

DFS Test Report

Report No.: RF180828C26-2

FCC ID: RYK-WUBT236ACNBT

Test Model: WUBT-236ACN(BT) [M4W]

Series Model: WUBT-236ACN(BT) [PU], WUBT-236ACN(BT) [P4W], WUBT-236ACN(BT) [MU]

Received Date: Aug. 28, 2018

Test Date: Jan. 16 ~ Jan. 17, 2019

Issued Date: Jan. 18, 2019

Applicant: SparkLAN Communications, Inc.

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(R.O.C.)

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TAIWAN (R.O.C.)

FCC Registration / 788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
RF180828C26-2	Original release.	Jan. 18, 2019



1 Certificate of Conformity

Product: 802.11ac/a/b/g/n 2T2R Wi-Fi + Bluetooth 4.2 USB Module

Brand: SparkLAN

Test Model: WUBT-236ACN(BT) [M4W]

Series Model: WUBT-236ACN(BT) [PU], WUBT-236ACN(BT) [P4W], WUBT-236ACN(BT) [MU]

Sample Status: R&D sample

Applicant: SparkLAN Communications, Inc.

Test Date: Jan. 16 ~ Jan. 17, 2019

Standards: FCC Part 15, Subpart E (Section 15.407)

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by: , Date: Jan. 18, 2019

Pettie Chen / Senior Specialist

Approved by : , Date: Jan. 18, 2019

Bruce Chen / Project Engineer



2 EUT Information

2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

Operational Mode	Operating Fre	quency Range
Operational Mode	5250~5350MHz	5470~5725MHz
Client without radar detection and ad hoc function	✓	✓

2.2 EUT Hardware, Software and Firmware Version

Table 2: The EUT Hardware/Software/Firmware Version

Product	Model	Series Model	Hardware/Software /Firmware Version
802.11ac/a/b/g/n 2T2R Wi-Fi + Bluetooth 4.2 USB Module		WUBT-236ACN(BT) [PU], WUBT-236ACN(BT) [P4W], WUBT-236ACN(BT) [MU]	1030.30.1201.2017

Note:

1. All models are listed as below.

Model name	Description
WUBT-236ACN(BT) [M4W]	802.11ac/a/b/g/n 2T2R Wi-Fi + BT USB Module(4-Pin Wafer + IPEX)
WUBT-236ACN(BT) [P4W]	802.11ac/a/b/g/n 2T2R Wi-Fi + BT USB Module(4-Pin Wafer + Printed Ant)
WUBT-236ACN(BT) [MU]	802.11ac/a/b/g/n 2T2R Wi-Fi + BT USB Module (USB Type A + IPEX)
WUBT-236ACN(BT) [PU]	802.11ac/a/b/g/n 2T2R Wi-Fi + BT USB Module (USB Type A + Printed Ant)

2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

For EUT Model: WUBT-236ACN(BT) [M4W], WUBT-236ACN(BT) [MU]

No.	Transmitter Circuit	Brand	Model	Antenna Type	2.4G gain with cable loss (dBi)	5G gain with cable loss (dBi)	Connector Type
1	Chain(0) Chain(1)	Sparklan	AD-301N	Dipole	4.4	B1&2: 5.2 B3&4: 5.8	
2	Chain(0) Chain(1)	Sparklan	AD-103AG	Dipole	2.02	B1&2: 1.93 B3&4: 2.03	IPEX MHF I at
3	Chain(0) Chain(1)	Sparklan	AD-305N	Dipole	5.0	5.0	modular side & RP-SMA (M) at
4	Chain(0) Chain(1)	Sparklan	AD-303N	Dipole	3.0	3.0	antenna side
5	Chain(0) Chain(1)	Sparklan	AD-302N	Dipole	3.0	2.0	

For EUT Model: WUBT-236ACN(BT) [P4W], WUBT-236ACN(BT) [PU]

Antenna Type	Printed					
Antenna Connector	NA					
Coin (dPi)			Frequen	cy (MHz)		
Gain (dBi)	2400	2450	2500	5150	5550	5825
Ant. 1	2.5	3.2	2.8	3.3	3.7	4.2
Ant. 2	3.2	2.9	2.7	3.1	3.5	4.0

^{*}The 5.8dBi with 5GHz max. gain is chosen for final tests.

