

PCTEST ENGINEERING LABORATORY, INC.

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MEASUREMENT REPORT FCC PART 15.407 DFS

Company Name:

LG Electronics MobileComm U.S.A 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 United States Date of Testing: 6/9-6/20/2014 Test Site/Location: PCTEST Lab. Columbia, MD, USA Test Report Serial No.: 0Y1406091178.ZNF

FCC ID:	ZNFLS885
COMPANY:	LG Electronics MobileComm U.S.A
Model(s):	LS885, LG-LS885, LS885
EUT Type:	Portable Handset
Type of Device:	Client Only Device, No Radar Detection Capability
Frequency Range:	5260 – 5320 MHz (UNII-2A Band)
	5500 – 5700 MHz (UNII-2C Band)
FCC Classification:	Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s):	Part 15.407(UNII)
Class II Permissive Change:	Please see FCC change document
Original Grant Date:	6/9/2014

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 06-96 Appendix B Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5.25 – 5.35 GHz and 5.47 – 5.725 GHz Bands Incorporating Dynamic Frequency Selection. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Randy Ortanez President



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DFS MEASUREMENT REPORT FCC Part 15.407



§ 2.1033 General Information

APPLICANT:	LG Electronics MobileCo	omm U.S.A		
APPLICANT ADDRESS:	1000 Sylvan Avenue			
	Englewood Cliffs, NJ 076	632, United Sta	tes	
TEST SITE:	PCTEST ENGINEERING L	ABORATORY, II	NC.	
TEST SITE ADDRESS:	7185 Oakland Mills Road, C	Columbia, MD 21	046 USA	
FCC RULE PART(S):	Part 15.407(h)			
BASE MODEL:	LS885			
FCC ID:	ZNFLS885			
Test Device Serial No.:	6JUNE-1	Production	Pre-Production	Engineering
DEVICE CLASSIFICATION:	Client Only, No Radar Dete	ection		
DATE(S) OF TEST:	6/9-6/20/2014			
TEST REPORT S/N:	0Y1406091178.ZNF			

Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.

- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
 - PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
 - PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
 - PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).



- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451B-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

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1.0 INTRODUCTION

1.1 Scope

This report has been prepared to demonstrate compliance with the requirements for Dynamic Frequency Selection (DFS) as stated in FCC 06-96. Testing was performed on the **LG Portable Handset FCC ID: ZNFLS885** in accordance with the measurement procedure described in Appendix B of FCC 06-96. As of July 20, 2007 all devices operating in the 5250 – 5350 MHz and/or the 5470 – 5725 MHz bands must comply with the DFS requirements. As the EUT does not have radar detection capability it was evaluated as a Client Only Device. All test results reported herein are applicable to the sample selected for testing. The unit used for testing was supplied by LG Electronics MobileComm U.S.A.

1.2 Evaluation Procedure

Conducted test methodology was used for the DFS evaluation procedure of the **Portable Handset**. No deviations to the test procedure and test methods occurred during the evaluation of the EUT.

1.3 Summary of Test Results

The **Portable Handset** was found to be compliant with the requirements for DFS as required for a Client Device per Part 15.407(h) and FCC 06-96. The following table lists the measured parameters. The actual data and plots can be found in Section 5 and 6 of this report.

	Parameter	Measured	Limit	Result
MHz and	Channel Move Time	615.991 ms	10 seconds	Pass
Channel Closing Transmission Time		< 200ms + 0.025 ms (aggregate)	200ms + aggregate of 60ms over remaining 10 second period	Pass
5260 - UNII -	Non-occupancy Period	Monitored > 30 minutes (No transmission occurred)	30 minutes	Pass
MHz and	Channel Move Time	640.832 ms	10 seconds	Pass
5725 I - 2C Ba	Channel Closing Transmission Time	< 200ms + 0.012 ms (aggregate)	200ms + aggregate of 60ms over remaining 10 second period	Pass
5470 – UNII –	Non-occupancy Period	Monitored > 30 minutes (No transmission occurred)	30 minutes	Pass

Table 1-1. DFS Test Results Summary

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the LG Portable Handset FCC ID: ZNFLS885.

Mode of Operation:

Master Device	
Client Device (No radar detection)	\square
Client Device with Radar Detection	

Parameters of EUT:			
Frequency	5260 – 5320 MHz 5500 – 5700 MHz		
Output Power:	21.086 mW (13.24 dBm) Conducted (802.11a UNII Band 2A) 23.605 mW (13.73 dBm) Conducted (802.11a UNII Band 2C)		
Modulation:	OFDM		
Channel Bandwidth:	20, 40 MHz		

2.2 EUT Capabilities

This device contains the following capabilities:

850/1900 CDMA (BC0, BC1, BC10), Multi-band LTE, 802.11a/b/g/n WLAN, 802.11a/n UNII, Bluetooth (1x, EDR, LE)

2.3 Modifications

No modifications to the EUT were required in order to comply with the DFS specifications.

