Test of Motorola Mobile Computer VC6096

To: FCC 47 CFR Part 15.407

Test Report Serial No.: LYRS01-A2 Rev A





Test of Motorola Mobile Computer VC6096

To: FCC 47 CFR Part 15.407

Test Report Serial No.: LYRS01-A2 Rev A

This report supersedes NONE

Manufacturer: Motorola Inc. One Motorola Plaza Holtsville, New York 11742 USA

Product Function: Mobile Wireless Computing

Copy No: pdf Issue Date: 2nd December 2008



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ACCREDITATION, LISTINGS & RECOGNITION

MiCOM Labs, Inc. an accredited laboratory complies with the international standard BS EN ISO/IEC 17025. The company is accredited by the American Association for Laboratory Accreditation (A2LA) <u>www.a2la.org</u> test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <u>http://www.a2la.org/scopepdf/2381-01.pdf</u>



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LISTINGS

MiCOM Labs test facilities are listed by the following organizations;

North America

United States of America

Federal Communications Commission (FCC) Listing #: 102167

Canada

Industry Canada (IC) Listing #:4143A-2

RECOGNITION

APEC MRA (Asia-Pacific Economic Community Mutual Recognition Agreement)

Conformity Assessment Body (CAB) – MiCOM Labs

Test data generated by MiCOM Labs is accepted in the following countries under the APEC MRA.

Country	Recognition Body	Phase	CAB Identification No.
Australia	Australian Communications and Media Authority (ACMA)	I	
Hong Kong	Office of the Telecommunication Authority (OFTA)	Ι	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	I	US0159
Singapore	Infocomm Development Authority (IDA)		
Taiwan	Directorate General of Telecommunications (DGT) Bureau of Standards, Metrology and Inspection		
	(ROMI)		

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DOCUMENT HISTORY

	Document History			
Revision	Date	Comments		
Draft				
A	2 nd December 2008	Initial Release		

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1. TEST RESULT CERTIFICATE

Manufacturer:	Motorola Inc.	Tested By:	MiCOM Labs, Inc.
	One Motorola Plaza		440 Boulder Court
	Holtsville, New York 11742		Suite 200
	USA		Pleasanton
			California, 94566, USA
EUT:	Mobile Wireless Computer	Telephone:	+1 925 462 0304
Model:	VC6096	Fax:	+1 925 462 0306
S/N:	8204500000003 (Engineering Prototype)		
Test Date(s):	19th to 25th November 2008	Website:	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC 47 CFR Part 15.407	EQUIPMENT COMPLIES
DFS Only (Non-Radar Detecting Client)	

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

- 1. This document reports conditions under which testing was conducted and the results of testing performed.
- 2. Details of test methods used have been recorded and kept on file by the laboratory.
- 3. Test results apply only to the item(s) tested.

Approved & Released for MiCOM Labs, Inc. by:

Graeme Grieve Quality Manager MiCOM Labs,

Gordon Hurst



CERTIFICATE #2381.01

President & CEO MiCOM Labs, Inc.

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2. <u>REFERENCES AND MEASUREMENT UNCERTAINTY</u>

2.1. Normative References

Ref.	Publication	Year	Title
(i)	FCC 47 CFR Part 15.407	2007	Code of Federal Regulations
(ii)	FCC 06-96	June 2006	Memorandum Opinion and Order
(iii)	ANSI C63.4	2003	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
(iv)	CISPR 22/ EN 55022	2006 1998	Limits and Methods of Measurements of Radio Disturbance Characteristics of Information Technology Equipment
(v)	M 3003	Edition 1 Dec. 1997	Expression of Uncertainty and Confidence in Measurements
(vi)	LAB34	Edition 1 Aug 2002	The expression of uncertainty in EMC Testing
(vii)	ETSI TR 100 028	2001	Parts 1 and 2
			Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
(viii)	A2LA	14 th September 2005	Reference to A2LA Accreditation Status – A2LA Advertising Policy
(ix)	FCC Public Notice – DA 02-2138	2002	Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices

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2.2. Test and Uncertainty Procedures

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

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3. PRODUCT DETAILS AND TEST CONFIGURATIONS

