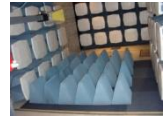




PCTEST ENGINEERING LABORATORY, INC.

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



MEASUREMENT REPORT FCC Part 22, 24, & 27 LTE

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

Date of Testing:
4/14 - 4/27/2015
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1504130708.ZNF

FCC ID :	ZNFH810
APPLICANT:	LG ELECTRONICS MOBILECOMM U.S.A



Application Type: Class II Permissive Change
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2; §22; §24; §27
Test Procedure(s): ANSI/TIA-603-C-2004, KDB 971168 v02r02, KDB 648474 D03 v01r02
EUT Type: Portable Handset
Model(s): LG-H810, LGH810, H810, LG-H810PR, LGH810PR, H810PR
Additional Model(s): LG-H812, LGH812, H812
Test Device Serial No.: *identical prototype* [S/N: LTE EIRP#2]
Class II Permissive Change: Please see FCC change document
Original Grant Date: 4/30/2015

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 §2.947. 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

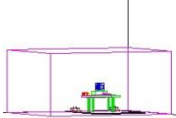


FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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T A B L E O F C O N T E N T S

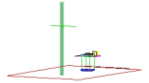
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MEASUREMENT REPORT

FCC Part 22, 24, & 27



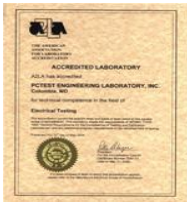
§2.1033 General Information



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: 7185 Oakland Mills Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22; §24; §27
BASE MODEL: LG-H810, LGH810, H810, LG-H810PR, LGH810PR, H810PR
ADDITIONAL MODEL: LG-H812, LGH812, H812
FCC ID: ZNFH810
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: LTE EIRP#2 Production Pre-Production Engineering
DATE(S) OF TEST: 4/14 - 4/27/2015
TEST REPORT S/N: OY1504130708.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.



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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) 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 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'l (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 C63.4-2003 on February 15, 2012.

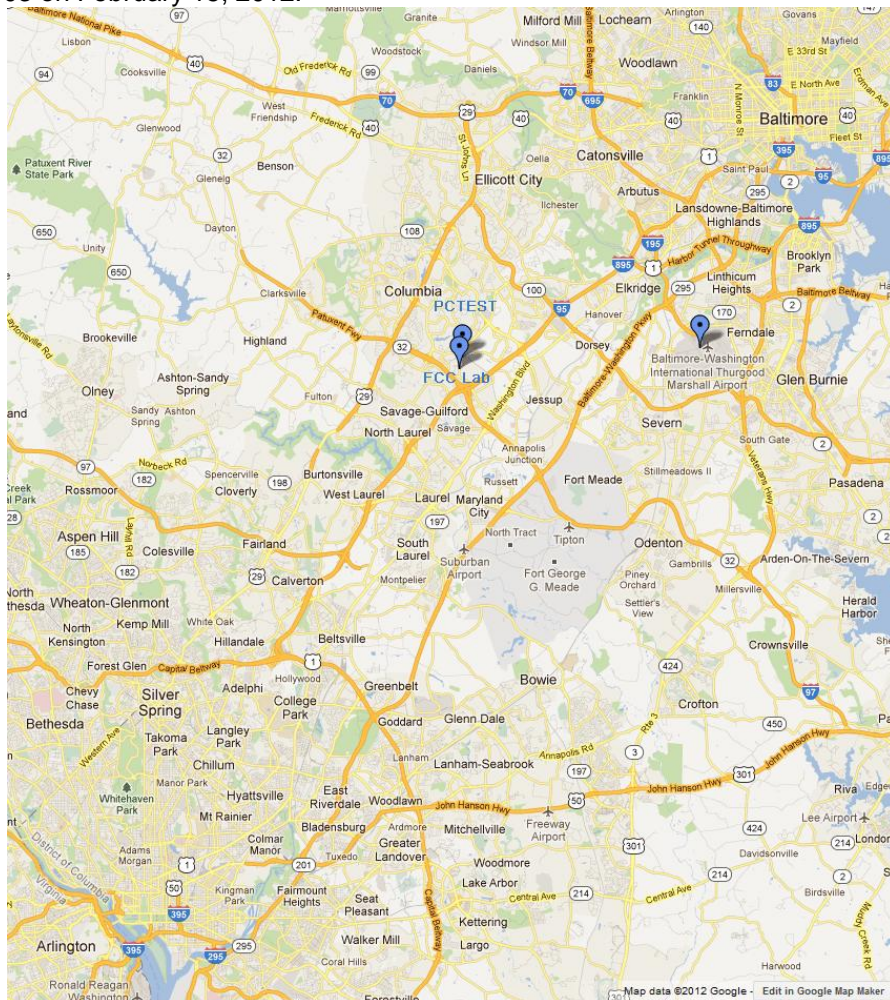


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFH810**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, 802.11a/n/ac UNII, Bluetooth (1x, EDR, LE), NFC

2.3 Test Configuration

The LG Portable Handset FCC ID: ZNFH810 was tested per the guidance of ANSI/TIA-603-C-2004 and KDB 971168 v02r02. See Section 6.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r02. Additional radiated spurious emission measurements were performed with the EUT lying flat on a certified wireless charging pad (WCP) while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.



2.4 EMI Suppression Device(s)/Modifications

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

2.5 Labeling Requirements

Per 2.925

The FCC identifier shall be permanently affixed to the equipment and shall be readily visible to the purchaser at the time of purchase.

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The measurement procedures described in the document titled “Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards” (ANSI/TIA-603-C-2004) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168) were used in the measurement of the **LG Portable Handset FCC ID: ZNFH810**.

3.1 Block C Frequency Range

§27.5(b)(3)

Two paired channels of 11 megahertz each are available for assignment in Block C in the 746-757 MHz and 776-787 MHz bands. In the event that no licenses for two channels in this Block C are assigned based on the results of the first auction in which such licenses were offered because the auction results do not satisfy the applicable reserve price, the spectrum in the 746-757 MHz and 776-787 MHz bands will instead be made available for assignment at a subsequent auction as follows: (i) Two paired channels of 6 megahertz each available for assignment in Block C1 in the 746-752 MHz and 776-782 MHz bands. (ii) Two paired channels of 5 megahertz each available for assignment in Block C2 in the 752-757 MHz and 782-787 MHz bands.

