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Report On

FCC DFS Testing of the u-blox WiBear11n / ELLA-W1 In accordance with FCC 47 CFR Part 15E and Industry Canada RSS-247

COMMERCIAL-IN-CONFIDENCE

FCC ID: PV7-WIBEAR11N-DF1, PV7-WIBEAR11N-DF2, XPYELLAW161, XPYELLAW163

IC: 7738A-WB11NDF1, 7738A-WB11NDF2, 8595A-ELLAW161, 8595A-ELLAW163

Document 75931212 Report 01 Issue 2

September 2015



Product Service

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COMMERCIAL-IN-CONFIDENCE

REPORT ON FCC DFS Testing of the

u-blox WiBear11n / ELLA-W1

In accordance with FCC 47 CFR Part 15E

and Industry Canada RSS-247

Document 75931212 Report 01 Issue 2

September 2015

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DATED 03 September 2015

This report has been up-issued to Issue 2 to correct the model name on pages, 4, 14 and 21.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15E and Industry Canada RSS-247. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineer(s);

S Benneff





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SECTION 1

REPORT SUMMARY

FCC DFS Testing of the u-blox WiBear11n / ELLA-W1 In accordance with FCC 47 CFR Part 15E and Industry Canada RSS-247



1.1 INTRODUCTION

The information contained in this report is intended to show the verification of FCC DFS Testing of the u-blox WiBear11n / ELLA-W1 to the requirements of FCC 47 CFR Part 15E and Industry Canada RSS-247.

Objective To perform DFS Testing to determine the Equipment Under

Test's (EUT's) compliance with the Test Specification, for

the series of tests carried out.

Manufacturer u-blox

Model Number(s) WiBear11n / ELLA-W1

Serial Number(s) 409183

Hardware Version WiBear11n: E6, ELLA-W1: G8

Software Version 14.44.35

Number of Samples Tested 1

Test Specification/Issue/Date FCC 47 CFR Part 15E (2014)

Industry Canada RSS-247 (Issue 1, May 2015)

Incoming Release Application Form Date Application Form 16 July 2015

Disposal Held Pending Disposal

Reference Number Not Applicable
Date Not Applicable

Order Number LALB-201507081 Rev0

Date 8 July 2015 Start of Test 10 July 2015

Finish of Test 16 July 2015

Name of Engineer(s) S Bennett

Related Document(s) KDB 905462 D02 v01r02

KDB 905462 D06 v01r02 KDB 905462 D04 v01 KDB 662911 D01

UKAS M3003: Edition 2 (2007) ETSI TR 100 028 (2001)



1.2 TEST REQUIREMENTS

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

	Operational Mode				
Requirement	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

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 with multiple bandwidths modes	Master Device or Client with Radar Detection	Client Without Client Without Radar Detection	
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required	
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode 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.



1.3 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15E and Industry Canada RSS-247 is shown below.

Section	Specification Clause		Test Description	Result	Comments/Base Standard			
	Part 15	RSS-247	Test Description					
802.11a	802.11a							
2.1	-	-	Calibration of Test Setup Pa					
2.2	15.407 (h)(2)(iii)(iv)	6.3 (2)(i)(iii)(iv)	In-Service Monitoring					
802.11n - 4	40 MHz Bandwidth							
2.1	-	-	Calibration of Test Setup Pa					
2.2	15.407 (h)(2)(iii)(iv)	6.3 (2)(i)(iii)(iv)	In-Service Monitoring	Pass				



1.4 APPLICATION FORM

	EQUIPMENT DESCRIPTION				
Model Name/Number	WiBear11n-DF1/-DF2, ELLA-W161/-W163				
Part Number	AN00J93172/AN00J94360, AN00J94362/AN00J93176, ELLA-W161-00B-00, ELLA-W163-00B-00, ELLA-W161-00A-00, ELLA-W163-00A-00				
lardware Version WiBear11n: E6, ELLA-W1: G8					
Software Version	ion 14.44.35				
FCC ID PV7-WIBEAR11N-DF1, PV7-WIBEAR11N-DF2, XPYELLAW161, XPYELLAW163					
IC	7738A-WB11NDF1, 7738A-WB11NDF2, 8595A-ELLAW161, 8595A-ELLAW163				
Technical Description (Please provi description of the intended use of the eq					

