



PCTEST ENGINEERING LABORATORY, INC.

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MEASUREMENT REPORT FCC Part 90 Band Class 10 CDMA

Applicant:

LG Electronics MobileComm U.S.A., Inc.
10101 Old Grove Road,
San Diego, CA 92131
USA

Date of Testing:

November 17, 2011

Test Site/Location:

PCTEST Lab., Columbia, MD, USA

Test Report Serial No.:

0Y1111151967.ZNF

FCC ID:**ZNFLN272****APPLICANT:****LG ELECTRONICS MOBILECOMM U.S.A., INC.****Applicant Type:** Class II Permissive Change**FCC Classification:** PCS Licensed Transmitter Held to Ear (PCE)**FCC Rule Part:** §90.691**EUT Type:** Portable Handset**Model(s):** LN272, LG-LN272, LGLN272, LG272**Test Device Serial No.:** *identical prototype* [S/N: RF]**Class II Perm. Change:** See Change Document**Original Grant Date:** 10/06/2011

| Mode | Tx Frequency (MHz) | Emission Designator | ERP/EIRP | |
|----------------|--------------------|---------------------|----------------|------------------|
| | | | Max. Power (W) | Max. Power (dBm) |
| CDMA800 (BC10) | 817.9 - 823.1 | 1M27F9W | 0.121 | 20.83 |

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.

Grant Conditions: Power output listed is ERP for Part 90.

PCTEST certifies that no party to this application has been subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.



Randy Ortanez
President

| | | | | |
|--------------------------------------|----------------------------------|---|--|---------------------------------|
| FCC ID: ZNFLN272 | | BC10 CDMA / EVDO 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

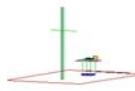
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MEASUREMENT REPORT

BC10 CDMA

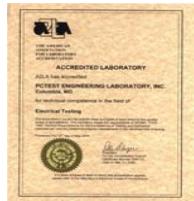


§2.1033 General Information

APPLICANT: LG Electronics MobileComm U.S.A., Inc.
APPLICANT ADDRESS: 10101 Old Grove Road,
 San Diego, CA 92131, USA
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
BASE MODEL: LN272
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
EMISSION DESIGNATOR(S): 1M27F9W (CDMA)
MODE: CDMA / EvDO
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: RF Production Pre-Production Engineering
DATE(S) OF TEST: November 17, 2011
TEST REPORT S/N: 0Y1111151967.ZNF

Test Facility / Accreditations

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



- PCTEST facility is an FCC registered (PCTEST Reg. No. 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.

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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 are, the Baltimore-Washington Interntl (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 C63.4-2003 on January 28, 2009.

