



# DYNAMIC FREQUENCY SELECTION

## DFS Test Report

**APPLICANT** : Zebra Technologies Corporation  
**EQUIPMENT** : Touch computer  
**BRAND NAME** : Zebra  
**MODEL NAME** : TC700K  
**FCC ID** : UZ7TC700K  
**STANDARD** : FCC Part 15 Subpart E  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

This is a variant report which is only valid together with the original test report. The product was received on Aug. 12, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL INC.**  
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



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### APPENDIX A. PRODUCT EQUALITY DECLARATION.

### APPENDIX B. ORIGINAL REPORT



## REVISION HISTORY



## 1 General Description

### 1.1 Applicant

**Zebra Technologies Corporation**  
1 Zebra Plaza Holtsville, NY 11742

### 1.2 Manufacturer

**Wistron Corporation**  
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

### 1.3 Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	Touch computer
<b>Brand Name</b>	Zebra
<b>Model Name</b>	TC700K
<b>FCC ID</b>	UZ7TC700K
<b>EUT supports Radios application</b>	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
<b>HW Version</b>	DV
<b>SW Version</b>	Android version 6.0.1
<b>FW Version</b>	91-12.04.4-MG-00
<b>MFD</b>	08NOV16
<b>EUT Stage</b>	Engineering sample

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



## 1.4 Re-use of Measured Data

### 1.4.1 Introduction Section

The part 15E test data for 5GHz WLAN (equipment class: NII) of FCC ID: UZ7TC700K (model: TC700K) is referenced from FCC ID: UZ7TC75EK (model: TC75EK).

The applicant takes full responsibility that the test data as referenced in section 1.4.4 below represent compliance for FCC ID: UZ7TC700K (model: TC700K).

### 1.4.2 Difference Section

FCC ID: UZ7TC700K is a variant version of FCC ID: UZ7TC75EK by changing hardware in UZ7TC700K.

Detailed information is available in the appendix A - Product Equality Declaration.

### 1.4.3 Spot Check Verification Data Section

The WLAN circuitry of this variant FCC ID: UZ7TC700K (model: TC700K) is identical to that of the parent product FCC ID: UZ7TC75EK (model: TC75EK), based on the product equality declaration by the manufacturer.

### 1.4.4 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
NII	UZ7TC75EK	Part15E (FZ672834)	All sections applicable

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



## Appendix A. Product Equality Declaration

1. CPU change, pin to pin capability see attached power point
2. Remove below components
  - (1) WWAN Multi-band PA
  - (2) LTE B2/4/5/12/13/17/25/26 TRX components
  - (3) WCDMA B1/2/4/5/8 TRX components
  - (4) GSM 850/900/1800/1900 TRX components
  - (5) CDMA BC0/1/10 TRX components
  - (6) WWAN Primary Antenna switch
  - (7) Antenna tuner
  - (8) DC/DC converter for WWAN PA
  - (9) GPS RX components
  - (10) WWAN Diversity Antenna switch
  - (11) LTE B2/4/5/12/13/17/25/26 DRX components
  - (12) WCDMA B1/2/4/5/8 DRX components
  - (13) CDMA BC0/1/10 DRX components
  - (14) RF Transceiver components
3. Remove WAN/GPS components (bottom of device).
4. Keep DIV/GPS/ Main antenna (top of device).
5. No layout change.



## Appendix B. Original Report

Please refer to Sporton report number FZ672834 as below.



# DYNAMIC FREQUENCY SELECTION

## DFS Test Report

**APPLICANT** : Zebra Technologies Corporation  
**EQUIPMENT** : Touch computer  
**BRAND NAME** : Zebra  
**MODEL NAME** : TC75EK  
**FCC ID** : UZ7TC75EK  
**STANDARD** : FCC Part 15 Subpart E  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Jul. 28, 2016 and completely tested on Sep. 05, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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# REVISION HISTORY



## SUMMARY OF DYNAMIC FREQUENCY SELECTION TEST

UNII	Bandwidth and Channel	Description	Measured	Limit	Result
UNII Band 2-C 5470-5725MHz	80MHz/5530MHz	Channel Move Time	0.152 sec	10 sec	Pass
		Channel Closing Transmission time	<200ms + 0 ms (aggregate)	200 ms + aggregate of 60 ms over remaining 10 s period	Pass
		Non-Occupancy Period and Client Beacon Test	No transmission or Beacons occurred	30 minutes	Pass

