FCC DFS TEST REPORT

Applicant : Alarm.com Incorporated

Address 8281 Greensboro Drive, Suite 100, Tysons,

VA 22102

Equipment : Wi-Fi Outdoor Two Way Audio Camera

Model No. : ADC-V724

Trade Name : ALARM.COM

FCC ID : YL6-V724

I HEREBY CERTIFY THAT:

The sample was received on Jan. 08, 2021 and the testing was completed on Mar. 10, 2021 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





Report No.: 21010043-TRFCC04

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History of this test report

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1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

KDB 905462

FCC Rule	Description of Test	Result
15.407	Dynamic Frequency Selection	PASS

^{*}The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.

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2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

	,
	BLE: 2402-2480MHz
Frequency Range	802.11b/g/n: 2412-2462MHz
Troqueriey range	802.11a/n/ac: 5180-5240MHz, 5260-5320MHz,
	5500-5700MHz, 5745-5825MHz
	BLE: GFSK
	WLAN:
	2.4GHz:
Modulation Type	802.11b: CCK, DQPSK, DBPSK
Wodulation Type	802.11g/n: BPSK, QPSK, 16QAM, 64QAM
	5GHz:
	802.11n/a: BPSK, QPSK, 16QAM, 64QAM
	802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM, DTS
	BLE:
	GFSK: 1Mbps
	WLAN:
	2.4GHz:
	802.11b: 1, 2, 5.5, 11Mbps
Data Rate	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n: MCS0 – MCS15, HT20/40
	5GHz:
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n: MCS0 – MCS15, HT20/40
	802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	FPCB Antenna
7.	For BLE:
	2402-2480MHz: ANT B:3.94dBi
	For WLAN:
	2412-2462MHz: ANT A:3.78dBi,ANT B:3.94dBi
Antenna Gain	5180-5240 MHz: ANT A:2.72dBi, ANT B:3.63dBi
	5260-5320MHz: ANT A:3.55dBi, ANT B:4.23dBi
	5500-5700MHz: ANT A:4.28dBi, ANT B:5.12dBi
	5745-5825MHz: ANT A:4.24dBi, ANT B:5.30dBi
A 1 4	Brand:APD
Adapter	Model: WB-12G12FU
Noto:	

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Note:

2.2. Description of Test System

	DFS					
Equipment	Brand	Model	Length/Type	Power cord/Length/Type	FCC ID	
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS		
AP	NETGEAR	RAX80	NA	Adapter / 1.5m / NS	PY318200414	
RJ45 Cable	N/A	N/A	15m / NS	N/A		

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^{1.}EUT support TPC Function.

^{2.}EUT support Client Mode without radar detection.

^{3.} For more details, please refer to the User's manual of the EUT.

2.3. General Information of Test

	Address Taiwan (Tel:+886	erpass Technology Corporation Test Laboratory Idress: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, iwan (R.O.C.) I:+886-3-3226-888 x:+886-3-3226-881		
Test Site	FCC	TW1439, TW1079		
	IC	4934E-1, 4934E-2		
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz		
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz			
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.			

Test Item Test Site		Test period	Environmental Conditions	Tested By
DFS	RFDFS01-NK	2021/03/10	23℃ / 50%	Dian Chen

2.4. Measurement Uncertainty

Measurement Item	Uncertainty
Channel Move Time	±2.64%
Channel Closing Transmission Time	±5.36%
Threshold	±1.121dB

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3. Test Equipment and Ancillaries Used for Tests

Test Item DFS							
Test Site	RFDFS01-NK						
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date		
Horn Antenna	EMCO	3115	31589	2020/03/26	2021/03/25		
Horn Antenna	EMCO	3115	31601	2020/10/16	2021/10/15		
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2020/04/14	2021/04/13		
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100291	2020/11/10	2021/11/09		
MXG Vector Signal Generator	KEYSIGHT	N5182A	MY50141551	2020/10/15	2021/10/14		
N7607B Signal Studio	KEYSIGHT	v3.2.0.0	NA	NA	NA		
InServiceMonitorUtility	Theda	v10.0.0.0	NA	NA	NA		

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4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2. Antenna Construction and Directional Gain