3.1. Technical Details

Details	Description
Purpose:	Test of the Motorola Mobile Computer VC6096 as a Client Device without radar detection capabilities in the frequency ranges 5,250 to 5,350 MHz, and 5,470 to 5,725 MHz to FCC Part 15.407 DFS requirements only
Applicant:	7 Layers Borsigstrasse 11, 40880 Ratingen, Germany
Manufacturer:	Motorola Inc. One Motorola Plaza Holtsville, New York 11742 USA
Laboratory performing the tests:	MiCOM Labs, Inc. 440 Boulder Court, Suite 200 Pleasanton, California 94566 USA
lest report reference number:	LYRS01-A2 Rev A
Standard(s) applied:	FCC 47 CEP Port 15 407
Dates of test (from - to):	19th to 25th November 2008
No of Units Tested:	1
Type of Equipment:	802.11a/b/g Wireless LAN (transmitter & receiver)
EUT Modes of Operation:	GSM/GPRS/EDGE/UMTS-HSDPA, WLAN a/b/g, BT, GPS
Location for Use:	Indoor and outdoor operation
Trade Name:	Motorola
Model(s):	VC6096
FCC ID	UZ7V6096
Software Release	2.05
Hardware Release	Rev A
Declared Frequency Range(s):	5,250 to 5,350 MHz
	5,470 to 5,725 MHz,
Type of Modulation:	Per 802.11
Declared Nominal O/P Power:	+14 dBm
(Average Power)	
EUT Modes of Operation:	802.11a/b/g
Transmit/Receive Operation:	Time Division Duplex
Rated Input Voltage and	ac Nom (via ac adapter): 110 – 220Vac 50-60Hz
Current:	Vmax: 240Vac, Vmin 100Vac
	DC NUM: 14.5VaC Alternative Dewer Source: Circerette Lighter Adepter
Operating Temperature Pange:	Alternative Power Source. Cigarette Lighter Adapter
Erequency Stability:	+20 nnm max
Equipment Dimensions:	24.2 cm (H) X 23.5 cm (W/) X 4.05 cm (D) cm
Lquipment Dimensions. M/sight:	2 2 Ka's
Primary function of aquipment:	Apple Wireless Computing
Finally function of equipment:	

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3.2. Scope of Test Program

The scope of this program was to test the Motorola VC6096 Mobile Wireless Computer as a Client Device without Radar detection for compliance with the Dynamic Frequency Selection (DFS) requirements of FCC 47 CFR Part 15.407 and the FCC specification Memorandum Opinion and Order FCC 06-96. The Client configured device was tested with an FCC certified Access Point with full radar detection capability.

Access Point utilized to determine compliance:

Equipment Description (Including Brand Name)	Mfr	Model No.	FCC ID	Serial No.
Wireless Access Point AIRONET 802.11a/b/g	Cisco	AIR-AP1242AG-A-K9	LDK102056	FTX0940B04J

A frequency was chosen from the operating channels of the UUT within 5,250 - 5,350 and 5,470 - 5,725 MHz band for DFS testing per the requirements of FCC specification "Memorandum Opinion and Order FCC 06-96", Section 7.8 "DFS Conformance Test Procedures".

DFS Test Methodology: Conducted and Radiated

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Motorola Mobile Computer VC6096



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Motorola Mobile Computer VC6096



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Cisco Systems Access Point (Master Device)

Model: AIR-AP1242AG-A-K9



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Cisco Systems Access Point (Master Device)

Model: AIR-AP1242AG-A-K9



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3.3. Equipment Model(s) and Serial Number(s)

Type (EUT/ Support)	Equipment Description (Including Brand Name)	Mfr	Model No.	Serial No.
EUT	Mobile computer acting as client device (non-radar detecting capability)	Motorola	VC6096	8204500000003
Support	ac Adapter	Delta Electronics	EADP- 60EB B	OTW0812000065
Support	Access Point (Master)	Cisco Systems	AIR- AP1242AG -A-K9	FTX0940B04J
Support	Laptop	Dell	Inspiron	N/A
Support	Laptop	IBM	Thinkpad	N/A

3.4. Antenna Details

Model Number: Motorola FLN4048A

Gain 2.4 GHz operation: 2.3 dBi (peak)

Gain 5 GHz operation: 1.5 dBi (peak)

3.5. Cabling and I/O Ports

Number and type of I/O ports

- 1. USB x 2
- 2. Mini USB
- 3. SD Card
- 4. 10/100 Ethernet LAN
- 5. WLAN External Antenna (reverse/reverse polarization)
- 6. WAN External Antenna
- 7. GPS External Antenna
- 8. 50 pin Auxiliary Port

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3.6. <u>Test Configurations</u>

DFS testing was performed on the customer equipment configured as;-

1). Client device without radar detection in accordance with the following table.

Requirement	Operational Modes	
	Client Without Radar Detection	
DFS Detection Threshold	Not Required	
U-NII Detection Bandwidth	Not Required	
Channel Closing Transmission Time	Yes	
Channel Move Time	Yes	
Non-Occupancy	Yes	

3.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. Modification made to the FCC Mpeg Video

A modification was required to the FCC Video as the Windows Media Player does not support MPEG file format over the unicast stream.

The MPEG Video was re-sampled into a 30 second wmv file with a different encoding codec.

