DYNAMIC FREQUENCY SELECTION DFS Test Report

APPLICANT : Motorola Mobility, LLC EQUIPMENT : Mobile Cellular Phone BRAND NAME : Motorola Mobility, LLC

MODEL NAME : 4079

FCC ID : IHDT56PK2

STANDARD : FCC Part 15 Subpart E

CLASSIFICATION: (NII) Unlicensed National Information Infrastructure

The product was received on Aug. 26, 2014. 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

Jones Tsai / Manager



No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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Report Issued Date : Sep. 23, 2014

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Report No.: FZ462024-03

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Report Issued Date : Sep. 23, 2014

Report No. : FZ462024-03

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FZ462024-03	Rev. 01	The Bluetooth and WLAN circuitry of this variant model (4079) is identical to that of the parent product (3584), based on the product equality declaration by the manufacturer	Sep. 23, 2014

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Report Issued Date : Sep. 23, 2014

Report No. : FZ462024-03

: Rev. 01 Report Version

1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Cellular Phone			
Brand Name	Motorola I	Mobility, LLC		
Model Name	4079			
FCC ID	IHDT56PI	< 2		
EUT supports Radios application	2.4GHz 5GHz	PRS/WCDMA/HSPA/LTE/NFC WLAN 11b/g/n HT20 WLAN 11ac VHT20 WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 v3.0 EDR v4.0 - LE		
HW Version	P3			
EUT Stage	Identical Prototype			

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

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FCC ID: IHDT56PK2

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard				
DFS Function	Client without radar detection function			
Tx/Rx Channel Frequency Range	5260 MHz ~ 5320 MHz			
TANKA Chaimer I requeitly Kange	5500 MHz ~ 5700 MHz			
	<5260 MHz ~ 5320 MHz>			
	802.11a			
	802.11n HT20			
	802.11n HT40			
	802.11ac VHT20			
	802.11ac VHT40			
EUT support WLAN function	802.11ac VHT80			
EOT Support WEAR function	<5500 MHz ~ 5700 MHz >			
	802.11a			
	802.11n HT20			
	802.11n HT40			
	802.11ac VHT20			
	802.11ac VHT40			
	802.11ac VHT80			
Type of Madulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)			
Type of Modulation	802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)			

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Appendix A. Original Report

Please refer to Sporton report number FZ462024 as below.

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DYNAMIC FREQUENCY SELECTION DFS Test Report

APPLICANT : Motorola Mobility, LLC EQUIPMENT : Mobile Cellular Phone BRAND NAME : Motorola Mobility, LLC

MODEL NAME : 3584

FCC ID : IHDT56PK1

STANDARD : FCC Part 15 Subpart E

CLASSIFICATION: (NII) Unlicensed National Information Infrastructure

The product was received on Jun. 20, 2014 and completely tested on Jul. 06, 2014. 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

Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FZ462024	Rev. 01	Initial issue of report	Aug. 07, 2014

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SUMMARY OF DYNAMIC FREQUENCY SELECTION TEST

UNII	Bandwidth and Channel	Description	Measured	Limit	Result
		Channel Move Time	0.6043 sec	10 sec	Pass
	20MHz (CH60) 5300MHz	Channel Closing Transmission time	<200ms + 1.2 ms (aggregate)	200 ms + aggregate of 60 ms over remaining 10 s period	Pass
UNII Band 2-A		Non-Occupancy Period and Client Beacon Test	No transmission or Beacons occurred	30 minutes	Pass
5250-5350MHz		Channel Move Time	0.6295 sec	10 sec	Pass
	40MHz (CH62) 5310MHz	Channel Closing Transmission time	<200ms + 2.4 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
	20MHz (CH100) 5500MHz	Channel Move Time	0.5395 sec	10 sec	Pass
		Channel Closing Transmission time	<200ms + 1.2 ms (aggregate)	200 ms + aggregate of 60 ms over remaining 10 s period	Pass
UNII Band 2-C		Non-Occupancy Period and Client Beacon Test	No transmission or Beacons occurred	30 minutes	Pass
5470-5725MHz		Channel Move Time	0.5761 sec	10 sec	Pass
	40MHz (CH102) 5510MHz	Channel Closing Transmission time	<200ms + 1.2 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.

