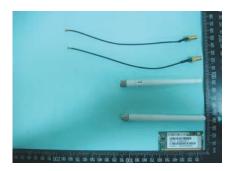


FCC Dynamic Frequency Selection Test Report

Applicant's company	Wistron NeWeb Corporation		
Applicant Address	No. 10-1, Li-Hsin Rd. 1, Science-Based Industrial Park, Hsinchu 300,		
	Taiwan R.O.C		
FCC ID	NKR-DCMA81		
Manufacturer's company	Wistron Neweb Corporation		
Manufacturer Address	No. 10-1, Li-Hsin Rd. 1, Science-Based Industrial Park, Hsinchu 300, Taiwan R.O.C		

Product Name	WLAN 802.11ABG MINIPCI
Brand Name	WNC
Model Name	DCMA-81
Test Standard(s)	47 CFR FCC Part 15 Subpart E § 15.407
Test Freq. Range	5250~5350 / 5470~5725
Received Date	Jun. 11, 2008
Final Test Date	Jun. 23, 2008
Submission Type	Original Equipment
Operating Mode	Client (without radar detection function)



Statement

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full. The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in FCC OET Order 06-96A (2006) and 47 CFR FCC Part 15 Subpart E § 15.407. The test equipment used to perform the test is calibrated and traceable to NML/ROC.





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History of This Test Report

Original Issue Date: Jun. 25, 2008

Report No.: FZ861112

No additional attachment.

Additional attachment were issued as following record:

Attachment No.	Issue Date	Description



Certificate No.: CB9706095

1. CERTIFICATE OF COMPLIANCE

Product Name	:	WLAN 802.11ABG MINIPCI
Brand Name	:	WNC
Model Name	:	DCMA-81
Applicant	:	Wistron NeWeb Corporation
Test Rule Part(s)	:	47 CFR FCC Part 15 Subpart E § 15.407

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jun. 11, 2008 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

agre Alu 16.6.08

Wayne Hsu SPORTON INTERNATIONAL INC.



2. SUMMARY OF THE TEST RESULT

	Applied Standard: OET Order 06-96A (2006)				
Part	Part Appendix Description of Test				
-	7.8.1	UNII Detection Bandwidth Measurement	-		
-	7.8.2.1	Initial Channel Availability Check Time	-		
-	7.8.2.2	Radar Burst at the Beginning of the Channel Availability Check Time	-		
-	7.8.2.3	Radar Burst at the End of the Channel Availability Check Time	-		
5 1	5.1 7.8.3	In-Service Monitoring for Channel Move Time, Channel Closing	Complias		
5.1		Transmission Time and Non-Occupancy Period	Complies		
-	7.4	Statistical Performance Check	-		

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



3. GENERAL INFORMATION

3.1. Standard Requirement

FCC 15.407: 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.

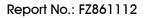
U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

3.2. Product Specification Table

Specification Items	Description	
Power Type	From host system	
Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)	
Data Rate (Mbps)	OFDM (6/9/12/18/24/36/48/54)	
Operating Frequency Range	5150~5350 / 5470~5725 / 5725~5825 MHz	
Channel Bandwidth	20 MHz operating channel bandwidth	
DFS Function	Client (without radar detection function)	
Max. Con. Power (DFS band)	Band 2: 23.23 dBm ; Band 3: 21.1 dBm	
Min. Con. Power (DFS band)	Band 2: 18.23 dBm ; Band 3: 15.10 dBm	
Max. EIRP Power (DFS band)	Band 2: 27.51 dBm ; Band 3: 25.38 dBm	
Min. EIRP Power (DFS band)	Band 2: 21.51 dBm ; Band 3: 19.38 dBm	
TPC Function	5260~5320 MHz ; 5500~5700 MHz	
Operating Mode	Client (without radar detection function)	
Communication Mode	IP based system	
Power-on cycle	NA (No Channel Availability Check Function)	
Software Version	10.50.0.125	
Carrier Frequencies	Please refer to section 3.5	
Antenna	Please refer to section 3.6	