File Name: FCCCut30E.wmv

File size: 3 MByte

Play Operation: Continuously Looping

3.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

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4. TEST SUMMARY

List of Measurements - Dynamic Frequency Selection (DFS)

The following table represents the list of measurements required under the FCC CFR47 Part 15.407(h)(2) and FCC Memorandum Opinion and Order FCC 06-96 (Compliance Measurement procedures for Unlicensed National Information Infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection).

Section	Test Items	Description	Condition	Result	Test Report Section
7.8.3	In-Service Monitoring	In-Service Monitoring for Channel Move Time and Channel Closing Transmission Time	Conducted & Radiated	Complies	5.2.1 & 5.3.1
7.8.3	Non-Occupancy Period	30 minute Non-Occupancy Period	Conducted & Radiated	Complies	5.2.2 & 5.3.2

Tests performed on Motorola VC6096 Client Device

Note 1: Test results reported in this document relate only to the items tested

Note 2: The required tests demonstrated compliance as per client declaration of test configuration, monitoring methodology and associated pass/fail criteria

Note 3: Section 3.7 Equipment Modifications highlights the modifications required to bring the product into compliance with the above test matrix

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5. Dynamic Frequency Selection (DFS)

5.1. Test Procedure and Setup

FCC, Part 15 Subpart C §15.407(h) FCC 06-96 Memorandum Opinion and Order

5.1.1. 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.

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5.1.2. Test Set Up

Block Diagram(s) of DFS Test Setup

5.1.2.1. Conducted DFS Test Configuration



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5.1.2.2. Radiated DFS Test Configuration



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5.2. Conducted Testing

5.2.1. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time, Non-Occupancy Time

FCC §15.407(h)(2)(iii)

Tests Performed on Client Device (without radar detection)

Requirement	Operational Mode
	Client Without Radar Detection
Channel Closing Transmission Time	Yes
Channel Move Time	Yes
Non-Occupancy Time	Yes

The steps below define the procedure to determine the above mentioned parameters when a radar burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Master Device was associated with the EUT (Client). Video streaming was implemented from the master device (AP) to the client (EUT).

Access Point Receive Power Level: = -62 dBm +1 = -61 dBm (assumes 0dBi antenna)

Channel Closing Transmission Time - Measurement

A Type 1 waveform was introduced to the EUT, from which a 12 second transmission record was digitally captured, collecting nearly 250M samples of data, which included in excess of 600 ms of pre-trigger data. This Type 1 waveform had an integral marker built into its construction, marking the start of the radar waveform play, which directly triggered the PXI digitizer's data capture via the PXI backplane trigger bus.

The test system was set-up to capture all transmission data events above a threshold level of -50 dBm. The test equipment time stamps all captured events with respect to T0 (zero time indicating the start of the measurements sequence) starting the 612.1 ms pre-trigger period followed by the radar type 1 burst period.

Radar (Type 1) Pre-trigger period 612.1 ms

Type 1 burst period 25.705 ms

(The period of the 18 pulse burst includes [18 pulses *1.428mS PRI] = 25.704 ms. Then add 1 μ s pulse width for the final pulse.)

Channel Closing Transmission Time starts immediately after the last radar pulse is transmitted i.e. 637.8 ms after the start of the trace capture period.

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Therefore, pulses seen after this 637.8 ms boundary are identified and totaled to provide an aggregate total of transmissions in order to determine whether the EUT is compliant with the Channel Closing Transmission Time requirements as described in MO&O FCC 06-96.

The following plots #1 to #6 show the response of the EUT in two second increments. All client activity takes place within the initial two seconds (Plot #1).

Plot #6 identifies Channel Closing and Channel Move Time. The Channel Closing Time is found at the right hand side at the foot of plot #6 (10s Total). It was found that an aggregate total of 0.386 ms of transmission time accrued.

Channel Closing Transmission Time = 0.386 mSecs (limit 260 mSecs)

Channel Closing Move Time = 0.04335 Secs (limit 10 seconds)

Plots #7 and #8 zoom into the initial two second period and Plot #8 identifies Channel Move Time

Conducted – Plot #1 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar



Captured by the Test System - 0 to 2 seconds

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Conducted – Plot #2 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 2 to 4 seconds

