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MEASUREMENT REPORT FCC Part 24 & 27 LTE

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

Date of Testing:
07/02 - 07/03/13
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1306241087.ZNF

FCC ID :	ZNFD801
APPLICANT:	LG ELECTRONICS MOBILECOMM U.S.A

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2; §24; §27
EUT Type: Portable Handset
Model(s): LG-D801, D801, LGD801
Test Device Serial No.: *identical prototype* [S/N: RF Rad #1]
Class II Permissive Change: Please see FCC change documents.
Original Grant Date: 7/23/2013

Mode	Tx Frequency (MHz)	Emission Designator	Modulation	ERP/EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE Band 17	706.5 - 713.5	4M50G7D	QPSK	0.027	14.35
LTE Band 17	706.5 - 713.5	4M50W7D	16QAM	0.021	13.30
LTE Band 17	709 - 711	8M99G7D	QPSK	0.028	14.48
LTE Band 17	709 - 711	8M98W7D	16QAM	0.021	13.31
LTE Band 4	1712.5 - 1752.5	4M49G7D	QPSK	0.215	23.33
LTE Band 4	1712.5 - 1752.5	4M49W7D	16QAM	0.159	22.01
LTE Band 4	1715 - 1750	8M98G7D	QPSK	0.188	22.73
LTE Band 4	1715 - 1750	8M94W7D	16QAM	0.146	21.64
LTE Band 4	1717.5 - 1747.5	13M5G7D	QPSK	0.165	22.17
LTE Band 4	1717.5 - 1747.5	13M4W7D	16QAM	0.129	21.10
LTE Band 4	1720 - 1745	17M9G7D	QPSK	0.163	22.12
LTE Band 4	1720 - 1745	17M9W7D	16QAM	0.125	20.97
LTE Band 2	1852.5 - 1907.5	4M49G7D	QPSK	0.114	20.58
LTE Band 2	1852.5 - 1907.5	4M49W7D	16QAM	0.085	19.30
LTE Band 2	1855 - 1905	8M99G7D	QPSK	0.122	20.85
LTE Band 2	1855 - 1905	8M96W7D	16QAM	0.093	19.67

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

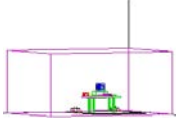


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Test Report S/N: 0Y1306241087.ZNF	Test Dates: 07/02 - 07/03/13	EUT Type: Portable Handset		Page 1 of 24

T A B L E O F C O N T E N T S

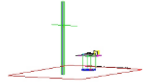
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MEASUREMENT REPORT

FCC Part 24 & 27



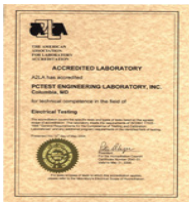
§2.1033 General Information



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; §24; §27
BASE MODEL: LG-D801
FCC ID: ZNFD801
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: RF Rad #1 Production Pre-Production Engineering
DATE(S) OF TEST: 07/02 - 07/03/13
TEST REPORT S/N: 0Y1306241087.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 Internt'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.