	TYPE OF EQUIPMENT							
Ø	Master							
	Client with Radar Detection							
×	Client without Radar Detection							
×	Wi-Fi Direct Support							

	TRANSMITTER TECHNICAL CHARACTERISTICS						
	FREQUENCY CHARACTERISTICS						
×	5.150 GHz to 5.250 GHz						
×	5.250 GHz to 5.350 GHz						
⊠	5.470 GHz to 5.725 GHz						
⋈	5.725 GHz to 5.825 GHz						
\boxtimes	Please confirm the EUT does not operate in the frequency band 5600 - 5650 MHz						
	☐ Off Channel CAC Implemented						
	Off Channel CAC within 5600 – 5650 MHz band hours, (1 – 24)						
	Off Channel CAC outside 5600 – 5650 MHz band minutes, (6 – 240)						
Note	: DFS is not required in the ranges 5.15 - 5.25 GHz ar	nd 5.725 – 5.825 GHz					

	Т	RANSMITTER RF POWER CHARACTERISTICS	
Maximum rated transmitter	output power a	as stated by manufacturer	
Conducted Power	15 dBm		
Maximum Antenna Gain	4.6 dBi		
EIRP	19.6 dBm		
Minimum rated transmitter of	output power a	s stated by manufacturer (if applicable)	
Conducted Power	6 dBm		
Maximum Antenna Gain	4.6 dBi		
EIRP	10.6 dBm		
Is TPC supported?	⊠ Yes	□ No	
If Yes, provide a description	n of operation		
Power depends on modulati	on scheme an	nd distance to access point or client.	



Product Service

	POWER SOURCE							
	☐ AC mains supply State voltage							
AC supply frequency (Hz)			VAC					
⊠	DC supply							
Nomir	nal voltage 3.3							
		SYSTE	M ARCHITE	СТ	TURE			
	Frame Based							
⊠	IP Based							
	Other	If other please state						
⊠	802.11(a)	Receiver Bandwidth:	20 MHz					
⊠	802.11(n) - 20 MHz	Receiver Bandwidth:	20 MHz					
⊠	802.11(n) - 40 MHz	Receiver Bandwidth:	40 MHz					
	802.11(ac) - 20 MHz	Receiver Bandwidth:	MHz	z				
	802.11(ac) - 40 MHz	Receiver Bandwidth:	MHz	z				
	802.11(ac) - 80 MHz	Receiver Bandwidth:	MHz	z				
					And the second s			
	DECLARATION							
No pa	rameter or information relation	ng to the detected radar w	aveforms is a	ava	ailable or accessible to the end user.			
⊠	True			I	False			
		MISCELLANE	OUS (Maste	r D	Device Only)			
Powe	r-on cycle time*	0 s						
* Time	e from switching on the UUT	Γ to the point at which Ch	annel Availal	bili	ity Check (CAC) commences			
		UNIFORM SPRE						
Descr	ribe how the meter provides	, on aggregate, uniform of	channel loadir	ng	of the spectrum across all channels.			
Chan	nels are randomly selected b	y the access point.						



ANTENNA OPTIONS Antenna 1 Antenna Description: .On board SMT antenna Antenna Model: Antenova A10194 Antenna Maximum Gain: 4.1 dB Antenna Frequency Range: 4.900 - 5.900 GHz Antenna 2 Antenna Description: Dipole antenna Antenna Model: Linx ANT-DB1-RAF-RPS Antenna Maximum Gain: 4.6 dB Antenna Frequency Range: 5.150 - 5.850 GHz Antenna 3 Antenna Description: Dipole antenna Antenna Model: Taoglas GW.40.2153 2.5 dB Antenna Maximum Gain: Antenna Frequency Range: 5.150 - 5.850 GHz Antenna 4 Antenna Description: Dipole antenna Antenna Model: Taoglas GW.59.3153 Antenna Maximum Gain: 2.93 dB Antenna Frequency Range: 5.150 - 5.850 GHz Antenna 5 Antenna Description: Antenna Model: Antenna Maximum Gain: Antenna Frequency Range:



1.5 PRODUCT INFORMATION

1.5.1 Technical Description

The Equipment Under Test (EUT) was a u-blox WiBear11n / ELLA-W1. A full technical description can be found in the manufacturer's documentation.

The EUT is a Client without Radar Detection device.

