

PCTEST ENGINEERING LABORATORY, INC.

7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. 410.290.6652 / Fax 410.290.6654 http://www.pctestlab.com



MEASUREMENT REPORT FCC Part 15.247 WLAN 802.11

Applicant Name:

LG Electronics MobileComm U.S.A 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 United States

Date of Testing:

Jan 19 - Feb 06, 2015 Test Site/Location: PCTEST Lab, Columbia, MD, USA Test Report Serial No.: 0Y1501210204.ZNF

FCC ID:	ZNFUS995
APPLICANT:	LG Electronics MobileComm U.S.A
Application Type:	Class II Permissive Change
Model(s):	LG-US995, US995, LGUS995, LG-AS995, LGAS995, AS995
EUT Type:	Portable Handset
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15.247
Test Procedure(s):	KDB 558074 v03r02
Class II Permissive Change:	Please see FCC change document
Original Grant Date:	January 08, 2015

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 KDB 558074 v03r02. 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



FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 1 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 1 of 25
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TABLE OF CONTENTS

FCC	PART	15.247 MEASUREMENT REPORT	3
1.0	INTR	ODUCTION	4
	1.1	SCOPE	4
	1.2	PCTEST TEST LOCATION	4
2.0	PRO	DUCT INFORMATION	5
	2.1	EQUIPMENT DESCRIPTION	5
	2.2	DEVICE CAPABILITIES	5
	2.3	TEST CONFIGURATION	5
	2.4	EMI SUPPRESSION DEVICE(S)/MODIFICATIONS	5
3.0	DES	CRIPTION OF TEST	6
	3.1	EVALUATION PROCEDURE	6
	3.2	RADIATED EMISSIONS	6
	3.3	ENVIRONMENTAL CONDITIONS	6
4.0	ANTI	ENNA REQUIREMENTS	7
5.0	TES	FEQUIPMENT CALIBRATION DATA	8
6.0	TES	r Results	9
	6.1	SUMMARY	9
	6.2	RADIATED SPURIOUS EMISSION MEASUREMENTS – ABOVE 1 GHZ	10
		6.2.1 RADIATED SPURIOUS EMISSION MEASUREMENTS	13
		6.2.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS	18
	6.3	RADIATED SPURIOUS EMISSIONS MEASUREMENTS – BELOW 1GHZ & ABOVE 18GHZ	22
7.0	CON	CLUSION	25

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 2 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 2 of 25
© 2015 PCTEST Engineering L	2015 PCTEST Engineering Laboratory, Inc.			





MEASUREMENT REPORT FCC Part 15.247



§ 2.1033 General Information

APPLICANT:	LG Electronics MobileComm U.S.A			
APPLICANT ADDRESS:	1000 Sylvan Avenue			
	Englewood Cliffs, NJ 0	7632, United Sta	ates	
TEST SITE:	PCTEST ENGINEERI	NG LABORATOF	RY, INC.	
TEST SITE ADDRESS:	7185 Oakland Mills Road, Columbia, MD 21046 USA			
FCC RULE PART(S):	Part 15.247			
BASE MODEL:	LG-US995			
FCC ID:	ZNFUS995			
FCC CLASSIFICATION:	Digital Transmission System (DTS)			
Test Device Serial No.:	1LYFE	Production	Pre-Production	Engineering
DATE(S) OF TEST:	Jan 19 - Feb 06, 2015			
TEST REPORT S/N:	0Y1501210204.ZNF			

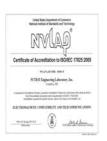
Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, 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.

FCC ID: ZNFUS995				Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 2 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 3 of 25
2015 PCTEST Engineering Laboratory, Inc.				





1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Internt'I (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on February 15, 2012.