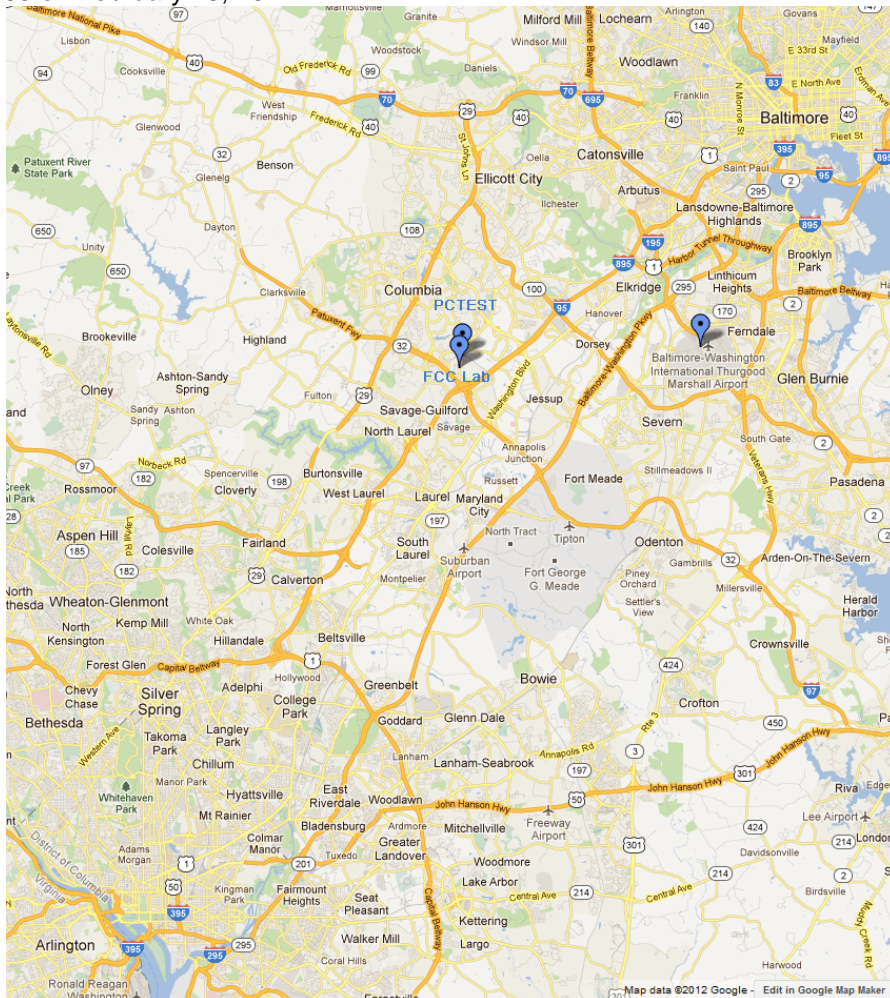




Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFD801**. 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, Band 2, 4, 17 LTE, 802.11a/b/g/n/ac WLAN (DTS/NII), Bluetooth (1x,EDR, LE), NFC



2.3 EMI Suppression Device(s)/Modifications

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

2.4 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: ZNFD801**.

3.2 Block A Frequency Range

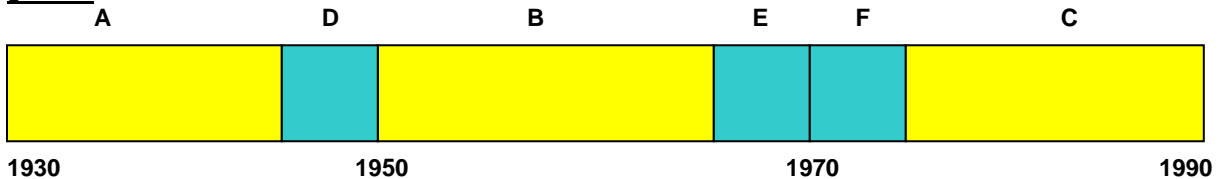
§27.5(c)

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 PCS - Base Frequency Blocks

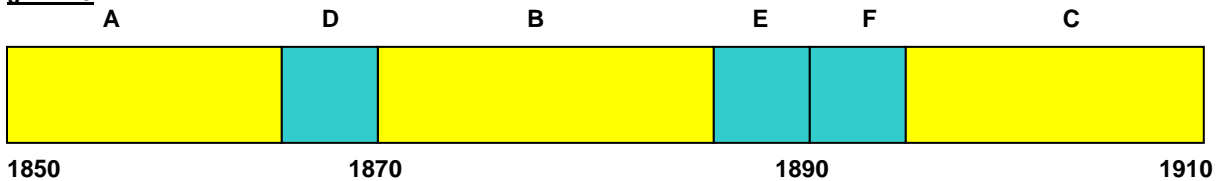
§24.229



BLOCK 1: 1930 – 1945 MHz (A)	BLOCK 4: 1965 – 1970 MHz (E)
BLOCK 2: 1945 – 1950 MHz (D)	BLOCK 5: 1970 – 1975 MHz (F)
BLOCK 3: 1950 – 1965 MHz (B)	BLOCK 6: 1975 – 1990 MHz (C)

