PCTEST ENGINEERING LABORATORY, INC.



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MEASUREMENT REPORT FCC Part 22 & 90

Applicant:

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

Date of Testing: 6/7 - 7/15/2017 **Test Site/Location:** PCTEST Lab., Columbia, MD, USA **Test Report Serial No.:** 1M1706070186-04.ZNF

FCC ID: ZNFLS998

APPLICANT: LG ELECTRONICS MOBILECOMM U.S.A

Applicant Type: Certification Model: **LG-LS998**

Additional Model(s): LGLS998, LS998, LG-AS998, LGAS998, AS998

EUT Type: Portable Handset

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

FCC Rule Part: §2.1049, §22(H), §90.691

ANSI/TIA-603-D-2010, KDB 971168 D01 v02r02, KDB 648474 D03 Test Procedure(s):

v01r04

Test Device Serial No.: identical prototype [S/N: 33W32, 33W34, 33FXJ, 33W31, 33J6K]

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(H) & 90

§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

BASE MODEL: LG-LS998

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

MODE: CDMA / EvDO / LTE

FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)

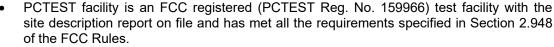
33W32, 33W34, 33FXJ, ☐ Production ☐ Engineering **Test Device Serial No.:** 33W31, 33J6K

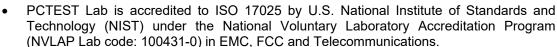
DATE(S) OF TEST: 6/7 - 7/15/2017

TEST REPORT S/N: 1M1706070186-04.ZNF

Test Facility / Accreditations

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





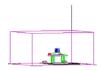
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (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.
- 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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LTE Band 26

821.5





Mode	Tx Frequency (MHz)	Emission Designator	Measurement	Max. Power (W)	Max. Power (dBm)	Modulation
CDMA800 (BC10)	817.9 - 823.1	1M27F9W	Conducted	0.340	25.32	CDMA
LTE Band 26	814.7 - 823.3	1M08G7D	Conducted	0.326	25.13	QPSK
LTE Band 26	814.7 - 823.3	1M08W7D	Conducted	0.272	24.34	16-QAM
LTE Band 26	814.7 - 823.3	1M08W7D	Conducted	0.261	23.39	64-QAM
LTE Band 26	815.5 - 822.5	2M69G7D	Conducted	0.326	25.13	QPSK
LTE Band 26	815.5 - 822.5	2M69W7D	Conducted	0.282	24.50	16-QAM
LTE Band 26	815.5 - 822.5	2M69W7D	Conducted	0.265	23.40	64-QAM
LTE Band 26	816.5 - 821.5	4M49G7D	Conducted	0.330	25.18	QPSK
LTE Band 26	816.5 - 821.5	4M49W7D	Conducted	0.277	24.43	16-QAM
LTE Band 26	816.5 - 821.5	4M50W7D	Conducted	0.255	23.46	64-QAM
LTE Band 26	819	8M99G7D	Conducted	0.316	25.00	QPSK
LTE Band 26	819	8M95W7D	Conducted	0.275	24.39	16-QAM
LTE Band 26	819	8M96W7D	Conducted	0.220	23.42	64-QAM
LTE Band 26	821.5	13M4G7D	ERP	0.055	17.39	QPSK
LTE Band 26	821.5	13M4W7D	ERP	0.041	16.09	16-QAM

EUT Overview

ERP

0.043

16.33

64-QAM

13M4W7D

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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.

Testing Facility 1.2

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 39₀ 10'23" N latitude and 76₀ 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.