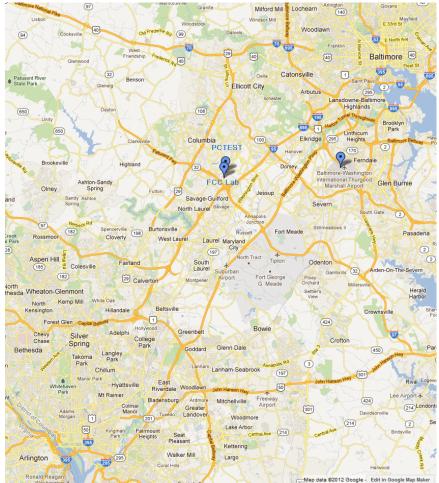


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 4 of 25	
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 4 of 25	
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2.0 **PRODUCT INFORMATION**

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFUS995**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO, Multi-band LTE, 802.11 b/g/n/ac WLAN, 802.11 a/n/ac UNII, Bluetooth (1x, EDR, LE), NFC

Note: The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 v03r02. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100.

Data Rates Supported: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b) 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (g) 6.5/7.2Mbps, 13/14.4Mbps, 19.5/21.7Mbps, 26/28.9Mbps, 39/43.3Mbps, 52/57.8Mbps, 58.5/65Mbps, 65/72.2Mbps (n)

2.3 Test Configuration

The LG Portable Handset FCC ID: ZNFUS995 was tested per the guidance of KDB 558074 v03r02. ANSI C63.10-2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing. See Section 3.2 for radiated emissions test setups

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:		Daga E of 25		
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 5 of 25		
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DESCRIPTION OF TEST 3.0

3.1 **Evaluation Procedure**

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009), and the guidance provided in KDB 558074 v03r02 were used in the measurement of the LG Portable Handset FCC ID: ZNFUS995.

Deviation from measurement procedure.....None

3.2 **Radiated Emissions**

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semianechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Clause 5, Figure 5.7 of ANSI C63.4-2009. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A 3/4" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.3 **Environmental Conditions**

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 6 of 25	
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 6 of 25	
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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antennas of the Portable Handset are **permanently attached**.
- There are no provisions for connections to an external antenna.

Conclusion:

The LG Portable Handset FCC ID: ZNFUS995 unit complies with the requirement of §15.203.

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

Table 4-1. Frequency/ Channel Operations

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 7 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 7 of 25
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5.0 TEST EQUIPMENT CALIBRATION DATA

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
-	RE3	Radiated Emissions Cable Set	10/17/2014	Annual	10/17/2015	N/A
Agilent	8447D	Broadband Amplifier	6/2/2014	Annual	6/2/2015	1937A03348
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	5/11/2014	Annual	5/11/2015	3008A00985
Agilent	N9030A	PXA Signal Analyzer (26.5GHz)	5/8/2014	Annual	5/8/2015	MY49432391
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	6/26/2013	Biennial	6/26/2015	121034
K & L	11SH10-3075/U18000	High Pass Filter	12/1/2014	Annual	12/1/2015	2
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
Solar Electronics	8012-50-R-24-BNC	Line Impedance Stabilization Network	6/20/2013	Biennial	6/20/2015	310233
Sunol	DRH-118	Horn Antenna (1 - 18GHz)	6/19/2013	Biennial	6/19/2015	A050307
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107
VWR	62344-734	Thermometer with Clock	2/20/2014	Biennial	2/20/2016	140140336

 Table 5-1. Annual Test Equipment Calibration Schedule

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 9 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 8 of 25
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6.0 TEST RESULTS

6.1 Summary

Company Name:	LG Electronics MobileComm U.S.A
FCC ID:	ZNFUS995
FCC Classification:	Digital Transmission System (DTS)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER	MODE (TX)				
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	RADIATED	PASS	Sections 6.2, 6.3
Table 6-1. Summary of Test Results					

Notes:

1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 0 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 9 of 25
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6.2 Radiated Spurious Emission Measurements – Above 1 GHz §15.247(d) §15.205 & §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Error! Reference source not found. per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 6-2. Radiated Limits

Test Procedures Used

KDB 558074 v03r02 - Section 12.1, 12.2.7

Test Settings

Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 v03r02

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 v03r02

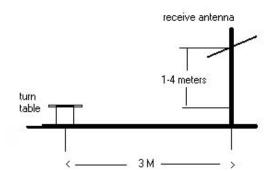
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 10 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 10 of 25
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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



