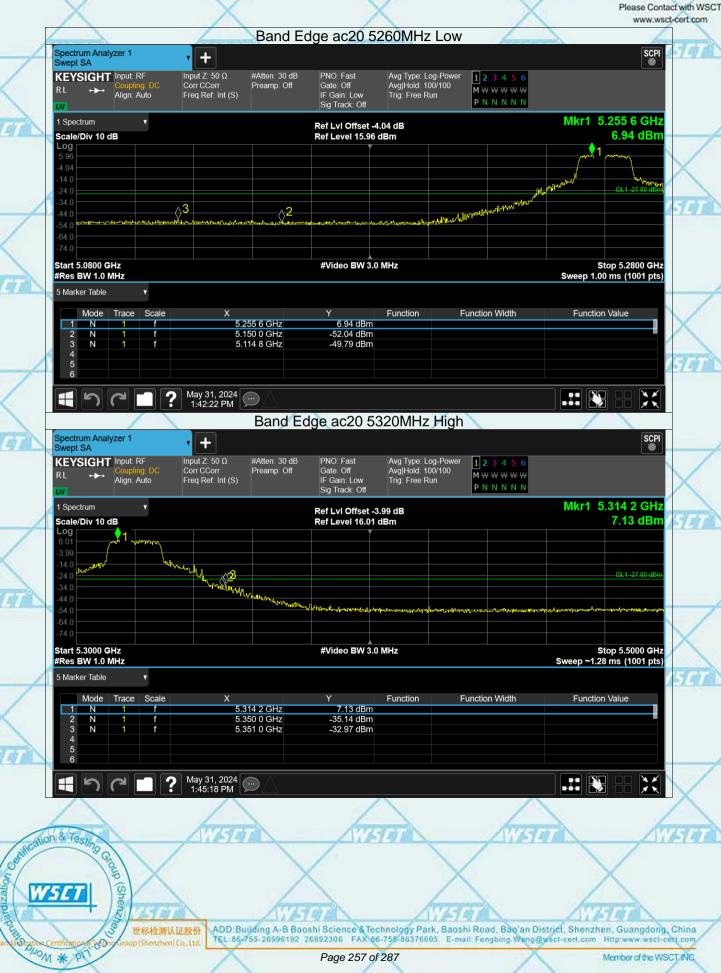






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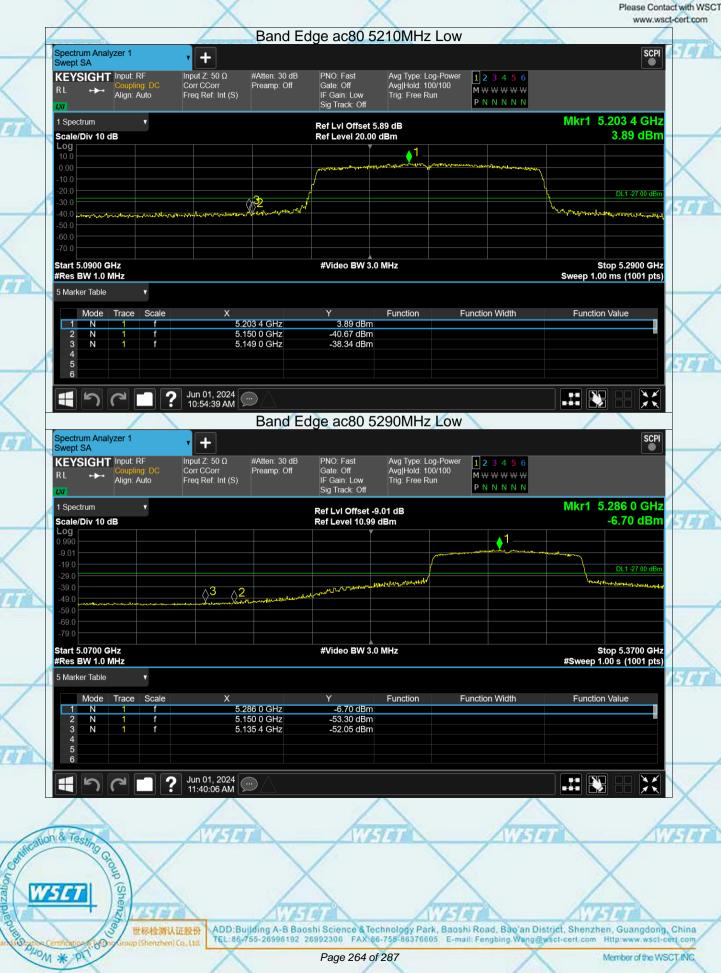