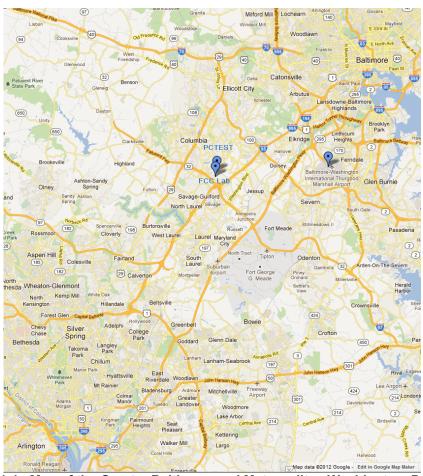


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFLS998**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 22(H) and 90.691.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA (BC0, BC1, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA, Multi-band LTE, 802.11b/g/n/ac WLAN, 802.11a/n/ac UNII, Bluetooth (1x, EDR, LE, v5.0), NFC

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 and antenna port conducted emissions tests.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on a certified wireless charging pad (WCP) while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-D-2010) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v02r02) were used in the measurement of the EUT.

3.2 Radiated Power and Radiated Spurious Emissions §2.1053, §90.635, §90.691

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 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 D01 v02r02.

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 $P_{g [dBm]}$ – 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 + 10log₁₀(Power _[Watts]) specified in 90.691.

For fundamental radiated power measurements, the guidance of KDB 971168 D01 v02r02 is used to record the EUT power level that is subsequently matched via the aforementioned substitution method given in ANSI/TIA-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 C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement uncertainty shown below 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)
Conducted Bench Top Measurements	1.13
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
-	LTx3	Licensed Transmitter Cable Set	10/12/2016	Annual	10/12/2017	LTx3
Agilent	N9020A	MXA Signal Analyzer	10/28/2016	Annual	10/28/2017	US46470561
Agilent	N9038A	MXE EMI Receiver	4/26/2017	Annual	4/26/2018	MY51210133
Agilent	N9030A	PXA Signal Analyzer (26.5GHz)	7/20/2016	Annual	7/20/2017	MY49432391
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	7/30/2015	Biennial	7/30/2017	121034
Com-Power	PAM-103	Pre-Amplifier (1-1000MHz)	7/6/2016	Annual	7/6/2017	441119
Com-Power	PAM-103	Pre-Amplifier (1-1000MHz)	7/11/2016	Annual	7/11/2017	441128
Espec	ESX-2CA	Environmental Chamber	4/11/2017	Annual	4/11/2018	17620
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	4/26/2016	Biennial	4/26/2018	128337
K & L	13SH10-1000/U1000	N Type High Pass Filter	7/6/2016	Annual	7/6/2017	13SH10-1000/U1000-1
K&L	13SH10-1000/U1000	N Type High Pass Filter	7/11/2016	Annual	7/11/2017	13SH10-1000/U1000-2
Mini Circuits	TVA-11-422	RF Power Amp		N/A		QA1317001
Mini Circuits	PWR-SEN-4GHS	USB Power Sensor	3/24/2017	Annual	3/24/2018	11401010036
Mini-Circuits	PWR-SEN-4RMS	USB Power Sensor	3/24/2017	Annual	3/24/2018	11210140001
Mini-Circuits	TVA-11-422	RF Power Amp		N/A		QA1303002
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11403100002
PCTEST	-	EMC Switch System	7/11/2016	Annual	7/11/2017	NM1
PCTEST	-	EMC Switch System	7/6/2016	Annual	7/6/2017	NM2
Rhode & Schwarz	TS-PR18	Pre-Amplifier	7/6/2016	Annual	7/6/2017	101622
Rohde & Schwarz	CMW500	Radio Communication Tester	5/4/2017	Annual	5/4/2018	112347
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	7/11/2016	Annual	7/11/2017	100071
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	4/19/2017	Annual	4/19/2018	100342
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
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	3/14/2016	Biennial	3/14/2018	A051107

Table 5-1. Test Equipment

Notes:

- 1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- 2. 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

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)

<u>Spurious Radiated Emission – BC10</u>

Example: Channel 476 CDMA BC10 Mode 3rd Harmonic (2453.70MHz)

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 2453.70 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.

