

### **DFS TEST REPORT**

**REPORT NO.:** RF970313L06-2

MODEL NO.: WUB-710A (refer to FCC test report

for more details)

**RECEIVED:** Mar. 13, 2008

**TESTED:** Mar. 27, 2008

**ISSUED:** Mar. 28, 2008

APPLICANT: U-MEDIA Communications, Inc.

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#### 1. LAB DECLARATION

**PRODUCT:** 2.4GHz/5GHz Wireless USB Adapter

(refer to FCC test report for more details)

**MODEL:** WUB-710A (refer to FCC test report for more details)

**BRAND:** U-MEDIA (refer to FCC test report for more details)

APPLICANT: U-MEDIA Communications, Inc.

**TESTED:** Mar. 27, 2008

**TEST SAMPLE: ENGINEERING SAMPLE** 

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

FCC 06-96

The above equipment (Model: WUB-710A) has been tested by Advance Data Technology Corporation, 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 EMC characteristics under the conditions specified in this report.

PREPARED BY : Zemile | Sample | , DATE: Mar. 28, 2008 | Rennie Wang / Senior Specialist

TECHNICAL

ACCEPTANCE : Long Chen Chen , DATE: Mar. 28, 2008

Responsible for RF Long Chen / Senior Engineer

APPROVED BY



#### 2. EUT INFORMATION

#### 2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

TABLE 1: OPERATING FREQUENCY BANDS AND MODE OF EUT

| Operational Mode                               | Operating Frequency Range |              |  |
|--|---------------------------|--------------|--|
| Operational Mode                               | 5250~5350MHz              | 5470~5725MHz |  |
| Client without radar detection and Ad Hoc mode | <b>√</b>                  | <b>√</b>     |  |

#### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

TABLE 2: THE EUT SOFTWARE/FIRMWARE VERSION

| No. | Product                             | Model No. | Software/Firmware<br>Version |
|-----|-------------------------------------|-----------|------------------------------|
| 1   | 2.4GHz/5GHz Wireless<br>USB Adapter | WUB-710A  | Driver Version: 3.0.0.101    |

#### 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

**TABLE 3: ANTENNA LIST** 

| Ant No. | Antenna Type    | Operation Frequency<br>Range | Max. Gain(dBi) |
|---------|-----------------|------------------------------|----------------|
| 1       | Printed Antenna | 5.15 – 5.85 GHz              | 2              |



#### 2.4 EUT MAXIMUM AND MINIMUM CONDUCTED POWER

TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER.

|                                       | MAX.                 | Power               | MIN. Power           |                     |  |
|---------------------------------------|----------------------|---------------------|----------------------|---------------------|--|
| Frequency Band(MHz)                   | Output<br>Power(dBm) | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |  |
| 802.11a OFDM MODULATION               |                      |                     |                      |                     |  |
| 5250~5350MHz                          | 13.11                | 20.464              | 11.00                | 12.589              |  |
| 5470~5725MHz                          | 13.04                | 20.137              | 11.00                | 12.589              |  |
| DRAFT 802.11n (20MHz) OFDI            | M MODULATION         |                     |                      |                     |  |
| 5250~5350MHz                          | 13.08                | 20.324              | 11.00                | 12.589              |  |
| 5470~5725MHz                          | 13.05                | 20.184              | 11.00                | 12.589              |  |
| DRAFT 802.11n (40MHz) OFDM MODULATION |                      |                     |                      |                     |  |
| 5250~5350MHz                          | 13.09                | 20.370              | 11.00                | 12.589              |  |
| 5470~5725MHz                          | 13.03                | 20.091              | 11.00                | 12.589              |  |



#### 2.5 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

TABLE 5: THE E.I.R.P OUTPUT POWER LIST.

|                                       | MAX.                    | Power               | MIN. Power           |                     |  |  |  |
|---------------------------------------|-------------------------|---------------------|----------------------|---------------------|--|--|--|
| Frequency Band(MHz)                   | Output<br>Power(dBm)    | Output<br>Power(mW) | Output<br>Power(dBm) | Output<br>Power(mW) |  |  |  |
| 802.11a OFDM MODULATION               | 802.11a OFDM MODULATION |                     |                      |                     |  |  |  |
| 5250~5350MHz                          | 15.11                   | 32.434              | 13.00                | 19.953              |  |  |  |
| 5470~5725MHz                          | 15.04                   | 31.915              | 13.00                | 19.953              |  |  |  |
| DRAFT 802.11n (20MHz) OFDI            | M MODULATION            |                     |                      |                     |  |  |  |
| 5250~5350MHz                          | 15.08                   | 32.211              | 13.00                | 19.953              |  |  |  |
| 5470~5725MHz                          | 15.05                   | 31.989              | 13.00                | 19.953              |  |  |  |
| DRAFT 802.11n (40MHz) OFDM MODULATION |                         |                     |                      |                     |  |  |  |
| 5250~5350MHz                          | 15.09                   | 32.285              | 13.00                | 19.953              |  |  |  |
| 5470~5725MHz                          | 15.03                   | 31.842              | 13.00                | 19.953              |  |  |  |