Antenna Type	FPCB Antenna
Antenna Gain	5180-5240 MHz: ANT A:2.72dBi, ANT B:3.63dBi 5260-5320MHz: ANT A:3.55dBi, ANT B:4.23dBi 5500-5700MHz: ANT A:4.28dBi, ANT B:5.12dBi 5745-5825MHz: ANT A:4.24dBi, ANT B:5.30dBi

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5. Dynamic Frequency Selection

5.1. List of Measurement and Examinations

EUT Applicability of DFS requirements and Frequency Range

		Operating Frequency Range		
Operation Mod	de	5250-5350MHz	5470-5725MHz (Support 5600MHz-5650MHz)	
Master				
Client without radar detection	$\sqrt{}$	V	V	
Client with radar detection				

DEVICES WITH RADAR DETECTION

MAXIMUM TRANSMIT POWER	VALUE (SEE Note 1 and 2)
≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

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

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

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

Table1: Applicability of DFS requirements prior to use of a channel

	OPERATIONAL MODE		
REQUIREMENT		CLIENT WITHOUT	CLIENT WITH
RADAR	MASTER	RADAR	RADAR
		DETECTION	DETECTION
Non-Occupancy Period	V	Not required	V
DFS Detection Threshold	V	Not required	V
Channel Availability Check Time	V	Not required	Not required
U-NII Detection Bandwidth	V	Not required	V

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Table2: Applicability of DFS requirements during normal operation

	OPERATIONAL MODE		
REQUIREMENT		CLIENT WITHOUT	CLIENT WITH
RADAR	MASTER	RADAR	RADAR
		DETECTION	DETECTION
DFS Detection Threshold	V	Not required	V
Channel Closing Transmission Time	V	V	V
Channel Move Time	V	V	V
U-NII Detection Bandwidth	V	Not required	V

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Additional requirements for devices with multiple bandwidth modes	Master 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	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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5.2. Test Setup

Setup for Master with injection at the Master

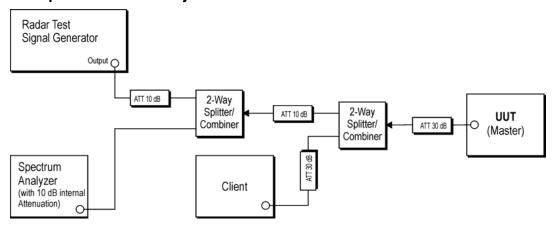


Figure 1: Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

Setup for Client with injection at the Master

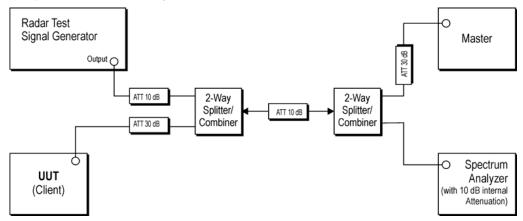


Figure 2: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master

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Setup for Client with injection at the Client

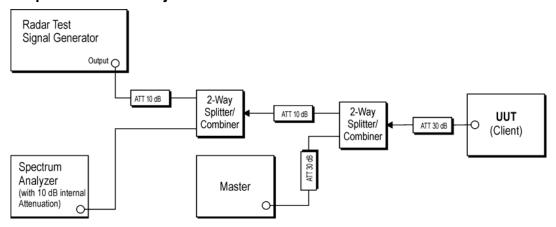


Figure 3: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Client

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5.3. DFS Detection Threshold

DFS Detection Threshold is the level used by the DFS mechanism to detect radar interference.

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5.3.1. Test Limit

Limits Clause 4.7.2.1.2

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

MAXIMUM TRANSMIT POWER	VALUE (SEE Note 1 and 2)	
≥ 200 milliwatt	-64 dBm	
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm	
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm	

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

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

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

	Band: 5260MHz ~ 5320MHz
	802.11a: 21.20dBm
	802.11n HT20: 21.02dBm
	802.11n HT40: 23.86dBm
	802.11ac VHT20: 21.07dBm
	802.11ac VHT40: 23.89dBm
	802.11ac VHT80: 17.69dBm
Max. output power	
	Band: 5500MHz ~ 5700MHz
	802.11a: 20.23dBm
	802.11n HT20: 20.44dBm
	802.11n HT40: 23.49dBm
	802.11ac VHT20: 20.46dBm
	802.11ac VHT40: 23.51dBm
	802.11ac VHT80: 22.50dBm
Antonno goin (May)	5260-5320MHz: ANT A: 3.55dBi, ANT B: 4.23dBi
Antenna gain (Max)	5500-5700MHz: ANT A: 4.28dBi, ANT B: 5.12dBi