Emission Designator

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission, telemetry, telecommand

16QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz W = Amplitude/Angle Modulated 7 = Quantized/Digital Info D = Data transmission, telemetry, telecommand

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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7.0 TEST RESULTS

7.1 Summary

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

FCC ID: ZNFLS998

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

Mode(s): CDMA / EvDO / LTE

Band: Band Class 10 / Band 26

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A		PASS	Section 7.2
2.1051 90.691	Conducted Band Edge / Spurious Emissions	> 43 + log ₁₀ (P[Watts]) for all out- of-band emissions except > 50 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of- band emissions within 37.5kHz of Block Edge	CONDUCTED	PASS	Sections 7.3, 7.4
2.1055 90.213	Frequency Stability	< 2.5 ppm		PASS	Section 7.8
2.1046 90.635	Conducted Power	< 100 Watts		PASS	Section 7.5
22.913(a.2)	Effective Radiated Power (Band 26)	< 7 Watts max. ERP		PASS	Section 7.6
2.1053 90.691	Radiated Spurious Emissions	> 43 + log ₁₀ (P[Watts]) for all out- of-band emissions except > 50 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of- band emissions within 37.5kHz of Block Edge	RADIATED	PASS	Section 7.7

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.
- 2) The analyzer plots shown in Section 7.0 were taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "2G/3G Automation," Version 3.9.

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7.2 **Occupied Bandwidth** §2.1049

Test Overview

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. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v02r02 - Section 4.2

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. $VBW \ge 3 \times RBW$
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

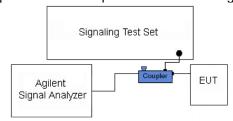


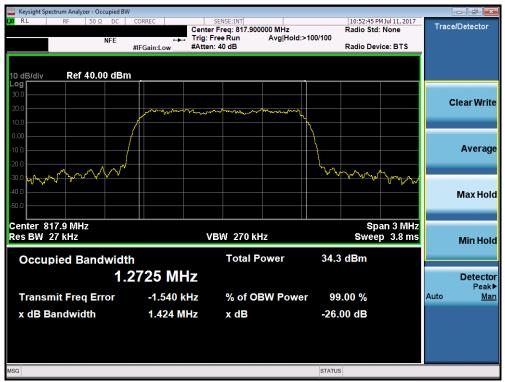
Figure 7-1. Test Instrument & Measurement Setup

Test Notes

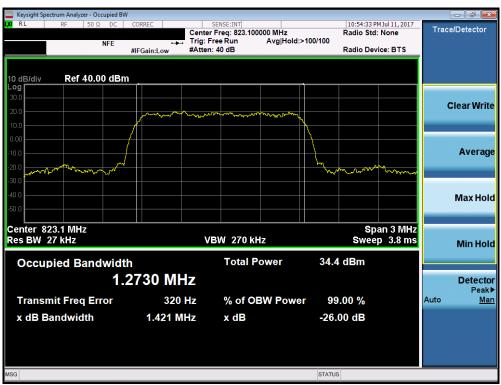
None.

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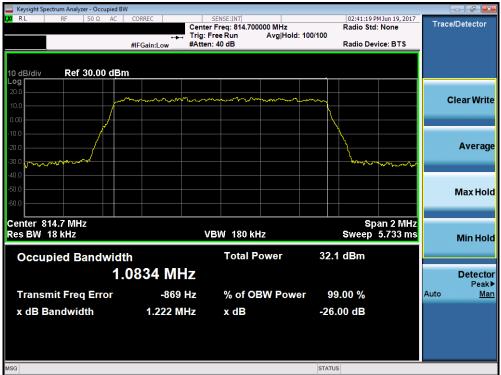
Plot 7-1. Occupied Bandwidth Plot (Ch. 476)



Plot 7-2. Occupied Bandwidth Plot (Ch. 684)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 12 of 12
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Plot 7-3. Occupied Bandwidth Plot (1.4MHz QPSK – RB Size 6– Low Channel)



Plot 7-4. Occupied Bandwidth Plot (1.4MHz 16-QAM - RB Size 6- Low Channel)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 14 of 12
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Plot 7-5. Occupied Bandwidth Plot (1.4MHz 64-QAM - RB Size 6- Low Channel)