3 Meter EMC Chamber

Figure 6-1. Test Instrument & Measurement Setup

Test Notes

- 1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 v03r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. Radiated spurious emissions pre-scan plots are also reported at the beginning of the next section. The plots apply the appropriate system corrections, however, they do not show the fully maximized spectrum. The plots are only included for the purposes of identifying spurious emissions requiring further investigation. Rohde & Schwarz EMC32, Version 9.15.00 automated test software was used to perform the Radiated Spurious Emissions Pre-Scan testing.

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 11 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 11 of 25
© 2015 PCTEST Engineering Laboratory. Inc. V 2.0				



Sample Calculations

Determining Spurious Emissions Levels

- ο Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- $\circ \quad \text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

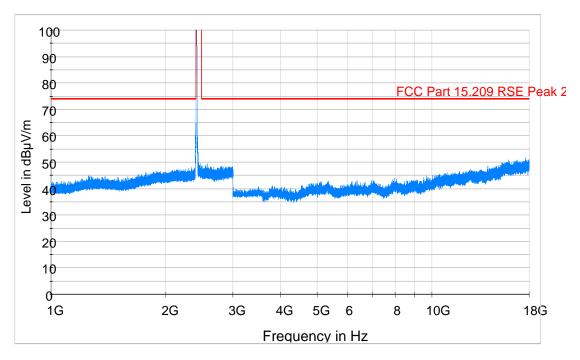
The amplitude offset shown in the radiated restricted band edge plots in Section 6.8 was calculated using the formula:
 Offset (JD) - (Astrono Section 2.4) - December 10. JD Attended to 2.4.

Offset (dB) = (Antenna Factor + Cable Loss + 10 dB Attenuator) - Preamplifier Gain

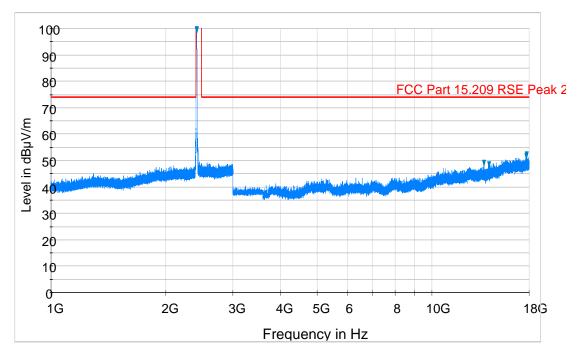
FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 10 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 12 of 25
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6.2.1 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209



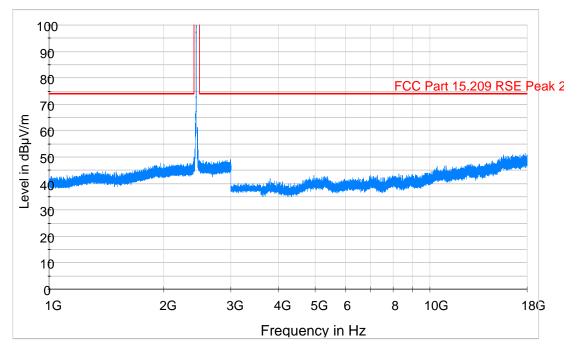
Plot 6-1. Radiated Spurious Plot above 1GHz (802.11b – Ch. 1, Ant. Pol. H)



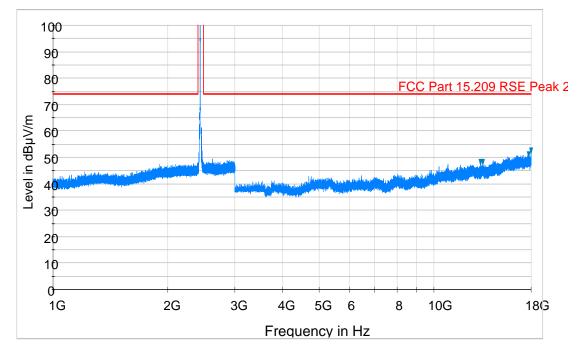


FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 12 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 13 of 25
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Plot 6-3. Radiated Spurious Plot above 1GHz (802.11b - Ch. 6, Ant. Pol. H)

