

Report No. : FZ852814-10



FCC DFS Test Report

FCC ID	: 2AEUPBHASC052
Equipment	:Stick Up Cam Elite
Brand Name	: Ring LLC
Model Name	:Stick Up Cam Elite
Applicant	: Ring LLC 12515 Cerise Ave Hawthorne, CA 90250, USA
Manufacturer	: Chicony Electronics Co.,Ltd. No.69, Sec. 2, Guangfu Rd., Sanchong Dist. New Taipei City 241 Taiwan
Standard	: 47 CFR FCC Part 15.407

The product was received on Oct. 17, 2019, and testing was started from Oct. 29, 2019 and completed on Oct. 29, 2019. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

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

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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Photographs of EUT V01



History of this test report

Version	Description	Issued Date
01	Initial issue of report	Dec. 08, 2022



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	PASS	CMT ≤ 10sec
3.3	KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	PASS	CCTT ≤ 60 ms starting at CMT 200ms
3.3	KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	NOP ≥ 30 min

Note: Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period are required to perform.

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:

According to the manufacturer's declaration of product application, the RF Function and FW are same as FCC ID: 2AEUPBHASC051. Therefore the test data could leverage as FCC ID: 2AEUPBHASC052.

Reviewed by: Ben Tseng Report Producer: Debby Hung



1 General Description

1.1 Information

1.1.1 **RF General Information**

Specification Items	Description			
Product Type	WLAN (1TX, 1RX)			
Radio Type	Intentional Transceiver			
Power Type	From Battery / Transformer			
Modulation	IEEE 802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11n: see the below table			
Data Rate (Mbps)	IEEE 802.11a: OFDM (6/9/12/18/24/36/48/54) IEEE 802.11n: see the below table			
Channel Bandwidth	20/40 MHz operating channel bandwidth			
Operating Mode	Master			
	Client with radar detection			
	Client without radar detection			
Communication Mode	IP Based (Load Based)			
TPC Function	U With TPC Without TPC			
Weather Band (5600~5650MHz)	☑ With 5600~5650MHz □ Without 5600~5650MHz			
Software / Firmware Version	vare / Firmware Version 6.53.15			
Note: TPC is not required since the maximum EIRP is less than 500mW (27dBm).				

	Type of EUT					
\boxtimes	Stand-alone					
	Combined (EUT where the radio part is fully integrated within another device)					
	Combined Equipment - Brand Name / Model No.:					
	Plug-in radio (EUT intended for a variety of host systems)					
	Host System - Brand Name / Model No.:					
	Other:					



Antenna & Bandwidth

Antenna	One (TX)		
Band width Mode	20 MHz	80 MHz	
IEEE 802.11a	V	Х	Х
IEEE 802.11n	V	V	Х

IEEE 11n Spec.

Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS			
802.11n (HT20)	1	MCS 0-7			
802.11n (HT40)	1	MCS 0-7			
Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT support HT20 and HT40. Note 2: HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. Note 3: Modulation modes consist of below configuration: 11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n.					



1.1.2 Antenna Information

An	t. Po	Port	Brand	Model Name	Antenna Type	Connector
1		1	-	Orion Wifi Antenna	PIFA Antenna	Fixed on board

5G			
Frequency (MHz)	Gain (dBi)		
5250	2.85		
5350	2.96		
5470	3.08		
5600	3.26		
5725	2.96		

For 5 GHz function:

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

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

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.

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

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	52	5260 MHz	60	5300 MHz
5250~5350 MHz U-NII-2A	54	5270 MHz	62	5310 MHz
•••••	56	5280 MHz	64	5320 MHz
	100	5500 MHz	120	5600 MHz
	102	5510 MHz	124	5620 MHz
	104	5520 MHz	126	5630 MHz
5470~5725 MHz	108	5540 MHz	128	5640 MHz
U-NII-2C	110	5550 MHz	132	5660 MHz
	112	5560 MHz	134	5670 MHz
	116	5580 MHz	136	5680 MHz
	118	5590 MHz	140	5700 MHz



1.2 Testing Applied Standards

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

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

- The following reference test guidance is not within the scope of accreditation of TAF:
- KDB 905462 D03 Client Without DFS New Rules v01r02

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory						
🛛 Hsinhua	Hsinhua ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)					
(TAF: 3785)	TAF: 3785) TEL: 886-3-327-3456 FAX: 886-3-327-0973					
	Test site Design	ation No. TW378	5 with FCC.			
Test Condition Test Site No. Test Engineer Test Environment Test Date						
DFS DFS01-HY Peng Huang 25.2~25.4°C / 61.2~61.5% 29/Oct/2019						

Laboratory number TAF 3785 is a spin-off from the original Laboratory number TAF 1190.