tput Frequency: 5540	MHz		RF.On	Stimulus Outpu	ut Path Loss: 0	.0 dBm	Mki 2 B	oute SMB D/f	Snap Sh
Output Level: -10	dBm	Continu	us Waye	Digitizer Inp	ut Path Loss: 0	.0 dBm	-		
eate New Waveform C	Capture Wavefo	m Measurement /	Analysis						
Top Of Screen: -10	dBm	Sample Rate: 5	.0 MHz	Input Level: 0	dBm	ARB Single	Shot	Select ARB File	Next Page >
dB Per Division: 10	-	Capture Duration: 1	2.0 📫 Second(s)			Mode C Contin	ous	Channel List	< Previous Page
40.00								1	- Marker Info
-10.00									Start Waveform
20.00									U.6121 sec
-20.00									0.6378 sec
-30.00									200ms Boundary
									0.8378 sec
-40.00									10s Boundary
E50.00						_			Aggregates
-0									Burst Cnt:
-60.00							_		200ms Total:
and beingtheter	Hallenanara	ويستعانون ولمام وبالعار	and adaption of the second	ومتلسا ومعر بأطريقهم المتروع	an Ladadashile	NI AND	al a second and a local se	train and should still a	
-70.00									Burst Cnt:
									9.8s Total:
-80.00									7.10.1
									Total Unt:
-90.00 2.00000 2.	20000 2	.40000 2.600	000 2.80000	3.00000 Seconds	3.20000	3.40000 3	.60000 3.	80000 4.00000	Tos rota.
ARB File:	DfsType1Pw	1Pri1428Nop18NoC	hirp60Msps_000.aiq	50	echum Analyzer	Trigger Thresh	old: -50 dBm	30 Min Delay Arm 30) Min End CAC
	-	he Platting Euroption	Completed Success	iallu		Play Car	oture Auto	Play Capture Manual	Flau
		net foung randior	completed successi	only.					1.142

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Conducted – Plot #3 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 4 to 6 seconds

And Frankrik FEAD				Charles Diana	. D.W. 1 [D.C	-	NILOD	auto CMD D#	Curry Cha
Dutput Level: -10	- dBm	Caulius	us Wave	Digitizer Innu	t Path Loss: 0.0	dBm dBm	MIKI 2 D	oute SMD UIT	onap one
eate New Waveform	Capture Wavefi	orm Measurement /	Analysis	Digittor inpu	in duriedus, jose	, down			
Top Of Screen: -10	dBm	Sample Rate: 5	0 MHz	Input Level: 0	dBm	ARB • Single	Shot	Select ARB File	Next Page >
dB Per Division: 10	-	Capture Duration: 1	2.0 ÷ Second(s)			Play No Of Mode C Contin	Repeats ous	Channel List	< Previous Page
40.00								-	Marker Info.
-10.00									Start Waveform
-20.00									End Waveform
									0.6378 sec
-30.00									200ms Boundary
									U.83/8 sec
-40.00									
									Aggregates
8									Burst Cnt:
-60.00									200ms Total:
Bathanth burne	al will write		index designation of the last sector	ويحديك ليسروا مع أحديثا أه	Industry Marcalling	diase of block, ty,	His actor bedradhe	d and the stand lines	P. 101
-70.00									9.8s Total
00.00									
-00,00									Total Cnt:
-90.00									10s Total:
4.00000 4	20000	4.40000 4.600	4.80000	5.00000 Seconds	5.20000	5.40000 5	.60000 5.	80000 6.00000	
ARB File:	DfsType1P	w1Pri1428Nop18NoC	hirp60Msps_000.aiq	Spe	chum Analyzar	Trigger Thresh	old: -50 dBm	30 Min Delay Am 30) Min End CAC
		The Plotting Function	Completed Successfi	ally.		Play Car	oture Auto	Play Capture Manual	Play
		and the choice gri the lotter	and a subcost	1					

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Conducted – Plot #4 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 6 to 8 seconds

utput Frequency: 5540	MHz		HF On	Stimulus Outpu	ut Path Loss: 0.	0 dBm	Mki 2 B	oute SMB Off	Snap Sho
Output Level: -10 eate New Waveform	dBm Capture Wavefor	m Measurement / A	nalysis	Digitizer Inpu	ut Path Loss: 0.	0 dBm			
Top Of Screen: -10	dBm	Sample Rate: 5.0	MHz	Input Level: 0	dBm	ARB Single	Shot	Select ARB File	Next Page >
dB Per Division: 10	- 0	Capture Duration: 12.	0 🛨 Second(s)			Mode C Contin	Hepeats	Channel List	< Previous Page
-10.00									Marker Info. Start Waveform 0.6121 sec
-20.00									End Waveform 0.6378 sec
-30.00									200ms Boundary 0.8378 sec
-40.00									10s Boundary
									Aggregates Burst Cnt:
-60.00									200ms Total:
-70.00			and second (, while		Internal program in a solite			Approximate (mark) have	Burst Cnt:
90.00									9.8s Total:
-80,00									Total Cnt
-90.00 6.00000 6.	20000 6	.40000 6.6000	0 6.80000	7.00000 Seconds	7.20000	7.40000 7	7.60000 7.	80000 8.00000	
ARB File:	DfsType1Pw	1Pri1428Nop18NoChi	irp60Msps_000.aiq	Se	echum Arialyzer	Trigger Thresh	old: -50 dBm	30 Min Delay Am) Min End CAC
	Т	he Plotting Function (Completed Successf	ully.		Play Ca	pture Auto	Play Capture Manual	Play