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3.0 DESCRIPTION OF DYNAMIC FREQUENCY SELECTION TEST

3.1 Applicability

The following table from FCC 06-96 lists the applicable requirements for the DFS testing. The device evaluated in this report is considered a client device without radar detection capability.

Requirement	Operational Mode			
	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	
Uniform Spreading	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 3-1. DFS Applicability

Requirement	Operational Mo	ode	
	Client Master Without Radar Detection		Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

 Table 3-2. DFS Applicability During Normal Operation

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3.2 Requirements

Per FCC 06-96 the following are the requirements for Client Devices:

- a) A Client Device will not transmit before having received appropriate control signals from a Master Device.
- b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.
- c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.
- d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.

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 U- NII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

• For the Short Pulse Radar Test Signals this instant is the end of the Burst.

• For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.

• For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

	Table 0-0. Di o Response Requirements						
FCC ID: ZNFLS885	PCTEST	FCC Pt. 15.407 DFS TEST REPORT		Reviewed by:			
1 00 ID. 2NI 20003	ENGINEERING LABORATORY, INC.	(CLASS II PERMISSIVE CHANGE)		Quality Manager			
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3.3 DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1 and 2)			
≥ 200 milliwatt	-64 dBm			
< 200 milliwatt	-62 dBm			
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.				
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of				

the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection

3.4 Parameters of DFS Test Signals

As the EUT is a Client Device with no Radar Detection only one type radar pulse is required for the testing. Radar Pulse type 1 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time. Table 3-5 lists the parameters for the Short Pulse Radar Waveforms. A plot of the Radar Pulse Type 1 used for testing is included in Section 5.0 of this report.

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

Table 3-5: Parameters for Short Pulse Radar Waveforms

Radar Type	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 Number of Trials
5	50 - 100	5 - 20	5 – 20	1 - 3	8 - 20	60%	30

Table 3-6. Parameters for Long Pulse Radar Waveforms

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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

Table 3-7. Parameters	for Frequency	Hopping	Radar Waveforms
-----------------------	---------------	---------	------------------------

3.5 Procedure

The FCC 06-96 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup. In Band 2A, one channel selected between 5260 and 5350 MHz is chosen for the testing. In Band 2C, one channel selected between 5500 and 5700 MHz was chosen for testing.

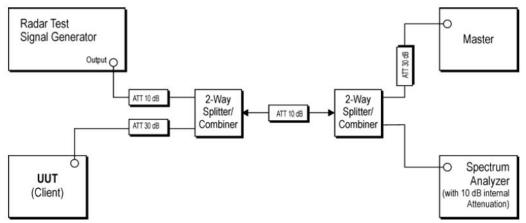


Figure 3-1. Conducted Test Setup for DFS

- 1. The "Aeroflex PXI DFS Radar Simulator and Analyzer Test Suite" is setup to provide a simulated radar pulse at the frequency that the Master and Client are operating. A Type 1 radar pulse was used.
- 2. The Client Device (EUT) is set up per the diagram in Figure 3-1 and communications between the Master device and the Client is established.
- 3. The MPEG file specified by the FCC (*"6 ½ Magic Hours"*) is streamed from the "file computer" through the Master to the Slave Device and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network.
- 4. The "Aeroflex PXI DFS Radar Simulator and Analyzer Test Suite" is set to record and display 12 seconds of time, starting from where the simulated radar is generated. This time domain plot captures any transmissions occurring up to and after 10sec. Aggregate time is also computed per FCC 06-98 to ensure compliance. (Note: the channel may be different since the Master and Client have changed channels due to the detection of the initial radar pulse.)
- 5. After the initial radar burst the channel is monitored for 30 minutes to ensure no transmissions or beacons occur. A second monitoring setup is used to verify that the Master and Client have both moved to different channels.

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4.0 TEST EQUIPMENT

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4448A	PSA (3Hz-50GHz) Spectrum Analyzer	4/16/2014	Annual	4/16/2015	US42510244
Agilent	E8267C	Vector Signal Generator	10/31/2013	Biennial	10/31/2015	US42340152
Aeroflex	PXI 82531	PXI DFS Radar Simulator & Analyzer	12/20/2013	Annual	12/20/2014	1082329

Table 4-1. Annual Test Equipment Calibration Schedule

4.1 Additional Equipment

The following equipment was used in support of the DFS testing.

Device	Manufacturer	Model/Description	Description	S/N:	FCC ID:
Master	Cisco Systems	Aironet AIR- AP1242AG-A-K9	Access Point	FTX1114B151	LDK102056

 Table 4-2. Support Equipment

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5.0 TEST RESULTS

Move Time and Aggregate Time Notes:

- 1. Trigger Threshold was configured to only capture client pulses. The pulses shown in the plots below have been determined to be from the Master AP.
- 2. Marker Info and Aggregate time results are shown on the right side of the plots below.