3.4 PCS - Mobile Frequency Blocks



§24.229

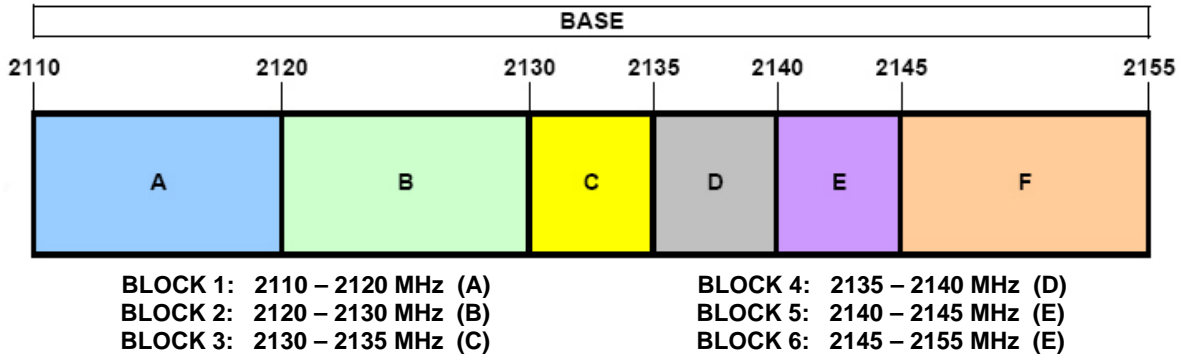


BLOCK 1: 1850 – 1865 MHz (A)	BLOCK 4: 1885 – 1890 MHz (E)
BLOCK 2: 1865 – 1870 MHz (D)	BLOCK 5: 1890 – 1895 MHz (F)
BLOCK 3: 1870 – 1885 MHz (B)	BLOCK 6: 1895 – 1910 MHz (C)

3.5 AWS - Base Frequency Blocks

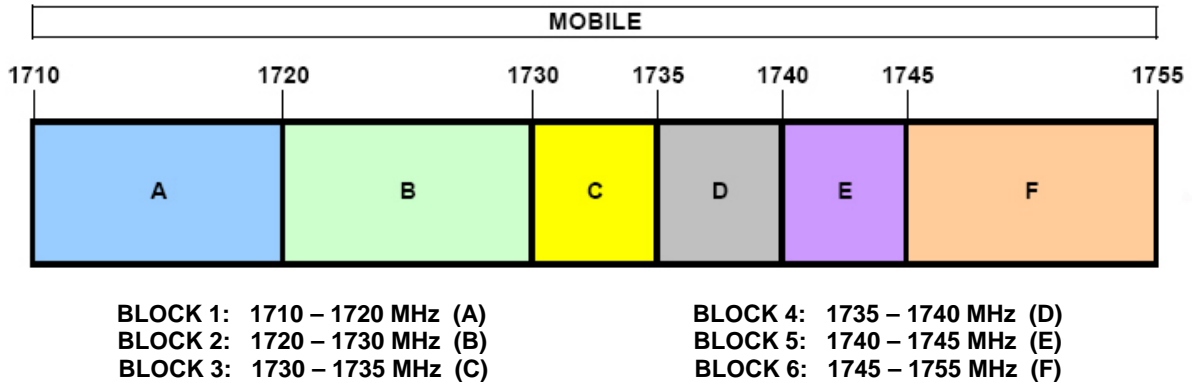
§27.5(h)



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3.6 AWS - Mobile Frequency Blocks

§27.5(h)



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3.7 Radiated Power and Radiated Spurious Emissions

§2.1053 §24.232(c) §24.238(a) §27.50(c.10) §27.50(d.4) §27.53(g) RSS-133(6.4) RSS-133(6.5.1) RSS-139(6.5.1)

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. 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:

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

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 $P_g [dBm] - \text{cable loss} [dB]$.

