PCTEST ENGINEERING LABORATORY, INC.



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MEASUREMENT REPORT FCC Part 22, 24, & 27

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

Date of Testing: 12/19/2016-1/10/17 Test Site/Location: PCTEST Lab., Columbia, MD, USA **Test Report Serial No.:** 1M1701030001-02.ZNF

FCC ID: ZNFLS777

APPLICANT: LG ELECTRONICS MOBILECOMM U.S.A

Application Type: Class II Permissive Change

Model: LG-LS777

LGLS777, LS777 Additional Model(s): **EUT Type:** Portable Handset

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s): §2 §22(H) §24(E) §27(L)

Test Procedure(s): ANSI/TIA-603-D-2010, KDB 971168 D01 v02r02

Test Device Serial No.: [S/N: 06841]

Class II Permissive Change: Please see FCC change document

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.







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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 21046 USA

FCC RULE PART(S): §2 §22(H) §24(E) §27(L)

BASE MODEL: LG-LS777 **FCC ID:** ZNFLS777

FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

MODE: GSM / GPRS / EGPRS / CDMA / WCDMA

FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)

Test Device Serial No.: 06841 ☐ Production ☐ Production ☐ Engineering

DATE(S) OF TEST: 12/19/2016-1/10/17 **TEST REPORT S/N:** 1M1701030001-02.ZNF

Test Facility / Accreditations

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

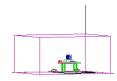
- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards 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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			ERP/	EIRP
Mode	FCC Rule Part	Tx Frequency (MHz)	Max. Power (W)	Max. Power (dBm)
GPRS850	22H	824.2 - 848.8	0.935	29.71
EDGE850	22H	824.2 - 848.8	0.152	21.81
WCDMA850	22H	826.4 - 846.6	0.120	20.80
CDMA850	22H	824.70 - 848.31	0.100	20.01
WCDMA1700	27	1712.4 - 1752.6	0.350	25.44
GPRS1900	24E	1850.2 - 1909.8	1.274	31.05
EDGE1900	24E	1850.2 - 1909.8	0.172	22.36
WCDMA1900	24E	1852.4 - 1907.6	0.271	24.32
CDMA1900	24E	1851.25 - 1908.75	0.232	23.65

EUT Overview

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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'i (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2014 on January 22, 2015.

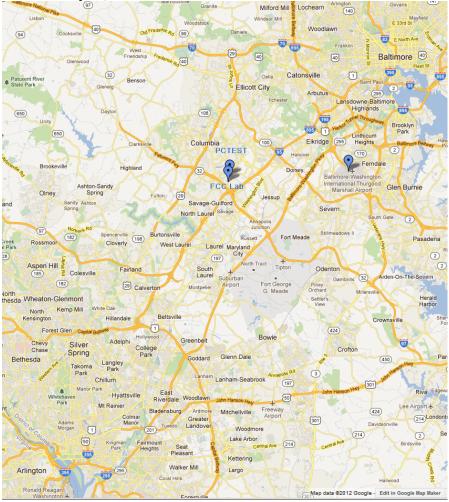


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFLS777**. The test data contained in this report pertains only to the emissions due to the EUT's 2G/3G licensed transmitters.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO Rev0/A (BC0, BC1, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, Bluetooth (1x, EDR, LE)

2.3 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-D-2010 and KDB 971168 D01 v02r02. See Section 7.0 of this test report for a description of the radiated tests.

2.4 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 Evaluation Procedure

The measurement procedures described in the "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-D-2010) and "Measurement Guidance for Certification of Licensed Digital Transmitters" (KDB 971168 D01 v02r02) were used in the measurement of the EUT.