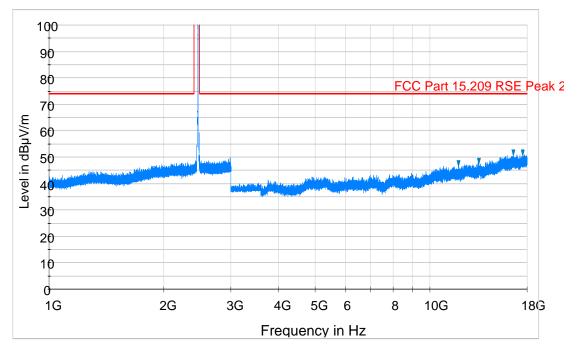


Plot 6-4. Radiated Spurious Plot above 1GHz (802.11b - Ch. 6, Ant. Pol. V)

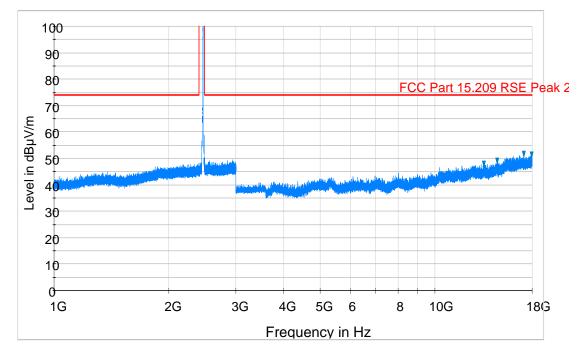
FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 14 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 14 of 25
© 2015 PCTEST Engineering Laboratory, Inc.			V 2.0	

01/16/2015





Plot 6-5. Radiated Spurious Plot above 1GHz (802.11b - Ch. 11, Ant. Pol. H)



Plot 6-6. Radiated Spurious Plot above 1GHz (802.11b - Ch. 11, Ant. Pol. V)

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 15 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 15 of 25
© 2015 PCTEST Engineering Laboratory, Inc.			V 2.0	



Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	-115.26	Avg	Н	40.40	0.00	32.14	53.98	-21.84
4824.00	-102.56	Peak	Н	40.40	0.00	44.84	73.98	-29.14
12060.00	-117.25	Avg	Н	46.60	0.00	36.35	53.98	-17.63
12060.00	-105.20	Peak	Н	46.60	0.00	48.40	73.98	-25.58

Table 6-3. Radiated Measurements

Worst Case Mode:	802.11b	
Worst Case Transfer Rate:	1 Mbps	
Distance of Measurements:	3 Meters	
Operating Frequency:	2437MHz	
Channel:	06	

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	-115.33	Avg	Н	40.44	0.00	32.11	53.98	-21.87
4874.00	-102.69	Peak	Н	40.44	0.00	44.75	73.98	-29.23
7311.00	-116.45	Avg	Н	42.87	0.00	33.43	53.98	-20.55
7311.00	-104.35	Peak	Н	42.87	0.00	45.53	73.98	-28.45
12185.00	-116.93	Avg	Н	46.67	0.00	36.74	53.98	-17.24
12185.00	-104.75	Peak	Н	46.67	0.00	48.92	73.98	-25.06

Table 6-4. Radiated Measurements

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 16 of 25	
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 16 of 25	
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Worst Case Mode:	802.11b		
Worst Case Transfer Rate:	1 Mbps		
Distance of Measurements:	3 Meters		
Operating Frequency:	2462MHz		
Channel:	11		