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 $43 + 10\log_{10}(\text{Power}_{[Watts]})$ specified in 22.917(a) and 24.238(a).

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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)	3/29/2013	Annual	3/29/2014	N/A
Agilent	8447D	Broadband Amplifier	5/31/2013	Annual	5/31/2014	2443A01900
Emco	3115	Horn Antenna (1-18GHz)	1/12/2012	Biennial	1/12/2014	9704-5182
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	11/7/2012	Biennial	11/7/2014	128338
Mini-Circuits	VHF-1200+	High Pass Filter	1/17/2013	Annual	1/17/2014	30923
Mini-Circuits	VHF-3100+	High Pass Filter	1/17/2013	Annual	1/17/2014	30841
Mini-Circuits	SSG-4000HP	USB Synthesized Signal Generator	N/A			11208010032
Mini-Circuits	PWR-SENS-4RMS	USB Power Sensor	4/17/2013	Annual	4/17/2014	11210140001
Mini-Circuits	TVA-11-422	RF Power Amp	N/A			QA1303002
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	10/7/2011	Biennial	10/7/2013	103962
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	5/31/2013	Annual	5/31/2014	100071
Rohde & Schwarz	ESU26	EMI Test Receiver	2/25/2013	Annual	2/25/2014	100342
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	11/14/2011	Biennial	11/14/2013	9105-2404
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Tx	11/14/2011	Biennial	11/14/2013	9105-2403
Seekonk	NC-100	Torque Wrench (8" lb)	3/5/2012	Triennial	3/5/2015	N/A
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/26/2012	Biennial	1/26/2014	A051107

Table 4-1. Test Equipment

Notes:

1. Equipment used for signaling with a calibration date of "N/A" shown in this list was only used for maintaining a link between the piece of equipment and the EUT. This equipment was not used to make direct calibrated measurements.

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5.0 SAMPLE CALCULATIONS

Emission Designator

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz
 G = Phase Modulation
 7 = Quantized/Digital Info
 D = Amplitude/Angle Modulated

16QAM Modulation



Emission Designator = 8M45W7D

LTE BW = 8.45 MHz
 W = Amplitude/Angle Modulated
 7 = Quantized/Digital Info
 D = Combination (Audio/Data)

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: ZNFD801
 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)					
2.1046	Transmitter Conducted Output Power	N/A		PASS	See RF Exposure Report
27.50(c.10)	Effective Radiated Power (Band 17)	< 3 Watts max. ERP	RADIATED	PASS	Section 6.2
24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	< 2 Watts max. EIRP		PASS	Section 6.3
27.50(d.4)	Equivalent Isotropic Radiated Power (Band 4)	< 1 Watts max. EIRP		PASS	Section 6.3
2.1053 24.238(a) 27.53(g) 27.53(h)	Undesirable Emissions	> 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Section 6.4, 6.5, 6.6

Table 6-1. Summary of Test Results

Notes:

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

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6.2 Effective Radiated Power (ERP)