The following is provided by the applicant as part of the FCC filing:

- A complete User's Manual and/or Professional Installers Manual.
- A Statement of Conformity for the Client in Non-Associated mode is required. The Form 731 application must include a Cover Letter Attachment stating that the client software and associated drivers will not initiate any transmission on DFS frequencies without initiation by a master. This includes restriction on transmissions for beacons and support for ad-hoc peer-to- peer modes.
- A channel/frequency plan for the device showing the channels that have active scanning or passive scanning. Active scanning is where the device can transmit a probe (beacon) and passive scanning is where the device can listen only without probes.
- Software security description.

1.6 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. See individual test clauses.

The development board was powered from a 10.0 V DC supply, which in turn provided 3.3 V DC to the EUT.

FCC Measurement Facility Registration Number 90987 Octagon House, Fareham Test Laboratory

1.7 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standard were made during testing.

1.8 MODIFICATION RECORD

Modification 0 - No modifications were made to the test sample during testing.



1.9 DFS TEST SYSTEM

The DFS system consists of hardware and software. The Hardware uses a PXI chassis with PXI instruments populating the chassis. The instruments used are a Vector Signal Generator, a Digitiser, Frequency References and a Dual Core PC. The measurement and analysis software runs on the PC and controls the instruments within the mainframe via commands on the PXI bus. Various markers are contained within the generated waveforms. The markers are used to trigger the measurement system at the appropriate points. An external trigger is also provided at the SMB output on the Vector Signal Generator which is employed where a Spectrum Analyser is used in place of the Aeroflex Digitiser. These are described within the test procedure for the applicable test.

The Aeroflex DFS software generates the pulses in accordance with KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02.

Short Pulse Radar Test Waveform

The short pulse radar simulation is a conventional amplitude pulse with varying pulse widths, pulse rate intervals (PRI) and number of pulses. General characteristics for these types and number of repetitions required by the standard are as follows:

Radar Type	Pulse Width (µsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	428 18		See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	rest randomly extend from the list of PRI values in Table $ \begin{cases} \frac{360}{360} \\ 19 - 10^6 \\ \hline PRI_{\mu sec} \end{cases} $ at A: 15 unique PRI rest randomly extend from the list of		30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18		30
4	11-20	200-500	12-16	60%	30
Aggregate (R	adar 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.

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



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



SECTION 2

TEST DETAILS

FCC DFS Testing of the u-blox WiBear11n / ELLA-W1 In accordance with FCC 47 CFR Part 15E



2.1 CALIBRATION OF TEST SETUP

2.1.1 Specification Reference

FCC 47 CFR Part 15E, FCC KDB 905462 D02 v01r02

2.1.2 Equipment Under Test and Modification State

WiBear11n / ELLA-W1 S/N: 409183 - Modification State 0

2.1.3 Date of Test

9 July 2015, 10 July 2015

2.1.4 Environmental Conditions

Ambient Temperature 23.7°C Relative Humidity 48.7 - 48.9%



2.1.5 Test Results

802.11a

In this test equipment configuration, Radar signals are injected at the Master. The configuration ensures that the Radar pulses are received only by the Master device and not the Client. To calibrate the Radar pulses, the master was replaced by a Spectrum Analyser. The required Radar Waveform, (Type 0), was loaded into the Arbitrary Waveform Generator. The Spectrum Analyser was set to zero Span and the RBW and VBW set to 3MHz. The sweep time was set to display the entire burst and triggered on the Radar Burst. The output level of the Radar Signal Generator was adjusted to give the correct level as defined in the table below with the 1dB correction accounted for. Trace data showing the used Radar Pulses was recorded.

DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

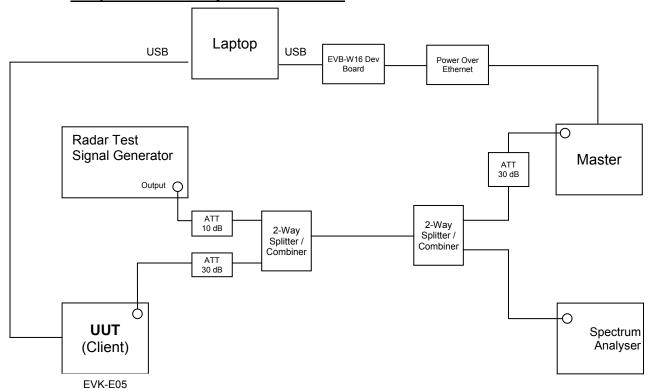
Maximum Transmit Power	Value (Notes 1 and 2)		
≥ 200 milliwatt	-64 dBm		
< 200 milliwatt	-62 dBm		

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.