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	-115.15	Avg	Н	40.48	0.00	32.33	53.98	-21.65
4924.00	-103.53	Peak	Н	40.48	0.00	43.95	73.98	-30.03
7386.00	-116.56	Avg	Н	42.88	0.00	33.32	53.98	-20.66
7386.00	-105.02	Peak	Н	42.88	0.00	44.86	73.98	-29.12
12310.00	-117.49	Avg	Н	46.75	0.00	36.26	53.98	-17.71
12310.00	-105.63	Peak	Н	46.75	0.00	48.12	73.98	-25.85

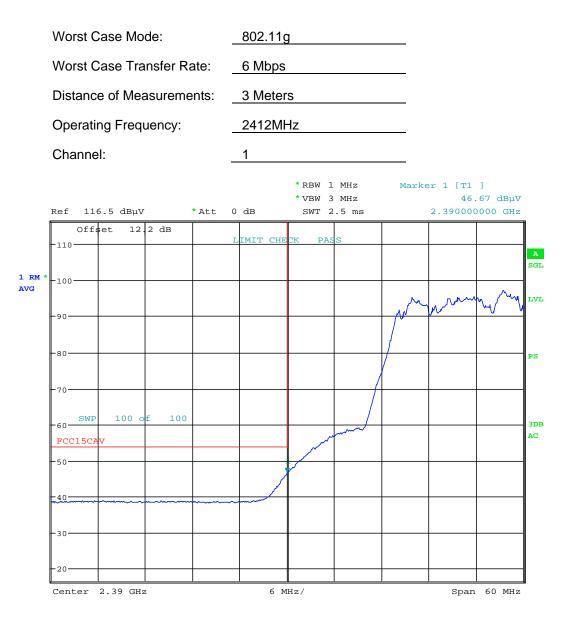
Table 6-5. Radiated Measurements

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 17 of 25	
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 17 of 25	
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6.2.2 Radiated Restricted Band Edge Measurements §15.205 §15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.



Date: 19.JAN.2015 20:01:02

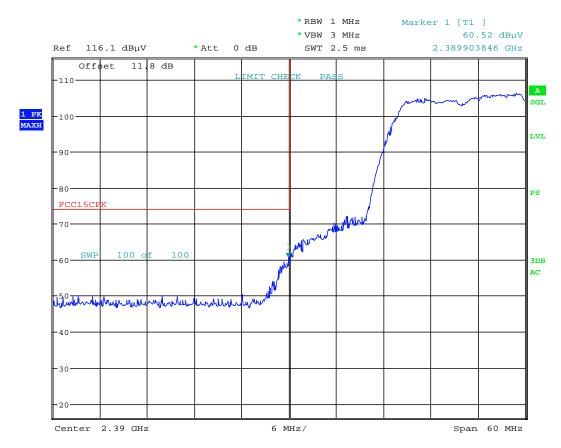


FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 19 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 18 of 25
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01/16/2015



Radiated Restricted Band Edge Measurements §15.205 §15.209



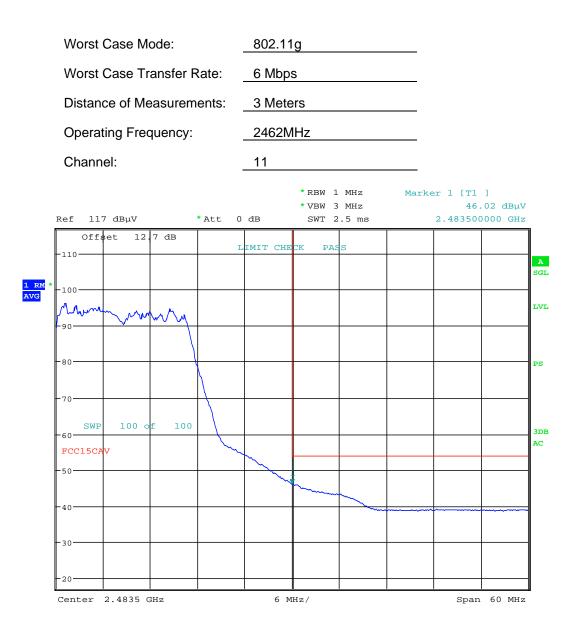
Date: 19.JAN.2015 20:01:35

Plot 6-8. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 10 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 19 of 25
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Radiated Restricted Band Edge Measurements §15.205 §15.209



