



PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA
Tel. 410.290.6652 / Fax 410.290.6654
http://www.pctestlab.com



MEASUREMENT REPORT FCC PART 15.407 / IC RSS-210 802.11a/n (UNII)

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

Date of Testing:
January 17 - 22, 2013
Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Test Report Serial No.:
0Y1301150083.ZNF

FCC ID:	ZNFVS870
APPLICANT:	LG Electronics MobileComm U.S.A

Application Type: Class II Permissive Change
Model(s): VS870, LG-VS870, LGVS870, LG-AS870, LGAS870, AS870
EUT Type: Portable Handset
FCC Classification: Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s): Part 15.407
IC Specification(s): RSS-210 Issue 8
Test Procedure(s): ANSI C63.10-2009, KDB 789033 v01r02
Class II Permissive Change: Please see FCC change documents.
Original Grant Date: January 22, 2013

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 ANSI C63.10-2009 and KDB 789033. 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: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 1 of 29

TABLE OF CONTENTS

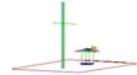
FCC PART 15.407 MEASUREMENT REPORT.....		3
1.0 INTRODUCTION.....		4
1.1 SCOPE.....		4
1.2 PCTEST TEST LOCATION.....		4
2.0 PRODUCT INFORMATION.....		5
2.1 EQUIPMENT DESCRIPTION.....		5
2.2 DEVICE CAPABILITIES.....		5
2.3 TEST CONFIGURATION.....		5
2.4 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS.....		5
2.5 LABELING REQUIREMENTS.....		5
3.0 DESCRIPTION OF TEST.....		6
3.1 EVALUATION PROCEDURE.....		6
3.2 RADIATED EMISSIONS.....		7
4.0 ANTENNA REQUIREMENTS.....		8
5.0 TEST EQUIPMENT CALIBRATION DATA.....		9
6.0 TEST RESULTS.....		10
6.1 SUMMARY.....		10
6.2 RADIATED SPURIOUS EMISSION MEASUREMENTS.....		11
6.3 RADIATED BAND EDGE MEASUREMENTS (20MHZ BW).....		23
6.4 RADIATED BAND EDGE MEASUREMENTS (40MHZ BW).....		26
7.0 CONCLUSION.....		29

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 2 of 29	



MEASUREMENT REPORT

FCC Part 15.407



§ 2.1033 General Information

APPLICANT: LG Electronics MobileComm U.S.A

APPLICANT ADDRESS: 1000 Sylvan Avenue
Englewood Cliffs, NJ 07632, United States

TEST SITE: PCTEST ENGINEERING LABORATORY, INC.

TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA

FCC RULE PART(S): Part 15.407

IC SPECIFICATION(S): RSS-210 Issue 8

MODEL NAME: VS870

FCC ID: ZNFVS870

Test Device Serial No.: N/A Production Pre-Production Engineering

FCC CLASSIFICATION: Unlicensed National Information Infrastructure (UNII)

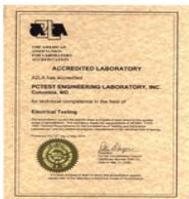
DATE(S) OF TEST: January 17 - 22, 2013

TEST REPORT S/N: 0Y1301150083.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. 90864) 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 (2451A-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 (2451A-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: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 3 of 29

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 Intern'tl (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 in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. 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 January 10, 2012.