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



## 1 General Description

### 1.1 Applicant

**Zebra Technologies Corporation**  
1 Zebra Plaza Holtsville, NY 11742

### 1.2 Manufacturer

**Wistron Corporation**  
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

### 1.3 Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	Touch computer
<b>Brand Name</b>	Zebra
<b>Model Name</b>	TC75EK
<b>FCC ID</b>	UZ7TC75EK
<b>EUT supports Radios application</b>	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
<b>HW Version</b>	DV
<b>SW Version</b>	Android version 6.0.1
<b>FW Version</b>	91-10-01-MG-00
<b>MFD</b>	14JUL16
<b>EUT Stage</b>	Engineering sample

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Specification of Accessories				
<b>AC Adapter</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	PWR-BUA5V16W0WW
<b>Snap-On USB/Charge Cable</b>	<b>Brand Name</b>	Symbol	<b>Part Number</b>	CBL-TC7X-USB1-01
<b>Snap-On Charging Cable Cup</b>	<b>Brand Name</b>	Symbol	<b>Part Number</b>	CHG-TC7X-CBL1-01
<b>Battery</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	BT-000318-01
<b>Earphone 1</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	HDST-35MM-PTVP-01
<b>Earphone 2</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	HS2100-OTH
<b>Earphone 3</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	HS3100-OTH
<b>Snap-on 3.5MM Audio Nugget</b>	<b>Brand Name</b>	Symbol	<b>Part Number</b>	ADP-TC7X-AUD35-01
<b>3.5mm Jack 43"(1.1m) Standard Cable</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	CBL-HS2100-3MS1-01
<b>Soft Holster</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	SG-TC7X-HLSTR1-01
<b>Rigid Holster</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	SG-TC7X-RHLSTR1-01
<b>Power Cord</b>	<b>Brand Name</b>	LOROM	<b>Part Number</b>	50-16000-182R
<b>Cable line</b>	<b>Brand Name</b>	Zebra	<b>Part Number</b>	CBL-DC-383A1-01



## 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
<b>DFS Function</b>	Client without radar detection function
<b>Tx/Rx Channel Frequency Range</b>	5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
<b>EUT support WLAN function</b>	<5260 MHz ~ 5320 MHz> 802.11a 802.11n HT20 802.11n HT40 802.11ac VHT20 802.11ac VHT40 802.11ac VHT80 <5500 MHz ~ 5720 MHz > 802.11a 802.11n HT20 802.11n HT40 802.11ac VHT20 802.11ac VHT40 802.11ac VHT80
<b>Type of Modulation</b>	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

## 1.5 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC.
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Distric, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978
<b>Test Site No.</b>	<b>Sporton Site No.</b> DFS02-HY



## 1.6 Applied Standards

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

- FCC Part 15 Subpart E
- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
- FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 1.7 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	HW / FW Version	Power Cord
1.	WLAN AP	MOTO	AP-7532G	UZ7AP-7532	FW: 5.8.0.0-050R	Unshielded, 1.8 m
2.	Notebook	Lenovo	Edge E335	PPD-AR5B95	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



## 2 Requirements and Parameters for DFS Test

### 2.1 Applicability of DFS Requirements

EUT is client and operates as client without radar detection function.

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

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

**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<b>DFS Detection Threshold</b>	Yes	Not required	Yes
<b>Channel Closing Transmission Time</b>	Yes	Yes	Yes
<b>Channel Move Time</b>	Yes	Yes	Yes
<b>U-NII Detection Bandwidth</b>	Yes	Not required	Yes
<b>Client Beacon Test</b>	N/A	Yes	Yes



Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
<b>U-NII Detection Bandwidth and Statistical Performance Check</b>	All BW modes must be tested	Not required
<b>Channel Move Time and Channel Closing Transmission Time</b>	Test using widest BW mode available	Test using the widest BW mode available for the link
<b>All other tests</b>	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.



## 2.2 Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.

The radar *Detection Threshold*, lowest antenna gain is the parameter of Interference *radar DFS detection threshold*, The Interference *Detection Threshold* is the (-62dBm) + (0) [dBi] + 1 dB = -61 dBm.



## 2.3 DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the 99% power bandwidth See Note 3.

**Note 1:** The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

**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.



## 2.4 Short Pulse Radar Test Waveforms

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	Roundup $\left\lceil \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\rceil$	60%	30
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

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  $\mu$  sec, with a minimum increment of 1  $\mu$  sec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. 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.