3.2 Block A Frequency Range

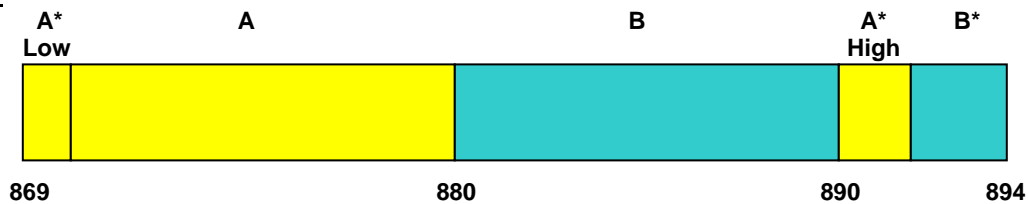
§27.5(c)

698-746 MHz band. The following frequencies are available for licensing pursuant to this part in the 698-746 MHz band: (1) Three paired channel blocks of 12 megahertz each are available for assignment as follows:

- Block A: 698-704 MHz and 728-734 MHz;
- Block B: 704-710 MHz and 734-740 MHz; and
- Block C: 710-716 MHz and 740-746 MHz.



3.3 Cellular - Base Frequency Blocks

§22.905



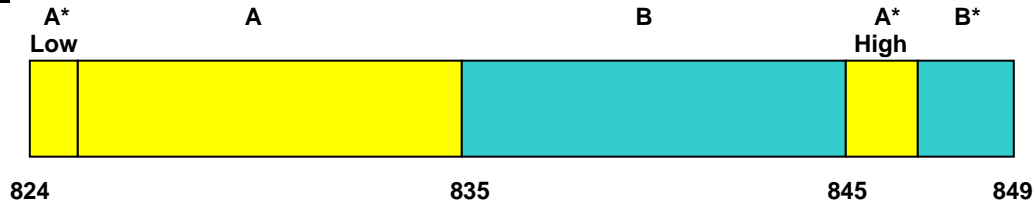
BLOCK 1: 869 – 880 MHz (A* Low + A)
BLOCK 2: 880 – 890 MHz (B)

BLOCK 3: 890 – 891.5 MHz (A* High)
BLOCK 4: 891.5 – 894 MHz (B*)

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3.4 Cellular - Mobile Frequency Blocks

§22.905

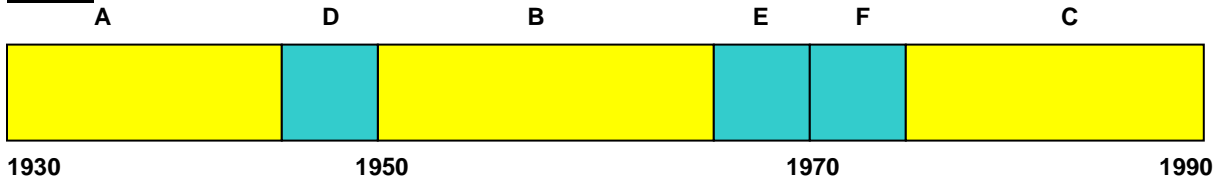


BLOCK 1: 824 – 835 MHz (A* Low + A)
 BLOCK 2: 835 – 845 MHz (B)

BLOCK 3: 845 – 846.5 MHz (A* High)
 BLOCK 4: 846.5 – 849 MHz (B*)

3.5 PCS - Base Frequency Blocks

§24.229

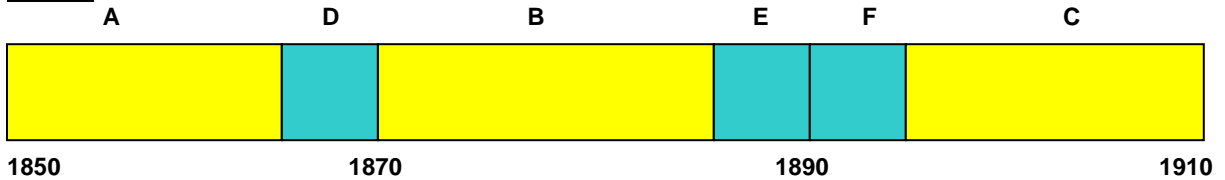


BLOCK 1: 1930 – 1945 MHz (A)
 BLOCK 2: 1945 – 1950 MHz (D)
 BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 4: 1965 – 1970 MHz (E)
 BLOCK 5: 1970 – 1975 MHz (F)
 BLOCK 6: 1975 – 1990 MHz (C)

3.6 PCS - Mobile Frequency Blocks

§24.229

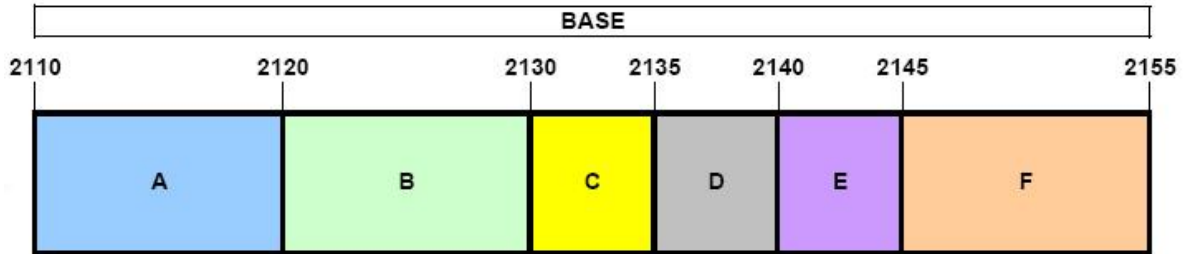


BLOCK 1: 1850 – 1865 MHz (A)
 BLOCK 2: 1865 – 1870 MHz (D)
 BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 4: 1885 – 1890 MHz (E)
 BLOCK 5: 1890 – 1895 MHz (F)
 BLOCK 6: 1895 – 1910 MHz (C)

3.7 AWS - Base Frequency Blocks

§27.5(h)