Deviation from Measurement Procedure......None

3.2 Cellular - Base Frequency Blocks §22.905



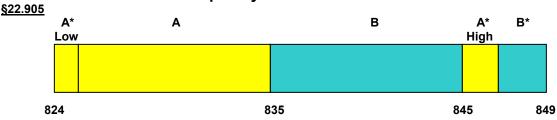
BLOCK 1: 869 - 880 MHz (A* Low + A)

BLOCK 3: 890 - 891.5 MHz (A* High)

BLOCK 2: 880 - 890 MHz (B)

BLOCK 4: 891.5 - 894 MHz (B*)

3.3 Cellular - Mobile Frequency Blocks



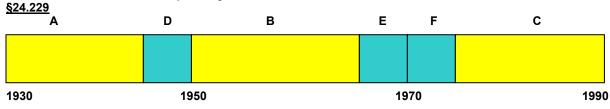
BLOCK 1: 824 - 835 MHz (A* Low + A)

BLOCK 3: 845 - 846.5 MHz (A* High)

BLOCK 2: 835 - 845 MHz (B)

BLOCK 4: 846.5 - 849 MHz (B*)

3.4 PCS - Base Frequency Blocks



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)

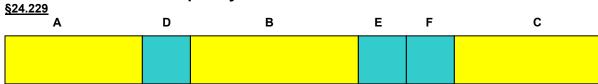
BLOCK 6: 1975 - 1990 MHz (C)

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1850

3.5 PCS - Mobile Frequency Blocks



BLOCK 1: 1850 - 1865 MHz (A)

1870

BLOCK 4: 1885 - 1890 MHz (E)

1910

1890

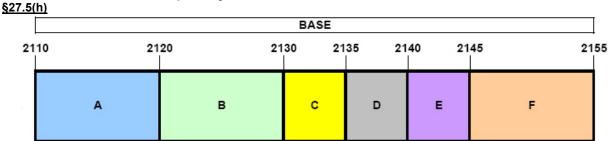
BLOCK 2: 1865 - 1870 MHz (D)

BLOCK 5: 1890 - 1895 MHz (F)

BLOCK 3: 1870 - 1885 MHz (B)

BLOCK 6: 1895 - 1910 MHz (C)

3.6 AWS - Base Frequency Blocks



BLOCK 1: 2110 - 2120 MHz (A)

BLOCK 4: 2135 - 2140 MHz (D)

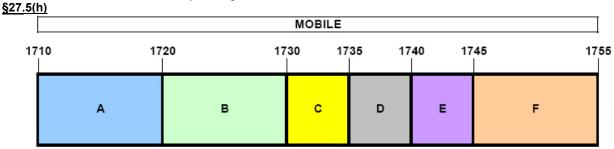
BLOCK 2: 2120 - 2130 MHz (B)

BLOCK 5: 2140 – 2145 MHz (E)

BLOCK 3: 2130 - 2135 MHz (C)

BLOCK 6: 2145 - 2155 MHz (F)

3.7 AWS - Mobile Frequency Blocks



BLOCK 1: 1710 - 1720 MHz (A)

BLOCK 4: 1735 - 1740 MHz (D)

BLOCK 2: 1720 - 1730 MHz (B)

BLOCK 5: 1740 - 1745 MHz (E)

BLOCK 3: 1730 - 1735 MHz (C)

BLOCK 6: 1745 - 1755 MHz (F)

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3.8 Radiated Measurements

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.50(d)(10) §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 Figure 5.7 of Clause 5 in ANSI C63.4-2014. 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 above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table 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 72.4cm high PVC support structure is placed on top of the turntable. A 3" (~7.6cm) sheet of high density polystyrene 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 turntable 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.

Per the guidance of ANSI/TIA-603-D-2010, 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:

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 $P_{q \mid dBml}$ – cable loss f_{dBl} .

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI/ITA-603-D-2010.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2006.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	7/11/2016	Annual	7/11/2017	RE1
Agilent	E5515C	Wireless Communications Test Set	3/4/2016	Biennial	3/4/2018	GB45360985
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/26/2016	Biennial	4/26/2018	125518
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	4/26/2016	Biennial	4/26/2018	128337
Mini Circuits	TVA-11-422	RF Power Amp N/A				QA1317001
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11403100002
Mini Circuits	PWR-SEN-4GHS	USB Power Sensor	3/4/2016	Annual	3/4/2017	11401010036
PCTEST	-	EMC Switch System	7/6/2016	Annual	7/6/2017	NM2
Rhode & Schwarz	CMU200	Base Station Simulator		N/A		107826
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	7/15/2016	Annual	7/15/2017	100348
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	3/30/2016	Biennial	3/30/2018	9105-2404
Schwarzbeck	NC-100	Torque Wrench 5/16", 8" lbs	3/2/2016	Biennial	3/2/2018	N/A