§27.50(c.10)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery	RB Size/Offset	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Margin [dB]
706.50	5	QPSK	Standard	1/0	9.16	4.50	H2	13.66	0.023	-21.11
710.00	5	QPSK	Standard	1/24	8.85	4.57	H2	13.42	0.022	-21.35
713.50	5	QPSK	Standard	1/24	9.71	4.64	H2	14.35	0.027	-20.42
706.50	5	16-QAM	Standard	1/0	7.78	4.50	H2	12.28	0.017	-22.49
710.00	5	16-QAM	Standard	1/24	7.69	4.57	H2	12.26	0.017	-22.51
713.50	5	16-QAM	Standard	1/24	8.66	4.64	H2	13.30	0.021	-21.47
709.00	10	QPSK	Standard	1/49	8.68	4.50	H2	13.18	0.021	-21.59
710.00	10	QPSK	Standard	1/49	9.91	4.57	H2	14.48	0.028	-20.29
711.00	10	QPSK	Standard	1/49	9.61	4.64	H2	14.25	0.027	-20.52
709.00	10	16-QAM	Standard	1/49	7.35	4.50	H2	11.85	0.015	-22.92
710.00	10	16-QAM	Standard	1/49	8.58	4.57	H2	13.15	0.021	-21.62
711.00	10	16-QAM	Standard	1/49	8.67	4.64	H2	13.31	0.021	-21.46

Table 6-2. ERP Data (Band 17)

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H2] positioning. The data reported in the table above was measured in this test setup.

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6.3 Equivalent Isotropic Radiated Power (EIRP)



§24.232(c) §27.50(d.4) RSS-133(6.4) RSS-139(6.4)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery	RB Size/Offset	Substitute Level [dBm]	Antenna Gain [dBi]	Pol [H/V]	EIRP [dBm]	EIRP [Watts]	Margin [dB]
1712.50	5	QPSK	Standard	1/24	11.61	9.89	H2	21.50	0.141	-8.50
1732.50	5	QPSK	Standard	1/0	9.75	9.85	H2	19.60	0.091	-10.40
1752.50	5	QPSK	Standard	1/24	13.53	9.80	H2	23.33	0.215	-6.67
1712.50	5	16-QAM	Standard	1/24	10.48	9.89	H2	20.37	0.109	-9.63
1732.50	5	16-QAM	Standard	1/0	8.91	9.85	H2	18.76	0.075	-11.24
1752.50	5	16-QAM	Standard	1/0	12.21	9.80	H2	22.01	0.159	-7.99
1715.00	10	QPSK	Standard	1/0	11.85	9.89	H2	21.74	0.149	-8.26
1732.50	10	QPSK	Standard	1/0	10.72	9.85	H2	20.57	0.114	-9.43
1750.00	10	QPSK	Standard	1/49	12.93	9.80	H2	22.73	0.188	-7.27
1715.00	10	16-QAM	Standard	1/0	10.78	9.89	H2	20.67	0.117	-9.33
1732.50	10	16-QAM	Standard	1/0	9.61	9.85	H2	19.46	0.088	-10.54
1750.00	10	16-QAM	Standard	1/49	11.84	9.80	H2	21.64	0.146	-8.36
1717.50	15	QPSK	Standard	1/74	11.33	9.89	H2	21.22	0.132	-8.78
1732.50	15	QPSK	Standard	1/0	10.51	9.85	H2	20.36	0.109	-9.64
1747.50	15	QPSK	Standard	1/74	12.37	9.80	H2	22.17	0.165	-7.83
1717.50	15	16-QAM	Standard	1/74	10.23	9.89	H2	20.12	0.103	-9.88
1732.50	15	16-QAM	Standard	1/0	9.40	9.85	H2	19.25	0.084	-10.75
1747.50	15	16-QAM	Standard	1/74	11.30	9.80	H2	21.10	0.129	-8.90
1720.00	20	QPSK	Standard	1/0	12.23	9.89	H2	22.12	0.163	-7.88
1732.50	20	QPSK	Standard	1/0	11.84	9.85	H2	21.69	0.147	-8.31
1745.00	20	QPSK	Standard	1/0	11.63	9.80	H2	21.43	0.139	-8.57
1720.00	20	16-QAM	Standard	1/0	11.08	9.89	H2	20.97	0.125	-9.03
1732.50	20	16-QAM	Standard	1/0	10.71	9.85	H2	20.56	0.114	-9.44
1745.00	20	16-QAM	Standard	1/0	10.47	9.80	H2	20.27	0.107	-9.73

Table 6-3. EIRP Data (Band 4)

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The “H” positioning is defined with the EUT lying flat on the test surface, the “H2” positioning is defined with the EUT standing up on its side, and the “V” positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H2] positioning. The data reported in the table above was measured in this test setup.