3.3. Accessories

N/A





3.4. Table for DFS Band Carrier Frequencies

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz	52	5260 MHz	60	5300 MHz
Band 2 (DFS Band)	56	5280 MHz	64	5320 MHz
	100	5500 MHz	124	5620 MHz
	104	5520 MHz	128	5640 MHz
5470~5725 MHz	108	5540 MHz	132	5660 MHz
Band 3 (DFS Band)	112	5560 MHz	136	5680 MHz
	116	5580 MHz	140	5700 MHz
	120	5600 MHz		

3.5. Antenna Information on DFS Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Lct	F1B-294405-52	Dipole Antenna	NA	4.28



4. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

4.1. Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)		
≥ 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 maximum EIRP of the 5GHz AP (Model: AIR-AP1242AG-A-K9 ; FCC ID: LDK102056)

is 26.5 dBm. Minimum antenna is AIR-ANT5135D-R (5 GHz, 3.5 dBi Omnidirectional)

3.5dBi gain was used to set the -63dBm threshold level (-64dBm + 1dB) during calibration of the test setup.

4.2. 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 80% 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 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.



4.3. Radar Test Waveforms Minimum Step

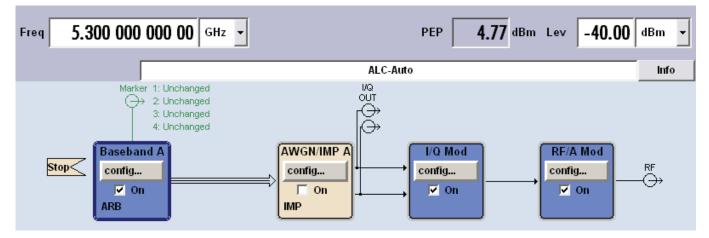
Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

4.4. Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum 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 (Radar Types 1-4)				80%	120

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

FCC Radar Types (1~4) System Diagram



Used R&S SMU200A (Vector SG with one ARB) or SG + ARB

B11: Base-band Generator with ARB (16 M samples) and Digital Modulation

B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

For selecting the waveform parameters from within the bounds of the signal type, system were random selection using uniform distribution.



4.5. Long Pulse Radar Test Waveform

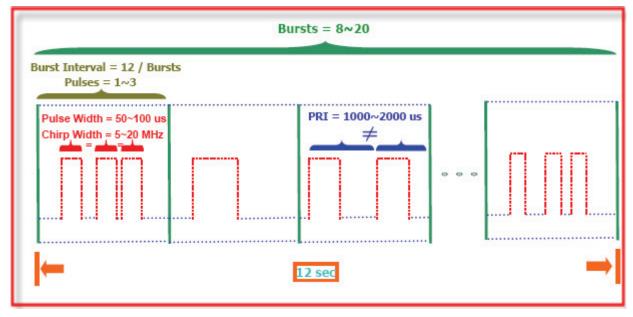
dar pe	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Burst</i> s	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more than 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms. Each waveform is defined as follows:

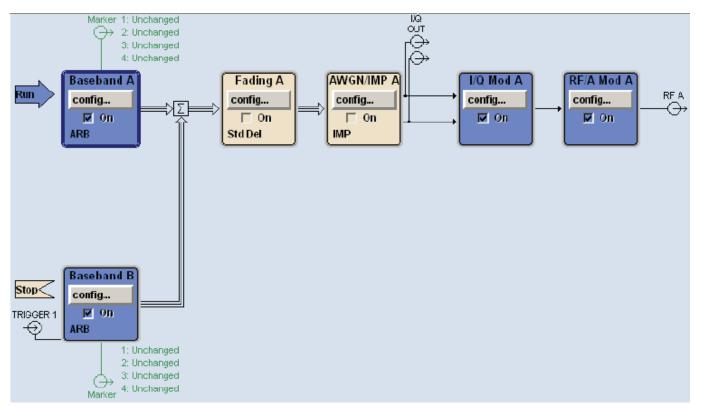
- (1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- (2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst_Count.
- (3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- (4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- (5) Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- (6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- (7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.
- A representative example of a Long Pulse radar test waveform:
- (1) The total test signal length is 12 seconds.
- (2) 8 Bursts are randomly generated for the Burst_Count.
- (3) Burst 1 has 2 randomly generated pulses.
- (4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- (5) The PRI is randomly selected to be at 1213 microseconds.



- (6) Bursts 2 through 8 are generated using steps 3 5.
- (7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).