2 Test Configuration of EUT

2.1 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration			
IEEE Std. Test Channel Freq. (MHz)			
802.11n (HT40)	5510 MHz		

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests			
Tests Item Dynamic Frequency Selection (DFS)			
Test Condition	Conducted measurement at transmit chains 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.		
Modulation Mode	802.11n (HT40)		

2.3 Accessories

	Accessories					
Indoor Adapter	Brand Name	DEE VAN ENTERPRISE	Model Name	DSA-15CAB-05 050250		
	Power Rating	I/P: <u>100</u> - <u>240</u> Vac, <u>0.5</u>	_A, O/P: <u>5</u> V	dc, <u>2.5 A</u>		
	Brand Name	ring	Model Name	DSA-15PFL-05 FUS 050250		
	Power Rating	I/P: 100-240V ~ 0.5A M	AX 50-60Hz; 0	D/P: 5V 2.5A		
Outdoor Adapter	DC Power Cord	2.45 meter, non-shielde	d cable, w/o fe	errite core		
	AC Power Cord	4.53 meter, non-shielde	d cable, w/o fe	errite core		
PoE	Brand Name	Phihong	Model Name	POE15M		
Adapter 1	Power Rating	I/P: 100 - 240Vac, 0.8 A, O/P: 56 Vdc, 0.275 A				
	Brand Name	ONV	Model Name	PSE3010DCG		
PoE Adapter 2	Power Rating	I/P: 100 - 240Vac, 0.8 A	, O/P: 5 Vdc, 2	2.5A		
Adaptar 0	Brand Name	ZTE	Model Name	RJ-AS120150U104-B		
Adapter 2	Power Rating	I/P: 100 - 240Vac,1 A, O/P:12Vdc,1.5A				
USB Cable	Power Rating	2.45 meter, non-shielded cable, w/o ferrite core				
6ft Ethernet Cable	Power Rating	1.8 meter, non-shielded cable, w/o ferrite core				

Reminder: Regarding to more detail and other information, please refer to user manual.



2.4 Support Equipment

	Support Equipment						
No. Equipment Brand Name Model Name							
1	AP (Master)	EDIMAX	EW-7979WAC				
2	NoteBook	DELL	Latitude E5550				
3	Adapter for NB	DELL	FA90PSO-00				
4	NoteBook	DELL	Latitude E5540				
5	Adapter for NB	DELL	FA90PSO-00				



Dynamic Frequency Selection (DFS) Test Result 3

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 662911.



3.1.2 Applicability of DFS Requirements Prior to Use of a Channel

	DFS Operational mode				
Requirement	Master	Client without radar detection	Client with radar detection		
Non-Occupancy Period	Yes	Not required (See the note)	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		

Note :

According to KDB 905462 D03 Client Without DFS New Rules v01r02 (b) 6."An analyzer plot that contains a single 30-minute sweep on the original channel "

3.1.3 Applicability of DFS Requirements during Normal Operation

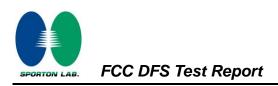
	DFS Operational mode				
Requirement	Master	Client without radar detection	Client with radar detection		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Closing Transmission Time	Yes	Yes	Yes		
Channel Move Time	Yes	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection			
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required			
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link			
All other tests	Any single BW mode	Not required			
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.					



3.1.4 Channel Loading/Data Streaming

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



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	$\left[(1), (19 \times 10^6) \right]$	60%	15	
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI	$Roundup\left\{ \left(\frac{1}{360}\right) \times \left(\frac{19 \times 10^{6}}{PRI}\right) \right\}$	60%	15	
2	1-5	150-230	23-29	60%	30	
3	6-10	200-500	16-18	60%	30	
4	11-20	200-500	00-500 12-16		30	
Aggrega	ate (Radar Type	80%	120			
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and						

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

Rad Typ	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	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.

: 01



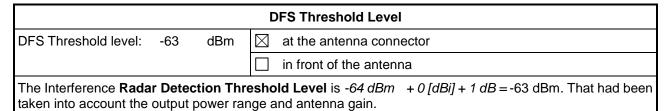
- If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and 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

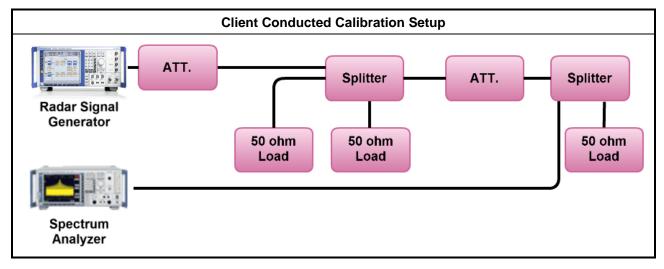
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