Test Equipment Setup

Setup for Client with injection at the Master





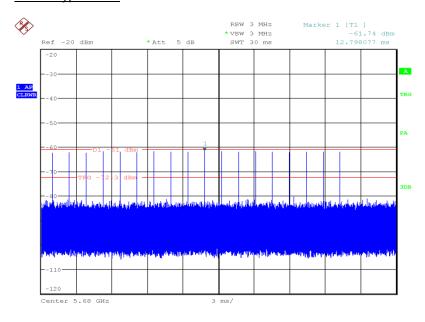
Radar Pulse Type 0

Short Radar Pulse Characteristics

Radar Type Pulse Width (µs)		PRI (μs)	Number of Pulses	
0	1	1428	18	

Client without Radar Detection

Radar Type 0 Plot

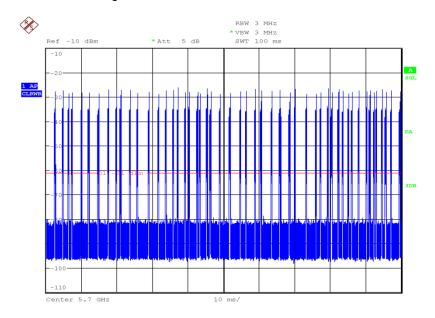


Date: 10.JUL.2015 10:00:12

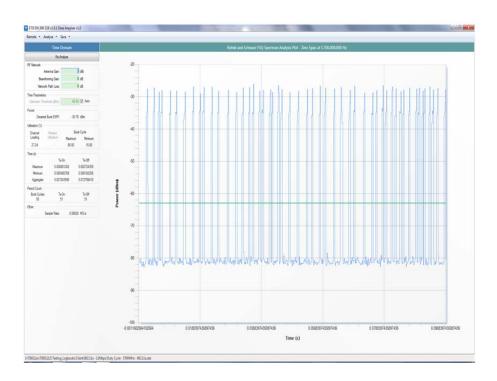


Channel Loading Plot

Channel Loading: 27.24 %



Date: 9.JUL.2015 18:55:26





802.11n - 40 MHz Bandwidth

In this test equipment configuration, Radar signals are injected at the Master. The configuration ensures that the Radar pulses are received only by the Master device and not the Client. To calibrate the Radar pulses, the master was replaced by a Spectrum Analyser. The required Radar Waveform, (Type 0), was loaded into the Arbitrary Waveform Generator. The Spectrum Analyser was set to zero Span and the RBW and VBW set to 3MHz. The sweep time was set to display the entire burst and triggered on the Radar Burst. The output level of the Radar Signal Generator was adjusted to give the correct level as defined in the table below with the 1dB correction accounted for. Trace data showing the used Radar Pulses was recorded.

DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

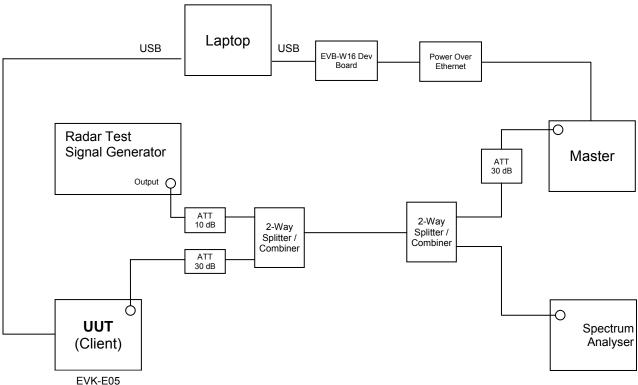
Maximum Transmit Power	Value (Notes 1 and 2)		
≥ 200 milliwatt	-64 dBm		
< 200 milliwatt	-62 dBm		

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.

Test Equipment Setup

Setup for Client with injection at the Master



Note: For 802.11n – 40 MHz testing, 2 ports of the DFS Master were combined.