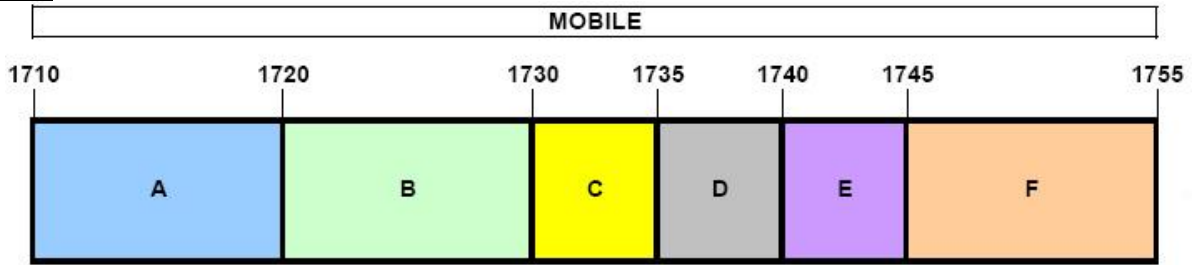
BLOCK 1: 2110 – 2120 MHz (A)
 BLOCK 2: 2120 – 2130 MHz (B)
 BLOCK 3: 2130 – 2135 MHz (C)

BLOCK 4: 2135 – 2140 MHz (D)
 BLOCK 5: 2140 – 2145 MHz (E)
 BLOCK 6: 2145 – 2155 MHz (F)

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3.8 AWS - Mobile Frequency Blocks

§27.5(h)



BLOCK 1: 1710 – 1720 MHz (A)
 BLOCK 2: 1720 – 1730 MHz (B)
 BLOCK 3: 1730 – 1735 MHz (C)

BLOCK 4: 1735 – 1740 MHz (D)
 BLOCK 5: 1740 – 1745 MHz (E)
 BLOCK 6: 1745 – 1755 MHz (F)

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3.9 Radiated Power and Radiated Spurious Emissions

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.50(b.10) §27.50(c.10) §27.50(d.4) §27.53(f) §27.53(g) §27.53(h)

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 semi-anechoic 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.



The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-C-2004, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss} \text{ [dB]} + \text{antenna gain} \text{ [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss} \text{ [dB]}$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power} \text{ [Watts]})$. For Band 7, the calculated P_d levels are compared to the absolute spurious emission limit of -25dBm which is equivalent to the required minimum attenuation of $55 + 10\log_{10}(\text{Power} \text{ [Watts]})$.

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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4.0 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)	5/29/2014	Annual	5/29/2015	N/A
Anritsu	MT8820C	Radio Communication Analyzer	8/28/2014	Annual	8/28/2015	6201240328
Emco	3115	Horn Antenna (1-18GHz)	1/30/2014	Biennial	1/30/2016	9704-5182
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	6/17/2014	Biennial	6/17/2016	135427
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/12/2014	Biennial	3/12/2016	128337
K & L	11SH10-3075/U18000	High Pass Filter	12/1/2014	Annual	12/1/2015	2
K & L	13SH10-1000/U1000	N Type High Pass Filter	12/1/2014	Annual	12/1/2015	1
Mini-Circuits	PWR-SENS-4RMS	USB Power Sensor	3/11/2015	Annual	3/11/2016	11210140001
Mini-Circuits	SSG-4000HP	USB Synthesized Signal Generator	N/A			11208010032
Mini-Circuits	TVA-11-422	RF Power Amp	N/A			QA1303002
Rohde & Schwarz	CMW500	Radio Communication Tester	10/4/2013	Biennial	10/4/2015	103962
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	3/12/2015	Annual	3/12/2016	100342
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	3/5/2015	Annual	3/5/2016	100071
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	3/3/2015	Annual	3/3/2016	100040
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	11/21/2013	Biennial	11/21/2015	9105-2404
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
VWR	62344-734	Thermometer with Clock	2/20/2014	Biennial	2/20/2016	140140420

Table 4-1. Test Equipment

Notes:

1. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.



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5.0 SAMPLE CALCULATIONS

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm $- (-24.80)$.

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6.0 TEST RESULTS

6.1 Summary



Company Name: LG Electronics MobileComm U.S.A
 FCC ID: ZNFH810
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Result	Reference
TRANSMITTER MODE (TX)					
22.913(a.2)	Effective Radiated Power (Band 5)	< 7 Watts max. ERP	RADIATED	PASS	Section 6.2
27.50(b.10) 27.50(c.10)	Effective Radiated Power (Band 12, 13)	< 3 Watts max. ERP		PASS	Section 6.2
24.232(c) 27.50(h.2)	Equivalent Isotropic Radiated Power (Band 2, 7)	< 2 Watts max. EIRP		PASS	Section 6.2
27.50(d.4)	Equivalent Isotropic Radiated Power (Band 4)	< 1 Watts max. EIRP		PASS	Section 6.2
2.1053 22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	Undesirable Emissions	> 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Section 6.3
27.53(f)	Undesirable Emissions (Band 13)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 – 1610 MHz		PASS	Section 6.3
27.53(m)	Undesirable Emissions	> 43 + 10log ₁₀ (P[Watts]) at channel edges and > 55 + 10log ₁₀ (P[Watts]) at 5.5MHz away and beyond channel edges		PASS	Section 6.3

Table 6-1. Summary of Test Results

Notes:

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

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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6.2 Radiated Power (ERP/EIRP)

§22.913(a.2) §24.232(c.2) §27.50(h.2) §27.50(b.10) §27.50(c.10) §27.50(d.4)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-C-2004 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.



Test Procedures Used

KDB 971168 v02r02 – Section 5.2.1

ANSI/TIA-603-C-2004 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

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

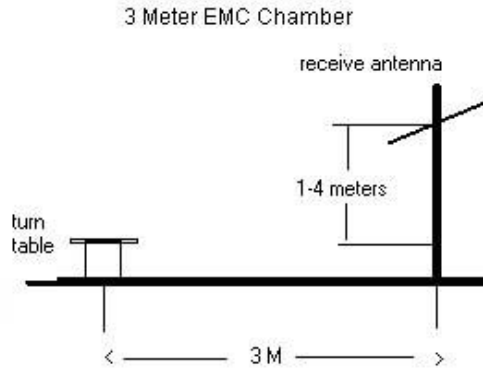




Figure 6-1. Test Instrument & Measurement Setup



Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The ERP's and EIRP's listed in the tables below were measured using the Class II Permissive Change sample, and were found to be within the measurement tolerances of the original certification samples for radiated power. It has been determined that the output power was not changed for these Class II Permissive Change samples.