FCC Radar Types (5) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

Path A / Path B Two B11: Base-band Generator with ARB (16 M samples) and Digital Modulation

B13: Base-band Main Module



B106: frequency range (100 kHz to 6 GHz)

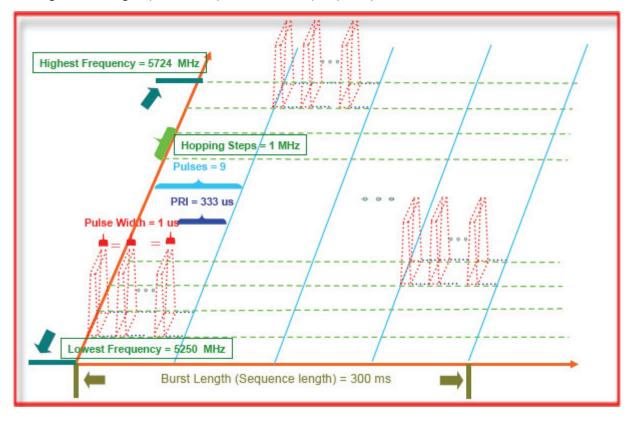
For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

4.6. 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 Trials
6	1	333	9	0.333	300	70%	30

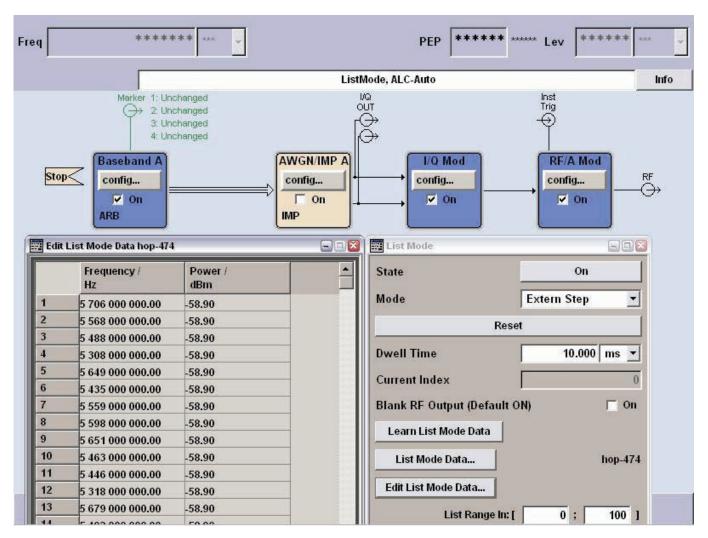
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. 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.



FCC Radar Types (6) System Diagram





Used R&S SMU200A (Vector SG with one ARB)

B11: Base-band Generator with ARB (16 M samples) and Digital Modulation

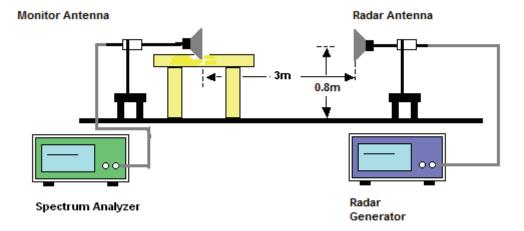
B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

For selecting the waveform parameters from within the bounds of the signal type, system were random selection using uniform distribution.



4.7. Conducted Calibration Setup





4.8. Radar Waveform Calibration Procedure

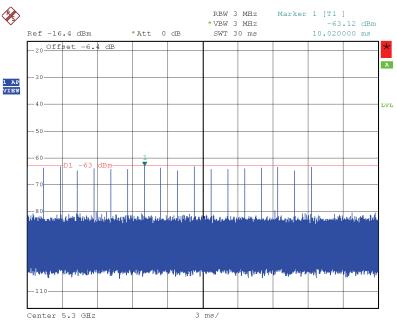
The Interference **Radar Detection Threshold Level** is (-64dBm) + 1dB = -63dBm that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level 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 3 MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-64dBm) + 1dB = -63dBm. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

4.9. Calibration Deviation

There is no deviation with the original standard.