Table 5-1. Test Equipment

Notes:

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

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6.0 SAMPLE CALCULATIONS

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive 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 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

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7.0 TEST RESULTS

7.1 Summary

Company Name: <u>LG Electronics MobileComm U.S.A</u>

FCC ID: ZNFLS777

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

Mode(s): <u>GSM / GPRS / EGPRS / CDMA / WCDMA</u>

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
22.913(a.2)	Effective Radiated Power	< 7 Watts max. ERP		PASS	Section 7.2
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS	Section 7.2
27.50(d.4)	Equivalent Isotropic Radiated Power	< 1 Watts max. EIRP	RADIATED	PASS	Section 7.2
2.1053 22.917(a) 24.238(a) 27.53(h)	Radiated Spurious Emissions	> 43 + log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Section 7.3

Table 7-1. 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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7.2 Radiated Power (ERP/EIRP) §22.913(a)(2) 24.232(c) 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-D-2010 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 RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v02r02 - Section 5.2.1

ANSI/TIA-603-D-2010 - 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. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
- 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 > 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".
 Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
- 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.

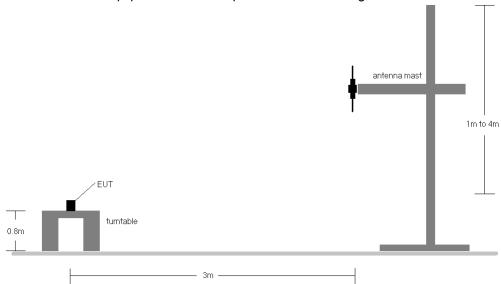


Figure 7-1. Radiated Test Setup <1GHz

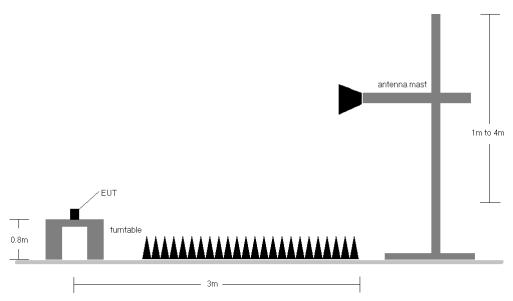


Figure 7-2. Radiated Test Setup >1GHz

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Test Notes

- This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all
 configurations and the highest power is reported in GPRS mode while transmitting with one slot
 active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, and HSUPA capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive and TPC bits all set to "1."
- This device employs CDMA technology with EVDO capabilities. The EUT was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits
- 4) This unit was tested with its standard battery.
- 5) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.

Frequency [MHz]	wode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.20	GPRS850	>	148	210	24.35	5.36	29.71	0.935	38.45	-8.74
836.60	GPRS850	٧	162	12	24.20	5.15	29.35	0.861	38.45	-9.10
848.80	GPRS850	٧	151	0	24.24	5.16	29.40	0.872	38.45	-9.05
824.20	GPRS850	Н	100	240	22.58	5.49	28.07	0.641	38.45	-10.38
824.20	EDGE850	٧	148	210	16.45	5.36	21.81	0.152	38.45	-16.64

Table 7-2. ERP (Cellular GPRS)

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Frequency [MHz]	wode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	CDMA850	Н	399	209	14.50	5.51	20.01	0.100	38.45	-18.44
836.52	CDMA850	Н	399	213	14.37	5.14	19.51	0.089	38.45	-18.94
848.31	CDMA850	Н	358	209	14.04	4.68	18.72	0.074	38.45	-19.73
824.70	CDMA850	٧	117	362	9.57	5.36	14.93	0.031	38.45	-23.52