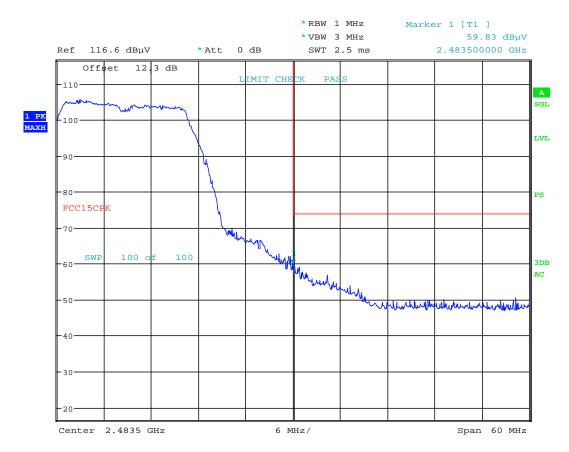
Date: 19.JAN.2015 19:53:46

Plot 6-9. Radiated Restricted Upper Band Edge Measurement (Average)

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 20 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 20 of 25
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Radiated Restricted Band Edge Measurements §15.205 §15.209



Date: 19.JAN.2015 19:54:38

Plot 6-10. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 21 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 21 of 25
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6.3 Radiated Spurious Emissions Measurements – Below 1GHz & Above 18GHz §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Error! Reference source not found. per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 6-6. Radiated Limits

Test Procedures Used

ANSI C63.4-2009

Test Settings

Quasi-Peak Field Strength Measurements

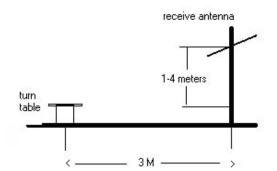
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 22 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 22 01 25
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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



3 Meter EMC Chamber

Figure 6-2. Test Instrument & Measurement Setup

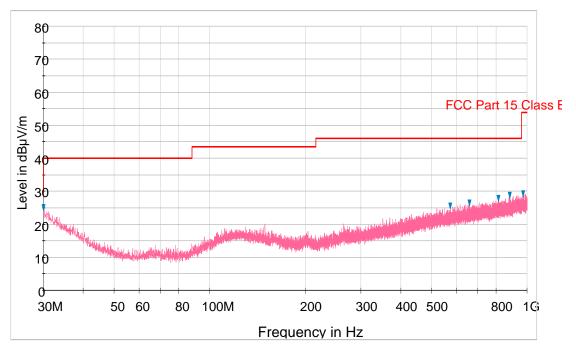
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. Since radiated spurious emissions levels in pre-scan plots above 18GHz were not within 20dB of the corresponding limit, additional measurements were not performed for these frequencies.
- 9. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.

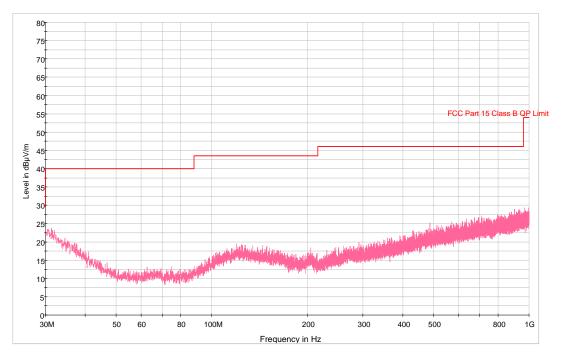
FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 22 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 23 of 25
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Plot 6-11. Radiated Spurious Plot below 1GHz (Pol. H)





FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 24 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 24 of 25
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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the LG Portable Handset FCC ID: ZNFUS995 is in compliance with Part 15C of the FCC Rules.

FCC ID: ZNFUS995		FCC Pt. 15.247 802.11 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 25 of 25
0Y1501210204.ZNF	Jan 19 - Feb 06, 2015	Portable Handset		Page 25 of 25
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