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1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Cellular Phone			
Brand Name	Motorola Mobility, LLC			
Model Name	3584			
FCC ID	IHDT56PK1			
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC 2.4GHz WLAN 11b/g/n HT20 WLAN 11ac VHT20 WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 EDR Bluetooth v4.0 - LE			
HW Version	P2			
EUT Stage	Identical Prototype			

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

Accessory List				
Pottoni	Brand Name: Motorola			
Battery	Model Name: EQ40			

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1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard				
DFS Function	Client without radar detection function			
Tx/Rx Channel Frequency Range	5260 MHz ~ 5320 MHz			
TX/KX Chamler Frequency Kange	5500 MHz ~ 5700 MHz			
	<5260 MHz ~ 5320 MHz>			
	802.11a			
	802.11n HT20			
	802.11n HT40			
	802.11ac VHT20			
	802.11ac VHT40			
FLIT our part WI AN function	802.11ac VHT80			
EUT support WLAN function	<5500 MHz ~ 5700 MHz >			
	802.11a			
	802.11n HT20			
	802.11n HT40			
	802.11ac VHT20			
	802.11ac VHT40			
	802.11ac VHT80			
Type of Madulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)			
Type of Modulation	802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)			

1.5 Testing Site

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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

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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
- FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules

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	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AN AP Cisco	Air-AP1262N-A-K9	LDK102073	HW: v02	Shielded, 1.8 m
1.	WLAIN AF				FW: 12.4(25d)JA1	Silielueu, 1.6 III
	Notebook Lenovo		Edga F225	PPD-AR5B95		AC I/P:
2.		Longvo				Unshielded, 1.2 m
۷.		Edge E335	FFD-ARSB95	IN/A	DC O/P:	
						Shielded, 1.8 m

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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

	Operational Mode			
Requirement	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	
Uniform Spreading	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode			
Requirement		Client	Client	
	Master	Without Radar	With Radar	
		Detection	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	
Client Beacon Test	N/A	Yes	Yes	

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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.

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2.3 DFS Response requirement values

Parameter	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 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.

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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\{ \left(\frac{1}{360} \right). \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\} $	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 0, 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 0, 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.

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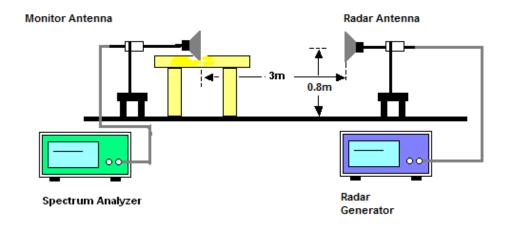
3 Calibration Setup and DFS Test Results

3.1 Calibration of Radar Waveform

3.1.1 Radar Waveform Calibration Procedure

The Interference Radar Detection Threshold Level is (-62dBm) + (0) [dBi]+ 1 dB= -61dBm 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 -4.2 dB to compensate receiving horn antenna gain 12.2 dBi and RF cable loss 8 dB. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-62dBm) + (0) [dBi]+ 1 dB= -61 dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

3.1.2 Radiated Calibration Setup



3.1.3 Calibration Deviation

There is no deviation with the original standard.