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	Ant. Pol. [H/V]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	Standard	1 / 0	16.56	2.71	V	19.27	34.77	-15.50
707.50	1.4	QPSK	Standard	1 / 5	17.08	1.07	V	18.15	34.77	-16.62
715.30	1.4	QPSK	Standard	1 / 0	15.27	1.23	V	16.50	34.77	-18.28
699.70	1.4	16-QAM	Standard	1 / 0	15.36	2.71	V	18.07	34.77	-16.70
707.50	1.4	16-QAM	Standard	1 / 5	15.84	1.07	V	16.91	34.77	-17.86
715.30	1.4	16-QAM	Standard	1 / 0	14.15	1.23	V	15.38	34.77	-19.40
700.50	3	QPSK	Standard	1 / 14	16.56	0.92	V	17.48	34.77	-17.29
707.50	3	QPSK	Standard	1 / 14	17.08	1.07	V	18.15	34.77	-16.62
714.50	3	QPSK	Standard	1 / 0	16.69	1.21	V	17.90	34.77	-16.87
700.50	3	16-QAM	Standard	1 / 14	15.59	0.92	V	16.51	34.77	-18.26
707.50	3	16-QAM	Standard	1 / 14	15.94	1.07	V	17.01	34.77	-17.76
714.50	3	16-QAM	Standard	1 / 0	15.75	1.21	V	16.96	34.77	-17.81
701.50	5	QPSK	Standard	1 / 24	17.21	0.94	V	18.15	34.77	-16.62
707.50	5	QPSK	Standard	1 / 24	17.70	1.07	V	18.77	34.77	-16.00
713.50	5	QPSK	Standard	1 / 0	17.29	1.19	V	18.48	34.77	-16.29
701.50	5	16-QAM	Standard	1 / 24	16.24	0.94	V	17.18	34.77	-17.59
707.50	5	16-QAM	Standard	1 / 24	16.66	1.07	V	17.73	34.77	-17.04
713.50	5	16-QAM	Standard	1 / 0	16.33	1.19	V	17.52	34.77	-17.25
704.00	10	QPSK	Standard	1 / 49	17.31	1.00	V	18.31	34.77	-16.46
707.50	10	QPSK	Standard	1 / 0	16.21	1.07	V	17.28	34.77	-17.49
711.00	10	QPSK	Standard	1 / 0	17.28	1.14	V	18.42	34.77	-16.35
704.00	10	16-QAM	Standard	1 / 49	16.32	1.00	V	17.32	34.77	-17.45
707.50	10	16-QAM	Standard	1 / 0	15.34	1.07	V	16.41	34.77	-18.36
711.00	10	16-QAM	Standard	1 / 0	16.24	1.14	V	17.38	34.77	-17.39

Table 6-2. ERP Data (Band 12)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	Ant. Pol. [H/V]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
779.50	5	QPSK	Standard	1 / 0	17.43	2.47	V	19.90	34.77	-14.87
782.00	5	QPSK	Standard	1 / 0	16.88	2.51	V	19.39	34.77	-15.38
784.50	5	QPSK	Standard	1 / 0	16.44	2.56	V	19.00	34.77	-15.77
779.50	5	16QAM	Standard	1 / 0	16.03	2.47	V	18.50	34.77	-16.27
782.00	5	16QAM	Standard	1 / 0	15.43	2.51	V	17.94	34.77	-16.83
784.50	5	16QAM	Standard	1 / 0	15.15	2.56	V	17.71	34.77	-17.06
782.00	10	QPSK	Standard	1 / 0	16.82	2.51	V	19.33	34.77	-15.44
782.00	10	16QAM	Standard	1 / 0	15.50	2.51	V	18.01	34.77	-16.76

Table 6-3. ERP Data (Band 13)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Reviewed by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	Ant. Pol. [H/V]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	Standard	1 / 5	17.60	2.98	V	20.58	38.45	-17.87
836.50	1.4	QPSK	Standard	1 / 0	18.20	3.04	V	21.24	38.45	-17.21
848.30	1.4	QPSK	Standard	1 / 0	18.32	3.10	V	21.42	38.45	-17.03
824.70	1.4	16-QAM	Standard	1 / 0	16.48	2.98	V	19.46	38.45	-18.99
836.50	1.4	16-QAM	Standard	1 / 0	17.25	3.04	V	20.29	38.45	-18.16
848.30	1.4	16-QAM	Standard	1 / 0	17.32	3.10	V	20.42	38.45	-18.03
825.50	3	QPSK	Standard	1 / 0	17.99	2.98	V	20.97	38.45	-17.48
836.50	3	QPSK	Standard	1 / 14	18.08	3.04	V	21.12	38.45	-17.33
847.50	3	QPSK	Standard	1 / 0	16.82	3.10	V	19.92	38.45	-18.53
825.50	3	16-QAM	Standard	1 / 0	17.16	2.98	V	20.14	38.45	-18.31
836.50	3	16-QAM	Standard	1 / 14	17.23	3.04	V	20.27	38.45	-18.18
847.50	3	16-QAM	Standard	1 / 0	16.06	3.10	V	19.16	38.45	-19.29
826.50	5	QPSK	Standard	1 / 0	18.38	2.99	V	21.37	38.45	-17.08
836.50	5	QPSK	Standard	1 / 24	18.27	3.04	V	21.31	38.45	-17.14
846.50	5	QPSK	Standard	1 / 0	18.02	3.09	V	21.11	38.45	-17.34
826.50	5	16-QAM	Standard	1 / 0	17.57	2.99	V	20.56	38.45	-17.89
836.50	5	16-QAM	Standard	1 / 24	17.37	3.04	V	20.41	38.45	-18.04
846.50	5	16-QAM	Standard	1 / 0	17.11	3.09	V	20.20	38.45	-18.25
829.00	10	QPSK	Standard	1 / 49	17.58	3.00	V	20.58	38.45	-17.87
836.50	10	QPSK	Standard	1 / 0	17.85	3.04	V	20.89	38.45	-17.56
844.00	10	QPSK	Standard	1 / 0	17.69	3.08	V	20.77	38.45	-17.68
829.00	10	16-QAM	Standard	1 / 49	16.68	3.00	V	19.68	38.45	-18.77
836.50	10	16-QAM	Standard	1 / 0	16.95	3.04	V	19.99	38.45	-18.46
844.00	10	16-QAM	Standard	1 / 0	16.95	3.08	V	20.03	38.45	-18.42

Table 6-4. ERP Data (Band 5)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504130708.ZNF	Test Dates: 4/14 - 4/27/2015	EUT Type: Portable Handset	Page 17 of 35	



Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	Standard	1 / 0	13.89	9.28	V	23.17	30.00	-6.83
1732.50	1.4	QPSK	Standard	1 / 0	13.19	9.00	V	22.19	30.00	-7.81
1754.30	1.4	QPSK	Standard	1 / 0	11.92	8.72	V	20.64	30.00	-9.36
1710.70	1.4	16-QAM	Standard	1 / 0	13.07	9.28	V	22.35	30.00	-7.65
1732.50	1.4	16-QAM	Standard	1 / 0	12.20	9.00	V	21.20	30.00	-8.80
1754.30	1.4	16-QAM	Standard	1 / 0	10.97	8.72	V	19.69	30.00	-10.31
1711.50	3	QPSK	Standard	1 / 14	13.70	9.27	V	22.97	30.00	-7.03
1732.50	3	QPSK	Standard	1 / 0	12.39	9.00	V	21.39	30.00	-8.61
1753.50	3	QPSK	Standard	1 / 0	11.86	8.73	V	20.59	30.00	-9.41
1711.50	3	16-QAM	Standard	1 / 14	12.68	9.27	V	21.95	30.00	-8.05
1732.50	3	16-QAM	Standard	1 / 0	11.45	9.00	V	20.45	30.00	-9.55
1753.50	3	16-QAM	Standard	1 / 0	10.81	8.73	V	19.54	30.00	-10.46
1712.50	5	QPSK	Standard	1 / 24	13.90	9.26	V	23.16	30.00	-6.84
1732.50	5	QPSK	Standard	1 / 0	12.89	9.00	V	21.89	30.00	-8.11
1752.50	5	QPSK	Standard	1 / 0	12.41	8.74	V	21.15	30.00	-8.85
1712.50	5	16-QAM	Standard	1 / 24	13.14	9.26	V	22.40	30.00	-7.60
1732.50	5	16-QAM	Standard	1 / 0	12.10	9.00	V	21.10	30.00	-8.90
1752.50	5	16-QAM	Standard	1 / 0	11.53	8.74	V	20.27	30.00	-9.73
1715.00	10	QPSK	Standard	1 / 0	13.03	9.22	V	22.25	30.00	-7.75
1732.50	10	QPSK	Standard	1 / 0	12.93	9.00	V	21.93	30.00	-8.07
1750.00	10	QPSK	Standard	1 / 0	12.50	8.77	V	21.27	30.00	-8.73
1715.00	10	16-QAM	Standard	1 / 0	12.06	9.22	V	21.28	30.00	-8.72
1732.50	10	16-QAM	Standard	1 / 0	12.01	9.00	V	21.01	30.00	-8.99
1750.00	10	16-QAM	Standard	1 / 0	11.44	8.77	V	20.21	30.00	-9.79
1717.50	15	QPSK	Standard	1 / 0	12.86	9.19	V	22.05	30.00	-7.95
1732.50	15	QPSK	Standard	1 / 0	12.40	9.00	V	21.40	30.00	-8.60
1747.50	15	QPSK	Standard	1 / 0	12.06	8.80	V	20.86	30.00	-9.14
1717.50	15	16-QAM	Standard	1 / 0	12.25	9.19	V	21.44	30.00	-8.56
1732.50	15	16-QAM	Standard	1 / 0	11.47	9.00	V	20.47	30.00	-9.53
1747.50	15	16-QAM	Standard	1 / 0	11.01	8.80	V	19.81	30.00	-10.19
1720.00	20	QPSK	Standard	1 / 99	14.13	9.16	V	23.29	30.00	-6.71
1732.50	20	QPSK	Standard	1 / 0	12.62	9.00	V	21.62	30.00	-8.38
1745.00	20	QPSK	Standard	1 / 0	13.29	8.83	V	22.12	30.00	-7.88
1720.00	20	16-QAM	Standard	1 / 99	13.08	9.16	V	22.24	30.00	-7.76
1732.50	20	16-QAM	Standard	1 / 0	11.66	9.00	V	20.66	30.00	-9.34
1745.00	20	16-QAM	Standard	1 / 0	12.40	8.83	V	21.23	30.00	-8.77

Table 6-5. EIRP Data (Band 4)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504130708.ZNF	Test Dates: 4/14 - 4/27/2015	EUT Type: Portable Handset	Page 18 of 35	



Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	Standard	1 / 0	11.74	8.34	V	20.08	33.01	-12.93
1880.00	1.4	QPSK	Standard	1 / 0	12.71	8.46	V	21.17	33.01	-11.84
1909.30	1.4	QPSK	Standard	1 / 0	9.67	8.64	V	18.31	33.01	-14.70
1850.70	1.4	16-QAM	Standard	1 / 0	10.57	8.34	V	18.91	33.01	-14.10
1880.00	1.4	16-QAM	Standard	1 / 0	11.56	8.46	V	20.02	33.01	-12.99
1909.30	1.4	16-QAM	Standard	1 / 0	8.48	8.64	V	17.12	33.01	-15.89
1851.50	3	QPSK	Standard	1 / 0	11.56	8.35	V	19.91	33.01	-13.10
1880.00	3	QPSK	Standard	1 / 0	11.56	8.46	V	20.02	33.01	-12.99
1908.50	3	QPSK	Standard	1 / 0	9.82	8.63	V	18.45	33.01	-14.56
1851.50	3	16-QAM	Standard	1 / 0	10.84	8.35	V	19.19	33.01	-13.82
1880.00	3	16-QAM	Standard	1 / 0	11.03	8.46	V	19.49	33.01	-13.52
1908.50	3	16-QAM	Standard	1 / 0	9.49	8.63	V	18.12	33.01	-14.89
1852.50	5	QPSK	Standard	1 / 0	11.86	8.35	V	20.21	33.01	-12.80
1880.00	5	QPSK	Standard	1 / 0	12.55	8.46	V	21.01	33.01	-12.00
1907.50	5	QPSK	Standard	1 / 0	10.13	8.62	V	18.75	33.01	-14.26
1852.50	5	16-QAM	Standard	1 / 0	10.69	8.35	V	19.04	33.01	-13.97
1880.00	5	16-QAM	Standard	1 / 0	11.38	8.46	V	19.84	33.01	-13.17
1907.50	5	16-QAM	Standard	1 / 0	9.22	8.62	V	17.84	33.01	-15.17
1855.00	10	QPSK	Standard	1 / 0	11.75	8.36	V	20.11	33.01	-12.90
1880.00	10	QPSK	Standard	1 / 0	12.32	8.46	V	20.78	33.01	-12.23
1905.00	10	QPSK	Standard	1 / 0	10.46	8.59	V	19.05	33.01	-13.96
1855.00	10	16-QAM	Standard	1 / 0	10.66	8.36	V	19.02	33.01	-13.99
1880.00	10	16-QAM	Standard	1 / 0	11.18	8.46	V	19.64	33.01	-13.37
1905.00	10	16-QAM	Standard	1 / 0	9.34	8.59	V	17.93	33.01	-15.08
1857.50	15	QPSK	Standard	1 / 0	12.02	8.37	V	20.39	33.01	-12.62
1880.00	15	QPSK	Standard	1 / 0	11.60	8.46	V	20.06	33.01	-12.95
1902.50	15	QPSK	Standard	1 / 0	10.72	8.56	V	19.28	33.01	-13.73
1857.50	15	16-QAM	Standard	1 / 0	10.86	8.37	V	19.23	33.01	-13.78
1880.00	15	16-QAM	Standard	1 / 0	10.50	8.46	V	18.96	33.01	-14.05
1902.50	15	16-QAM	Standard	1 / 0	9.75	8.56	V	18.31	33.01	-14.70
1860.00	20	QPSK	Standard	1 / 99	11.16	8.38	V	19.54	33.01	-13.47
1880.00	20	QPSK	Standard	1 / 0	11.24	8.46	V	19.70	33.01	-13.31
1900.00	20	QPSK	Standard	1 / 0	9.97	8.53	V	18.50	33.01	-14.51
1860.00	20	16-QAM	Standard	1 / 99	10.08	8.38	V	18.46	33.01	-14.55
1880.00	20	16-QAM	Standard	1 / 0	10.32	8.46	V	18.78	33.01	-14.23
1900.00	20	16-QAM	Standard	1 / 0	8.83	8.53	V	17.36	33.01	-15.65