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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery	RB Size/Offset	Substitute Level [dBm]	Antenna Gain [dBi]	Pol [H/V]	EIRP [dBm]	EIRP [Watts]	Margin [dB]
1852.50	5	QPSK	Standard	1/0	10.99	9.59	H	20.58	0.114	-12.43
1880.00	5	QPSK	Standard	1/0	10.27	9.53	H	19.80	0.096	-13.21
1907.50	5	QPSK	Standard	1/0	10.18	9.48	H	19.66	0.092	-13.35
1852.50	5	16-QAM	Standard	1/0	9.71	9.59	H	19.30	0.085	-13.71
1880.00	5	16-QAM	Standard	1/0	9.07	9.53	H	18.60	0.072	-14.41
1907.50	5	16-QAM	Standard	1/0	9.06	9.48	H	18.54	0.071	-14.47
1855.00	10	QPSK	Standard	1/0	11.26	9.59	H	20.85	0.122	-12.16
1880.00	10	QPSK	Standard	1/0	11.21	9.53	H	20.74	0.119	-12.27
1905.00	10	QPSK	Standard	1/0	10.86	9.48	H	20.34	0.108	-12.67
1855.00	10	16-QAM	Standard	1/0	9.95	9.59	H	19.54	0.090	-13.47
1880.00	10	16-QAM	Standard	1/0	10.14	9.53	H	19.67	0.093	-13.34
1905.00	10	16-QAM	Standard	1/0	9.83	9.48	H	19.31	0.085	-13.70

Table 6-4. EIRP Data (Band 2)

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The “H” positioning is defined with the EUT lying flat on the test surface, the “H2” positioning is defined with the EUT standing up on its side, and the “V” positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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6.4 Band 17 Radiated Spurious Emissions

§2.1053 §27.53(g)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 709.00 MHz
 MEASURED OUTPUT POWER: 13.18 dBm = 0.021 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 26.18 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1418.00	-56.24	5.78	-50.46	H	63.65
2127.00	-53.54	6.05	-47.50	H	60.68
2836.00	-58.09	7.16	-50.93	H	64.11
3545.00	-58.06	8.40	-49.66	H	62.84
4254.00	-57.33	9.38	-47.95	H	61.13
4963.00	-58.49	10.01	-48.48	H	61.66

Table 6-5. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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Band 17 Radiated Spurious Measurements (continued)
§2.1053 §27.53(g)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 710.00 MHz
 MEASURED OUTPUT POWER: 14.48 dBm = 0.028 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 27.48 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1420.00	-55.40	5.83	-49.57	H	64.06
2130.00	-53.77	6.07	-47.70	H	62.18
2840.00	-56.68	7.17	-49.50	H	63.99
3550.00	-57.30	8.40	-48.90	H	63.39
4260.00	-57.99	9.40	-48.59	H	63.08
4970.00	-57.60	10.05	-47.55	H	62.03

Table 6-6. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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Band 17 Radiated Spurious Measurements (continued)
§2.1053 §27.53(g)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 711.00 MHz
 MEASURED OUTPUT POWER: 14.25 dBm = 0.027 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 27.25 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1422.00	-56.47	5.88	-50.59	H	64.85
2133.00	-55.39	6.09	-49.30	H	63.56
2844.00	-57.74	7.19	-50.55	H	64.80
3555.00	-57.80	8.40	-49.40	H	63.66
4266.00	-57.77	9.40	-48.37	H	62.62
4977.00	-57.42	10.09	-47.33	H	61.58

Table 6-7. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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6.5 Band 4 Radiated Spurious Emissions

