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DFS MEASUREMENT REPORT FCC PART 15.407

FCC ID:	2AEY7-S8A001
APPLICANT:	Bak USA Technologies Corp.
Application Type:	Certification
Product:	Seal
Model No.:	8
FCC Classification:	Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s):	Part 15.407
	KDB 905462 D02v02, KDB 905462 D04v01
Type of Device:	Master Device
	\boxtimes Client Device without radar detection
	Client Device with radar detection
Test Date:	October 22 ~ 28, 2016



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462 D02v02. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.



Revision History

Report No.	Version	Description	Issue Date	Note
1610RSU00901	Rev. 01	Initial report	10-28-2016	Valid



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Applicant:	Bak USA Technologies Corp.	
Applicant Address:	425 Michigan Avenue, Buffalo, New York 14203, USA	
Manufacturer:	Shenzhen Wisky Technology Co., LTD.	
Manufacturer Address:	5th Floor, W2-A Building, Hi-tech Park South 1st Road, Nanshan	
	District, Shenzhen, China	
Test Site:	MRT Technology (Suzhou) Co., Ltd	
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong	
	Economic Development Zone, Suzhou, China	
MRT FCC Registration No.:	809388	
Model No.:	8	
Test Device Serial No.:	N/A Production Pre-Production Engineering	

§2.1033 General Information

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.





1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.





2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Seal
Model No.	8
Radio Type	Intentional Transceiver
Operation Mode	Slave Device
Frequency Range	For 802.11a/n-HT20: 5260~5320MHz, 5500~5700MHz
	For 802.11n-HT40: 5270~5310MHz, 5510~5670MHz
Type of Modulation	802.11a/n: OFDM
Uniform Spreading	For the 5250-5350MHz, 5470-5725 MHz bands, the Master device
	provides, on aggregate, uniform loading of the spectrum across all
	devices by selecting an operating channel among the available
	channels using a random algorithm.



2.2. DFS Band Carrier Frequencies Operation

802.11a/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz

802.11n-HT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	N/A			

2.3. Test Mode

Test Mode	Mode 1: Communication
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3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

3.1. Applicability

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Requirement	Operational Mode		
			Client With Radar
		Radar Detection	Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

 Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel

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

Additional requirements for devices	Master Device or Client	Client Without Radar		
with multiple bandwidth modes	with Radar Detection	Detection		
U-NII Detection Bandwidth and	All BW modes must be	Not required		
Statistical Performance Check	tested			
Channel Move Time and Channel	Test using widest BW	Test using the widest BW		
Closing Transmission Time	mode available	mode available for the link		
Il other tests Any single BW mode Not required				
Note: Frequencies selected for statistical performance check 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 frequen	су.			

Table 3-2: Applicability of DFS Requirements during normal operation



3.2. DFS Devices Requirements

Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are

the requirements for Client Devices:

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing transmission time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.

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

beginning of the Channel Move Time plus any additional intermittent control signals required to

facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second



period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 3-3: DFS Response Requirements

3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value				
	(See Notes 1, 2, and 3)				
EIRP ≥ 200 milliwatt	-64 dBm				
EIRP < 200 milliwatt and	-62 dBm				
power spectral density < 10 dBm/MHz					
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm				
requirement					
Note 1: This is the level at the input of the receiver assuming a 0 dBi r	receive antenna.				
Note 2: Throughout these test procedures an additional 1 dB has been	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	s refer to KDB Publication				
662911 D01.					

Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection



3.4. Parameters of DFS Test Signals

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

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 3-6	$Roundup \begin{cases} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{PRI_{usec}}\right) \end{cases}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
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
Note 1: SI		,	used for the detection ba	80% andwidth test, cha	120 nnel move

Short Pulse Radar Test Waveforms

Table 3-5: Parameters for Short Pulse Radar Waveforms



A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

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

Table 3-6: Pulse Repetition Intervals Values for Test A



Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50 - 100	5 - 20	1000 - 2000	1 - 3	8 - 20	80%	30

Table 3-7: Parameters for Long Pulse Radar Waveforms

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

Frequency Hopping Radar Test Waveform

Rada Type		PRI (µsec)	Pulses Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

Table 3-8: Parameters for Frequency Hopping Radar Waveforms

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

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



3.5. Conducted Test Setup

The FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.