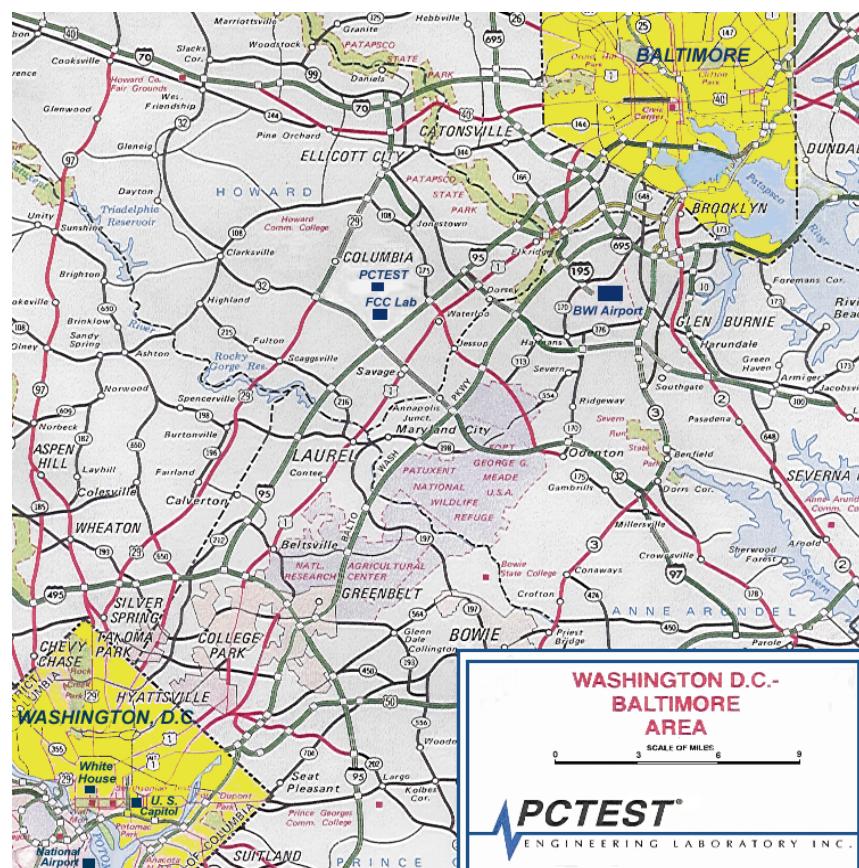


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LGE Portable Handset FCC ID: ZNFLN272**. The EUT consisted of the following component(s):

| Trade Name / Base Model | FCC ID | Description |
|-------------------------|----------|------------------|
| LGE / Model: LN272 | ZNFLN272 | Portable Handset |

Table 2-1. EUT Equipment Description

Note: All data contained in this report is applicable for the device operation in the BC10 (817 – 824 MHz). Test data shown supports the devices compliance with §90.691 of the FCC Rules and Regulation.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO (BC0, BC1, BC10), Bluetooth

2.3 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (See Figure 3-1). The equipment under test is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. This power level was recorded using a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level is recorded with the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

Deviation from Measurement Procedure.....None

3.2 Occupied Bandwidth

§2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

3.3 Radiated Power and Radiated Spurious Emissions

§2.1053, §90.635, §90.691

Radiated power and radiated spurious emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. This level is then measured with a broadband average power meter. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive average power meter reading. This spurious level is recorded with the power meter. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration. This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits.

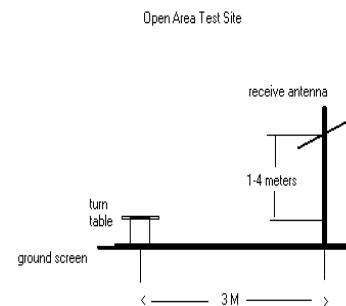


Figure 3-1. Diagram of 3-meter outdoor test range

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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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 |
|-----------------|-----------|------------------------------------|------------|--------------|------------|---------------|
| - | 263-10dB | (DC-18GHz) 10 dB Attenuator | N/A | | N/A | N/A |
| - | No.166 | (1000-26500MHz) Microwave RF Cable | N/A | | N/A | N/A |
| - | No.167 | (100kHz - 100MHz) RG58 Coax Cable | N/A | | N/A | N/A |
| Agilent | 8447D | Broadband Amplifier | 3/17/2011 | Annual | 3/17/2012 | 1937A03348 |
| Agilent | 8449B | (1-26.5GHz) Pre-Amplifier | 2/8/2011 | Annual | 2/8/2012 | 3008A00985 |
| Agilent | E8257D | (250kHz-20GHz) Signal Generator | 4/8/2011 | Annual | 4/8/2012 | MY45470194 |
| Agilent | N9020A | MXA Signal Analyzer | 10/10/2011 | Annual | 10/10/2012 | US46470561 |
| Agilent | N9038A | MXE EMI Receiver | 8/5/2011 | Annual | 8/5/2012 | MY51210133 |
| Anritsu | ML2495A | Power Meter | 10/13/2011 | Annual | 10/13/2012 | 1039008 |
| ETS Lindgren | 3160-09 | 18-26.5 GHz Standard Gain Horn | 5/31/2011 | Annual | 5/31/2012 | 135427 |
| MiniCircuits | VHF-3100+ | High Pass Filter | N/A | | N/A | 30721 |
| Pasternack | PE2209-10 | Bidirectional Coupler | N/A | | N/A | N/A |
| Pasternack | PE7000-6 | 6 dB Attenuator | N/A | | N/A | N/A |
| Rohde & Schwarz | CMU200 | Base Station Simulator | N/A | | N/A | 836536/0005 |
| Rohde & Schwarz | RS-PR26 | 18-26.5 GHz Pre-Amplifier | 6/9/2011 | Annual | 6/9/2012 | 100040 |
| Sunol | DRH-118 | Horn Antenna (1 - 18GHz) | 7/5/2011 | Biennial | 7/5/2013 | A050307 |
| Sunol | JB5 | Bi-Log Antenna (30M - 5GHz) | 12/17/2009 | Biennial | 12/17/2011 | A051107 |