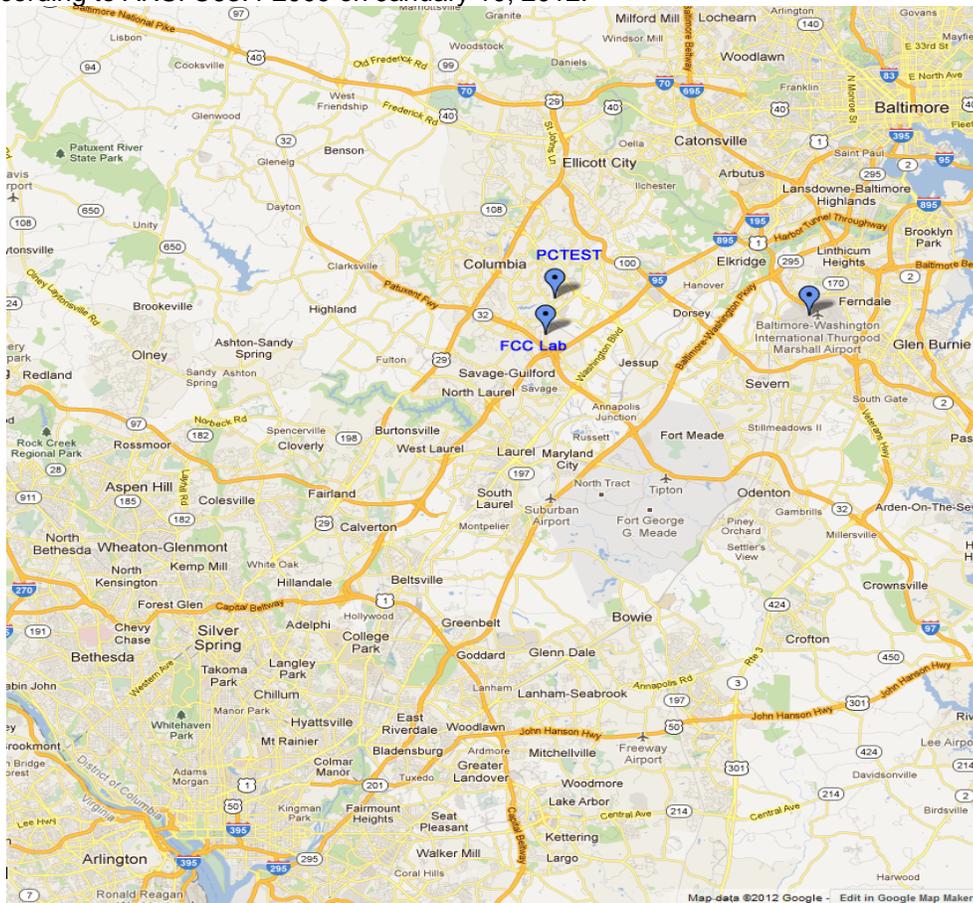


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 4 of 29

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFVS870**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO Rev0/A (BC0, BC1), Band 13 LTE, 802.11a/b/g/n WLAN (DTS/NII), Bluetooth (1x,EDR,LE)

Note: 5GHz 802.11n transmission in this device supports 20MHz and 40MHz channel bandwidths.

2.3 Test Configuration

The LG Portable Handset FCC ID: ZNFVS870 was tested per the guidance of ANSI C63.10-2009 and KDB 789033. See Section 6.2 of this test report for a description of the radiated emissions test setup.

2.4 EMI Suppression Device(s)/Modifications

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

2.5 Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5).

Please see attachment for FCC ID label and label location.

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 5 of 29

3.0 DESCRIPTION OF TEST

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 789033 were used in the measurement of **LG Portable Handset FCC ID: ZNFVS870**.

Deviation from measurement procedure.....None

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 6 of 29

3.2 Radiated Emissions

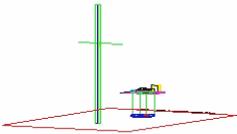


Figure 3-1. 3-Meter Test Site

The radiated test facilities consisted of an indoor semi-anechoic chamber used for exploratory measurements and an open area test site (OATS) used for final measurements. 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 higher than the upper frequency range of the broadband antenna used for testing, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used.

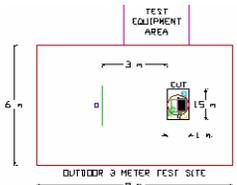


Figure 3-2. Dimensions of Outdoor Test Site

Exploratory measurements were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies 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 a 0.8 meter high non-metallic 1 x 1.5 meter table (see Figure 3-3). 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, turntable azimuth, and receive antenna height was noted for each frequency found. To record the exploratory measurements, the analyzers' detector function was set to peak mode and the bandwidth was set to 100kHz.