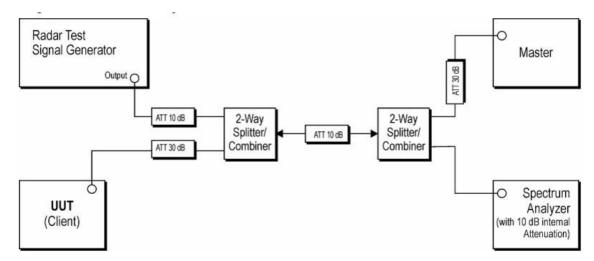


Figure 3-1: Conducted Test Setup where UUT is a Client and Radar Test Waveforms are injected into the Masters

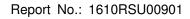


4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2017/05/08
ESG Vector Signal Generator	Agilent	E4438C	MRTSUE06026	1 year	2016/12/08
Temperature/Humidity Meter	Yuhuaze	HTC-2	N/A	1 year	2016/12/20

Software	Version	Manufacturer	Function
Pulse Building	N/A	Agilent	Radar Signal Generation Software
DFS Tool	V 6.9.2	Agilent	DFS Test Software





5. TEST RESULT

5.1. Summary

Product Name:
FCC ID:
FCC Classification:

<u>Seal</u> 2AEY7-S8A001

Unlicensed National Information Infrastructure (UNII)

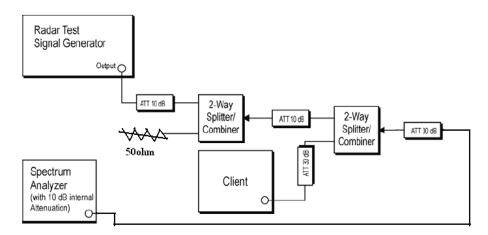
Parameter	Limit	Test Result	Reference
Channel Move Time, Channel Closing			
Transmission Time and Non-Occupancy	Refer Table 3-3	Pass	Section 5.4
Period Measurement			

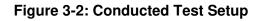


5.2. Radar Waveform Calibration

5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.



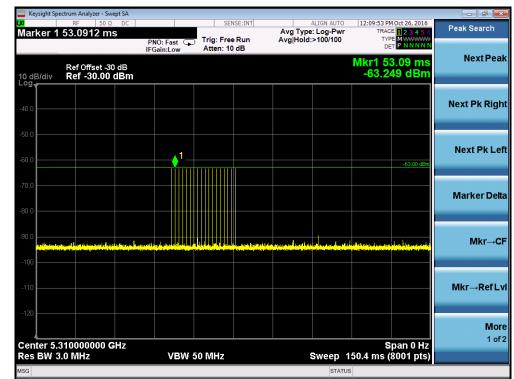


5.2.2. Calibration Procedure

The Interference Radar Detection Threshold Level is (-64dBm) + (0) [dBi] + 1 dB = -63 dBm that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and 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 at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-64dBm) + (0) [dBi] + 1 dB= -63dBm. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

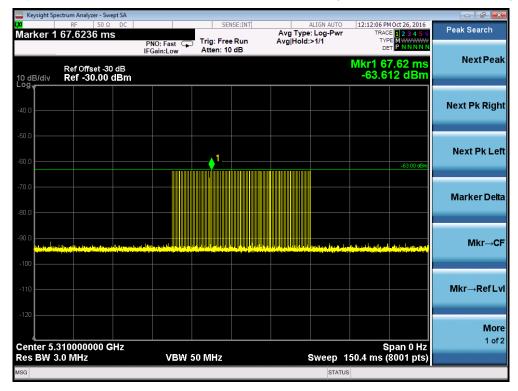


5.2.3. Cablibration Result



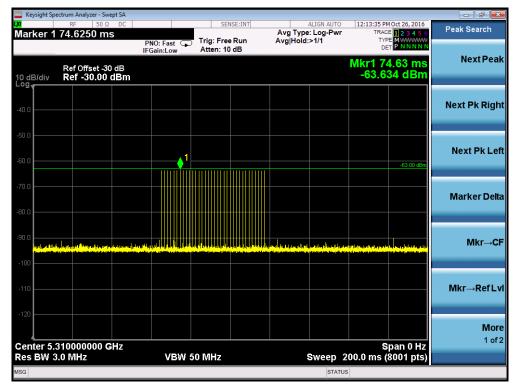
Radar #0 DFS detection threshold level and the burst of pulses on the Channel frequency

Radar #1(Test A) DFS detection threshold level and the burst of pulses on the Channel frequency