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2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

802.11a

Fraguency Band (MUz)	Max.	Power
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)
5250~5350	14.92	31.046
5470~5725	14.88	30.761

802.11n HT20

Fraguency Bond (MHz)	Max.	Power
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)
5250~5350	16.83	48.150
5470~5725	16.88	48.757

802.11n HT40

Fraguency Band (MHz)	Max.	Power
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)
5250~5350	16.85	48.421
5470~5725	16.88	48.756

802.11ac VHT80

Fraguency Band (MUz)	Max. I	Power
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)
5250~5350	10.15	10.356
5470~5725	13.70	23.446



2.5 EUT Maximum E.I.R.P. Power

Table 5: The EIRP Output Power List

802.11a

Fraguency Band (MHz)	Max.	Power
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)
5250~5350	20.72	118.032
5470~5725	20.68	116.950

802.11n HT20

Fraguency Band (MHz)	Max. Power		
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	
5250~5350	22.63	183.231	
5470~5725	22.68	185.353	

802.11n HT40

Fraguency Band (MHz)	Max. Power		
Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	
5250~5350	22.65	184.077	
5470~5725	22.68	185.353	

802.11ac VHT80

Fraguency Band (MHz)	Max. Power		
Frequency Band (MHz)	Output Power (dBm)	utput Power (dBm) Output Power (mW)	
5250~5350	15.95	39.355	
5470~5725	19.50	89.125	



2.6 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Maximum EIRP of this device is 185.353 mW which less than 500mW, therefore it's not require TPC function

TPC	E.I.R.P	FCC 15.407(h)(1)				
	> 500mW	> 500mW The TPC mechanism is required for system with an E.I.R.P. of above 500mW				
$\sqrt{}$	< 500mW	The TPC mechanism is not required for system with an E.I.R.P. of less 500mW				

2.7 Statement of Maunfacturer

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. **And the device doesn't have Ad Hoc mode on DFS frequency band.**



3. U-NII DFS Rule Requirements

3.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Table 6: Applicability of DFS Requirements Prior To Use a Channel

	Operational Mode			
Requirement	Master	Client without radar detection	Client with radar detection	
Non-Occupancy Period	✓ vnote		✓	
DFS Detection Threshold	✓	Not required	✓	
Channel Availability Check Time	✓	Not required	Not required	
U-NII Detection Bandwidth	✓	Not required	✓	

Note: Regarding KDB 905462 D03 Client Without DFS New Rules v01r02 section (b)(5/6), 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. An analyzer plot that contains a single 30-minute sweep on the original channel.

Table 7: Applicability of DFS Requirements during Normal Operation.

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

Additional requirements for devices with	Master or Client with radar	Client without radar detection	
multiple bandwidth modes	detection		
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required	
Performance Check			
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest BW mode	
Transmission Time	available	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.



3.2 **Test Limits and Radar Signal Parameters**

Detection Threshold Values

Table 8: DFS Detection Thresholds for Master Devices And Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

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

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

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: 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 U-NII 99% transmission 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 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.



Parameters of DFS Test Signals

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.

Table 10: Short Pulse Radar 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 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A	Roundup $ \begin{cases} $	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
		regate (Radar Types 1	-4)	80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



Table 11: 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

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

- a) the Channel center frequency
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

 $FL+(0.4*Chirp\ Width\ [in\ MHz])$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

FH-(0.4* $Chirp\ Width\ [in\ MHz]$)

Table 12: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	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



4. Test & Support Equipment List

4.1 Test Instruments

Table 13: Test Instruments List

Description	Model No.	Brand	Date of Calibration	Due Date of Calibration
Spectrum analyzer	ESR	R&S	Mar. 01, 2018	Feb. 28, 2019
Signal generator	MXG	KEYSIGHT	Dec. 24, 2018	Dec. 23, 2019
Horn antenna	BBHA 9120 D	Schwarzbeck	Nov. 25, 2018	Nov. 24, 2019
RF coaxial cable	SUCOFLEX 104	HUBER SUHNER	Aug. 23, 2018	Aug. 22, 2019

4.2 Description of Support Units

Table 14: Support Unit Information

No.	Product	Brand	Model No.	FCC ID	Gain
1	Router	NETGEAR	R7800	PY315100319	5G Ant gain : 1.61dB Maximum EIRP : 25.47dBm

NOTE: This device was functioned as a Master Slave device during the DFS test.