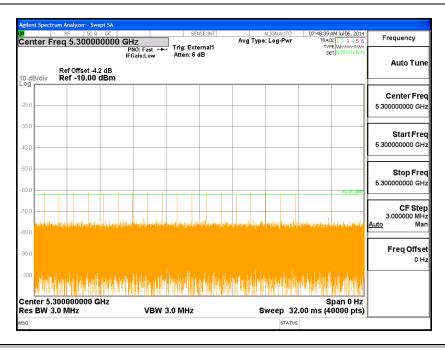
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3.1.4 Radar Waveform Calibration Result

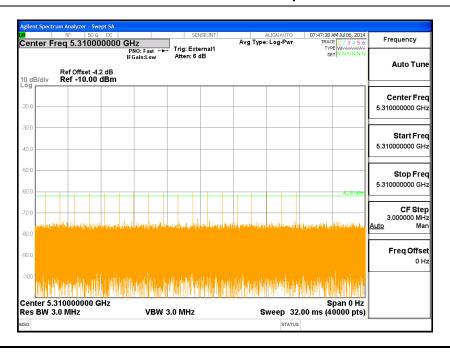
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Radar / DFS detection threshold level and the burst of pulses on the Channel frequency



<40MHz / 5310 MHz> Radar Type 0

Radar / DFS detection threshold level and the burst of pulses on the Channel frequency

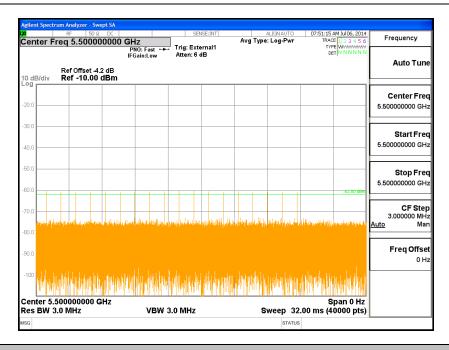


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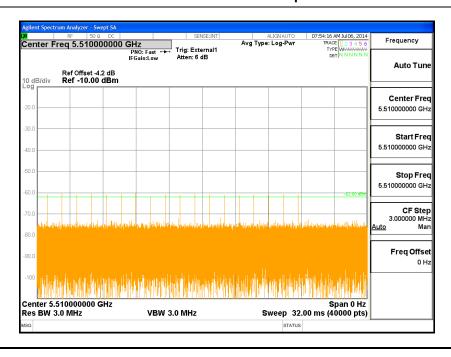
<20MHz / 5500 MHz> Radar Type 0

Radar / DFS detection threshold level and the burst of pulses on the Channel frequency



<40MHz / 5510 MHz> Radar Type 0

Radar / DFS detection threshold level and the burst of pulses on the Channel frequency



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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.

SPORTON INTERNATIONAL INC.

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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 (0.3ms)= S (12000ms) / B (40000)**; 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 (0.3 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 according to KDB848637.

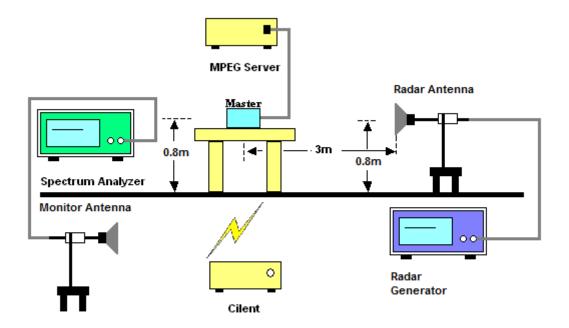
SPORTON INTERNATIONAL INC.

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3.2.3 Test Setup

Radiated Test Setup Photo



3.2.4 Test Deviation

There is no deviation with the original standard.

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

Test Mode :	Client without radar detection	Temperature :	27.3 ℃
Test Engineer :	Bill Kuo	Relative Humidity :	47%

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
	Channel Move Time	0.6043 s	< 10s	Pass
008411- / 5000 8411-	Channel Clasina Transmission Time	200ms +	< 260ms	Door
20MHz / 5300 MHz	Channel Closing Transmission Time	1.2 ms	< 200111S	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass
	Channel Move Time	0.6295 s	< 10s	Pass
400411- / 5040 0411-		200ms +	< 200ma	Pass
40MHz / 5310 MHz	Channel Closing Transmission Time	2.4 ms	< 260ms	
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass
	Channel Move Time	0.5395 s	< 10s	Pass
008411- / 5500 8411-	Channel Chaine Transmission Time	200ms +	< 260ms	Pass
20MHz / 5500 MHz	Channel Closing Transmission Time	1.2 ms	< 200IIIS	
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass
40MHz / 5510 MHz	Channel Move Time	0.5761 s	< 10s	Pass
	Channel Clasing Transmissis: Time	200ms +	< 260ms	Door
	Channel Closing Transmission Time	1.2 ms	< ZOUIIIS	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.