Table 6-6. EIRP Data (Band 2)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504130708.ZNF	Test Dates: 4/14 - 4/27/2015	EUT Type: Portable Handset	Page 19 of 35	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	Standard	1 / 0	14.03	7.09	V	21.12	33.01	-11.89
2535.00	5	QPSK	Standard	1 / 24	12.92	7.26	V	20.18	33.01	-12.83
2567.50	5	QPSK	Standard	1 / 24	12.84	7.42	V	20.26	33.01	-12.75
2502.50	5	16-QAM	Standard	1 / 0	12.24	7.09	V	19.33	33.01	-13.68
2535.00	5	16-QAM	Standard	1 / 24	11.65	7.26	V	18.91	33.01	-14.10
2567.50	5	16-QAM	Standard	1 / 24	12.01	7.42	V	19.43	33.01	-13.58
2505.00	10	QPSK	Standard	1 / 0	12.51	7.10	V	19.61	33.01	-13.40
2535.00	10	QPSK	Standard	1 / 49	11.95	7.26	V	19.21	33.01	-13.80
2565.00	10	QPSK	Standard	1 / 0	10.98	7.41	V	18.39	33.01	-14.62
2505.00	10	16-QAM	Standard	1 / 0	11.47	7.10	V	18.57	33.01	-14.44
2535.00	10	16-QAM	Standard	1 / 49	10.83	7.26	V	18.09	33.01	-14.92
2565.00	10	16-QAM	Standard	1 / 0	10.19	7.41	V	17.60	33.01	-15.41
2507.50	15	QPSK	Standard	1 / 0	13.13	7.12	V	20.25	33.01	-12.76
2535.00	15	QPSK	Standard	1 / 74	11.85	7.26	V	19.11	33.01	-13.90
2562.50	15	QPSK	Standard	1 / 0	11.28	7.39	V	18.67	33.01	-14.34
2507.50	15	16-QAM	Standard	1 / 0	12.06	7.12	V	19.18	33.01	-13.83
2535.00	15	16-QAM	Standard	1 / 74	10.91	7.26	V	18.17	33.01	-14.84
2562.50	15	16-QAM	Standard	1 / 0	10.33	7.39	V	17.72	33.01	-15.29
2510.00	20	QPSK	Standard	1 / 0	11.84	7.13	V	18.97	33.01	-14.04
2535.00	20	QPSK	Standard	1 / 0	11.55	7.26	V	18.81	33.01	-14.20
2560.00	20	QPSK	Standard	1 / 0	11.25	7.38	V	18.63	33.01	-14.38
2510.00	20	16-QAM	Standard	1 / 0	11.00	7.13	V	18.13	33.01	-14.88
2535.00	20	16-QAM	Standard	1 / 0	10.48	7.26	V	17.74	33.01	-15.27
2560.00	20	16-QAM	Standard	1 / 0	10.31	7.38	V	17.69	33.01	-15.32

Table 6-7. EIRP Data (Band 7)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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6.3 Radiated Spurious Emissions Measurements

§2.1053 §22.917(a) §24.238(a) §27.53(c) §27.53(f) §27.53(g) §27.53(h) §27.53(m)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-C-2004 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 v02r02 – Section 5.8

ANSI/TIA-603-C-2004 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW \geq 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize

Test Setup

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

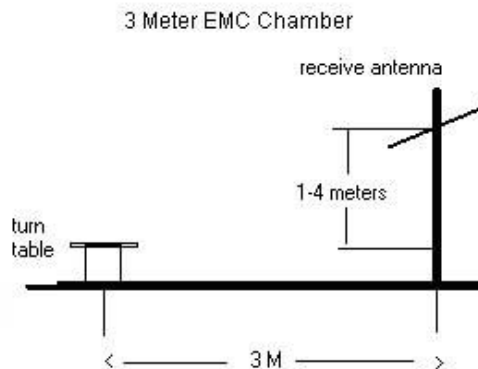




Figure 6-2. Test Instrument & Measurement Setup

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Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) 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.