Table 15: Software/Firmware Information

No.	Product	Model No.	Software/Firmware Version
1.	Router	R7800	V1.0.2.36

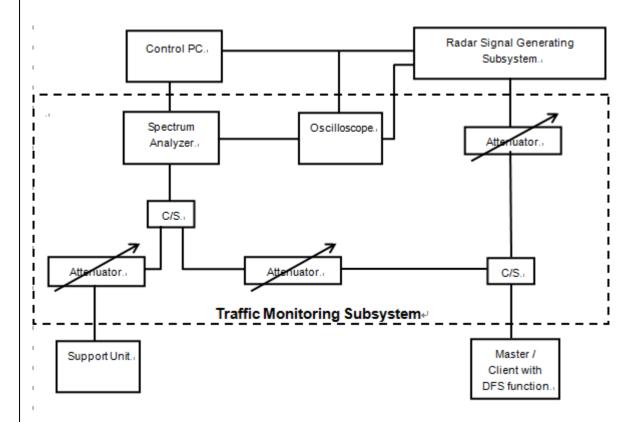


5. Test Procedure

5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

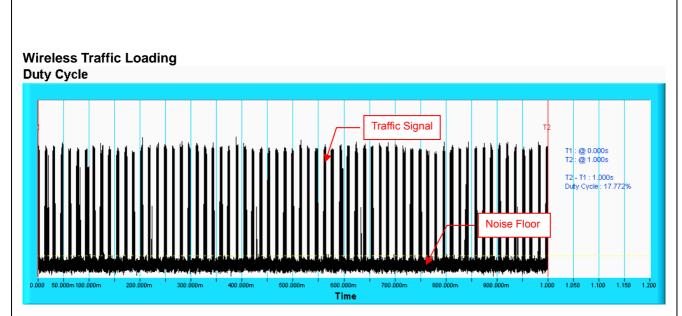
Conducted setup configuration of DFS Measurement System



System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

	a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AV etc.) and must generally be transmitting in a streaming mode.		
	b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.		
٧	c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.		
	d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.		

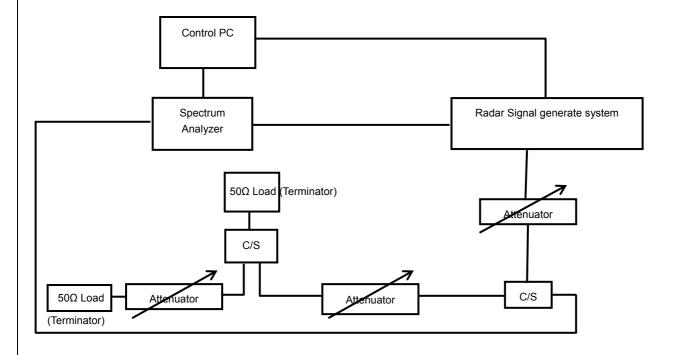




5.2 Calibration of DFS Detection Threshold Level

The measured channel is 5500MHz, 5510MHz and 5530MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

Conducted setup configuration of Calibration of DFS Detection Threshold Level



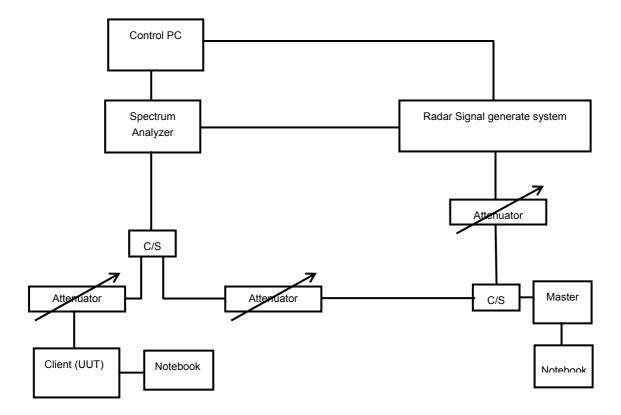


5.3 Deviation from Test Standard

No deviation.

5.4 Conducted Test Setup Configuration

5.4.1 Client without Radar Detection Mode



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.