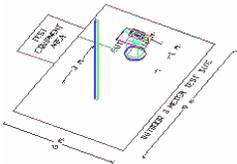


Figure 3-3. Turntable and System Setup

Final measurements were made on the OATS at 3 meter test range using calibrated, linearly polarized broadband or horn antennas (see Figure 3-1). The measurement area is situated on an 18 meter x 20 meter galvanized 1/2" hardware cloth as the conducting ground plane. This material is sewn together in sections 4 feet wide and 60 feet long. A total of eighteen sections are required to cover the entire measurement area. Sections are laid across the width of the pad, overlapped 1" and sewn and soldered together at intervals of 3" (7.6 cm.) The terrain of the test site is reasonably flat and level. Power and cable to the test site are buried 18" deep into the ground outside the perimeter of the site. An all-weather non-metallic housing is situated on a 2 x 3 meter area adjacent to the measurement area to house the test equipment (see Figure 3-2). The test set-up was again placed on top of the same a 0.8 meter high non-metallic 1 x 1.5 meter table on the OATS as used for exploratory measurements in the indoor chamber. The test set-up was re-configured to the same setup that was previously determined through exploratory measurements to have produced the worst case emissions. The spectrum analyzer was set to the frequencies found to have caused the highest radiated disturbances with respect to the limit during preliminary radiated measurements. The turntable containing the system 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 re-maximized by varying: the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment, powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable, and changing the polarity of the receive antenna, whichever produced the worst-case emissions. To record the final measurements, the analyzer detector function was set to CISPR quasi-peak mode and the bandwidth of the spectrum analyzer was set to 100kHz for frequencies below 1GHz or 1MHz for frequencies above 1GHz. For average measurements above 1GHz, the analyzer was set to peak detector with a reduced VBW setting (RBW = 1MHz, VBW = 10Hz). Each emission reported was calibrated using a signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3-4.

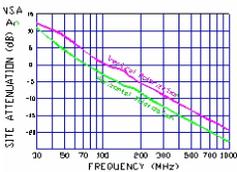


Figure 3-4. Normalized Site Attenuation Curves (H&V)

FCC ID: ZNFVS870	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 7 of 29

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 connection to an external antenna.

Conclusion:

The **LG Portable Handset FCC ID: ZNFVS870** unit complies with the requirement of §15.203.

Band 1		Band 2		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500
:	:	:	:	:	:
42	5210	56	5280	116	5580
:	:	:	:	:	:
48	5240	64	5320	140	5700

Table 4-1. 802.11a Frequency / Channel Operations

Band 1		Band 2		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500
:	:	:	:	:	:
42	5210	56	5280	116	5580
:	:	:	:	:	:
48	5240	64	5320	140	5700

Table 4-2. 802.11n (20MHz BW) Frequency / Channel Operations

Band 1		Band 2		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510
:	:	:	:	:	:
46	5230	62	5310	110	5550
:	:	:	:	:	:
				134	5670

Table 4-3. 802.11n (40MHz BW) Frequency / Channel Operations

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
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	7/10/2012	Annual	7/10/2013	N/A
-	WL25-1	Conducted WLAN Cable Set (25GHz)	2/13/2012	Annual	2/13/2013	N/A
-	RE2	Radiated Emissions Cable Set (VHF/UHF)	2/13/2012	Annual	2/13/2013	N/A
-	40G-1R	40GHz Radiated Cable Set	2/23/2012	Annual	2/23/2013	N/A
-	WL40-1	Conducted WLAN Cable Set (40GHz)	2/24/2012	Annual	2/24/2013	N/A
Agilent	8447D	Broadband Amplifier	5/8/2012	Annual	5/8/2013	2443A01900
Agilent	E4448A	PSA (3Hz-50GHz) Spectrum Analyzer	2/15/2012	Annual	2/15/2013	US42510244
Agilent	N9030A	PXA Signal Analyzer	2/23/2012	Annual	2/23/2013	MY49432391
Anritsu	MA2411B	Power Sensor	3/5/2012	Annual	3/5/2013	846215
Anritsu	ML2495A	Power Meter	10/13/2012	Annual	10/13/2013	1039008
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	7/22/2011	Biennial	7/22/2013	125518
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	5/30/2012	Annual	5/30/2013	135427
ETS Lindgren	3160-10	26.5 - 40 GHz Standard Gain Horn	6/6/2012	Biennial	6/6/2014	130993
Mini-Circuits	VHF-3100+	High Pass Filter	1/15/2012	Annual	1/15/2014	30841
Mini-Circuits	VHF-3100+	High Pass Filter	2/7/2012	Annual	2/7/2013	31144
Mini-Circuits	VHF-8400+	3.4GHz - 9.9GHz High Pass Filter	2/28/2012	Annual	2/28/2013	31048
Rohde & Schwarz	RS-PR18	1-18 GHz Pre-Amplifier	6/26/2012	Annual	6/26/2013	100071
Rohde & Schwarz	RS-PR26	18-26.5 GHz Pre-Amplifier	5/30/2012	Annual	5/30/2013	100040
Rohde & Schwarz	RS-PR40	26.5-40GHz Pre-Amplifier	6/6/2012	Annual	6/6/2013	100037
Rohde & Schwarz	ESU26	EMI Test Receiver	12/15/2012	Annual	1/15/2014	100342
Solar Electronics	8012-50-R-24-BNC	LISN	6/23/2011	Biennial	6/23/2013	310233
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/26/2012	Biennial	1/26/2014	A051107