4.10. Radar Waveform Calibration Result

Radar #1 DFS detection threshold level and the burst of pulses on the Channel frequency



Date: 26.JUN.2008 11:07:15

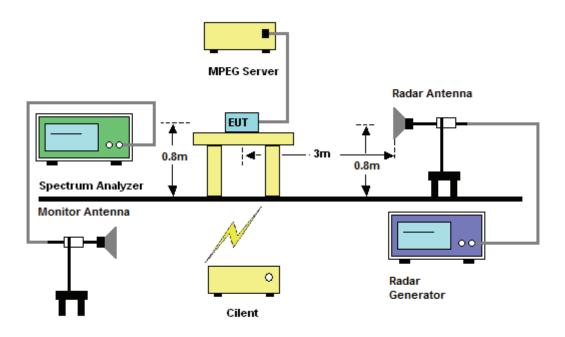


5. TEST SETUP AND TEST RESULT

5.1. Test setup

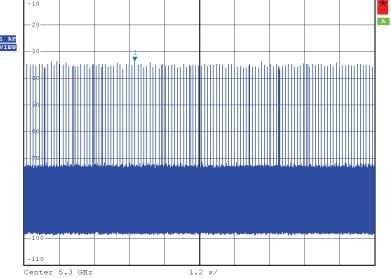
5.1.1. Test Setup Diagram

Following is the test setup for generate the radar waveforms and used to monitor UNII device.





EUT Data Traffic Plot

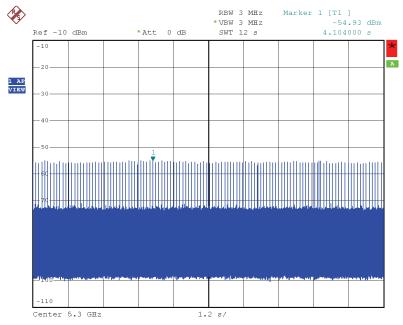


RBW 3 MHz *VBW 3 MHz

SWT 12 s

Marker 1 [T1] -33.48 dBm 3.792000 s

Date: 23.JUN.2008 11:06:40

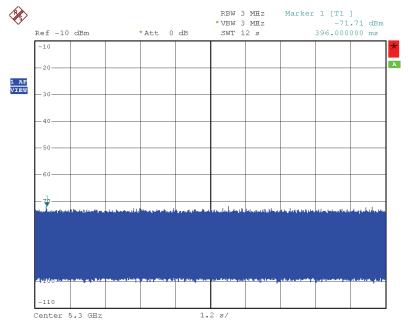


Master Data Traffic Plot

Date: 23.JUN.2008 11:25:14



Without Data Traffic Plot (Noise Plot)



Date: 23.JUN.2008 11:11:16

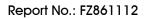


5.1.2. Test Setup Photo



FRONT VIEW

SIDE VIEW





5.1.3. Supporting Units

Supporting Units

Support Units	Brand	Model No.	Serial No.	FCC ID	Software Version
Notebook	DELL	D520	NB-A	E2KWM3945ABG	Win XP SP2
Notebook	DELL	D400	NB-C	E2K24GBRL	Win XP SP2
AP	CISCO	AIR-AP1242AG-A-K9	FTX1040B3RE	LDK102056	IOS Software Release 12_3(11)JA

5.1.4. Test Setup Operation

System testing was performed with the designated MPEG test file that streams full motion video from the Access Point 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.

The waveform parameters from within the bounds of the signal type are selected randomly using uniform distribution.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.



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

5.2.1. Limit

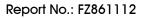
The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms. Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals between 9.8 sec after 200 ms starting from the end of radar burst. 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.

5.2.2. Test Procedures

- 1. 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. A U-NII device operating as a Client Device will associate with the Master 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.
- 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 10 second plot been reported for the Short Pulse Radar Types 1.
- 3. To measure the total intermittent control signals transmission time. The total intermittent control signals transmission time is measured between 9.8 sec that is calculated 10 sec starting at the beginning of the Channel Move Time and minus 200ms. 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 = S / B; 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. The total intermittent control signals transmission time is calculated by: C = N X Dwell; where C is the total intermittent control signals transmission time between 9.8 sec, N is the number of spectrum analyzer sampling bins showing total intermittent control signals and Dwell is the dwell is the dwell time per bin.
- 4. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

5.2.3. Test Deviation

There is no deviation with the original standard.