Table 7-3. ERP (Cellular CDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	Н	393	214	15.29	5.51	20.80	0.120	38.45	-17.65
836.60	WCDMA850	Н	408	217	14.26	5.13	19.39	0.087	38.45	-19.06
846.60	WCDMA850	Н	356	213	14.33	4.67	19.00	0.079	38.45	-19.46
826.40	WCDMA850	٧	110	32	13.16	5.34	18.50	0.071	38.45	-19.95

Table 7-4. ERP (Cellular WCDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	Н	112	282	15.83	9.61	25.44	0.350	30.00	-4.56
1732.60	WCDMA1700	Н	107	276	14.85	9.50	24.35	0.272	30.00	-5.65
1752.60	WCDMA1700	Н	108	271	13.65	9.39	23.04	0.202	30.00	-6.96
1712.40	WCDMA1700	٧	135	103	14.39	9.43	23.82	0.241	30.00	-6.18

Table 7-5. EIRP (AWS WCDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	>	119	281	22.08	8.97	31.05	1.274	33.01	-1.96
1880.00	GPRS1900	٧	118	264	20.88	8.99	29.87	0.971	33.01	-3.14
1909.80	GPRS1900	٧	110	281	20.60	8.98	29.58	0.908	33.01	-3.43
1850.20	GPRS1900	Н	110	236	21.64	9.12	30.76	1.191	33.01	-2.25
1850.20	EDGE1900	٧	119	281	13.39	8.97	22.36	0.172	33.01	-10.65

Table 7-6. EIRP (PCS GPRS)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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Frequency [MHz]	wode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1851.25	CDMA1900	Н	110	99	13.46	9.12	22.58	0.181	33.01	-10.43
1880.00	CDMA1900	Η	110	97	14.55	9.10	23.65	0.232	33.01	-9.36
1908.75	CDMA1900	Н	110	94	12.65	9.16	21.81	0.152	33.01	-11.20
1880.00	CDMA1900	٧	161	285.*	11.51	8.99	20.50	0.112	33.01	-12.51

Table 7-7. EIRP (PCS CDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	Н	112	149	14.52	9.12	23.64	0.231	33.01	-9.37
1880.00	WCDMA1900	Н	101	192	15.22	9.10	24.32	0.271	33.01	-8.69
1907.60	WCDMA1900	Н	100	196	15.04	9.15	24.19	0.262	33.01	-8.82
1880.00	WCDMA1900	٧	124	209	13.86	8.99	22.85	0.193	33.01	-10.16

Table 7-8. EIRP (PCS WCDMA)

FCC ID: ZNFLS777	PCTEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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7.3 Radiated Spurious Emissions Measurements §2.1053 §22.917(a) 24.238(a) 27.53(h)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically 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 maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v02r02 - Section 5.8

ANSI/TIA-603-D-2010 - Section 2.2.12

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW ≥ 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points > 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. 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.

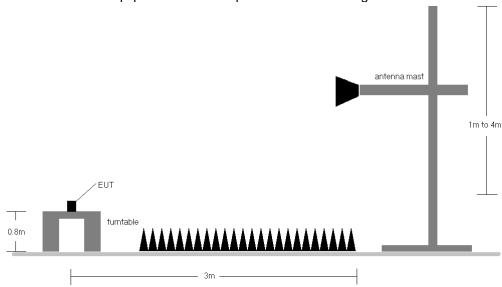


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, and HSUPA capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive and TPC bits all set to "1."
- 3) This device employs CDMA technology with EVDO capabilities. The EUT was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 4) This unit was tested with its standard battery.
- 5) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) 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.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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OPERATING FREQUENCY: 824.20 MHz

CHANNEL: 128

MEASURED OUTPUT POWER: 29.71 dBm = 0.935 W

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 42.71$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1648.40	V	143	87	-56.66	6.28	-50.37	80.1
2472.60	V	100	47	-49.17	6.89	-42.28	72.0
3296.80	V	-	-	-54.51	7.10	-47.41	77.1
4121.00	V	-	-	-53.05	7.71	-45.34	75.0

Table 7-9. Radiated Spurious Data (Cellular GPRS Mode - Ch. 128)