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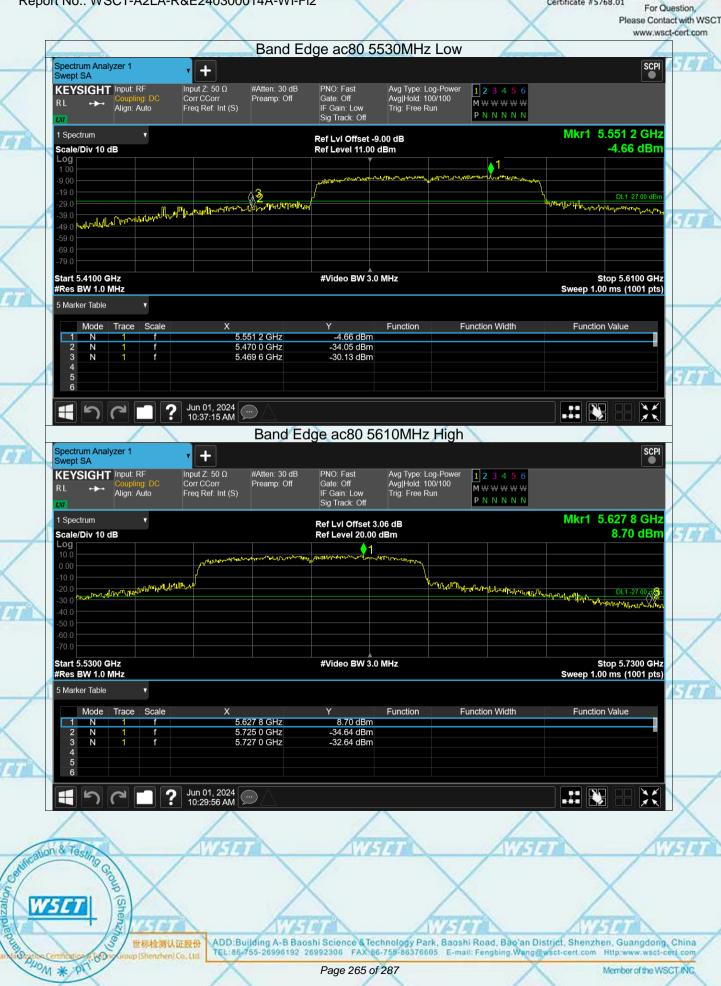






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Dynamic Frequency Selection (DFS) 7.7.7 DFS OVERVIEW

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands. Within the context of the operation of the DFS function, a U-NII device will operate in either *Master Mode* or *Client Mode*. U-NII devices operating in *Client Mode* can only operate in a network controlled by a U-NII device operating in *Master Mode*.

Tables 1 and 2 shown below summarize the information contained in sections 5.1.1 and 5.1.2

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

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

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Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with	Master Device or Client with	Client Without Radar			
multiple bandwidth modes	Radar Detection	Detection			
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required			
Performance Check		_			
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest			
Transmission Time	available	BW mode available for			
		the link			
All other tests	Any single BW mode	Not required			
Note: Frequencies selected for statistical perfe	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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The operational behavior and individual DFS requirements that are associated with these modes are associated follows:

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#### DFS Detection Thresholds

**Table 3** below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

#### Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value		
	(See Notes 1, 2, and 3)		
$EIRP \ge 200 milliwatt$	-64 dBm		
EIRP < 200 milliwatt and	-62 dBm		
power spectral density < 10 dBm/MHz			
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm		
requirement			
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.			
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the			
test transmission waveforms to account for variations in measurement equipment. This will ensure that			
the test signal is at or above the detection threshold level to trigger a DFS response.			
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication			
662911 D01.			

#### **Response Requirements**

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Table 4 provides the response requirements for Master and Client Devices incorporating DFS.

	Parameter
	Non-occupa
X	Channel Av
	Channel Mo
AVISION	Channel Cl
	U-NII Detec
	Note 1: C Radar Type Note 2: Th
hard	beginning o facilitate a (

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Table 4: DFS Response	Requirement Values
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Value

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

Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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### RADAR TEST WAVEFORMS

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

## Short Pulse Radar Test Waveforms

		Table 5 – Short Puls	se Radar Test Waveform	15	
Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Type	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected	$\frac{\text{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \right\}}{\left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right)}$	60%	30
2	1-5	in Test A 150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
4					

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 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses would be

$$\left\{ \left(\frac{1}{360}\right) \cdot \left(\frac{19 \cdot 10^{\circ}}{3066}\right) \right\} = \text{Round up } \{17.2\} = 18.$$

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

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

,	Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection	
	1	35	29	82.9%	
\$	2	30	18	60%	
	3	30	27	90%	
	4	50	44	88%	
	$\Delta \alpha \alpha \beta \alpha \beta \alpha \beta \alpha \beta \beta$				

Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%

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### Long Pulse Radar Test Waveform

		Tab	le 6 – Lon	g Pulse Rad	ar Test Wav	eform	
Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of
	(µsec)	(MHz)		per Burst		Successful	Trials
				-		Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

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

Each waveform is defined as follows:

1) The transmission period for the Long Pulse Radar test signal is 12 seconds.