File Configure Help RF Settings RF Frequency: 5,280.000000 拱 M			DUT Peak Output Level:		Start Waveform Generator
• • • • • • • • • • •	VSG Path Loss/Gain:	43.00 🕂 dB	VSA Path Loss:	43.00 🕂 dB	Capture Screen
Capture Waveform Measurement / Analy:	· · ·	splay Settings	Captured	lufe	Marker Info
Threshold I		· · · _		e Duration: 12 Sec	Start Waveform
External Trig (I/O): T1 (out) T Pre-Tr					0 Sec
Fie-II	igger. 500 - Ins				
	Pow	ver vs Time			End Waveform 0.025706 Sec
40					200ms Boundary
20	'Tes	st Status : Pas			0.225706 Sec
20					10s Boundary
		Trigger Threshold			10.025705 Sec
dBr					Channel Move Time
(ugp) -20					0.615991 Sec
a40					
					Aggregates
-60					Burst Qty: 21 200ms Total
					0.000233
-80					Burst Qty: 16
0					9.8s Total
		Time (sec)			0.000025
					Burst Qty: 37
C:\DFS\FCC\Type 1\FCC Type 1 - 1us w				Select ARB File	10s Total
Sec) 0.000 Channel Move 12	Auto Prepare			Save Data	0.000258
Configure Hardware Booted	Status: Test Completed!			Locked	Save and Exit

Figure 5-1. Band 2A Move Time and Aggregate Time

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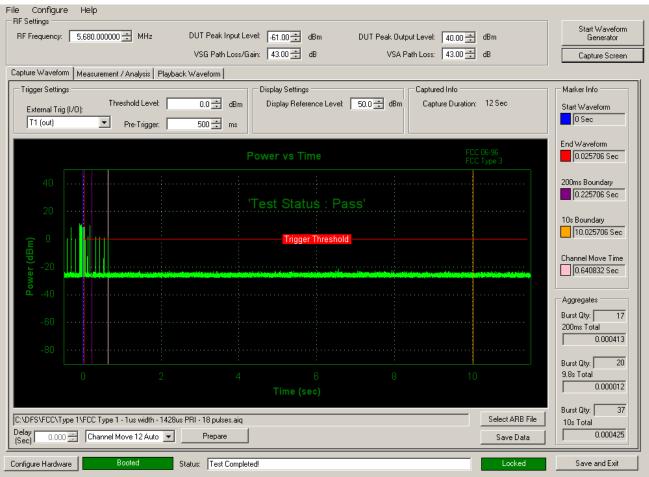


Figure 5-2. Band 2C Move Time and Aggregate Time

FCC ID: ZNFLS885		FCC Pt. 15.407 DFS TEST REPORT (CLASS II PERMISSIVE CHANGE)	Reviewed by: Quality Manager
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# Agilent 17:28:	47			Freq/Channel
Ref 20 dBm #Peak	Atten 30 dl	3		Center Freq 5.28000000 GHz
Log 10 dB/				Start Freq 5.28000000 GHz
				Stop Freq 5.28000000 GHz
#PAvg				CF Step 1.00000000 MHz <u>Auto</u> Mar
M1 S2 S3 FS AA	oter and the state of the state	nan manaka ara ing kara s	en e	Freq Offset
£ (f):				On Off
Center 5.280 000 Res BW 1 MHz		#VBW 3 MHz	Sp: Sweep 1.8 ks (815	an 0 Hzî 92 pts)
Copyright 2000-				

Figure 5-3. Band 2A Non-occupancy Period - Monitoring live spectrum - Elapse time 30 minutes

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🔆 Agilent 18:20	:06						Freq/Channel
Ref 20 dBm #Peak	Atten	30 dB					Center Freq 5.68000000 GHz
Log 10 dB/							Start Freq 5.68000000 GHz
							Stop Freq 5.68000000 GHz
#PAvg							CF Step 1.0000000 MHz <u>Auto</u> Man
M1 S2 S3 FS AA	a si fan dhi gu dhau ba	- della sud distant subgr	a de la la companya da de d				FreqOffset 0.00000000 Hz
£(f): FTun							Signal Track On <u>Off</u>
Center 5.680 00 Res BW 1 MHz	0 GHz	#VBW 3	MHz	Sweep	Sp 1.8 ks (81)	an 0 Hz^ 92 pts)	
Copyright 2000		ilent Techno	logies	ite nine ni line		Elemen	time 20 minutes

Figure 5-4. Band 2C Non-occupancy Period - Monitoring live spectrum - Elapse time 30 minutes

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6.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the LG Portable Handset FCC ID: ZNFLS885 is in compliance with the DFS requirements for a Client Device without radar detection in accordance with Part 15.407 of the FCC Rules.

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