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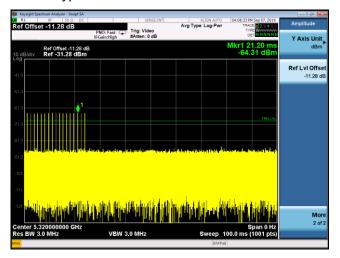
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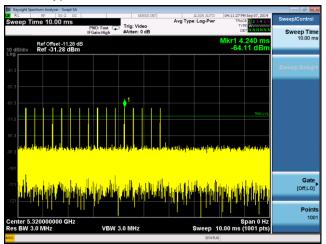


5.3.2. Test Result of DFS Detection Threshold

Radar Type 0 Calibration Plot

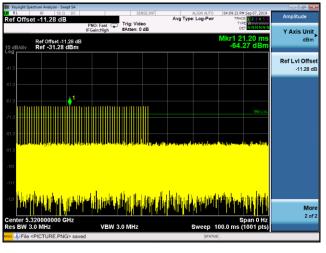


Radar Type 3 Calibration Plot

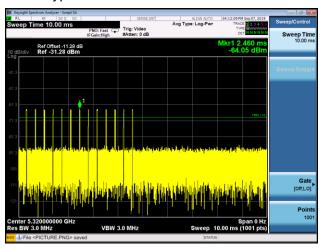


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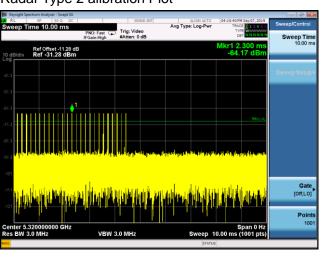
Radar Type 1 Calibration Plot



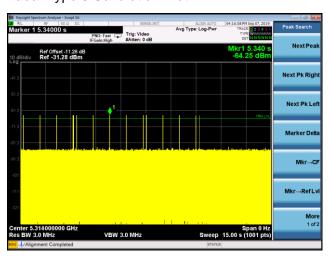
Radar Type 4 Calibration Plot



Radar Type 2 alibration Plot



Radar Type 5 Calibration Plot



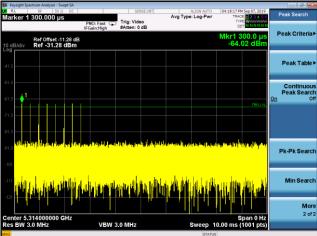
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Radar Type 6 Calibration Plot



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5.4. Channel Availability Check Time

The Channel Availability Check is defined as the mechanism by which an RLAN device checks a channel for the presence of radar signals.

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There shall be no transmissions by the device within the channel being checked during this process. If no radars have been detected, the channel becomes an Available Channel valid for a period of time.

The RLAN shall only start transmissions on Available Channels.

At power-up, the RLAN is assumed to have no Available Channels.

5.4.1. Test Limit

Limits Clause 4.7.2.1.2

Table D.2: DFS requirement values

Parameter	Value
Channel Availability Check	> 60s

5.4.2. Test Result of Channel Availability Check

Not required

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

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time. This is illustrated in **Figure 15**.

- a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests or Radiated Tests and the power of the UUT is switched off.
- b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.
- c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

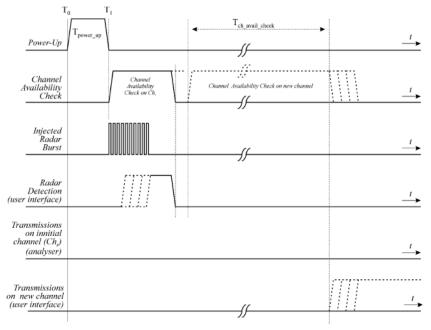


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

5.5.1. Test Result of radar burst at the beginning of the Channel Availability Check Time Not required

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

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1dB occurs at the end of the Channel Availability Check Time. This is illustrated in **Figure 16**.