2) 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*.

3) 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.

4) 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.

5) Each pulse has a linear frequency modulated 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.

6) 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 random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.

7) 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 randomly.

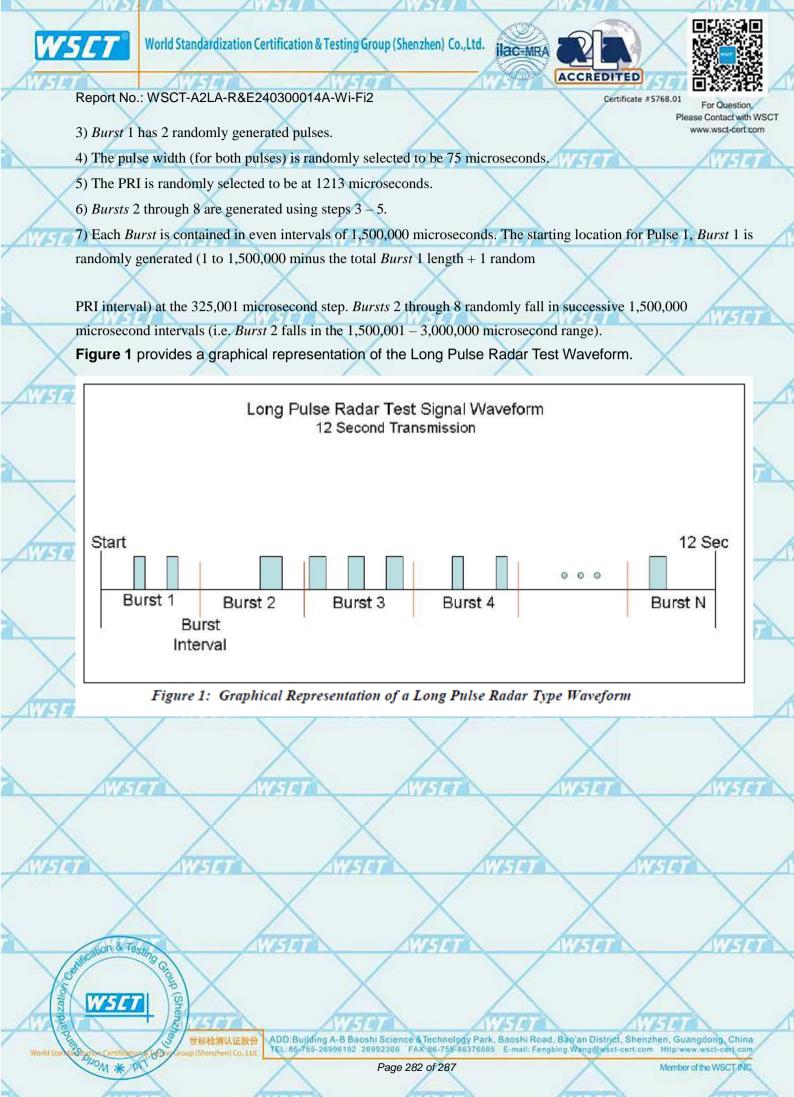
## A representative example of a Long Pulse Radar Type waveform:

(1) The total test waveform length is 12 seconds.

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2) Eight (8) Bursts are randomly generated for the Burst Count.

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#### Frequency Hopping Radar Test Waveform

		Tabl	e 7 – Fre	quency Hop	ping Radar Te	st Waveform	
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
			-		(msec)	Detection	
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: <sup>4</sup>

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

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# 7.7.8 TEST PROCEDURE

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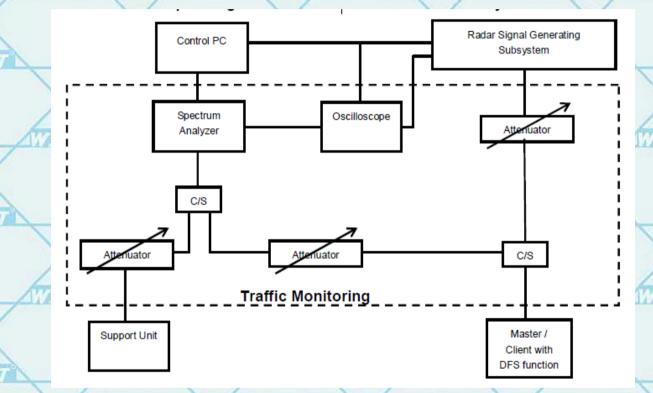
## DFS MEASUREMENT SYSTEM

A complete DFS Measurement System consists of two subsystems:

(1) The Radar Signal Generating Subsystem and

(2) The Traffic Monitoring Subsystem.