§2.1053 §27.53(h) RSS-139(6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1712.50 MHz
 MEASURED OUTPUT POWER: 21.50 dBm = 0.141 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 34.50 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3425.00	-50.68	8.09	-42.58	H	64.08
5137.50	-57.18	10.21	-46.97	H	68.47
6850.00	-54.77	11.31	-43.46	H	64.96
8562.50	-46.19	13.02	-33.17	H	54.67
10275.00	-41.39	13.01	-28.38	H	49.88
11987.50	-50.35	13.21	-37.14	H	58.64

Table 6-8. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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Band 4 Radiated Spurious Measurements (continued)
§2.1053 §27.53(h) RSS-139(6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1732.50 MHz
 MEASURED OUTPUT POWER: 19.60 dBm = 0.091 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.60 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3465.00	-51.33	8.26	-43.06	H	62.66
5197.50	-57.78	10.26	-47.52	H	67.12
6930.00	-56.89	11.42	-45.47	H	65.07
8662.50	-55.14	13.07	-42.08	H	61.67
10395.00	-43.82	13.12	-30.71	H	50.30
12127.50	-50.19	13.25	-36.94	H	56.54

Table 6-9. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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Band 4 Radiated Spurious Measurements (continued)
§2.1053 §27.53(h) RSS-139(6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1752.50 MHz
 MEASURED OUTPUT POWER: 23.33 dBm = 0.215 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.33 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3505.00	-55.22	8.40	-46.82	H	70.15
5257.50	-53.61	10.32	-43.29	H	66.63
7010.00	-55.23	11.51	-43.72	H	67.05
8762.50	-54.73	13.11	-41.62	H	64.96
10515.00	-52.68	13.20	-39.48	H	62.82
12267.50	-50.25	13.31	-36.94	H	60.27

Table 6-10. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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6.6 Band 2 Radiated Spurious Emissions
§2.1053 §24.238(a) RSS-133(6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1855.00 MHz
 MEASURED OUTPUT POWER: 20.85 dBm = 0.122 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.85 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3710.00	-40.53	8.40	-32.13	H	52.98
5565.00	-50.18	10.63	-39.55	H	60.40
7420.00	-48.87	11.84	-37.03	H	57.88
9275.00	-55.97	13.29	-42.68	H	63.53
11130.00	-41.82	13.50	-28.32	H	49.16
12985.00	-49.13	13.68	-35.45	H	56.30

Table 6-11. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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Band 2 Radiated Spurious Measurements (continued)
§2.1053 §24.238(a) RSS-133(6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1880.00 MHz
 MEASURED OUTPUT POWER: 20.74 dBm = 0.119 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.74 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-42.38	8.42	-33.95	H	54.69
5640.00	-56.92	10.66	-46.26	H	67.00
7520.00	-48.13	11.92	-36.20	H	56.95
9400.00	-55.25	13.24	-42.01	H	62.75
11280.00	-42.74	13.49	-29.25	H	49.99
13160.00	-47.82	13.83	-34.00	H	54.74

Table 6-12. Radiated Spurious Data

NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. The data reported in the table above was measured in this test setup.

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Band 2 Radiated Spurious Measurements (continued)
§2.1053 §24.238(a) RSS-133(6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1905.00 MHz
 MEASURED OUTPUT POWER: 20.34 dBm = 0.108 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.34 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3810.00	-42.52	8.55	-33.98	H	54.32
5715.00	-56.73	10.69	-46.04	H	66.38
7620.00	-52.34	12.05	-40.30	H	60.64
9525.00	-42.48	13.20	-29.28	H	49.61
11430.00	-40.51	13.43	-27.08	H	47.42
13335.00	-48.40	14.00	-34.39	H	54.73

Table 6-13. Radiated Spurious Data



NOTES:

1. This device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported in the tables above.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found with the EUT in the [H] positioning. 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 **LG Portable Handset FCC ID: ZNFD801** complies with all the requirements of Parts 2, 24, 27 of the FCC rules for LTE operation only.

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