Table 5-1. Annual Test Equipment Calibration Schedule

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 9 of 29	

6.0 TEST RESULTS

6.1 Summary

Company Name: LG Electronics MobileComm U.S.A
 FCC ID: ZNFVS870
 Method/System: Unlicensed National Information Infrastructure (UNII)
 Data Rate(s) Tested: 6, 9, 12, 18, 24, 36, 48, 54Mbps (802.11a)
6.5/7.2, 13/14.4, 19.5/21.7, 26/28.9, 39/43.3, 52/57.8, 58.5/65, 65/72.2 (n – 20MHz)
13.5/15, 27/30, 40.5/45, 54/60, 81/90, 108/120, 121.5/135, 135/150 (n – 40MHz BW)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)						
15.407(b)(1), (2),(3)	RSS-210 [A9.2]	Undesirable Emissions	< -27 dBm/MHz EIRP (5150-5350MHz, 5470-5725MHz)	RADIATED	PASS	Section 6.2
15.205, 15.407(b)(1), (5), (6)	RSS-Gen [7.2.3.2]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-210 table 3 limits)		PASS	Section 6.3, 6.4

Table 6-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 10 of 29	

6.2 Radiated Spurious Emission Measurements

§15.407(b)(1), (6), §15.205, §15.209; RSS-210 [A9.2]

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 its maximum power control level, as defined in KDB 789033, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW) and 802.11n (40MHz BW)), and modulations/data rates were investigated among all UNII bands. 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 Table 6-2 per Section 15.209.

Frequency	Field Strength [μ V/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 6-2. Radiated Limits

Test Procedures Used

ANSI C63.10-2009

KDB 789033 v01r02 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

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 couple
7. Trace was averaged over 100 sweeps

FCC ID: ZNFVS870	 PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	 LG	Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 11 of 29	

Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

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

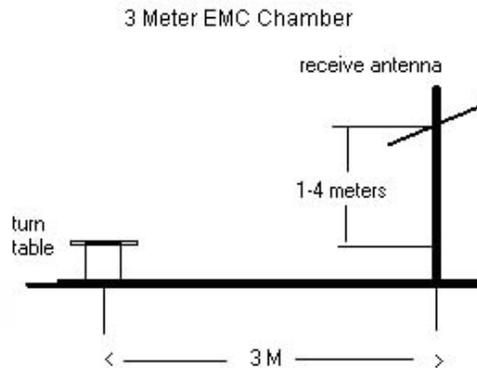


Figure 6-1. Test Instrument & Measurement Setup

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 12 of 29	

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 789033 v01r02 were not used to evaluate this device.
2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged 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. Average levels at -135dBm and peak levels at -125dBm represent the analyzer noise floor and signify that no emission was detected.

Sample Calculations

Determining Spurious Emissions Levels

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

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:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + 10 \text{ dB Attenuator}) - \text{Pre-amplifier Gain}$$

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 13 of 29	

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-94.72	Peak	H	55.55	-9.54	58.29	68.20	-9.91
* 15540.00	-135.00	Average	H	58.12	0.00	30.12	53.98	-23.86
* 15540.00	-125.00	Peak	H	58.12	0.00	40.12	73.98	-33.86
* 20720.00	-135.00	Average	H	44.02	0.00	32.23	53.98	-21.75
* 20720.00	-125.00	Peak	H	44.02	0.00	43.58	73.98	-30.40
25900.00	-125.00	Peak	H	44.85	0.00	26.85	68.20	-41.35

Table 6-3. Radiated Measurements

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5200MHz

Channel: 40

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	-94.81	Peak	H	55.81	-9.54	58.46	68.20	-9.74
* 15600.00	-135.00	Average	H	58.08	0.00	30.08	53.98	-23.90
* 15600.00	-125.00	Peak	H	58.08	0.00	40.08	73.98	-33.90
* 20800.00	-135.00	Average	H	44.00	0.00	34.56	53.98	-19.42
* 20800.00	-125.00	Peak	H	44.00	0.00	43.92	73.98	-30.06
26000.00	-125.00	Peak	H	44.88	0.00	26.88	68.20	-41.32