6. Test Results

6.1 Summary of Test Results

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Not Applicable	NA
15.407	Channel Availability Check Time	Not Applicable	NA
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non-Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	Not Applicable	NA
15.407	U-NII Detection Bandwidth	Not Applicable	NA
15.407	Non-associated test	Applicable	Pass
15.407	Non-Co-Channel test	Applicable	Pass



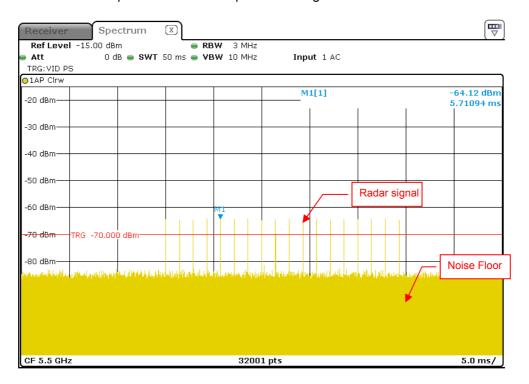
6.2 Test Results

6.2.1 Test Mode: Device Operating In Client without Radar Detection Mode.

Client with injection at the Master. (The radar test signals are injected into the Master Device)

DFS Detection Threshold

For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64dBm. The tested level is lower than required level hence it provides margin to the limit.



Radar Signal 0

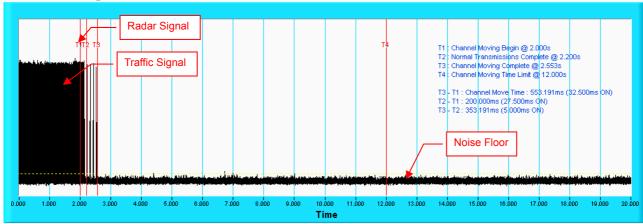


6.2.2 Channel Closing Transmission and Channel Move Time

Radar Signal 0

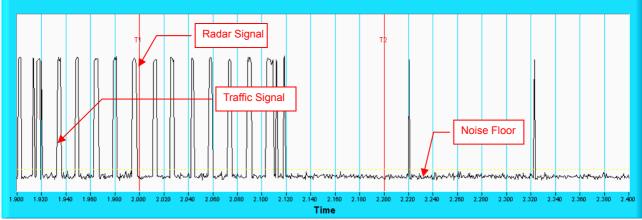
802.11n HT20





NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time.T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



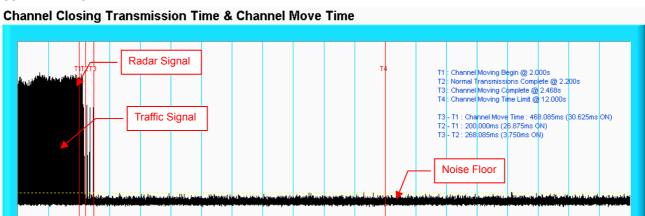


NOTE: An expanded plot for the device vacates the channel in the required 500ms.



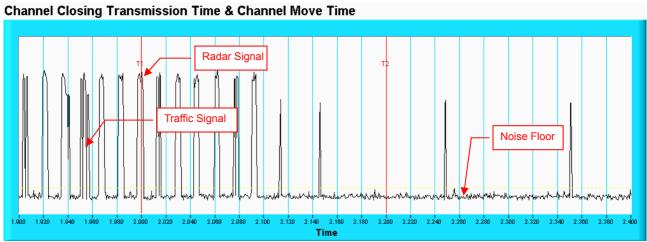
Radar Signal 0

802.11n HT40



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time.T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Time

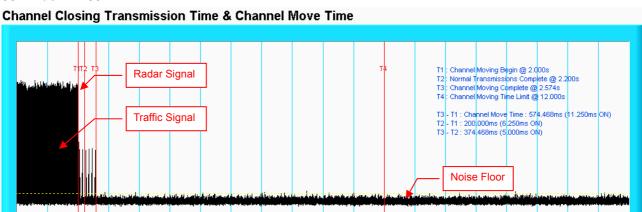


NOTE: An expanded plot for the device vacates the channel in the required 500ms.