OPERATING FREQUENCY: 699.70 MHz
 CHANNEL: 23017
 MEASURED OUTPUT POWER: 19.27 dBm = 0.085 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.27 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1399.40	-61.98	5.64	-56.34	H	75.6
2099.10	-47.69	6.61	-41.08	H	60.4
2798.80	-62.67	7.84	-54.82	H	74.1
3498.50	-59.44	7.57	-51.87	H	71.1
4198.20	-58.38	8.25	-50.13	H	69.4

Table 6-8. Radiated Spurious Data (Band 12 – Low Channel)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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OPERATING FREQUENCY: 707.50 MHz
 CHANNEL: 23095
 MEASURED OUTPUT POWER: 18.15 dBm = 0.065 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 31.15 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1415.00	-63.38	5.73	-57.65	H	75.8
2122.50	-50.68	6.73	-43.95	H	62.1
2830.00	-63.91	7.80	-56.11	H	74.3
3537.50	-60.61	7.59	-53.02	H	71.2
4245.00	-58.61	8.41	-50.21	H	68.4

Table 6-9. Radiated Spurious Data (Band 12 – Mid Channel)

OPERATING FREQUENCY: 715.30 MHz
 CHANNEL: 23173
 MEASURED OUTPUT POWER: 16.50 dBm = 0.045 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 29.50 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1430.60	-62.35	5.82	-56.53	H	73.0
2145.90	-49.59	6.86	-42.73	H	59.2
2861.20	-62.43	7.75	-54.68	H	71.2
3576.50	-59.44	7.60	-51.84	H	68.3
4291.80	-59.62	8.56	-51.06	H	67.6

Table 6-10. Radiated Spurious Data (Band 12 – High Channel)

OPERATING FREQUENCY: 699.70 MHz
 CHANNEL: 23017
 MEASURED OUTPUT POWER: 19.27 dBm = 0.085 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 32.27 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1399.40	-61.74	5.64	-56.10	H	75.4
2099.10	-47.61	6.61	-41.00	H	60.3
2798.80	-62.79	7.84	-54.94	H	74.2
3498.50	-59.16	7.57	-51.59	H	70.9
4198.20	-58.22	8.25	-49.97	H	69.2

Table 6-11. Radiated Spurious Data with WCP (Band 12 – 23017 Channel)

OPERATING FREQUENCY: 779.50 MHz
 CHANNEL: 23205
 MEASURED OUTPUT POWER: 19.90 dBm = 0.098 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 32.90 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1559.00	-66.84	6.42	-60.42	H	80.3
2338.50	-50.87	7.28	-43.60	H	63.5
3118.00	-60.15	7.25	-52.89	H	72.8
3897.50	-56.73	7.10	-49.63	H	69.5
4677.00	-58.22	8.67	-49.55	H	69.4

Table 6-12. Radiated Spurious Data (Band 13 – Low Channel)

OPERATING FREQUENCY: 782.00 MHz
 CHANNEL: 23230
 MEASURED OUTPUT POWER: 19.39 dBm = 0.087 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.39 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1564.00	-65.74	6.44	-59.30	H	78.7
2346.00	-49.91	7.26	-42.64	H	62.0
3128.00	-60.13	7.26	-52.87	H	72.3
3910.00	-57.69	7.14	-50.55	H	69.9
4692.00	-58.57	8.65	-49.92	H	69.3

Table 6-13. Radiated Spurious Data (Band 13 – Mid Channel)

OPERATING FREQUENCY: 784.50 MHz
 CHANNEL: 23255
 MEASURED OUTPUT POWER: 19.00 dBm = 0.079 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.00 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1569.00	-66.43	6.46	-59.98	H	79.0
2353.50	-52.80	7.25	-45.55	H	64.6
3138.00	-60.79	7.27	-53.52	H	72.5
3922.50	-57.26	7.20	-50.06	H	69.1
4707.00	-57.98	8.65	-49.33	H	68.3

Table 6-14. Radiated Spurious Data (Band 13 – High Channel)

OPERATING FREQUENCY: 782.00 MHz
 CHANNEL: 23230
 MEASURED OUTPUT POWER: 19.39 dBm = 0.087 W
 MODULATION SIGNAL: QPSK
 DISTANCE: 3 meters
 NARROWBAND EMISSION LIMIT: -50 dBm
 WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	Margin [dB]
1564.00	-65.96	6.44	-59.52	H	-19.5

Table 6-15. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

OPERATING FREQUENCY: 779.50 MHz
 CHANNEL: 23205
 MEASURED OUTPUT POWER: 19.90 dBm = 0.098 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.90 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1559.00	-66.89	6.42	-60.47	H	80.4
2338.50	-50.63	7.28	-43.36	H	63.3
3118.00	-59.91	7.25	-52.65	H	72.5
3897.50	-56.61	7.10	-49.51	H	69.4
4677.00	-58.07	8.67	-49.40	H	69.3

Table 6-16. Radiated Spurious Data with WCP (Band 13 – 23205 Channel)

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 20407
 MEASURED OUTPUT POWER: 20.58 dBm = 0.114 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.58 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1649.40	-65.29	6.56	-58.73	H	79.3
2474.10	-58.26	7.30	-50.96	H	71.5
3298.80	-60.24	7.37	-52.87	H	73.4
4123.50	-58.72	8.02	-50.69	H	71.3
4948.20	-58.39	8.74	-49.65	H	70.2

Table 6-17. Radiated Spurious Data (Band 5 – Low Channel)

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 20525
 MEASURED OUTPUT POWER: 21.24 dBm = 0.133 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.24 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1673.00	-65.34	6.55	-58.79	H	80.0
2509.50	-57.77	7.34	-50.43	H	71.7
3346.00	-59.99	7.44	-52.55	H	73.8
4182.50	-58.91	8.20	-50.71	H	72.0
5019.00	-58.54	8.74	-49.80	H	71.0

Table 6-18. Radiated Spurious Data (Band 5 – Mid Channel)

OPERATING FREQUENCY: 848.30 MHz
 CHANNEL: 20643
 MEASURED OUTPUT POWER: 21.42 dBm = 0.139 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.42 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1696.60	-64.98	6.55	-58.43	H	79.9
2544.90	-57.34	7.36	-49.98	H	71.4
3393.20	-60.36	7.51	-52.85	H	74.3
4241.50	-58.85	8.39	-50.45	H	71.9
5089.80	-57.87	8.61	-49.27	H	70.7

Table 6-19. Radiated Spurious Data (Band 5 – High Channel)

OPERATING FREQUENCY: 848.30 MHz
 CHANNEL: 20643
 MEASURED OUTPUT POWER: 21.42 dBm = 0.139 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.42 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1696.60	-64.83	6.55	-58.28	H	79.7
2544.90	-57.16	7.36	-49.80	H	71.2
3393.20	-60.08	7.51	-52.57	H	74.0
4241.50	-58.89	8.39	-50.49	H	71.9
5089.80	-57.70	8.61	-49.10	H	70.5