Table 6-4. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 15 of 29

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5240MHz

Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10480.00	-94.60	Peak	H	56.33	-9.54	59.20	68.20	-9.00
* 15720.00	-135.00	Average	H	57.92	0.00	29.92	53.98	-24.06
* 15720.00	-125.00	Peak	H	57.92	0.00	39.92	73.98	-34.06
* 20960.00	-135.00	Average	H	43.99	0.00	34.38	53.98	-19.60
20960.00	-125.00	Peak	H	43.99	0.00	42.46	73.98	-31.52
26200.00	-125.00	Peak	H	44.82	0.00	26.82	68.20	-41.38

Table 6-5. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 16 of 29

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5260MHz

Channel: 52

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-94.93	Peak	H	56.72	-9.54	59.24	68.20	-8.96
* 15780.00	-135.00	Average	H	57.75	0.00	29.75	53.98	-24.23
* 15780.00	-125.00	Peak	H	57.75	0.00	39.75	73.98	-34.23
* 21040.00	-135.00	Average	H	44.37	0.00	37.32	53.98	-16.66
* 21040.00	-125.00	Peak	H	44.37	0.00	45.37	73.98	-28.61
26300.00	-125.00	Peak	H	30.72	0.00	12.72	68.20	-55.48

Table 6-6. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 17 of 29

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5280MHz

Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	-94.48	Peak	H	57.21	-9.54	60.19	68.20	-8.01
* 15840.00	-135.00	Average	H	57.68	0.00	29.68	53.98	-24.30
* 15840.00	-125.00	Peak	H	57.68	0.00	39.68	73.98	-34.30
* 21120.00	-135.00	Average	H	44.13	0.00	38.26	53.98	-15.72
* 21120.00	-125.00	Peak	H	44.13	0.00	45.89	73.98	-28.09
26400.00	-125.00	Peak	H	30.49	0.00	12.49	68.20	-55.71

Table 6-7. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 18 of 29

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5320MHz

Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-105.72	Average	H	58.20	-9.54	49.93	53.98	-4.04
* 10640.00	-93.88	Peak	H	58.20	-9.54	61.77	73.98	-12.20
* 15960.00	-135.00	Average	H	57.67	0.00	29.67	53.98	-24.31
* 15960.00	-125.00	Peak	H	57.67	0.00	39.67	73.98	-34.31
* 21280.00	-135.00	Average	H	43.67	0.00	37.43	53.98	-16.55
* 21280.00	-125.00	Peak	H	43.67	0.00	45.08	73.98	-28.90
* 26600.00	-125.00	Peak	H	30.03	0.00	12.03	68.20	-56.17

Table 6-8. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 19 of 29

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5500MHz

Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-108.25	Average	H	63.56	-9.54	52.77	53.98	-1.21
* 11000.00	-95.76	Peak	H	63.56	-9.54	65.26	73.98	-8.72
16500.00	-125.00	Peak	H	57.95	0.00	39.95	68.20	-28.25
22000.00	-125.00	Peak	H	41.64	0.00	41.74	68.20	-26.46
27500.00	-125.00	Peak	H	27.99	0.00	9.99	68.20	-58.21

Table 6-9. Radiated Measurements

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5580MHz

Channel: 116

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-105.99	Average	H	61.06	-9.54	52.53	53.98	-1.45
* 11160.00	-95.65	Peak	H	61.06	-9.54	62.87	73.98	-11.11
16740.00	-125.00	Peak	H	58.27	0.00	40.27	68.20	-27.93
* 22320.00	-135.00	Average	H	40.75	0.00	29.98	53.98	-24.00
* 22320.00	-125.00	Peak	H	40.75	0.00	40.21	73.98	-33.77
27900.00	-125.00	Peak	H	27.11	0.00	9.11	68.20	-59.09

Table 6-10. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 21 of 29

Radiated Spurious Emission Measurements (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5700MHz

Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11400.00	-105.59	Average	H	57.86	-9.54	49.73	53.98	-4.25
* 11400.00	-95.25	Peak	H	57.86	-9.54	60.07	73.98	-13.91
17100.00	-125.00	Peak	H	61.12	0.00	43.12	68.20	-25.08
* 22800.00	-135.00	Average	H	39.45	0.00	27.65	53.98	-26.33
* 22800.00	-169.16	Peak	H	39.45	0.00	38.36	73.98	-35.62
28500.00	-125.00	Peak	H	25.81	0.00	7.81	68.20	-60.39

Table 6-11. Radiated Measurements

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 22 of 29

6.3 Radiated Band Edge Measurements (20MHz BW)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
5098.65	-101.34	Average	H	42.59	48.26	53.98	-5.72
5098.65	-93.73	Peak	H	42.59	55.87	73.98	-18.11
5131.15	-100.25	Average	H	42.76	49.51	53.98	-4.47
5131.15	-92.70	Peak	H	42.76	57.06	73.98	-16.92
5149.35	-99.26	Average	H	42.86	50.60	53.98	-3.38
5149.35	-92.43	Peak	H	42.86	57.43	73.98	-16.55