#### 2.6 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. 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 1 and 2 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            | ✓                | Not required                   | ✓                           |  |  |
| DFS Detection Threshold         | ✓                | Not required                   | ✓                           |  |  |
| Channel Availability Check Time | ✓                | Not required                   | Not required                |  |  |
| Uniform Spreading               | ✓                | Not required                   | Not required                |  |  |
| U-NII Detection Bandwidth       | ✓                | Not required                   | ✓                           |  |  |

TABLE 7: APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

|                                      | Operational Mode |                                       |          |  |  |
|--------------------------------------|------------------|---------------------------------------|----------|--|--|
| Requirement                          | Master           | Master Client without radar detection |          |  |  |
| DFS Detection Threshold              | ✓                | Not required                          | <b>√</b> |  |  |
| Channel Closing Transmission<br>Time | ✓                | ✓                                     | ✓        |  |  |
| Channel Move Time                    | ✓                | ✓                                     | ✓        |  |  |
| U-NII Detection Bandwidth            | ✓                | Not required                          | ✓        |  |  |



#### 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<br>(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.

#### **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<br>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 80% of the UNII 99% transmission 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 Waveform.

**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 1 is used and 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<br>(µsec) | PRI<br>(µsec) | Number<br>of Pulses | Minimum Percentage of Successful Detection | Minimum<br>Number of<br>Trials |
|------------|-----------------------|---------------|---------------------|--|--------------------------------|
| 1          | 1                     | 1428          | 18                  | 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 (Rad        | 80%           | 120                 |  |                                |

**TABLE 11: LONG PULSE RADAR TEST WAVEFORM** 

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

#### TABLE 12: FREQUENCY HOPPING RADAR TEST WAVEFORM

| Radar<br>Type | Pulse<br>Width<br>(µsec) | PRI<br>(µsec) | Pulses<br>per<br>Hop | Hopping<br>Rate<br>(kHz) | Hopping<br>Sequence<br>Length<br>(msec) | Minimum Percentage of Successful Detection | Minimum<br>Number of<br>Trials |
|---------------|--------------------------|---------------|----------------------|--------------------------|---|--|--------------------------------|
| 6             | 1                        | 333           | 9                    | 0.333                    | 300                                     | 70%  | 30                             |



#### 4. TEST & SUPPORT EQUIPMENT LIST

#### 4.1 TEST INSTRUMENTS

**TABLE 1: TEST INSTRUMENTS LIST** 

| DESCRIPTION & MANUFACTURER | MODEL NO. | BRAND     | CALIBRATED<br>UNTIL |
|----------------------------|-----------|-----------|---------------------|
| R&S Spectrum analyzer      | FSP40     | R&S       | Jun. 28, 2008       |
| Signal generator           | 8645A     | Agilent   | May 27, 2008        |
| Oscilloscope               | TDS 5104  | Tektronix | Aug. 30. 2008       |

#### 4.2 DESCRIPTION OF SUPPORT UNITS

**TABLE 2: SUPPORT UNIT INFORMATION** 

| No. | Product  | Brand   | Model No. | FCC ID     | Spec.   |
|-----|--|---------|-----------|------------|---|
| 1   | Dual-Band<br>Wireless-N<br>Gigabit Router<br>with Storage Link | Linksys | WRT600N   | 087-WR 160 | The maximum EIRP is<br>17 dBm, Antenna Gain is<br>1.6 dBi |

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

TABLE 3: SOFTWARE/FIRMWARE INFORMATION.

| No. | Product  | Model No. | Software/Firmware Version |
|-----|--|-----------|---------------------------|
| 1   | Dual-Band Wireless-N Gigabit<br>Router with Storage Link | WRT600N   | CFE 4.151.10.5            |