Table 6-20. Radiated Spurious Data with WCP (Band 5 – 20643 Channel)

OPERATING FREQUENCY: 1720.00 MHz
 CHANNEL: 20050
 MEASURED OUTPUT POWER: 23.29 dBm = 0.213 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.29 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3440.00	-60.13	9.69	-50.44	H	73.7
5160.00	-57.55	10.64	-46.90	H	70.2
6880.00	-55.38	11.75	-43.63	H	66.9

Table 6-21. Radiated Spurious Data (Band 4 – Low Channel)

OPERATING FREQUENCY: 1732.50 MHz
 CHANNEL: 20175
 MEASURED OUTPUT POWER: 21.62 dBm = 0.145 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.62 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3465.00	-59.83	9.71	-50.12	H	71.7
5197.50	-57.09	10.59	-46.51	H	68.1
6930.00	-55.60	11.75	-43.85	H	65.5

Table 6-22. Radiated Spurious Data (Band 4 – Mid Channel)

OPERATING FREQUENCY: 1745.00 MHz
 CHANNEL: 20300
 MEASURED OUTPUT POWER: 22.12 dBm = 0.163 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 35.12 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3490.00	-60.14	9.72	-50.42	H	72.5
5235.00	-57.52	10.62	-46.90	H	69.0
6980.00	-56.11	11.76	-44.36	H	66.5

Table 6-23. Radiated Spurious Data (Band 4 – High Channel)

OPERATING FREQUENCY: 1720.00 MHz
 CHANNEL: 20050
 MEASURED OUTPUT POWER: 23.29 dBm = 0.213 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.29 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3440.00	-60.27	9.69	-50.58	H	73.9
5160.00	-57.75	10.64	-47.10	H	70.4
6880.00	-55.12	11.75	-43.37	H	66.7

Table 6-24. Radiated Spurious Data with WCP (Band 4 – 20050 Channel)

OPERATING FREQUENCY: 1850.70 MHz
 CHANNEL: 18607
 MEASURED OUTPUT POWER: 20.08 dBm = 0.102 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.08 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3701.40	-41.10	8.40	-32.70	H	52.8
5552.10	-46.30	10.56	-35.74	H	55.8
7402.80	-54.45	12.05	-42.40	H	62.5
9253.50	-53.85	13.22	-40.63	H	60.7
11104.20	-52.75	13.25	-39.50	H	59.6

Table 6-25. Radiated Spurious Data (Band 2 – Low Channel)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 18900
 MEASURED OUTPUT POWER: 21.17 dBm = 0.131 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.17 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3760.00	-40.91	8.38	-32.53	H	53.7
5640.00	-46.50	10.70	-35.80	H	57.0
7520.00	-55.66	12.10	-43.56	H	64.7
9400.00	-53.84	13.19	-40.65	H	61.8
11280.00	-53.33	13.31	-40.02	H	61.2

Table 6-26. Radiated Spurious Data (Band 2 – Mid Channel)

OPERATING FREQUENCY: 1909.30 MHz
 CHANNEL: 19193
 MEASURED OUTPUT POWER: 18.31 dBm = 0.068 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 31.31 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3818.60	-41.32	8.40	-32.91	H	51.2
5727.90	-47.41	10.76	-36.65	H	55.0
7637.20	-54.75	12.22	-42.54	H	60.8
9546.50	-54.01	13.18	-40.83	H	59.1
11455.80	-52.42	13.33	-39.09	H	57.4

Table 6-27. Radiated Spurious Data (Band 2 – High Channel)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 18900
 MEASURED OUTPUT POWER: 21.17 dBm = 0.131 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 34.17 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3760.00	-41.19	8.38	-32.81	H	54.0
5640.00	-46.75	10.70	-36.05	H	57.2
7520.00	-55.61	12.10	-43.51	H	64.7
9400.00	-53.77	13.19	-40.58	H	61.7
11280.00	-53.28	13.31	-39.97	H	61.1

Table 6-28. Radiated Spurious Data with WCP (Band 2 – 18900 Channel)

OPERATING FREQUENCY: 2502.50 MHz
 CHANNEL: 20775
 MEASURED OUTPUT POWER: 21.12 dBm = 0.129 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 46.12 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5005.00	-46.40	10.15	-36.26	H	57.4
7507.50	-55.19	12.09	-43.10	H	64.2
10010.00	-54.38	13.26	-41.12	H	62.2
12512.50	-50.69	13.19	-37.50	H	58.6

Table 6-29. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY: 2535.00 MHz
 CHANNEL: 21100
 MEASURED OUTPUT POWER: 20.18 dBm = 0.104 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 45.18 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5070.00	-45.18	10.19	-34.99	H	55.2
7605.00	-55.31	12.18	-43.13	H	63.3
10140.00	-53.66	13.29	-40.37	H	60.5
12675.00	-51.14	13.19	-37.95	H	58.1

Table 6-30. Radiated Spurious Data (Band 7 – Mid Channel)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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OPERATING FREQUENCY: 2567.50 MHz
 CHANNEL: 21425
 MEASURED OUTPUT POWER: 20.26 dBm = 0.106 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 45.26 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5135.00	-44.79	10.26	-34.53	H	54.8
7702.50	-54.97	12.29	-42.68	H	62.9
10270.00	-52.83	13.27	-39.56	H	59.8
12837.50	-51.09	13.29	-37.80	H	58.1

Table 6-31. Radiated Spurious Data (Band 7 – High Channel)

OPERATING FREQUENCY: 2502.50 MHz
 CHANNEL: 20775
 MEASURED OUTPUT POWER: 21.12 dBm = 0.129 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 46.12 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5005.00	-46.30	10.15	-36.16	H	57.3
7507.50	-55.28	12.09	-43.19	H	64.3
10010.00	-53.93	13.26	-40.67	H	61.8
12512.50	-49.57	13.19	-36.38	H	57.5

Table 6-32. Radiated Spurious Data with WCP (Band 7 – 20775 Channel)

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFH810** complies with all the requirements of Parts 22, 24, & 27 of the FCC rules for LTE operation only.

FCC ID: ZNFH810		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504130708.ZNF	Test Dates: 4/14 - 4/27/2015	EUT Type: Portable Handset	Page 35 of 35	