Table 6-12. Radiated Restricted Band Measurements (4.5 – 5.15GHz)

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 23 of 29

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
5350.44	-100.73	Average	H	44.02	50.30	53.98	-3.68
5350.44	-92.34	Peak	H	44.02	58.69	73.98	-15.29
5351.87	-102.35	Average	H	44.02	48.68	53.98	-5.30
5351.87	-93.52	Peak	H	44.02	57.51	73.98	-16.47
5354.62	-103.15	Average	H	44.03	47.88	53.98	-6.10
5354.62	-93.88	Peak	H	44.03	57.15	73.98	-16.83

Table 6-13. Radiated Restricted Band Measurements (5.35 – 5.46GHz, 5.46 – 5.47GHz)

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 24 of 29

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
5352.63	-106.43	Average	H	44.03	44.60	53.98	-9.38
5352.63	-96.33	Peak	H	44.03	54.70	73.98	-19.28
5424.03	-106.01	Average	H	44.17	45.17	53.98	-8.81
5424.03	-94.84	Peak	H	44.17	56.34	73.98	-17.64
5469.24	-89.01	Peak	H	44.30	62.30	68.20	-5.90

Table 6-14. Radiated Restricted Band Measurements (5.35 – 5.46GHz, 5.46 – 5.47GHz)

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
5779.60	-93.62	Peak	H	44.43	57.81	68.20	-10.39
5947.10	-93.15	Peak	H	44.90	58.75	68.20	-9.45
6114.80	-92.95	Peak	H	45.54	59.59	68.20	-8.61

Table 6-15. Radiated Restricted Band Measurements

6.4 Radiated Band Edge Measurements (40MHz BW)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
5053.81	-104.20	Average	H	42.44	45.24	53.98	-8.74
5053.81	-93.70	Peak	H	42.44	55.74	73.98	-18.24
5137.01	-101.88	Average	H	42.79	47.91	53.98	-6.07
5137.01	-91.82	Peak	H	42.79	57.97	73.98	-16.01
5147.80	-98.62	Average	H	42.85	51.23	53.98	-2.75
5147.80	-87.01	Peak	H	42.85	62.84	73.98	-11.14

Table 6-16. Radiated Restricted Band Measurements (4.5 – 5.15GHz)

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 26 of 29

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
5350.33	-103.23	Average	H	44.02	47.80	53.98	-6.18
5350.33	-91.62	Peak	H	44.02	59.41	73.98	-14.57
5351.76	-103.66	Average	H	44.02	47.37	53.98	-6.61
5351.76	-90.84	Peak	H	44.02	60.19	73.98	-13.79
5356.27	-104.27	Average	H	44.03	46.76	53.98	-7.22
5356.27	-92.74	Peak	H	44.03	58.29	73.98	-15.69

Table 6-17. Radiated Restricted Band Measurements (5.35 – 5.46GHz, 5.46 – 5.47GHz)

FCC ID: ZNFVS870		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset		Page 27 of 29

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5454.89	-104.17	Average	H	44.26	47.09	53.98	-6.89
5454.89	-92.05	Peak	H	44.26	59.21	73.98	-14.77
5459.63	-102.67	Average	H	44.28	48.60	53.98	-5.38
5459.63	-88.21	Peak	H	44.28	63.06	73.98	-10.92
5464.94	-85.49	Peak	H	44.29	65.81	68.20	-2.39

Table 6-18. Radiated Restricted Band Measurements (5.35 – 5.46GHz, 5.46 – 5.47GHz)

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5690MHz
 Channel: 138

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5735.73	-94.36	Peak	H	44.36	57.00	68.20	-11.20
5774.23	-94.10	Peak	H	44.42	57.32	68.20	-10.88
5791.02	-94.87	Peak	H	44.45	56.58	68.20	-11.62

Table 6-19. Radiated Restricted Band Measurements

7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFVS870** is in compliance with Part 15E of the FCC Rules and RSS-210 of the Industry Canada Rules.

FCC ID: ZNFVS870	 PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	 LG	Reviewed by: Quality Manager
Test Report S/N: 0Y1301150083.ZNF	Test Dates: January 17 - 22, 2013	EUT Type: Portable Handset	Page 29 of 29	