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Conducted – Plot #5 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 8 to 10 seconds

tput Frequency: 5540	MHz		RF.On	Stimulus Outpu	It Path Loss: 0.0	dBm	Mki 2 R	oute SMB Off	Snap Sho
Output Level: -10	dBm	Continuo	is \\/aye	Digitizer Inpu	It Path Loss: 0.0	dBm			
eate New Waveform	Capture Wavefor	m Measurement / /	nalysis						
Top Of Screen: -10	dBm	Sample Rate: 5.1) MHz	Input Level: 0	dBm	ARB Single	Shot	Select ARB File	Next Page >
dB Per Division: 10		Capture Duration: 12	0 ÷ Second(s)			Mode C Contin	nepeats ous	Channel List	< Previous Page
40.00								-	Marker Info.
-10.00									Start Waveform
20.00									End Waveform
-20.00									0.6378 sec
-30.00									200ms Boundary
									0.8378 sec
-40.00									10s Boundary
		-							Aggregates
									Burst Cnt:
-60.00									200ms Fotal
In Alexandresia	and the fail form		the Blood Internet the Manual	and a taken of the other hand is a se	abiliti temesi (meril	Hipbergrad (second)	and the share have a	al has a subscription of the	Burst Cot
-70.00									9.8s Total:
-80.00									1
									Total Cnt:
-90.00									10s Total:
8.00000 8.	20000 8	.40000 8.6000	0 8.80000	9.00000 Seconds	9.20000	9,40000 9	.60000 9.	80000 10.00000	
ARB File:	DfsType1Pw	1Pri1428Nop18NoCł	irp60Msps_000.aig	Spe	echum Analyzer	Trigger Thresh	old: -50 dBm	30 Mm Delay Am 30) Min End CAC
						Dive Core		New Cost of Lancet	200
		he Plotting Function	Completed Successh	ully.		Play Lap	oture Auto	Hay Lapure Manual	F(B)

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Conducted – Plot #6 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System -10 to 12 seconds

Jutput Frequency: 5540 MHz					
Dutput Level: 10 dBm reate New Waveform Capture Waveform Me	Continuous Ways asurement / Analysis	imulus Output Path Loss: 0.0 Digitizer Input Path Loss: 0.0	dBm Mkr2Rou dBm	ute SMB Off	Snap Sho
Top Of Screen: <mark>-10 dBm Sam</mark> dB Per Division: 10 Capture -10.00	iple Rate: 50 MHz Inpu Duration: 12.0 🛨 Second(s)	t Level: 0 dBm 4 M	ARB ⓒ Single Shot Play ၳ No Df Repeats code ၳ Continous	Select ARB File	NexIPage × < Previous Page Marker Info. Start Waveform
-20.00					0.6121 sec End Waveform 0.6378 sec 200ms Boundary 0.8378 sec 10s Boundary
튭50.00 -60.00					Aggregates Burst Cnt: 44 200ms Total: 0.000386 sec
-70.00 -80.00	ann an All Shahal Talain (an Shahara Ayyan Al Shahara Ayyan Ayyan Ayyan Ayyan Ayyan Ayyan Ayyan Ayyan Ayyan Ay	in de la segunda de la seg	g a dia je na milje i konstrukti posljena na konstrukti na na se na konstru		Burst Cnt: 124 9.8s Total: 0.000000 sec Total Cnt: 168 10s Total:
-90.00 10.00000 10.20000 10.40000 ARB File: DfsType1Pw1Pvi142 The Plot	10.60000 10.80000 11.6 Sec 8Nop18NoChirp60Msps_000.aiq ing Function Completed Successfully.	00000 11.20000 11.	40000 11.60000 11.8 Trigger Threshold: -50 dBm Play Capture Auto Pi	2000 12.00000 30 Min Delay Arm 30 ay Capture Manual	0.000386 sec Min End GAC

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Conducted – Plot #7 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar



Plot zooms into transmission activity (see Plot #1)

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Conducted – Plot #8 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar



Last Radar Activity = 0.6378 Seconds Channel Move Time = Last Transmitter Activity–Last Radar Activity = 0.68115–0.6378

Channel Move Time = 0.04335 seconds (Limit 10 seconds)

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5.2.2. 30 Minute Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions, including beacons, resume on this Channel.