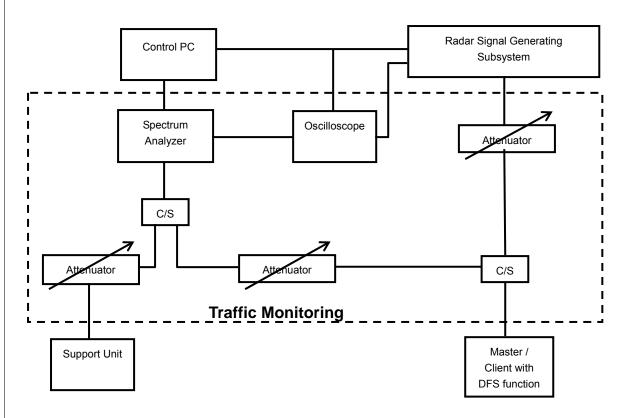


#### 5. TEST PROCEDURE

#### 5.1 ADT DFS MEASUREMENT SYSTEM

A complete ADT 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 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

#### **Conducted setup configuration of ADT DFS Measurement System**



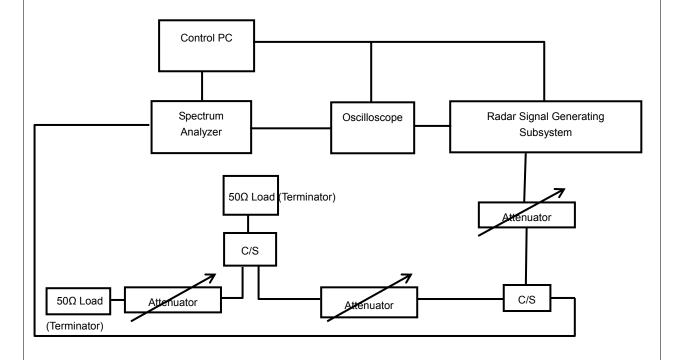
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6  $\frac{1}{2}$  Magic Hours) from Master device, the designated MPEG test file and instructions are located at: http://ntiacsd.ntia.doc.gov/dfs/.



#### 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

The measured channel is 5500MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Cisco Master antenna gain is 3dBi and required detection threshold is -58dBm (= -62 +1+3)dBm. The calibrated conducted detection threshold level is set to -59dBm. 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



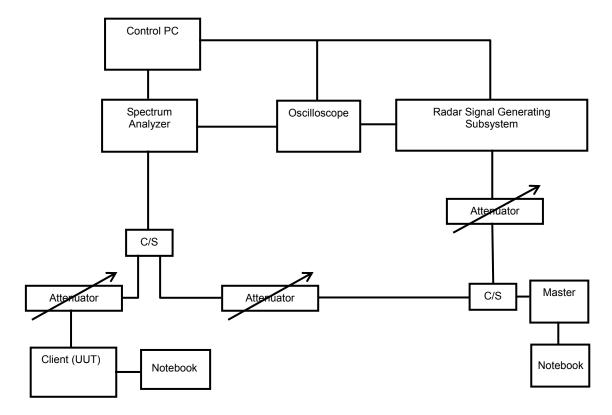


#### 5.3 DEVIATION FROM TEST STANDARD

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        |



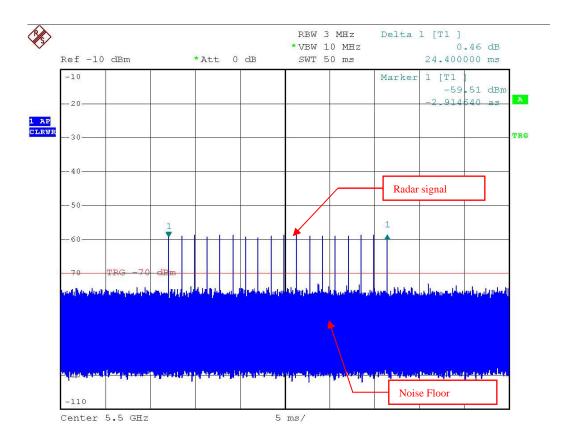
#### 6.2 DETELED TEST RESULTS

# 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.

#### 6.2.1.1 DFS DETECTION THRESHOLD

For a detection threshold level of –62dBm and the Master antenna gain is 1.6dBi. The Required detection threshold is -59.4dBm (= -62 +1+1.6)dBm. The conducted radar burst level is set to -59.4dBm.