OPERATING FREQUENCY: 836.60 MHz

CHANNEL: 190

MEASURED OUTPUT POWER: 29.35 dBm = 0.861 W

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

LIMIT: $\overline{43 + 10 \log_{10} (W)}$ = 42.35 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1673.20	V	132	133	-54.59	6.21	-48.38	77.7
2509.80	V	100	87	-48.39	6.90	-41.49	70.8
3346.40	V	-	-	-55.38	7.26	-48.11	77.5
4183.00	V	-	-	-51.45	8.11	-43.34	72.7

Table 7-10. Radiated Spurious Data (Cellular GPRS Mode – Ch. 190)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	.G	Approved by: Quality Manager
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OPERATING FREQUENCY: 848.80 MHz

CHANNEL: 251

MEASURED OUTPUT POWER: 29.40 dBm = 0.872 W

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 42.40$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1697.60	V	147	328	-46.55	6.14	-40.41	69.8
2546.40	V	100	124	-49.33	7.03	-42.30	71.7
3395.20	V	-	-	-53.95	7.43	-46.52	75.9
4244.00	V	-	-	-52.56	8.41	-44.15	73.6

Table 7-11. Radiated Spurious Data (Cellular GPRS Mode - Ch. 251)

OPERATING FREQUENCY: 824.70 MHz

CHANNEL: 1013

MEASURED OUTPUT POWER: 20.01 dBm = 0.100 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 33.01$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1649.40	Н	-	-	-65.41	6.30	-59.12	79.1
2474.10	Н	-	-	-63.73	6.85	-56.88	76.9
3298.80	Н	-	-	-59.69	7.12	-52.57	72.6

Table 7-12. Radiated Spurious Data (Cellular CDMA Mode - Ch. 1013)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	⊕ LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 836.52 MHz

CHANNEL: 384

MEASURED OUTPUT POWER: 19.51 dBm = 0.089 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 32.51$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1673.04	Н	-	-	-65.17	6.21	-58.96	78.5
2509.56	Н	-	-	-63.05	6.86	-56.20	75.7
3346.08	Н	-	-	-60.90	7.26	-53.64	73.1

Table 7-13. Radiated Spurious Data (Cellular CDMA Mode - Ch. 384)

OPERATING FREQUENCY: 848.31 MHz

CHANNEL: 777

MEASURED OUTPUT POWER: 18.72 dBm = 0.074 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 31.72$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1696.62	Н	-	-	-63.76	6.12	-57.63	76.4
2544.93	Н	-	-	-63.51	6.96	-56.54	75.3
3393.24	Н	-	-	-61.04	7.40	-53.64	72.4

Table 7-14. Radiated Spurious Data (Cellular CDMA Mode - Ch. 777)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 826.40 MHz

CHANNEL: 4132

MEASURED OUTPUT POWER: 20.80 dBm = 0.120 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 33.80$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1652.80	Н	•	-	-65.88	6.28	-59.60	80.4
2479.20	Н	-	-	-64.33	6.84	-57.49	78.3
3305.60	Н	-	-	-60.25	7.14	-53.11	73.9

Table 7-15. Radiated Spurious Data (Cellular WCDMA Mode - Ch. 4132)

OPERATING FREQUENCY: 836.60 MHz

CHANNEL: 4183

MEASURED OUTPUT POWER: 19.39 dBm = 0.087 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $\overline{43 + 10 \log_{10} (W)} = 32.39$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1673.20	Н	-	-	-64.38	6.21	-58.17	77.6
2509.80	Н	-	-	-62.90	6.86	-56.04	75.4
3346.40	Н	-	-	-60.66	7.26	-53.40	72.8

Table 7-16. Radiated Spurious Data (Cellular WCDMA Mode - Ch. 4183)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)] LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 846.60 MHz

CHANNEL: 4233

MEASURED OUTPUT POWER: 19.00 dBm = 0.079 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 32.00$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1693.20	Н	-	-	-63.73	6.13	-57.60	76.6
2539.80	Н	-	-	-63.36	6.95	-56.41	75.4
3386.40	Н	-	-	-60.66	7.38	-53.28	72.3

Table 7-17. Radiated Spurious Data (Cellular WCDMA Mode - Ch. 4233)