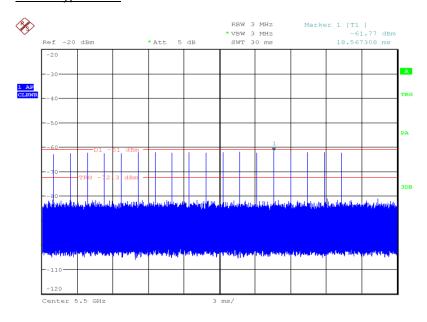
Radar Pulse Type 0

Short Radar Pulse Characteristics

Radar Type Pulse Width (µs)		PRI (μs)	Number of Pulses	
0	1	1428	18	

Client without Radar Detection

Radar Type 0 Plot

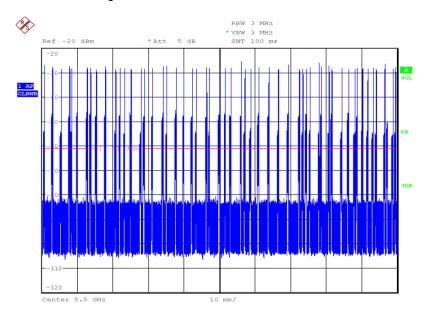


Date: 10.JUL.2015 09:56:14

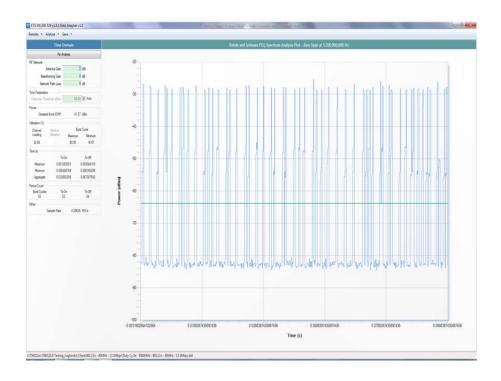


Channel Loading Plot

Channel Loading: 32.69 %



Date: 10.JUL.2015 09:18:47





2.2 IN-SERVICE MONITORING

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (h)(2)(iii)(iv) Industry Canada RSS-247, Clause 6.3 (2)(i)(iii)(iv)

2.2.2 Equipment Under Test and Modification State

WiBear11n / ELLA-W1 S/N: 409183 - Modification State 0

2.2.3 Date of Test

10 July 2015 & 15 July 2015

2.2.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.5 Test Procedure

Client Without DFS

Testing was carried out in accordance with KDB 905462 D02 v01r02 Clause 7.8.3.

Initially, the UUT was removed from the test setup and replaced with a Spectrum Analyser. A Type 0 Radar burst was sent from the signal generator and its level adjusted until the required level of -61dBm was achieved. The Spectrum Analyser was then replaced with the UUT.

The EUT was associated with the FCC Approved Master device FCC ID: LDK105061 and LDK102062 and IC: 2461B-102061 and 2461B-102062. A laptop was connected via a USB cable to the Master device and initial testing was carried out to determine which data rates/modulation schemes produced a duty cycle of >17 %. The EUT was then configured to send equal length packets with a random ping interval as defined in Clause 7.7(b). A Unicast, (UDP), protocol was used as described in Clause 7.7(d).

The UUT was configured to transfer data between the Master and Client, (as described above). Using the Aeroflex DFS Software, the Radar burst was injected to the Master. The test software triggered the capture mechanism of the PXI Digitiser and data was collected of the Radar burst, the Master and Client devices. The data was analysed with the Channel Move time being measured at the final point where transmissions ceased. It was checked that all transmissions stopped within the 10 second period defined from the point of the end of the final Radar pulse + 10 seconds. In addition, the aggregate on time during the first 200ms and the following 9.8 seconds of the Channel Move Time was computed by the Aeroflex DFS Software.

In addition, the Non-Occupancy period was tested, where it was ensured that no transmissions were measured following the conclusion of the injected Radar pulses. The limit lines on the plot show 10 seconds after the end of the Radar burst and a time period of 30 minutes later, (1810 seconds).