Conducted - 30 Minute Non-Occupancy Period Type 1 Radar

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5.3. Radiated Testing

5.3.1. <u>In-Service Monitoring for Channel Move Time, Channel Closing Transmission</u> <u>Time, Non-Occupancy Time</u>

FCC §15.407(h)(2)(iii)

Radiated Tests Performed on Client Device (without radar detection)

Requirement	Operational Mode Client Without Radar Detection
Channel Closing Transmission Time	Yes
Channel Move Time	Yes
Non-Occupancy Time	Yes

The steps below define the procedure to determine the above mentioned parameters when a radar burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Master Device was associated with the EUT (Client). Video streaming was implemented from the master device (AP) to the client (EUT).

Access Point Receive Power Level: = -62 dBm +1 = -61 dBm (assumes 0dBi antenna)

Channel Closing Transmission Time - Measurement

A Type 1 waveform was introduced to the EUT, from which a 12 second transmission record was digitally captured, collecting nearly 250M samples of data, which included in excess of 600 ms of pre-trigger data. This Type 1 waveform had an integral marker built into its construction, marking the start of the radar waveform play, which directly triggered the PXI digitizer's data capture via the PXI backplane trigger bus.

The test system was set-up to capture all transmission data events above a threshold level of -50 dBm. The test equipment time stamps all captured events with respect to T0 (zero time indicating the start of the measurements sequence) starting the 612.1 ms pre-trigger period followed by the radar type 1 burst period.

Radar (Type 1) Pre-trigger period 612.1 ms

Type 1 burst period 25.705 ms

(The period of the 18 pulse burst includes [18 pulses *1.428mS PRI] = 25.704 ms. Then add 1 µs pulse width for the final pulse.)

Channel Closing Transmission Time starts immediately after the last radar pulse is transmitted i.e. 637.8 ms after the start of the trace capture period.

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Therefore, pulses seen after this 637.8 ms boundary are identified and totaled to provide an aggregate total of transmissions in order to determine whether the EUT is compliant with the Channel Closing Transmission Time requirements as described in MO&O FCC 06-96.

The following plots #1 to #6 show the response of the EUT in two second increments. All client activity takes place within the initial two seconds (Plot #1).

Plot #6 identifies Channel Closing and Channel Move Time. The Channel Closing Time is found at the right hand side at the foot of plot #6 (10s Total). It was found that an aggregate total of 0.064 ms of transmission time accrued.

Channel Closing Transmission Time = 0.064 mSecs (limit 260 mSecs)

Channel Closing Move Time = 0.04335 Secs (limit 10 seconds)

Radiated – Plot #9 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar



Captured by the Test System - 0 to 2 seconds

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Radiated – Plot #10 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 2 to 4 seconds

	-		ne e			-		
Dutput Level -10 d	MHz Bm	Continue	Fir Un	Stimulus Uutpu Digitizer Ippu	It Path Loss: 0.0	Mki	2 Route SMB UIF	
eate New Waveform Cap	ture Waveforn		Analysis	Digitizor mpu	ar dar book joid			
Top Of Screen: -10	dBm	Sample Rate: 5,	0 MHz	Input Level: 0	dBm	ARB 🌾 Single Shot	Select ARB File	Next Page >
dB Per Division: 10	C	apture Duration: 12	2.0 ÷ Second(s)		1	Play C No Of Repeats	Chainel List	< Previous Page
Concerning and the second seco			-			Contained		Marker Info.
-10.00						ومراجعهما أعد		Start Waveform
20.00								0.6121 sec
-20.00								0.6378 sec
-30.00								200ms Boundary
								0.8378 sec
-40.00								10s Boundary
-								
								Aggregates
								Burst Cnt: 200ms Total:
-60.00								200ms Fotal
TANHARAMAN TO DO	an dia mandri da programa da		and the advertising of the line	nen hadibeterekabilet biseraan.		tel garrent sole and any second to	v state been kan a stille des-	Burst Cnt:
-70.00								9.8s Total:
-80.00								
								Total Cnt:
-90.00								10s Total:
2,00000 2.20	000 2.4	10000 2.600	2.80000	Seconds	3.20000 3	3.40000 3.60000	3.80000 4.00000	
ARB File:	DfsType1Pw1	Pri1428Nop18NoCł	hirp60Msps_000.aiq	Spe	echum Analyzer	Trigger Threshold: -50 o	iBm 30 Min Delay Amr 3	0 Min End CAC
	ТИ	e Blotting Euroption	Completed Success	in the		Play Canture Auto	Play Canture Manual	即詞
		ion notting renetion	completed ouccess	comy.		. ist oppose Adio		1.127