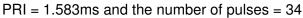


PRI = 578us and the number of pulses = 92

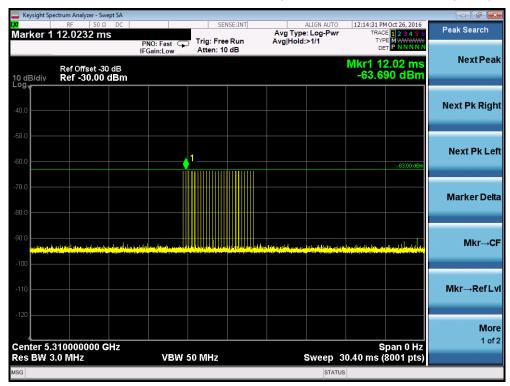




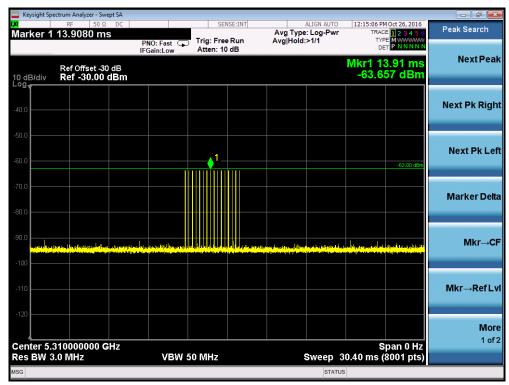
Radar #1(Test B) DFS detection threshold level and the burst of pulses on the Channel frequency



Radar #2 DFS detection threshold level and the burst of pulses on the Channel frequency

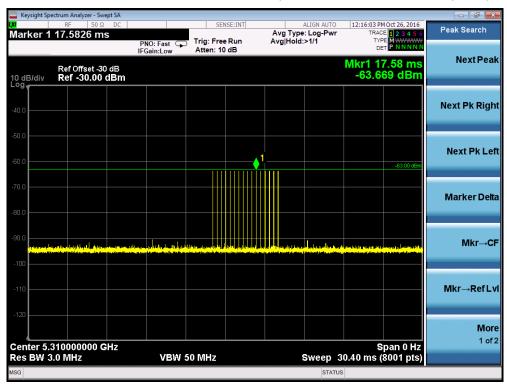




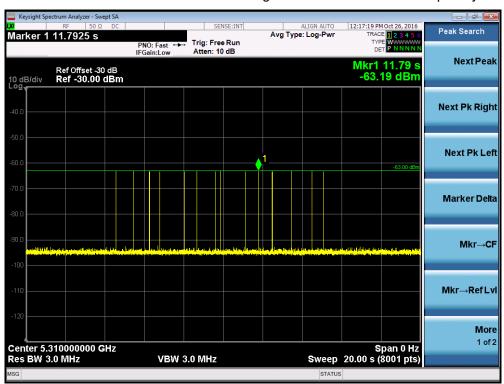


Radar #3 DFS detection threshold level and the burst of pulses on the Channel frequency

Radar #4 DFS detection threshold level and the burst of pulses on the Channel frequency

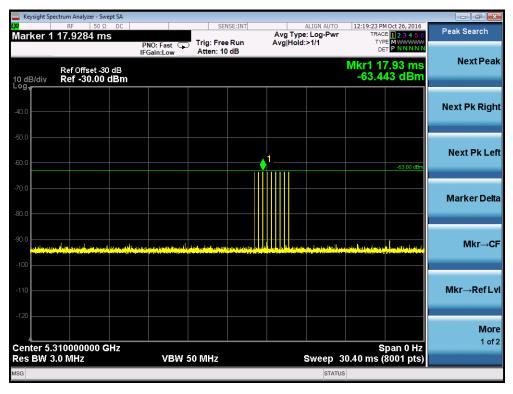






Radar #5 DFS detection threshold level and 12sec long burst on the Channel frequency

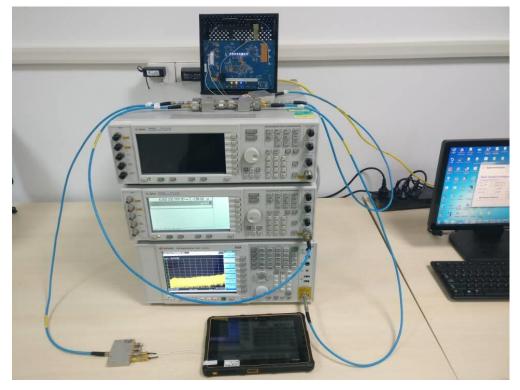
Radar #6 DFS detection threshold level and a single hop (9 pulses) on the Channel frequency within UNII detection bandwidth





5.2.4. Test Setup Photo

Description: Test Setup Photo





5.3. Channel Loading Test Result

System testing was performed with the designated MPEG test file that streams full motion video from the Seal to the Client in full motion video mode using the media player with the V2.61 Codec package. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device