The markers on the trace data correspond to the following time periods:

Red - End Of Radar Burst, (T1)



Purple- End Of 200ms Period, (T1 + 200 ms)

Yellow- End Of Channel Move Time, (T1 + 10 seconds)

2.2.6 Environmental Conditions

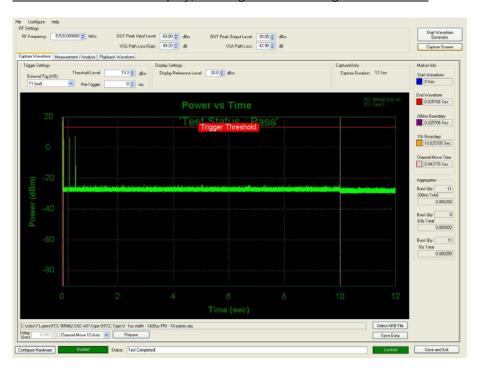
Ambient Temperature 23.6 - 23.7°C Relative Humidity 48.7 - 48.9%

2.2.7 Test Results

802.11a, In-Service Monitoring Results - 5520 MHz

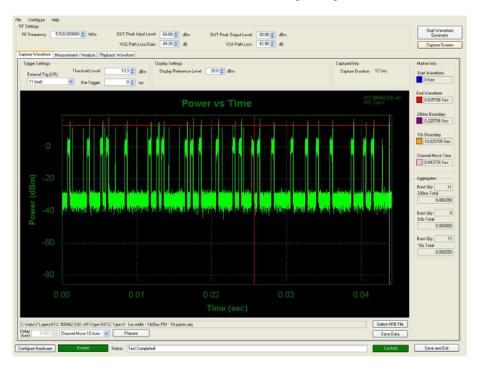
Channel Move Time	0.044 seconds		
Channel Closing Time (Aggregate Time During 200ms)	0.258 ms		
Channel Closing Time (Aggregate Time During +200ms to 10s)	0.000 ms		
Channel Closing Time (Aggregate Time During 10s)	0.258 ms		

Overall Power vs Time Display, showing channel closing and move time



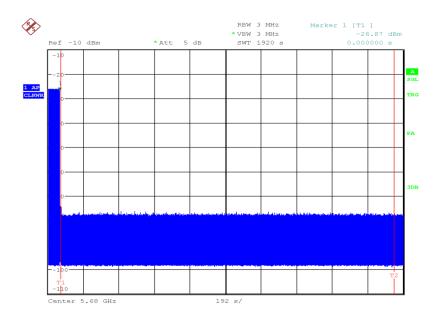


Zoom of Radar Burst, Access Point and Client Signalling



Non-occupancy Period

The EUT did not resume transmissions during the non-occupancy period.



Date: 10.JUL.2015 08:24:54



FCC 47 CFR Part 15, Limit Clause 15.407 (h)(2)(iii)

Channel Move Time	<10 seconds		
Channel Closing Time (Aggregate Time During 200ms)	<200 ms		
Channel Closing Time (Aggregate Time During +200ms to 10s)	<60 ms		

FCC 47 CFR Part 15, Limit Clause 15.407 (h)(2)(iv)

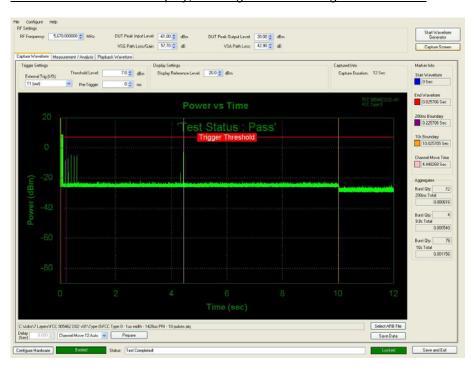
Non-occupancy Period	> 30 minutes	ì
. ton occupancy i oncu		



802.11n - 40 MHz Bandwidth, In-Service Monitoring Results - 5670 MHz

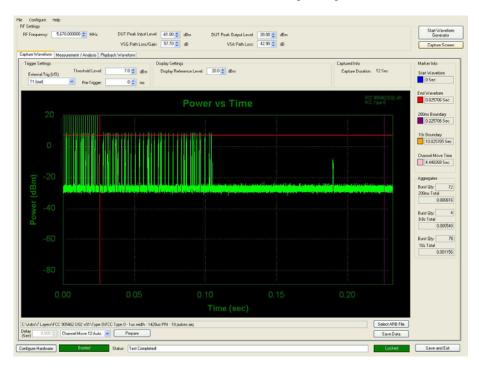
Channel Move Time	4.45 seconds		
Channel Closing Time (Aggregate Time During 200ms)	0.616 ms		
Channel Closing Time (Aggregate Time During +200ms to 10s)	0.540 ms		
Channel Closing Time (Aggregate Time During 10s)	1.156 ms		