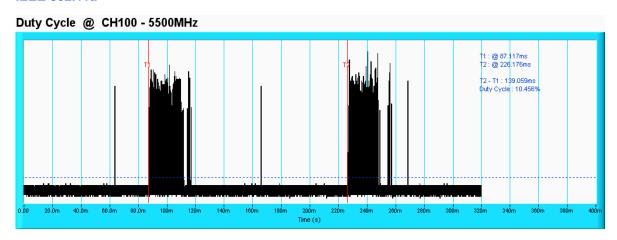
Radar Signal 1



#### 6.2.1.2 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

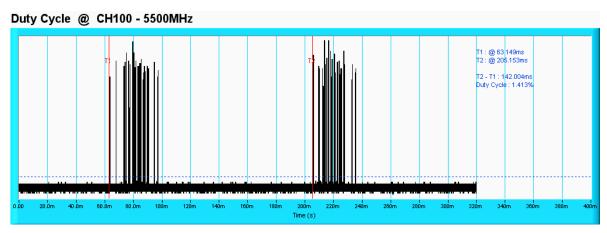
#### **WLAN Traffic**

#### **IEEE 802.11a**



**NOTE:** T1 denotes the start of duty cycle period is 0.087117<sup>th</sup> second. T2 denotes the end of duty cycle period is 0.226176<sup>th</sup> second. T2 – T1= 0.139059 seconds. Duty Cycle = 10.456%

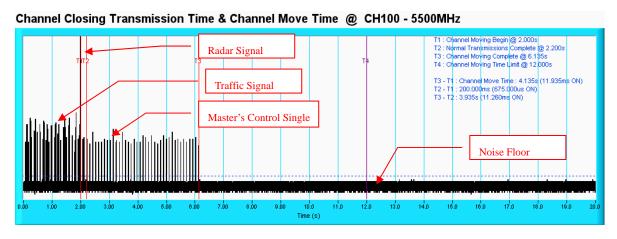
#### **DRAFT 802.11n (40MHz)**



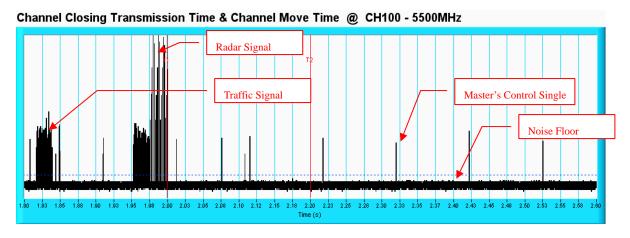
**NOTE:** T1 denotes the start of duty cycle period is 0.063149th second. T2 denotes the end of duty cycle period is 0.205153th second. T2 – T1= 0.142004 seconds. Duty Cycle = 1.413%



#### **IEEE 802.11a**



**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 200ms.



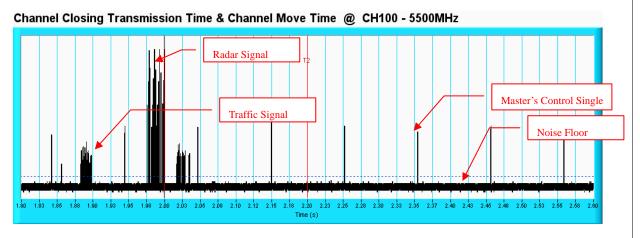
|         | Type 1 Radar Statistical Performances |                 |         |                    |  |
|---------|---------------------------------------|-----------------|---------|--------------------|--|
| Trial # | Pulses per Burst                      | Pulse Width (s) | PRI (s) | Detection          |  |
| 1       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 2       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 3       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 4       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 5       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 6       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 7       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 8       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 9       | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 10      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 11      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 12      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 13      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 14      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 15      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 16      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 17      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 18      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 19      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 20      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 21      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 22      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 23      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 24      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 25      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 26      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 27      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 28      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 29      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
| 30      | 18                                    | 1.0u            | 1.428m  | Yes                |  |
|         |                                       |                 | Det     | ection Rate: 100 % |  |