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



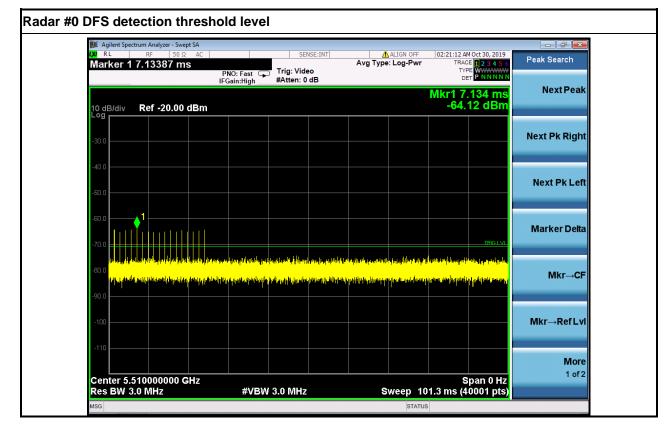
3.2.5 Calibration Setup



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3.2.6 Radar Waveform calibration Plot

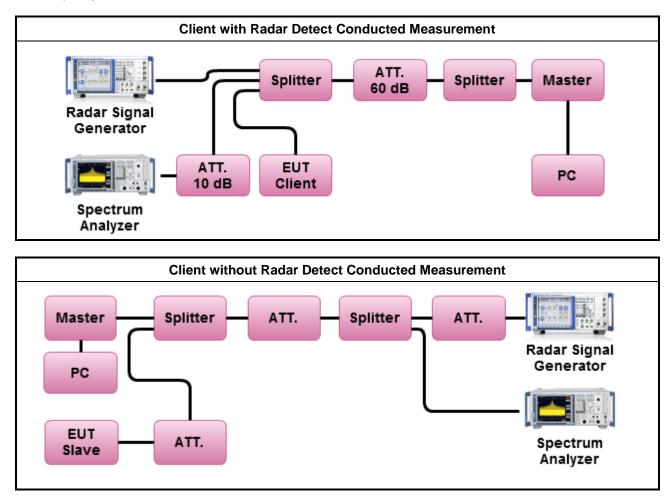






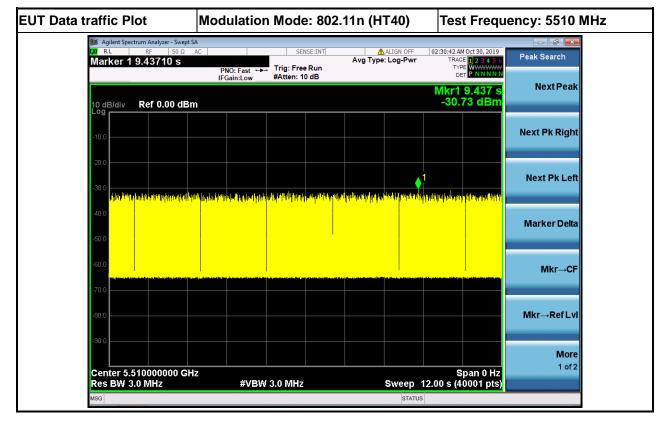
3.2.7 Test Setup

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.

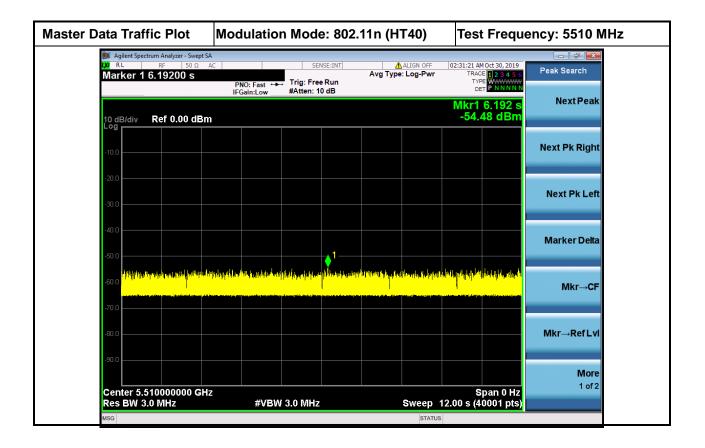




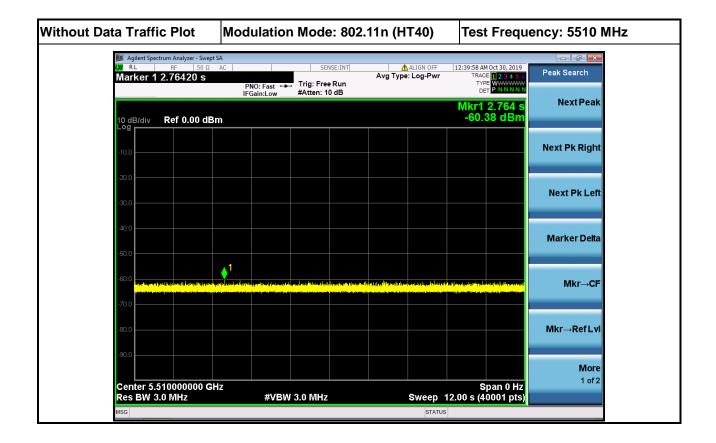
3.2.8 Data traffic Plot













3.3 In-service Monitoring

3.3.1 In-service Monitoring Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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