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Radiated – Plot #11 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 4 to 6 seconds

tput Frequency: 5300	MHz		FIF On	Stimulus Outpu	ut Path Loss: 0.	0 dBm	Mki 2 R	oute SMB Off	Snap Sh
Output Level: -10	dBm	Continue	us Waye	Digitizer Inpu	ut Path Loss: 0.	0 dBm			
Top Df Screen: -10	.apture waverc	Sample Bate: 5	Analysis	Input Level: 0		∆RR . Single	Shot	Select ARB File	Next Page >
dB Per Division: 10	-	Canture Duration: 13		inden een in jo	Gom	Play C No Of Mode C Cartin	Repeats	Channel List	< Previous Page
ab i or billioni (10		Capitale Paradon [12				mode (Lonar	ious		Marker Info
-10.00									Start Waveform
									0.6121 sec
-20.00									End Waveform
									0.6378 sec
-30.00									200ms Boundary
									10a Baundani
-40.00									Tos Boundary
e									Aggregates
<u> </u> 명 ^{50,00}									Aggregates
CO 00									200ms Total:
-60.00			The second second second	1. 1.					1
70.00		NUMBER OF STREET, STREE		a sa na kana kana ka ka ka ka		Infine south and the	and a start of the second s	Contraction of the second second	Burst Cnt:
-70,00									9.8s Total:
-80.00									1
-00.00									Total Cnt:
-90.00									10s Total:
4.00000 4.	20000 4	4.600	4.80000	5.00000 Seconds	5.20000	5.40000 5	5.60000 5.	80000 6.00000	-
ARR File	DisTure1Du	1D-1420Nas10NaC	weCOMass 000 sis		aetrum Analumat	Trigger Thresh	old: E0 Jp.	20 Min Dalau Arm 1 26	Min End TOC
	Distypetry	11F11142014001010140L1	inpoorsps_000.aid		sourinnearicityser		ioia: 1-00 dBm	So miniscial Sun So	
		The Plotting Function	Completed Successf	ully.		Play Ca	pture Auto	Play Capture Manual	Play.

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Radiated – Plot #12 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 6 to 8 seconds

utput Frequency: 5300 Output Level: -10	MHz	Continue	F)F O/I	Stimulus Dut Digitizer In	put Path Loss: put Path Loss:	0.0 dBm 0.0 dBm	Mkr 2 R	oute SMB Off	Snap Sho
eate New Waveform	Capture Wavefo	m Measurement /.	Analysis						
Top Of Screen: -10	dBm	Sample Rate: 5.	0 MHz	Input Level: 0	dBm	ARB C Single	Shot	Select ARB File	Next Page >
dB Per Division: 10		Capture Duration: 12	2.0 🛨 Second(s)			Mode C Contir	nepears	Ethermel List	< Previous Page
-10.00									Marker Info. Start Waveform 0.6121 sec
-20.00									End Waveform 0.6378 sec
-30.00									200ms Boundary
-40.00									10s Boundary
튶50.00 -									Aggregates
-60.00									Burst Cnt: 200ms Total:
70.00	nana atrico fanomonika	da kaana kanada sa ja	a ha (thank) ha they are had	and a share and the paper the	han little to allow the	antare di Helmando Inna	and and distribution	t houther a transmitter	Burst Cnt:
-70.00									9.8s Total:
-80,00									Total Cnt:
-90.00 6.00000 6.	20000 6	40000 6.600	00 6.80000	7.00000 Seconds	7.20000	7.40000 7	7.60000 7.	80000 8.00000	10s Total:
ARB File:	DfsType1Pw	1Pri1428Nop18NoCl	hirp60Msps_000.aiq	S	pechum Analyza	Trigger Thresh	old: -50 dBm	30 Min Delay Arm 30	I Min End GAC
	Т	he Plotting Function	Completed Success	fully.		Play Ca	pture Auto	Nay Capture Manual 📗	Play

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Radiated – Plot #13 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 8 to 10 seconds

						_			-
tput Frequency: 5300	MHz		FIF On	Stimulus Outpu	t Path Loss: 0.0) dBm	Mkr 2 Ro	ute SMB Off	Snap Sho
eate New Waveform	овт Capture Wavefo	m Measurement /	Analysis	Digitizer inpo	i Fairi Luss. ju.u	dBm			
Top Of Screen: -10	dBm	Sample Rate: 5.	0 MHz	Input Level: 0	dBm	ARB 🍳 Single S	hot	Select ARB File	Next Page >
dB Per Division: 10	-	Capture Duration: 1:	2.0 ÷ Second(s)			Play C No Of R Mode C Contino	epeats	Channel List	< Previous Page
Const								-	Marker Info.
-10.00									Start Waveform
-20.00									End Waveform
20.00									0.6378 sec
-30.00									200ms Boundary
									0.8378 sec
-40.00									Tus Boundary
									Aggregates
830.00									Burst Cnt:
-60.00									200ms Total:
Argubiephendeudli	an Martin from the	aster the survey of the local data	Ban experiel Minerster	In particular biological	and a state publication	Designed by the barble sta	ant a liftlaterar	Husphenberger	
-70.00									9.8s Total:
-80,00									Total Cnt:
-90.00									10s Total:
8.00000 8	20000 8	.40000 8.600	00 8.80000	9.00000 Seconds	9.20000	9,40000 9.6	9.8	0000 10.00000	-
ARB File:	DfsType1Pw	1Pri1428Nop18NoC	hirp60Msps_000.aiq	Spe	ectrum Analyzer	Trigger Threshol	t -50 dBm	30 Mm Dielay Arm 30	9 Min End CAC
		he Blotting Eurotion	Completed Success	follu		Play Capt	re Auto P	av Capture Manual	Ellay
		ne rioding randion	completed Success	control of the second se					1.147