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

<20MHz / 5300 MHz> In-Service Monitoring **Channel Move Time & Channel Closing Transmission Time** Avg Type: Log-Pwr Frequency Auto Tune Mkr1 604.3 ms -46.18 dBm Ref 0.00 dBm Center Free 5.300000000 GH 5.300000000 GH Stop Fred Center 5.300000000 GHz Res BW 8 MHz Span 0 Hz Sweep 12.00 s (40000 pts) #VBW 8.0 MHz Freq Offset 0 Hz Non-associated test **Non-Occupancy Period** Master was off. (beacon test)

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Note:

Dwell (0.3 ms)= Sweep Time (12000 ms) / Sweep Point Bins (40000)

Channel Closing Transmission Time (200 + 1.2 ms) = 200 + Number (4) X Dwell (0.3 ms) < 260ms

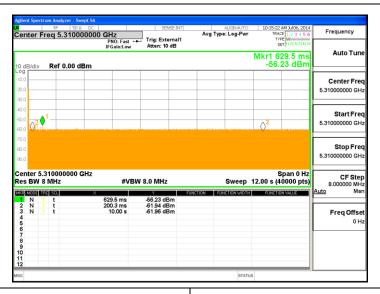
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<40MHz / 5310 MHz> In-Service Monitoring

Channel Move Time &

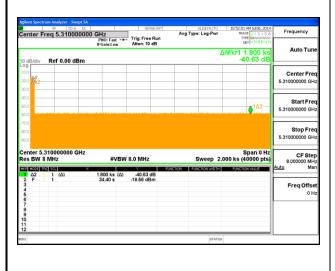
Channel Closing Transmission Time

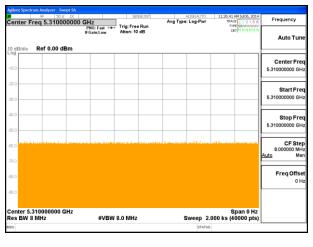


Non-Occupancy Period

Non-associated test Master was off. (beacon test)

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Note:

Dwell (0.3 ms)= Sweep Time (12000 ms) / Sweep Point Bins (40000)

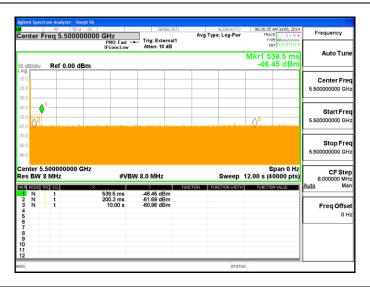
Channel Closing Transmission Time (200 + 2.4 ms) = 200 + Number (8) X Dwell (0.3 ms) < 260ms

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<20MHz / 5500 MHz> In-Service Monitoring

Channel Move Time &

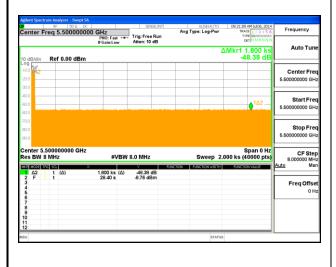
Channel Closing Transmission Time

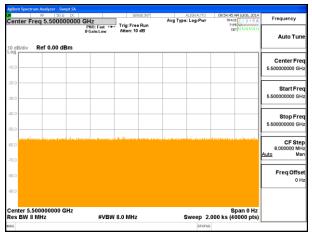


Non-Occupancy Period

Non-associated test Master was off. (beacon test)

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Note:

Dwell (0.3 ms)= Sweep Time (12000 ms) / Sweep Point Bins (40000)