- a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests or Radiated Tests and the power of the UUT is switched off.
- b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.
- c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1 + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

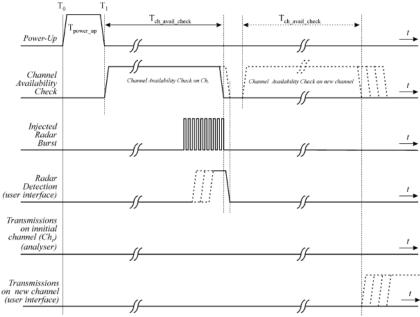


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

5.6.1. Test Result of radar burst at the end of the Channel Availability Check Time

Not required

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5.7. U-NII Detection Bandwidth

Additional requirements for devices with	Master 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	All Byv modes must be tested	Not required

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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.

5.7.1. Test Limit

Limits Clause 4.7.2.1.2 Table D.2: DFS requirement values

Parameter	Value
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission

Note: 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.

Test Result of U-NII Detection Bandwidth 5.7.2.

Not required

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5.8. Statistical Performance Check

The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

5.8.1. Test Result of Uniform Spreading

Not required

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5.9. In-Service Monitoring

The In-Service Monitoring is defined as the process by which an RLAN monitors the Operating Channel for the presence of radar signals.

Additional requirements for devices with	Master or Client with	Client without radar
multiple bandwidth modes	radar detection	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	Any single BW mode	Not required

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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.

5.9.1. Test Limit

Parameter	Value	
Channel Move Time	< 10 s (See Note 1)	
Channel Closing Transmission Time	< 200 ms+ an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and Notes 2.)	

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Limits Clause 4.7.2.2.2

The In-Service Monitoring shall be used to continuously monitor an Operating Channel.

The In-Service-Monitoring shall start immediately after the RLAN has started transmissions on an Operating Channel.

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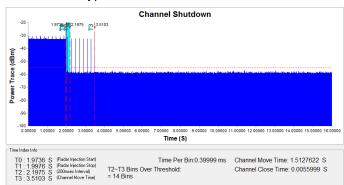
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5.9.2. Test Result of In-Service Monitoring

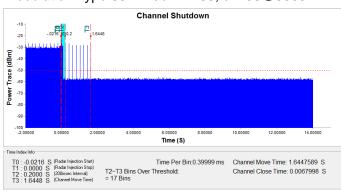
	Value	Limit
Channel Move Time	1.5127622	<10 s
Channel Closing Transmission Time	5.5999	< 60 ms

Modulation Type:802.11ac VHT80, ch58@5320MHz



	Value	Limit
Channel Move Time	1.6447589	<10 s
Channel Closing Transmission Time	6.7998	< 60 ms

Modulation Type:802.11ac VHT80, ch106@5500MHz



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5.10. Non-Occupancy Period

The Channel Shutdown is defined as the process initiated by the RLAN device immediately after a radar signal has been detected on an Operating Channel.

The master device shall instruct all associated slave devices to stop transmitting on this channel, which they shall do within the Channel Move Time.

Slave devices with a Radar Interference Detection function, shall stop their own transmissions within the Channel Move Time.

The aggregate duration of all transmissions of the RLAN device on this channel during the Channel Move Time shall be limited to the Channel Closing Transmission Time. The aggregate duration of all transmissions shall not include quiet periods in between transmissions.

5.10.1. Test Limit

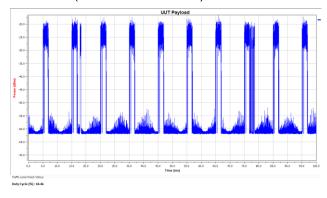
Radar Test Signal	Master (min)	Client (min)
0	> 30	> 30

5.10.2. Channel Loading

A link is established between the AP. Use Iperf ver.2.0.9 Software to simulate data transfer is streamed to generate WLAN traffic.

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type

Modulation Type:802.11ac VHT80 Time On/ (Time On + Off Time) =18.46%



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5.10.3. Test Result of Non-Occupancy Period

Modulation Type:802.11ac VHT80, ch58@5260MHz



Modulation Type:802.11ac VHT80, ch106@5500MHz



-----THE END OF REPORT-----

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