OPERATING FREQUENCY: 1712.40 MHz

CHANNEL: 1312

MEASURED OUTPUT POWER: 25.44 dBm = 0.350 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 38.44$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3424.80	Н	110	169	-61.23	9.87	-51.36	76.8
5137.20	Н	110	260	-63.93	10.76	-53.17	78.6
6849.60	Н	-	-	-59.68	11.67	-48.01	73.4
8562.00	Н	-	-	-56.35	11.06	-45.29	70.7

Table 7-18. Radiated Spurious Data (AWS WCDMA Mode - Ch. 1312)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 1732.60 MHz

CHANNEL: 1413

MEASURED OUTPUT POWER: 24.35 dBm = 0.272 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 37.35$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3465.20	Н	110	108	-61.44	9.91	-51.52	75.9
5197.80	Н	110	323	-62.70	10.75	-51.95	76.3
6930.40	Н	-	-	-60.38	11.76	-48.62	73.0
8663.00	Н	-	-	-54.94	11.00	-43.94	68.3

Table 7-19. Radiated Spurious Data (AWS WCDMA Mode - Ch. 1413)

OPERATING FREQUENCY: 1752.60 MHz

CHANNEL: 1513

MEASURED OUTPUT POWER: 23.04 dBm = 0.202 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 36.04$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3505.20	Н	110	213	-58.69	9.95	-48.74	71.8
5257.80	Н	110	328	-61.44	10.71	-50.73	73.8
7010.40	Н	1	-	-59.52	11.83	-47.69	70.7
8763.00	Н	-	-	-54.88	10.96	-43.92	67.0

Table 7-20. Radiated Spurious Data (AWS WCDMA Mode - Ch. 1513)

FCC ID: ZNFLS777	*** PETEST**	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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1850.20 OPERATING FREQUENCY: MHz

> 512 CHANNEL:

MEASURED OUTPUT POWER: 31.05 dBm 1.274 W

MODULATION SIGNAL: GPRS (GMSK)

> DISTANCE: meters

> > LIMIT: $43 + 10 \log_{10} (W) =$ 44.05 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3700.40	V	110	225	-66.95	9.53	-57.42	88.5
5550.60	V	146	146	-58.73	10.94	-47.80	78.8
7400.80	V	171	214	-51.66	10.92	-40.74	71.8
9251.00	V	135	138	-39.36	11.49	-27.87	58.9
11101.20	V	-	-	-55.58	12.67	-42.91	74.0
12951.40	V	-	-	-54.68	13.35	-41.33	72.4

Table 7-21. Radiated Spurious Data (PCS GPRS Mode - Ch. 512)

OPERATING FREQUENCY: 1880.00 MHz

> CHANNEL: 661

MEASURED OUTPUT POWER: 29.87 dBm W 0.971

GPRS (GMSK) MODULATION SIGNAL:

> DISTANCE: 3 meters

> > LIMIT: $43 + 10 \log_{10} (W) =$ 42.87 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	V	110	220	-54.67	9.38	-45.29	75.2
5640.00	V	138	178	-60.93	11.15	-49.78	79.6
7520.00	V	151	244	-51.50	11.11	-40.39	70.3
9400.00	V	110	124	-40.01	11.53	-28.48	58.3
11280.00	V	-	-	-55.10	12.70	-42.40	72.3
13160.00	V	-	-	-53.19	13.01	-40.18	70.1

Table 7-22. Radiated Spurious Data (PCS GPRS Mode - Ch. 661)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Quality Manager
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OPERATING FREQUENCY: 1909.80 MHz

CHANNEL: 810

MEASURED OUTPUT POWER: 29.58 dBm = 0.908 W

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 42.58$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3819.60	٧	110	211	-54.48	9.29	-45.19	74.8
5729.40	٧	157	227	-61.67	11.37	-50.30	79.9
7639.20	V	165	163	-51.17	11.32	-39.85	69.4
9549.00	V	110	167	-42.19	11.73	-30.46	60.0
11458.80	V	-	-	-55.23	12.69	-42.54	72.1
13368.60	V	-	-	-52.19	12.62	-39.57	69.1