The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

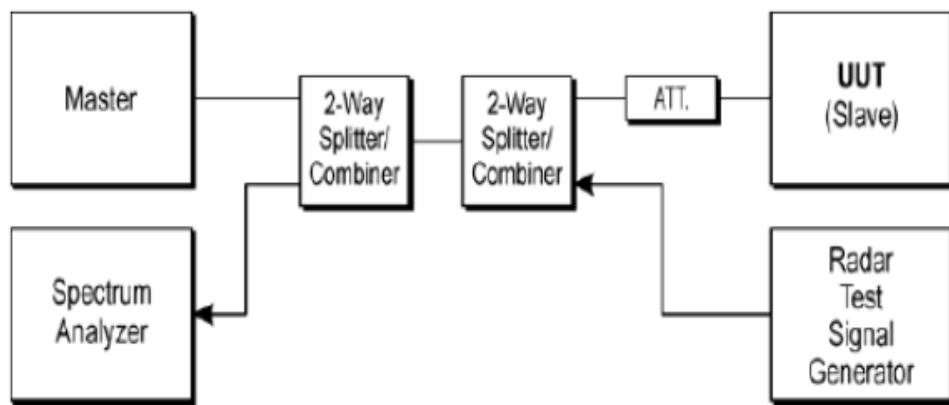
### 3 Calibration Setup and DFS Test Results

#### 3.1 Calibration of Radar Waveform

##### 3.1.1 Radar Waveform Calibration Procedure

The Interference Radar Detection Threshold Level is  $(-62\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -61\text{dBm}$  that had been taken into account the output power range and antenna gain. The following equipment setup was used to calibrate the radiated Radar Waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz to measure the type 0 radar waveform. The spectrum analyzer had offset -3.7dB to compensate receiving horn antenna gain 11.6dBi and RF cable loss 7.9 dB. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $(-62\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -61 \text{ dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

##### 3.1.2 Conducted Calibration Setup

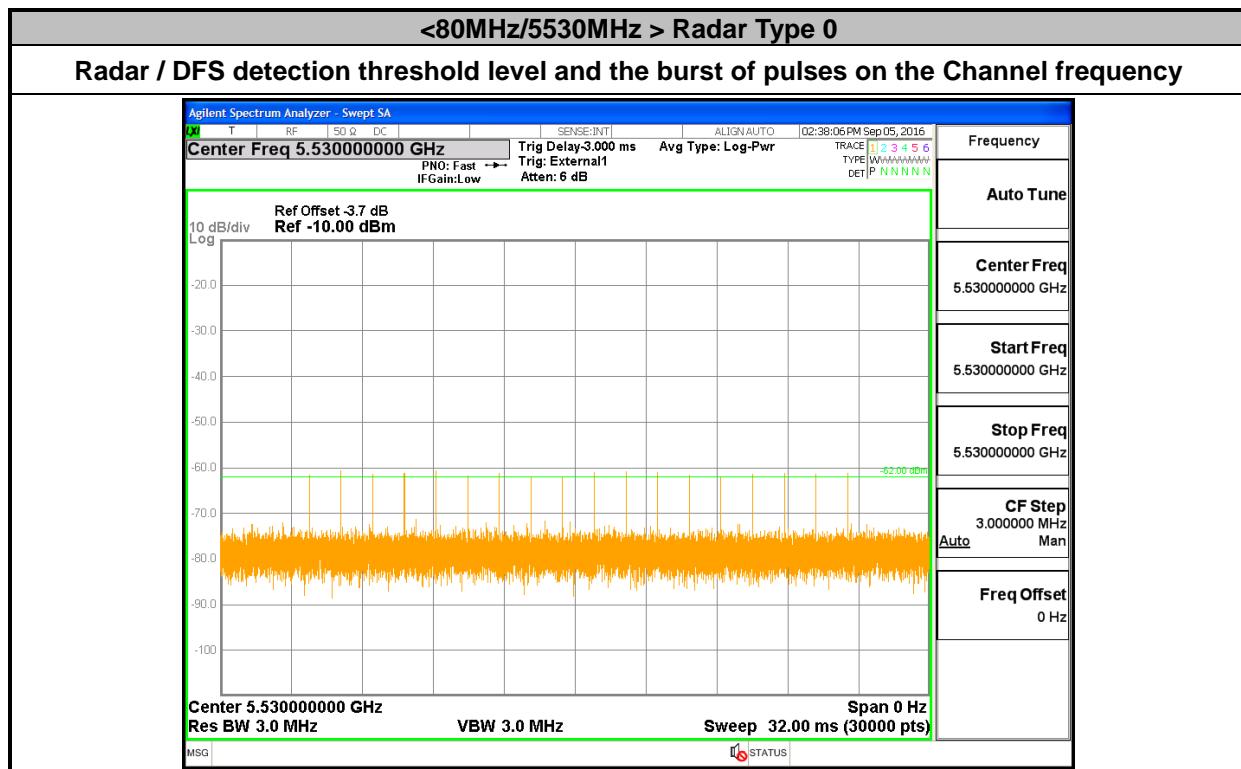


##### 3.1.3 Calibration Deviation

There is no deviation with the original standard.