The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).



The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 y Magic Hours) from Master device, the designated MPEG test file and instructions are located at: http://ntiacsd.ntia.doc.gov/dfs/.

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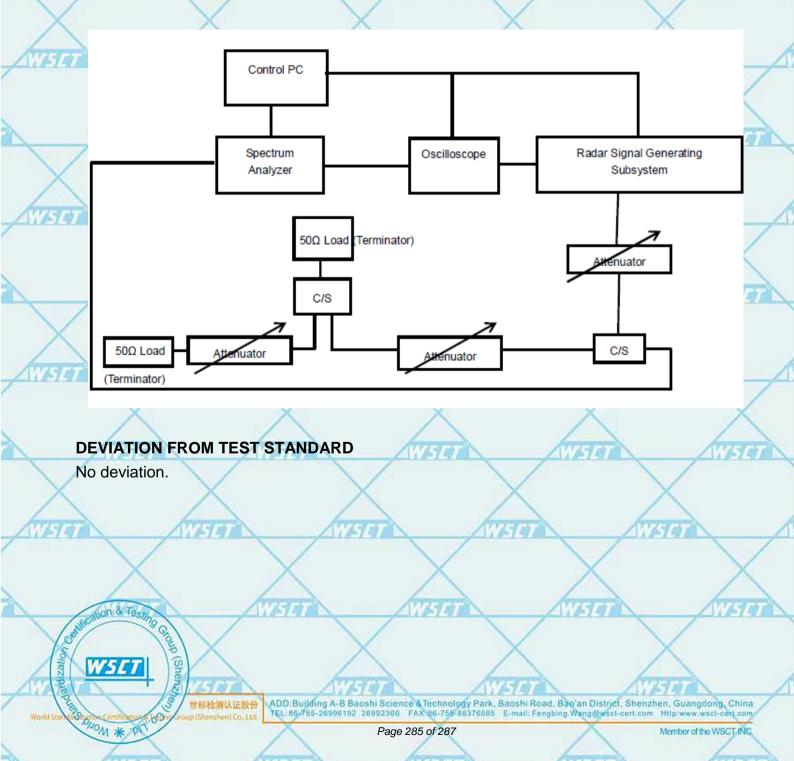
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# CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

The measured channel is 5260MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

# SLAVE WITHOUT RADAR DETECTION MODE

The antenna gain is -4dBi and required detection threshold is -65dBm (= -62 +1 - 4)dBm. The calibrated conducted detection threshold level is set to -65dBm.





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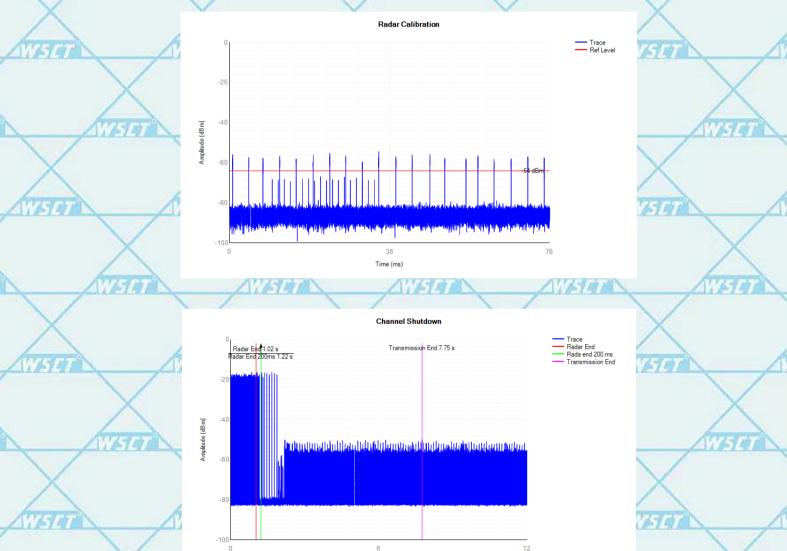
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Test Items ////	Remark	Result	21
Channel Closing Transmission Time	Applicable	PASS	
Channel Move Time	Applicable	PASS	

Note: This Laptop Computer can only be used as a slave without radar detection function. Measurement Record 802.11ac(the worst case) Measurement data below:

5290MHz						
Test Items	Value (s)	Limit (s)	Test Result			
Channel Closing Transmission Time	0.0076 //5/	0.26	Pass //			
Channel Move Time	6.7297	10	Pass			



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Time (s)