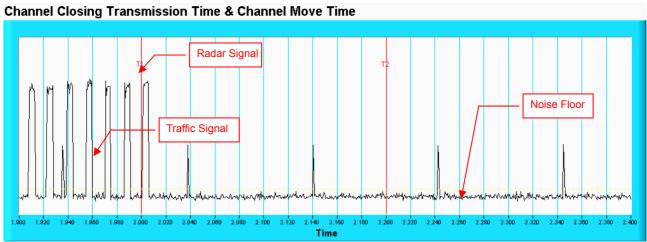
Radar Signal 0

802.11ac VHT80



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time.T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

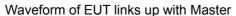


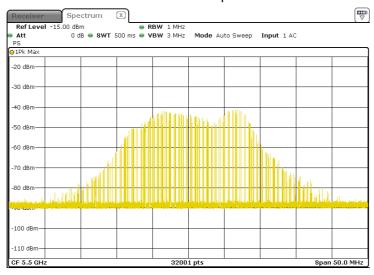
6.2.3 Non-Occupancy Period

Associate test:

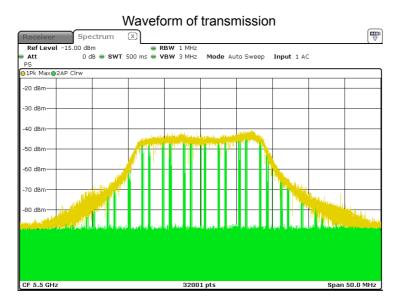
During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

1) EUT (Client) links with master on 5500MHz.





2) Client plays specified files via master.





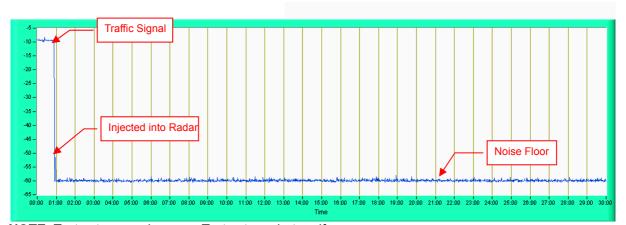
3) Radar signal 0 is applied to the Master device and WiFi traffic signal stop immediately.



4) 5500MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

802.11n HT20



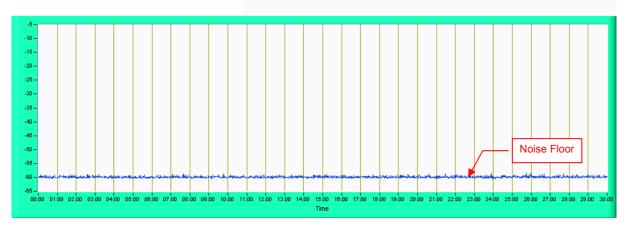
NOTE: Test setup are shown on Test set up photo.pdf



6.2.4 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.



6.2.5 Non-Co-Channel Test

The UUT was investigated after radar was detected and confirmed that no co-channel operation with radars.



7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab Hsin Chu EMC/RF/Telecom Lab

Tel: 886-2-26052180 Tel: 886-3-6668565 Fax: 886-2-26051924 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

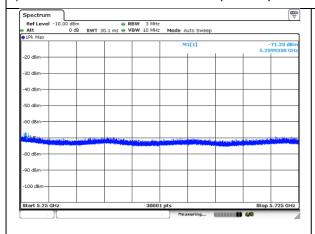
The address and road map of all our labs can be found in our web site also.

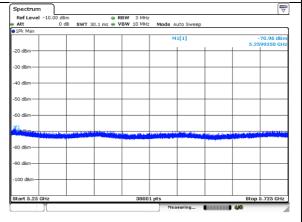


8. Appendix-A

Non Beacon on DFS Band

- 1) Test results demonstrating no any beacon on DFS band after power up.
- 2) Observation time is 10min after power up.

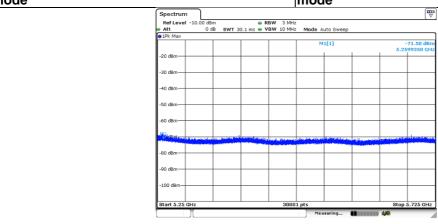




Client (UUT) no transmit on 802.11ac (VHT20) mode

Client (UUT) no transmit on 802.11ac (VHT40) mode

Report Format Version: 6.1.2



Client (UUT) no transmit on 802.11ac (VHT80) mode

--- END ---