Overall Power vs Time Display, showing channel closing and move time



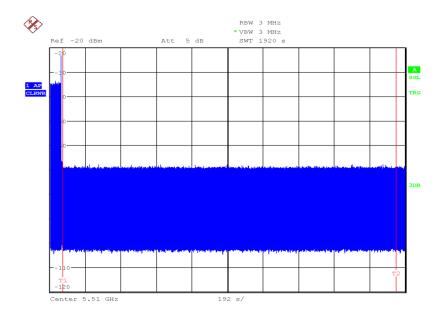


Zoom of Radar Burst, Access Point and Client Signalling



Non-occupancy Period

The EUT did not resume transmissions during the non-occupancy period.



Date: 10.JUL.2015 11:15:04



FCC 47 CFR Part 15, Limit Clause 15.407 (h)(2)(iii)

Channel Move Time	<10 seconds		
Channel Closing Time (Aggregate Time During 200ms)	<200 ms		
Channel Closing Time (Aggregate Time During +200ms to 10s)	<60 ms		

FCC 47 CFR Part 15, Limit Clause 15.407 (h)(2)(iv)

Non-occupancy Period	> 30 minutes
Non-occupancy Period	> 30 minutes



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due			
Section 2.1 - In-Service Monitoring								
30dB/2W Attenuator	Narda	4772-30	460	-	TU			
Multimeter	Iso-tech	IDM101	2424	12	26-Sep-2015			
Programmable Power Supply	Iso-tech	IPS 2010	2435	-	O/P Mon			
Hygrometer	Rotronic	I-1000	2891	12	16-Jul-2015			
Termination (50ohm, 1W)	Suhner		3080	12	5-Mar-2016			
Power Divider	Weinschel	1506A	3345	12	2-Jun-2016			
Signal Analyser	Rohde & Schwarz	FSQ 26	3545	12	6-Aug-2015			
PXI Digital RF Signal Generator	Aeroflex	3025	4015	24	3-Oct-2015			
1800-6000 MHz Power Splitter	Mini-Circuits	ZN2PD-63-S+	4055	-	O/P Mon			
1800-6000 MHz Power Splitter	Mini-Circuits	ZN2PD-63-S+	4056	-	O/P Mon			
Attenuator	Sealectro	SO-674-1010-89	N/S	-	TU			
30dB Attenuator	Narda	4772-30	463	-	TU			
PXI Digital RF Digitizer	Aeroflex	3035	4012	24	3-Oct-2015			
PXI Digital RF Signal Generator	Aeroflex	3010	4013	24	3-Oct-2015			
PXI Digital RF Signal Generator	Aeroflex	3011	4014	24	3-Oct-2015			

TU – Traceability Unscheduled O/P MON – Output Monitored with Calibrated Equipment



3.2 SUPPORT TEST EQUIPMENT

Instrument	Manufacturer	Type No.	Serial Number
Access Point	Cisco	AIR-AP1252AG-A-K9	FTX143490WE
Laptop	Fujitsu	Litebook S7220	YKKF052471



3.3 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	MU
In-Service Monitoring	Time: ± 0.47 % Power: ± 1.29 dB



SECTION 4

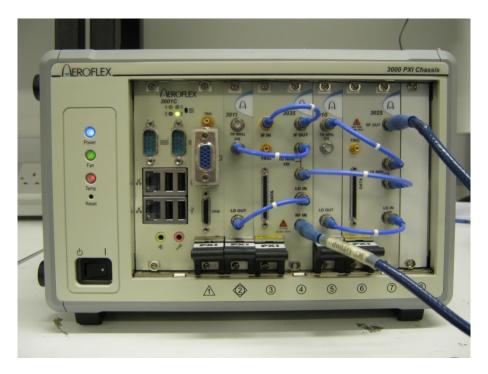
PHOTOGRAPHS



4.1 TEST SET-UP PHOTOGRAPHS

See test set-up photographs exhibit "75931212 FCC Set Up Photos.pdf".

4.2 DFS TEST EQUIPMENT



Test Set Up



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

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