Table 7-23. Radiated Spurious Data (PCS GPRS Mode - Ch. 810)

OPERATING FREQUENCY: 1851.25 MHz

CHANNEL: 25

MEASURED OUTPUT POWER: 22.58 dBm = 0.181 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 35.58$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3702.50	Н	-	-	-65.96	9.52	-56.43	79.0
5553.75	Н	110	55	-57.79	11.02	-46.77	69.4
7405.00	Н	-	-	-57.19	10.95	-46.24	68.8
9256.25	Н	-	-	-55.44	11.52	-43.91	66.5

Table 7-24. Radiated Spurious Data (PCS CDMA Mode - Ch. 25)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 1880.00 MHz

CHANNEL: 600

MEASURED OUTPUT POWER: 23.65 dBm = 0.232 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 36.65$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	Н	-	-	-65.43	9.39	-56.05	79.7
5640.00	Н	110	47	-63.32	11.22	-52.10	75.8
7520.00	Н	-	-	-57.18	11.10	-46.08	69.7
9400.00	Н	-	-	-53.38	11.54	-41.84	65.5

Table 7-25. Radiated Spurious Data (PCS CDMA Mode - Ch. 600)

OPERATING FREQUENCY: 1908.75 MHz

CHANNEL: 1175

MEASURED OUTPUT POWER: 21.81 dBm = 0.152 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 34.81$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3817.50	Н	-	-	-65.49	9.32	-56.17	78.0
5726.25	Н	144	374	-60.50	11.36	-49.14	70.9
7635.00	Н	ı	-	-55.63	11.33	-44.30	66.1
9543.75	Н	-	-	-53.88	11.76	-42.12	63.9

Table 7-26. Radiated Spurious Data (PCS CDMA Mode - Ch. 1175)

FCC ID: ZNFLS777	PCTEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Quality Manager
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OPERATING FREQUENCY: 1852.40 MHz

CHANNEL: 9262

MEASURED OUTPUT POWER: 23.64 dBm = 0.231 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 36.64$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3704.80	Н	110	214	-67.02	9.52	-57.50	81.1
5557.20	Н	110	233	-56.72	11.03	-45.69	69.3
7409.60	Н	-	-	-57.19	10.95	-46.24	69.9
9262.00	Н	-	-	-56.15	11.53	-44.62	68.3

Table 7-27. Radiated Spurious Data (PCS WCDMA Mode - Ch. 9262)

OPERATING FREQUENCY: 1880.00 MHz

CHANNEL: 9400

MEASURED OUTPUT POWER: 24.32 dBm = 0.271 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $\overline{43 + 10 \log_{10} (W)} = 37.32$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	Н	110	212	-65.68	9.39	-56.30	80.6
5640.00	Н	110	238	-57.96	11.22	-46.74	71.1
7520.00	Н	1	-	-57.26	11.10	-46.16	70.5
9400.00	Н	-	-	-53.21	11.54	-41.67	66.0

Table 7-28. Radiated Spurious Data (PCS WCDMA Mode - Ch. 9400)

FCC ID: ZNFLS777	*** PETEST**	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 1907.60 MHz

CHANNEL: 9538

MEASURED OUTPUT POWER: 24.19 dBm = 0.262 W

MODULATION SIGNAL: WCDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 37.19$ dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3815.20	Н	110	191	-65.14	9.32	-55.83	80.0
5722.80	Н	110	231	-58.29	11.35	-46.94	71.1
7630.40	Н	-	-	-57.75	11.32	-46.43	70.6
9538.00	Н	-	-	-53.96	11.75	-42.22	66.4

Table 7-29. Radiated Spurious Data (PCS WCDMA Mode - Ch. 9538)

FCC ID: ZNFLS777	PETEST	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	⊕ LG	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFLS777** complies with all the requirements of Parts 22, 24, & 27 of the FCC rules.

FCC ID: ZNFLS777	*** PETEST**	FCC Pt. 22, 24, & 27 GSM / GPRS / EGPRS / CDMA / WCDMA MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
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