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Radiated – Plot #14 Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 10 to 12 seconds

Dute the set 12					
Output Level: [-10					
sate New Waveform Capture Waveform Measurement / Anal	lysis				
Top Of Screen: -10 dBm Sample Rate: 5.0	MHz Input Level: 0	dBm ARB Sing	le Shot	Select ARB File	Next Page ×
dB Per Division: 10 Capture Duration: 12.0	÷ Second(s)	Mode C Con	Jt Hepeats tinous	Channel List	< Previous Page
40.00				-	Marker Info.
-10.00					Start Waveform
20.00					End Waveform
-20.00					0.6378 sec
-30.00					200ms Boundary
					0.8378 sec
-40.00					10s Boundary
					10.6378 sec
£50.00					Aggregates
					Burst Cnt: 2
-60.00					200ms Total:
and a standard and barrier with an alternative states and a large state	alasara last. Alaphina (Mitaka Kasta ar	and the second state of the second states	a house in all and the bar has	And the Association of the	0.000064 Sec
-70.00					Burst Cnt: 219
					0.000000 sec
-80,00					Tatal Cat. 221
					10s Total:
-90,00 10.20000 10.40000 10.60000	10.80000 11.00000 Seconds	11.20000 11.40000	11.60000 11.8	0000 12.00000	0.000064 sec
ABB File: DisTure1Du1Di1429Mon19NoPhine	Obtion 000 sig		shold: 50 dBm	20 Mm Delau dom 1 30	
Distyperewirein 420100 rondernipo	oowsps_ooo.aiq	ringger mie	shold, 1-50 dBm	SO WINDERBY PARTY	Immenia isso
The Plotting Function Com	npleted Successfully.	Play C	apture Auto	ay Capture Manual	Play

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5.3.2. 30 Minute Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions, including beacons, resume on this Channel.



Radiated - 30 Minute Non-Occupancy Period Type 1 Radar

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Measurement Uncertainty Time/Power					
Measurement uncertainty					
	- Time	4%			
	- Power	1.33dB			

Traceability

Test Equipment Used

0072, 0083, 0098, 0116, 0132, 0158, 0313, 0314, 0193, 0223, 0252, 0253, 0251, 0256, 0328, 0329

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6. PHOTOGRAPHS

6.1. Dynamic Frequency Selection – Conducted Test Set-Up



General DFS Test Setup

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Client and Access Point Test Setup



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6.2. Dynamic Frequency Selection – Radiated Test Set-Up



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Client Test Setup - Radiated



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6.3. **DFS Radar Generator & Receiver**



DFS Test Equipment

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6.4. Mobile Wireless Computer



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7. TEST EQUIPMENT DETAILS

Asset #	Instrument	Manufacturer	Part #	Serial #
0070	Power Meter	Hewlett Packard	437B	3125U11552
0104	Horn Antenna	Electro-Mechanics	3115	9205-3882
0116	Power Sensor	Hewlett Packard	8485A	3318A19694
0117	Power Sensor	Hewlett Packard	8487D	3318A00371
0184	Pulse Limiter	Rhode & Schwartz	ESH3Z2	357.8810.52
0158	Barometer /Thermometer	Control Co.	4196	E2846
0193	EMI Receiver	Rhode & Schwartz	ESI 7	838496/007
0252	SMA Cable	Megaphase	Sucoflex 104	None
0293	BNC Cable	Megaphase	1689 1GVT4	15F50B001
0307	BNC Cable	Megaphase	1689 1GVT4	15F50B002
0310	2m SMA Cable	Micro-Coax	UFA210A-0-0787- 3G03G0	209089-001
0312	3m SMA Cable	Micro-Coax	UFA210A-1-1181- 3G0300	209092-001
0313	Coupler	Hewlett Packard	86205A	3140A01285
0314	30dB N-Type Attenuator	ARRA	N9444-30	1623
0335	Horn Antenna	ETS Lindgren	3117	00066580
0359	PXI	National Instruments/Aeroflex	PXI-1042	300001/004

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