3.3.4 Test Result of In-service Monitoring

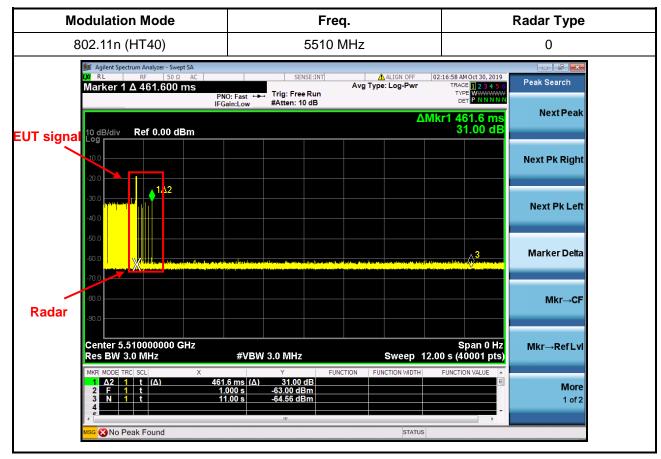
Modulation Mode: 802.11n (HT40)

Devemator	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5510 MHz	-	
Channel Move Time (sec.)	0.4616	< 10s	
Channel Closing Transmission Time (ms) (Note)	2.400	< 60ms	
Non-Occupancy Period (min.)	≧30	≧ 30 min	

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



3.3.5 Test Plot of In-Service Monitoring for Channel Move Time





3.3.6 Test Plot of In-Service Monitoring for Channel Closing Transmission Time

Modulation Mode	Freq.	Radar Type		
802.11n (HT40)	5510 MHz	0		
Channel Closing Transmission Time Time plus 60ms additional intermitte	Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Cha Time plus 60ms additional intermittent control signals			
Zoom		Z1[s] NaNs Z2[s] NaNs Z2[s] NaNs Zoom TX 2.4ms Zoom TX 2.4ms Zoom TX Sample 8 DC-Zoom 0.0024		



3.3.7 Test Plot of In-Service Monitoring for Non-Occupancy Period

Modulation Mode	Freq.					
802.11n (HT40)	5510 MHz					
Non-associated test						

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

t RL RF 50Ω AC Marker 3 1.83880 ks		SENSE:INT	ALIGN OFF	02:06:52 AM Oct 30, 2019 TRACE 1 2 3 4 5 6	Marker
	PNO: Fast ++ IFGain:Low	 Trig: Free Run #Atten: 10 dB 		TRACE 123456 TYPE WWWWWW DET PNNNNN	Select Marker
10 dB/div Ref 0.00 dBm				Mkr3 1.839 ks -61.99 dBm	Select Marker
10 dB/div Ref 0.00 dBm					
-10.0					Normal
-20.0 -X2					
-30.0 4					
					Delta
-40.0					
-50.0				_3	
					Fixed⊳
-70.0					
-80.0					Off
-90.0					
Center 5.510000000 GHz Res BW 3.0 MHz	#VBW	3.0 MHz	Sweep 2	Span 0 Hz .000 ks (40001 pts)	Properties►
MKR MODE TRC SCL X			CTION FUNCTION WIDTH	FUNCTION VALUE	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10.00 s (Δ) 38.80 s	-42.95 dB -19.11 dBm			More
3 N 1 t 4	1.839 ks	-61.99 dBm			1 of 2



4 Test Equipment and Calibration Data

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	Keysight	N9010A	MY55150165	9kHz~7GHz	15/Nov/2018	14/Nov/2019
Vector Signal Generator	Keysight	N5182B	MY53051912	9kHz ~ 6GHz	04/Dec/2017	03/Dec/2018
RF cable 0.5m	MTJ Cooperation	000000-MT26A- 50	D5105	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019
RF cable 0.5m	MTJ Cooperation	000000-MT26A- 50	D5106	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019
RF cable 0.2m	MTJ Cooperation	000000-MT26A- 20	D5102	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019
RF cable 0.2m	MTJ Cooperation	000000-MT26A- 20	D5101	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019
RF cable 2m	MTJ Cooperation	000000-MT18A- 200	D5100	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019

NCR: No Calibration Required.



5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%