### 3.1.4 Radar Waveform Calibration Result





## 3.2 In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

### 3.2.1 Limit of In-Service Monitoring

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of *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.

Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel. The non-associated Client Beacon Test is during the 30 minutes observation time. The EUT should not make any transmissions in the DFS band after EUT power up.

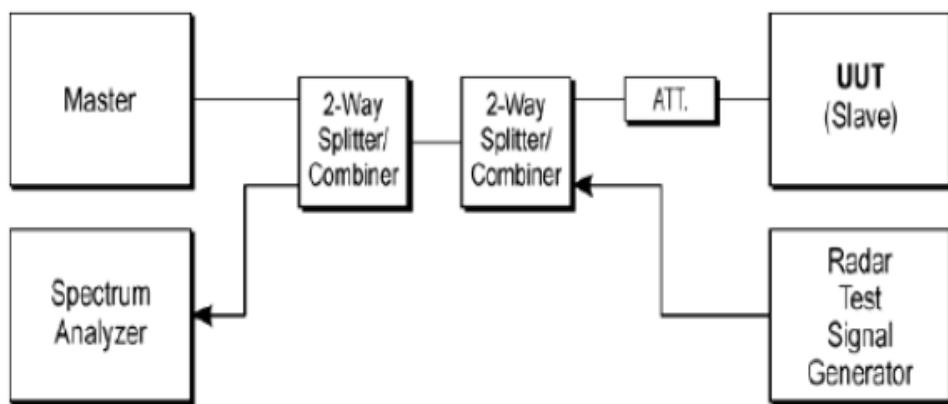
### 3.2.2 Test Procedures

1. The radar pulse generator is setup to provide a pulse at frequency that the Master and Client are operating. A type 0 radar pulse with a 1us pulse width and a 1428 us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at a level of approximately -62dBm at the antenna of the Master device.
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. A U-NII device operating as a Client Device will associate with the Master at Channel. The MPEG file “TestFile.mpg” specified by the FCC is streamed from the “file computer” through the Master to the Client Device and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. At time T0 the Radar Waveform generator sends a Burst of pulse of the radar waveform at Detection Threshold + 1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). One 12 seconds plot is reported for the Short Pulse Radar Types 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: **Dwell (0.4ms)= S (12000ms) / B (30000)**; where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: **C (ms)= N X Dwell (0.4 ms)**; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measure the EUT for more than 30 minutes following the channel move time to verify that no transmissions or beacons occur on this Channel.

### 3.2.3 Test Setup

Conducted Test Setup Photo



### 3.2.4 Test Deviation

There is no deviation with the original standard.