#### **DRAFT 802.11n (40MHz)**

### 

**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 200ms.



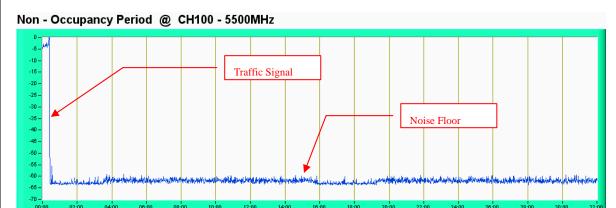
|         | Type '           | 1 Radar Statistical | Performances |                    |
|---------|------------------|---------------------|--------------|--------------------|
| Trial # | Pulses per Burst | Pulse Width (s)     | PRI (s)      | Detection          |
| 1       | 18               | 1.0u                | 1.428m       | Yes                |
| 2       | 18               | 1.0u                | 1.428m       | Yes                |
| 3       | 18               | 1.0u                | 1.428m       | Yes                |
| 4       | 18               | 1.0u                | 1.428m       | Yes                |
| 5       | 18               | 1.0u                | 1.428m       | Yes                |
| 6       | 18               | 1.0u                | 1.428m       | Yes                |
| 7       | 18               | 1.0u                | 1.428m       | Yes                |
| 8       | 18               | 1.0u                | 1.428m       | Yes                |
| 9       | 18               | 1.0u                | 1.428m       | Yes                |
| 10      | 18               | 1.0u                | 1.428m       | Yes                |
| 11      | 18               | 1.0u                | 1.428m       | Yes                |
| 12      | 18               | 1.0u                | 1.428m       | Yes                |
| 13      | 18               | 1.0u                | 1.428m       | Yes                |
| 14      | 18               | 1.0u                | 1.428m       | Yes                |
| 15      | 18               | 1.0u                | 1.428m       | Yes                |
| 16      | 18               | 1.0u                | 1.428m       | Yes                |
| 17      | 18               | 1.0u                | 1.428m       | Yes                |
| 18      | 18               | 1.0u                | 1.428m       | Yes                |
| 19      | 18               | 1.0u                | 1.428m       | Yes                |
| 20      | 18               | 1.0u                | 1.428m       | Yes                |
| 21      | 18               | 1.0u                | 1.428m       | Yes                |
| 22      | 18               | 1.0u                | 1.428m       | Yes                |
| 23      | 18               | 1.0u                | 1.428m       | Yes                |
| 24      | 18               | 1.0u                | 1.428m       | Yes                |
| 25      | 18               | 1.0u                | 1.428m       | Yes                |
| 26      | 18               | 1.0u                | 1.428m       | Yes                |
| 27      | 18               | 1.0u                | 1.428m       | Yes                |
| 28      | 18               | 1.0u                | 1.428m       | Yes                |
| 29      | 18               | 1.0u                | 1.428m       | Yes                |
| 30      | 18               | 1.0u                | 1.428m       | Yes                |
|         |                  |                     | Det          | ection Rate: 100 % |



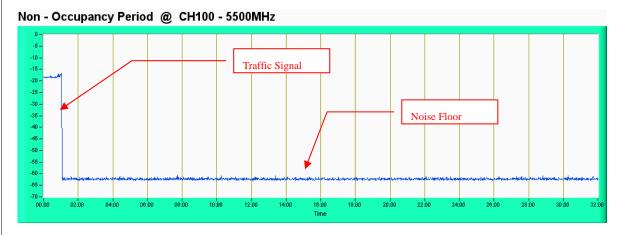
#### 6.2.1.3 NON-OCCUPANCY PERIOD

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.

#### **IEEE 802.11a**



#### **DRAFT 802.11n (40MHz)**

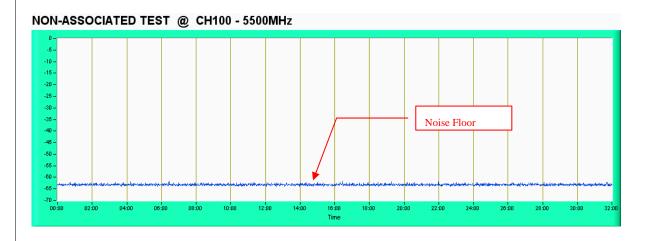




#### 6.2.1.4 NON-ASSOCIATED TEST

#### Master was off.

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





#### 7. TESTING LABORATORIES INFORMATION

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA FCC, UL, A2LA Germany TUV Rheinland

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA, CSA

**R.O.C.** TAF, BSMI, NCC

Netherlands Telefication

Singapore GOST-ASIA(MOU)
Russia CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: <a href="www.adt.com.tw/index.5/phtml">www.adt.com.tw/index.5/phtml</a>. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

#### Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



# 8 APPENDIX - MODIFICATIONS OR ADDING COMPONENTS

| DURING THE TEST  |  |  |  |
|--|--|--|--|
| No any modifications are made to the EUT by the lab during the test. |  |  |  |
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