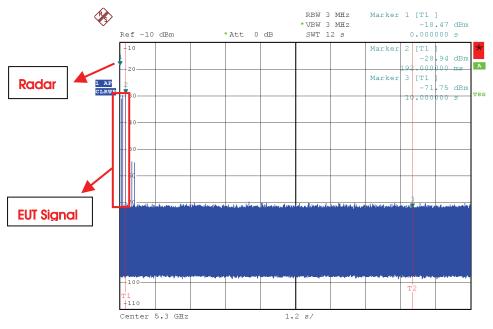


5.2.4. Result of Channel Move Time & Channel Closing Transmission Time & Non-Occupancy Period

Parameter	Test Result	Limit	
	Radar Type 1	Linnin	
Test Channel (MHz)	5300	-	
Channel Move Time (sec)	0.192	< 10s	
Intermittent Control Signals(ms) (Note)	0	< 60ms	
Non-Occupancy Period (min.)	≧30	\geq 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 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

5.2.5. Channel Move Time Plot



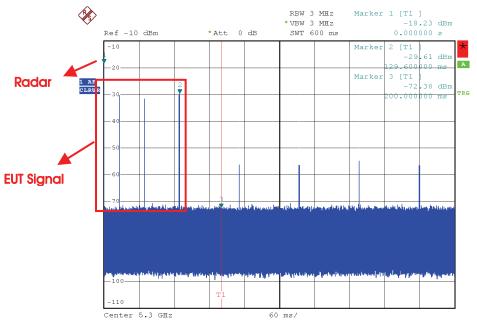
Radar #1 Channel Move Time

Date: 23.JUN.2008 15:14:10



5.2.6. Channel Closing Transmission Time Plot

Radar #1 Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Channel Move Time plus 30ms additional intermittent control signals



Date: 23.JUN.2008 15:18:40

Dwell is the dwell time per spectrum analyzer sampling bin.

S is the sweep time

B is the number of spectrum analyzer sampling bins

C is the intermittent control signals of Channel Closing Transmission Time

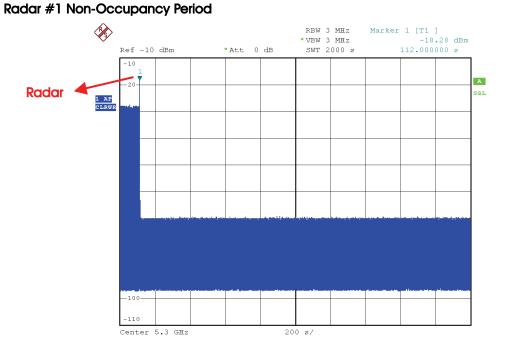
N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission

Dwell (1.2 ms) = S (0.6 sec) / B (500);

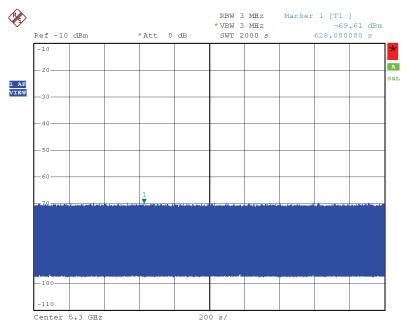
C (0 ms) = N (0) X Dwell (1.2 ms);



5.2.7. Non-Occupancy Period Plot



Date: 23.JUN.2008 15:06:10



Radar #1 Non-associated test

Date: 23.JUN.2008 14:30:08



6. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Dec. 17, 2007	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 03, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2007	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2007	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2007	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 07, 2008	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

* Calibration Interval of instruments listed above is two year.

NCR means Non-Calibration required.



7. TEST LOCATION

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SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085



8. TAF CERTIFICATE OF ACCREDITATION

	財團法人全國認證基金會 Taiwan Accreditation Foundation
Ce	rtificate of Accreditation
	This is to certify that
	Sporton International Inc.
	& Wireless Communications Laboratory ., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
is	accredited in respect of laboratory
Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	January 10, 2007 to January 09, 2010
Accredited Scope Specific Accreditation Program	 Testing Field, see described in the Appendix Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory
	Jay-San Chen President, Taiwan Accreditation Foundation Date : January 10, 2007