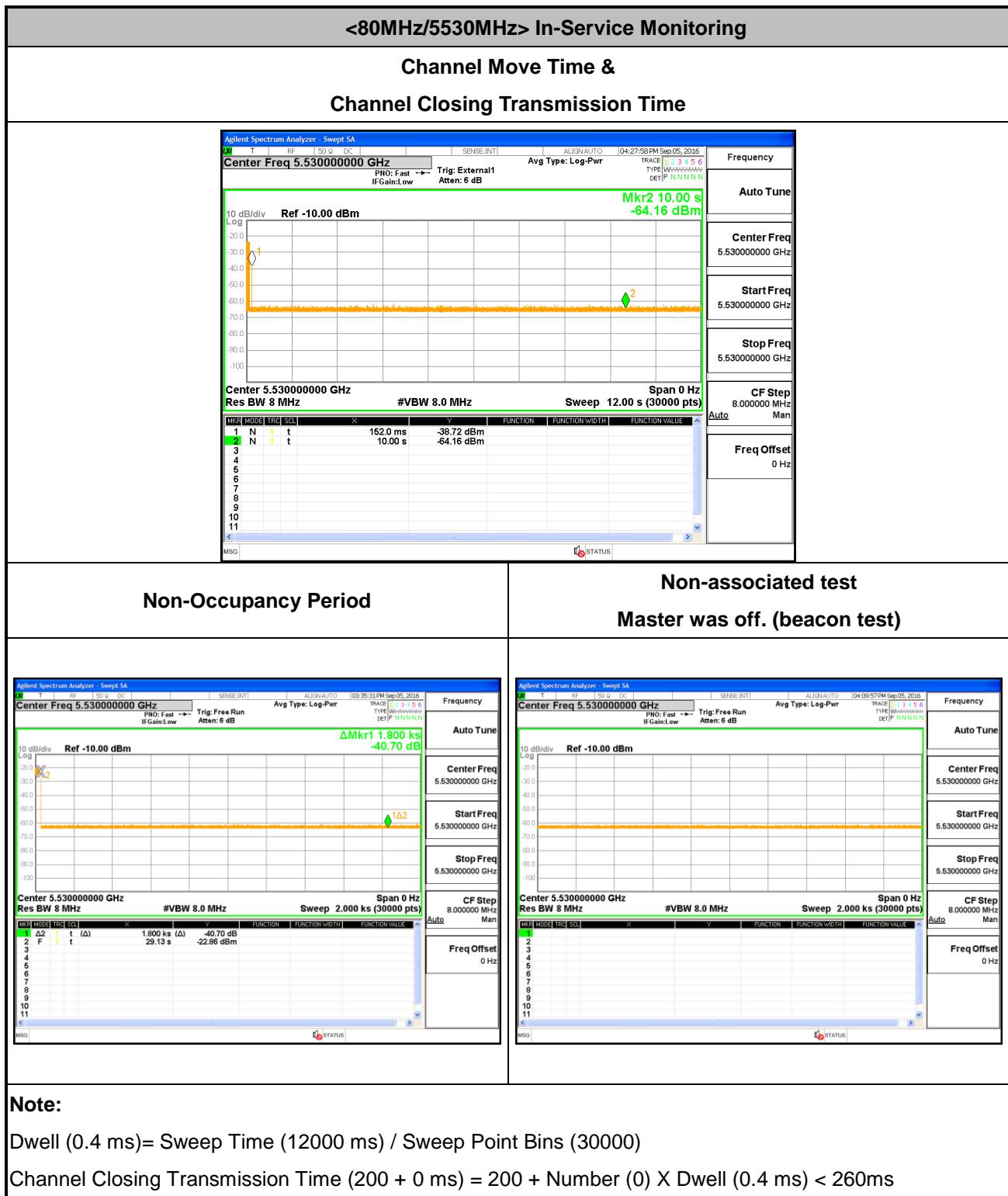


### 3.2.5 Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

<b>Test Mode :</b>	Client without radar detection	<b>Temperature :</b>	27.3°C	
<b>Test Engineer :</b>	Bill Kuo	<b>Relative Humidity :</b>	47%	
BW / Channel	Test Item	Test Result	Limit	Pass/Fail
80MHz/5530MHz	Channel Move Time	0.152 s	< 10s	Pass
	Channel Closing Transmission Time	200ms + 0 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass

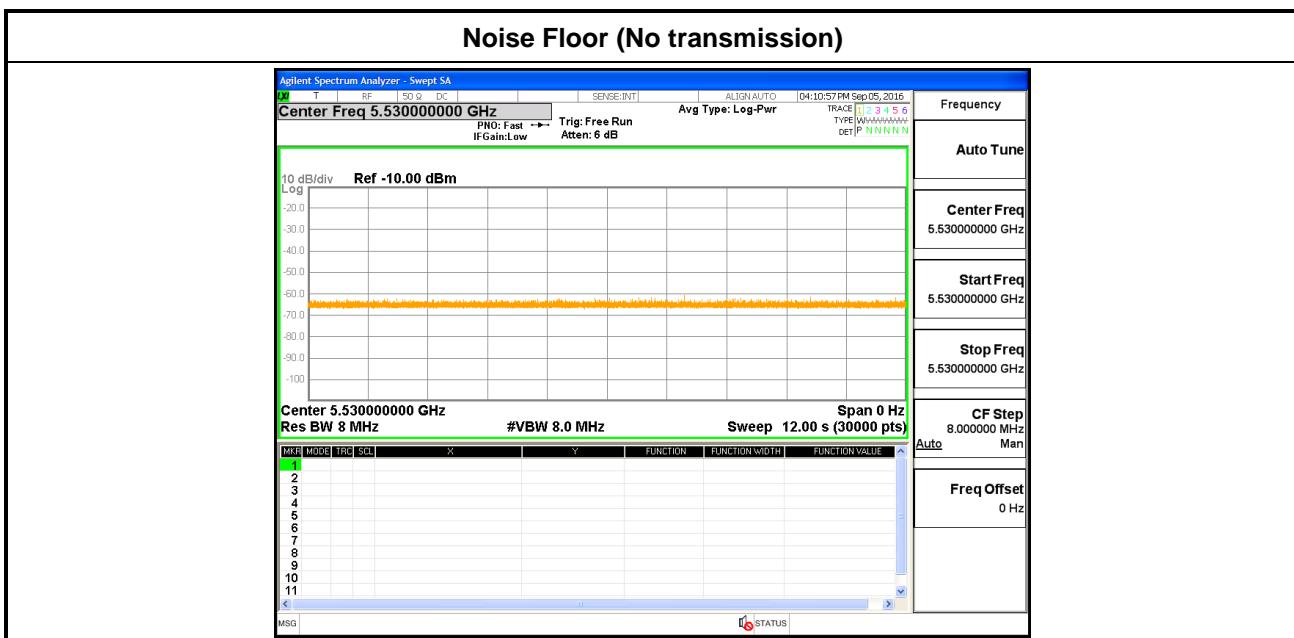
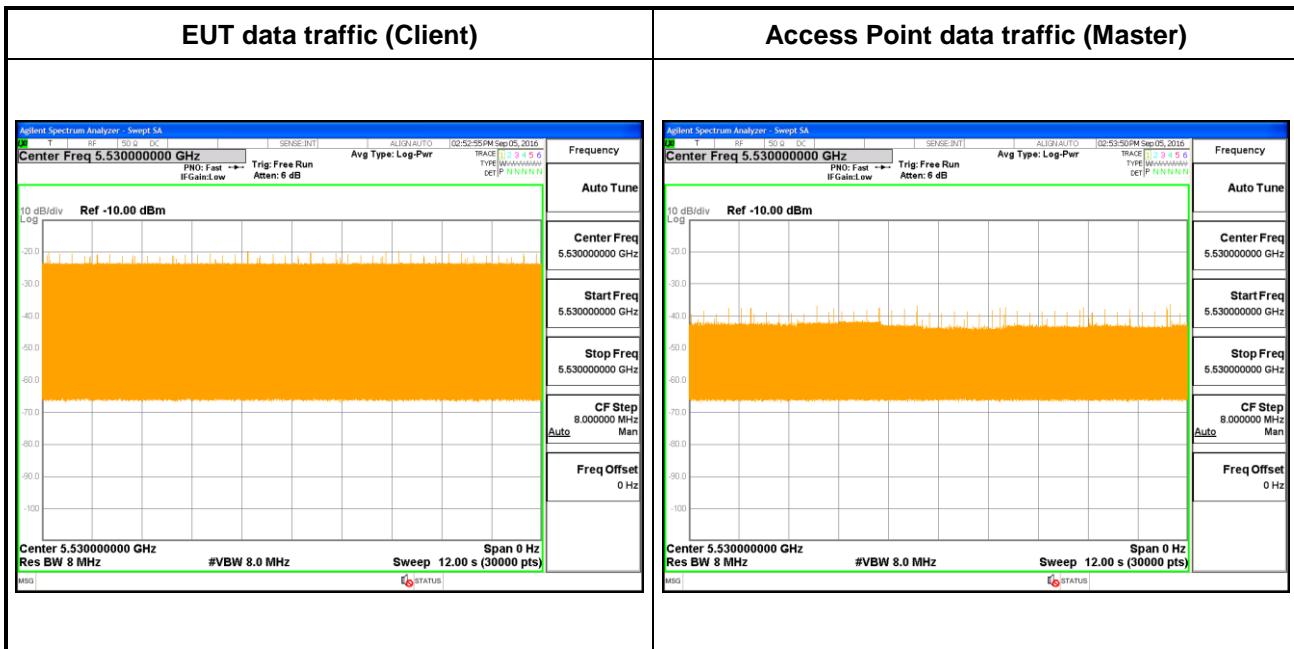
**Note:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The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

### 3.2.6 Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test Plots





### 3.2.7 Data Traffic and Noise Floor Plots





## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 21, 2016	Sep. 05, 2016	Mar. 20, 2017	DFS (DFS02-HY)
Signal Generator	Rohde & Schwarz	SMJ100A	101375	9kHz~6GHz	Feb. 05, 2016	Sep. 05, 2016	Feb. 04, 2017	DFS (DFS02-HY)