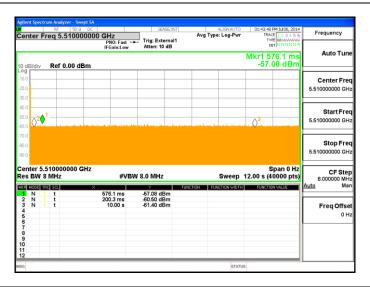
Channel Closing Transmission Time (200 + 1.2 ms) = 200 + Number (4) X Dwell (0.3 ms) < 260ms

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<40MHz / 5510 MHz> In-Service Monitoring

Channel Move Time &

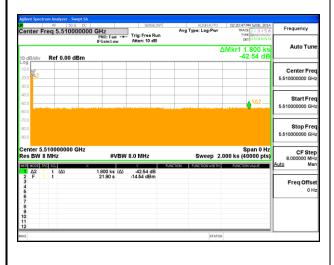
Channel Closing Transmission Time

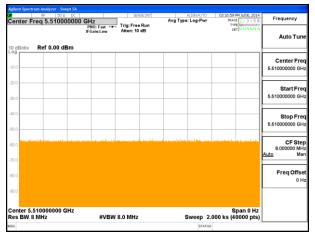


Non-Occupancy Period

Non-associated test Master was off. (beacon test)

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Note:

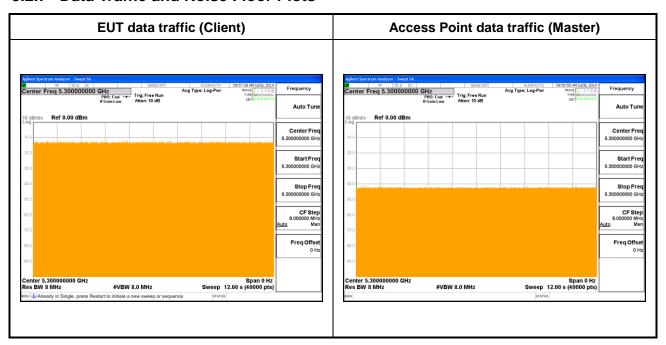
Dwell (0.3 ms)= Sweep Time (12000 ms) / Sweep Point Bins (40000)

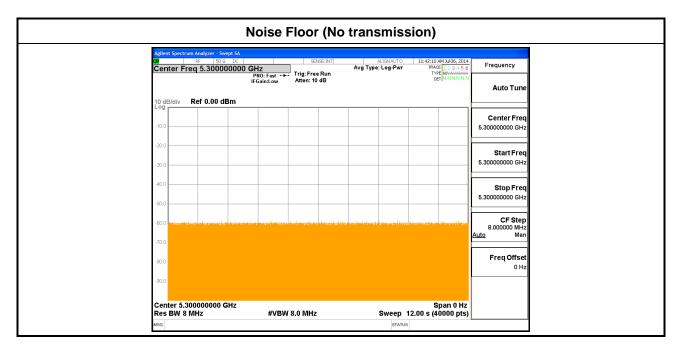
Channel Closing Transmission Time (200 + 1.2 ms) = 200 + Number (4) X Dwell (0.3 ms) < 260ms

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3.2.7 Data Traffic and Noise Floor Plots





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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. 10,2014	Jul. 06, 2014	Mar. 09,2015	DFS (DFS02-HY)
Signal Generator	R&S	SMJ100A	101375	9KHz ~ 6GHz	Feb. 19, 2014	Jul. 06, 2014	Feb. 18, 2015	DFS (DFS02-HY)
Horn Antenna	EMCO	AH-118	071025	1GHz ~ 18GHz	Aug. 02, 2013	Jul. 06, 2014	Aug. 01, 2014	DFS (DFS02-HY)
Horn Antenna	EMCO	AHA-118	701023	1GHz ~ 18GHz	Dec. 13, 2013	Jul. 06, 2014	Dec. 12, 2014	DFS (DFS02-HY)

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