Table 4-1. Test Equipment

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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5.0 SAMPLE CALCULATIONS

Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

Spurious Radiated Emission – Cellular Band

Example: Channel 476 CDMA BC10 Mode 2nd Harmonic (1635.8 MHz)

The average receive power meter 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 power meter. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1635.8 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) = 50.3 dBc.

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6.0 TEST RESULTS

6.1 Summary

Company Name: LG Electronics MobileComm U.S.A., Inc.
 FCC ID: ZNFLN272
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): CDMA / EvDO
 Band: Band Class 10

| FCC Part Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|---------------------|--------------------------|---|----------------|-------------|--------------|
| §90.635 | Effective Radiated Power | < 100 Watts max. ERP | RADIATED | PASS | Section 6.2 |
| §2.1053, §90.691 | Undesirable Emissions | < $43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions | | PASS | Sections 6.3 |

Table 6-1. Summary of Test Results

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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6.2 Effective Radiated Power Output Data

§90.635

| Frequency [MHz] | Mode BC10 | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBi] | Pol [H/V] | ERP [dBm] | ERP [Watts] | Battery Type |
|-----------------|-----------|----------------------|------------------------|--------------------|-----------|-----------|-------------|--------------|
| 817.90 | Ch. 476 | -16.980 | 20.34 | 0.00 | V | 20.34 | 0.108 | Standard |
| 823.10 | Ch. 684 | -16.490 | 20.83 | 0.00 | V | 20.83 | 0.121 | Standard |

Table 6-2. Effective Radiated Power Output Data

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This level is recorded using the power meter. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the vertical, slider-in position. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: ZNFLN272 |  | BC10 CDMA / EvDO MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1111151967.ZNF | Test Dates: November 17, 2011 | EUT Type: Portable Handset | | Page 10 of 13 |

6.3 BC10 CDMA Radiated Measurements

§2.1053, §90.691

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 817.90 MHz
 CHANNEL: 476
 MEASURED OUTPUT POWER: 20.34 dBm = 0.108 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.34 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1635.80 | -45.48 | 6.42 | -39.06 | V | 59.4 |
| 2453.70 | -50.27 | 6.42 | -43.85 | V | 64.2 |
| 3271.60 | -53.56 | 6.74 | -46.82 | V | 67.2 |
| 4089.50 | -91.02 | 7.55 | -83.47 | V | 103.8 |
| 4907.40 | -87.70 | 7.57 | -80.14 | V | 100.5 |

Table 6-3. Radiated Spurious Data (CDMA Mode – BC10 Ch. 476)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the vertical, slider-in position. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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BC10 CDMA Radiated Measurements (Cont'd)

§2.1053, §90.691

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 823.10 MHz
 CHANNEL: 684
 MEASURED OUTPUT POWER: 20.83 dBm = 0.121 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.83 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBD) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1646.20 | -37.44 | 6.43 | -31.01 | V | 51.8 |
| 2469.30 | -48.08 | 6.77 | -41.32 | V | 62.1 |
| 3292.40 | -51.27 | 7.55 | -43.72 | V | 64.6 |
| 4115.50 | -87.87 | 7.81 | -80.06 | V | 100.9 |
| 4938.60 | -85.79 | 9.02 | -76.76 | V | 97.6 |

Table 6-4. Radiated Spurious Data (CDMA Mode – BC10 Ch. 684)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004.

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the vertical, slider-in position. The data reported in the table above was measured in this test setup.

| | | | | |
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7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LGE Portable Handset** **FCC ID: ZNFLN272** complies with all the requirements of Part 90 of the FCC rules.

| | | | | |
|--------------------------------------|--|---|---|---------------------------------|
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