Keysight Spectrum Analyzer - Swept SA			
₩ RF 50 Ω DC Marker 7 Δ 15.6792 ms	Avg Type:	LIGN AUTO 12:53:05 PM Oct 26, 2016 Log-Pwr TRACE 123456	Marker
PNO: Fast IFGain:Low		TYPE WWWWW DET PNNNN	Select Marker
Ref Offset -30 dB 10 dB/div Ref -30.00 dBm		ΔMkr7 15.68 ms -1.67 dB	7
-40.0		*	Normal
			Norma
-70.0			Delta
-80.0			Dena
-100 Constant International Internationa International International Internationa International International Inte	edin severalisti i per ansi erre i Uniter de	steneti <mark>, bla</mark> blanden i i i	
-110			Fixed⊵
Center 5.31000000 GHz		Span 0 Hz	
		weep 100.3 ms (8001 pts)	Off
MKR MODE TRC SCL X 1 Δ2 1 t (Δ) 1.842 ms		TION WIDTH FUNCTION VALUE	
2 F 1 t 30.22 ms	-57.17 dBm		
3 Δ4 1 t (Δ) 1.742 ms 4 F 1 t 32.30 ms	(Δ) -0.83 dB -56.45 dBm		Properties►
5 Δ6 1 t (Δ) 1.316 ms	(Δ) 2.48 dB	E	
6 F 1 t 34.64 ms 7 Δ8 1 t (Δ) 15.68 ms	-59.05 dBm (Δ) -1.67 dB		
8 F 1 t 30.22 ms	-57.17 dBm		More
9			1 of 2
10			1012
•		Þ	
MSG		STATUS	

Channel Loading Plot - 802.11n-HT40 - 5310MHz

Test Mode	Packet ratio	Requirement ratio	Test Result
802.11n-HT40	31.25%	>17%	Pass



5.4. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement

5.4.1. Test Limit

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, 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 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

5.4.2. Test Procedure Used

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.

2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.

2. 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).

3. 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 (1.5ms) = S (12 sec) / B (8000); 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: 40MHz: C (6.00 ms) = N (4) X Dwell (1.5 ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.

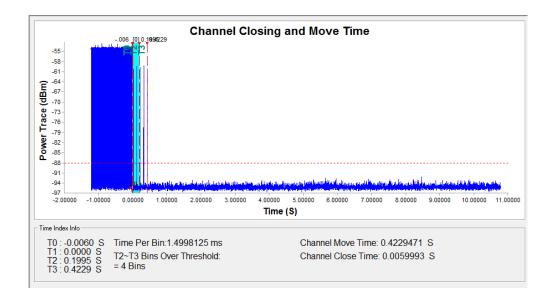
4. Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.



5.4.3. Test Result

Keysight Spectrum Analyzer - Swept SA SENSE:INT ALIGN AUTO 02:16:23 PM Oct 26, 2016 Avg Type: Log-Pwr TRACE 2 3 4 5 6 TYPE WWWWWW DET P NNNN U RL Peak Search Marker 1 1.19850 s PNO: Fast +++ IFGain:Low Trig: Free Run Atten: 10 dB Mkr1 1.199 s -63.23 dBm Next Peak Ref Offset -30 dB Ref -30.00 dBm 10 dB/div Log Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvl More Center 5.310000000 GHz Res BW 3.0 MHz 1 of 2 Span 0 Hz Sweep 12.00 s (8001 pts) VBW 3.0 MHz STATU

Channel Move Time and Channel Closing Transmission Time for 802.11n-HT40 - 5310MHz





Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω DC		SENSE:INT	ALIGN AUTO	03:08:46 PM Oct 26, 2016	
arker 1 Δ 1.80000 ks		Free Run n: 10 dB	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N	Marker Select Marker
Ref Offset -30 dB dB/div Ref -30.00 dBm			4	Mkr1 1.800 ks -40.37 dB	1
0.0					Norma
a.o <mark>#¥{2</mark>					Delt
D.0				-63.00 dBm	
0.0					Fixed
	atika dina tana kaonin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny	an an an Station and an an Antain	a di ban ta daka jaa ta zartar da si tan bara ta di ana ara da	ins nite the difference of th	o
10					Properties
20					Mor
enter 5.310000000 GHz es BW 3.0 MHz	VBW 3.0 MH	lz	Sweep 2	Span 0 Hz 2.000 ks (8001 pts)	1 of

Non-Occupancy Period for 802.11n-HT40 - 5310MHz

Parameter	Test Result	Limit
	Туре 0	
Channel Move Time (s)	0.423s	<10s
Channel Closing Transmission Time (ms)	6 00ma	< 60ma
(Note)	6.00ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 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.



6. CONCLUSION

The data collected relate only the item(s) tested and show that the Seal FCC ID: 2AEY7-S8A001 is

in compliance with Part 15E of the FCC Rules.

The End