Plot 7-6. Occupied Bandwidth Plot (3MHz QPSK - RB Size 15- Low Channel)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 15 of 12
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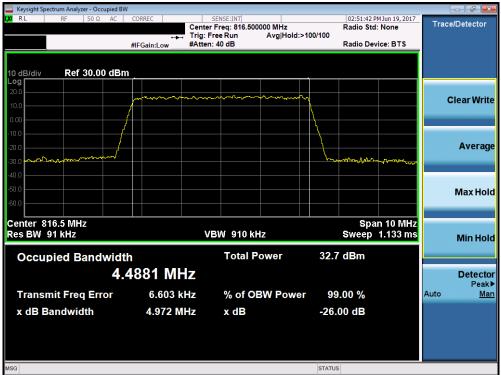
Plot 7-7. Occupied Bandwidth Plot (3MHz 16-QAM - RB Size 15- Low Channel)



Plot 7-8. Occupied Bandwidth Plot (3MHz 64-QAM – RB Size 15– Low Channel)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 16 of 12
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Plot 7-9. Occupied Bandwidth Plot (5MHz QPSK - RB Size 25- Low Channel)



Plot 7-10. Occupied Bandwidth Plot (5MHz 16-QAM - RB Size 25- Low Channel)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	① LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 17 of 12
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Plot 7-11. Occupied Bandwidth Plot (5MHz 64-QAM - RB Size 25- Low Channel)



Plot 7-12. Occupied Bandwidth Plot (10MHz QPSK - RB Size 50)

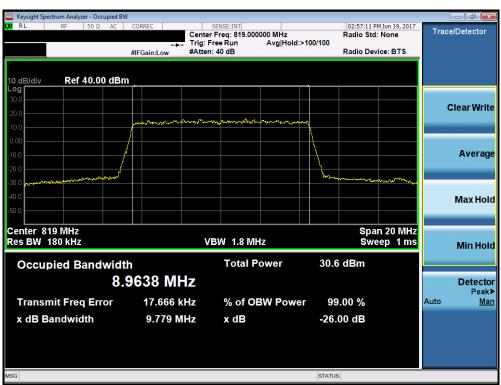
FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EVDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 10 of 12
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Plot 7-13. Occupied Bandwidth Plot (10MHz 16-QAM - RB Size 50)



Plot 7-14. Occupied Bandwidth Plot (10MHz 64-QAM - RB Size 50)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	(L)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 10 of 12
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7.3 Spurious and Harmonic Emissions at Antenna Terminal §2.1051 §90.691

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v02r02 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. RBW ≥ 1MHz
- 3. VBW \geq 3 x RBW
- 4. Detector = RMS
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

Test Setup

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

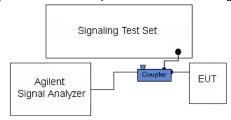


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

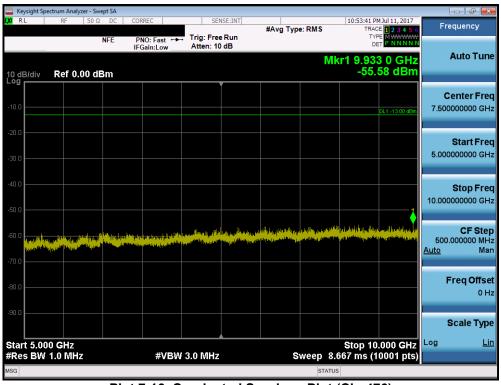
Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 22. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 20 of 42
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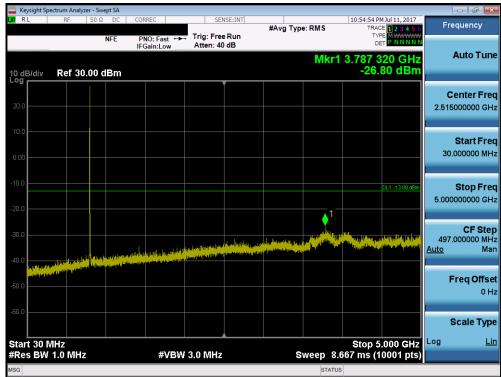
Plot 7-15. Conducted Spurious Plot (Ch. 476)



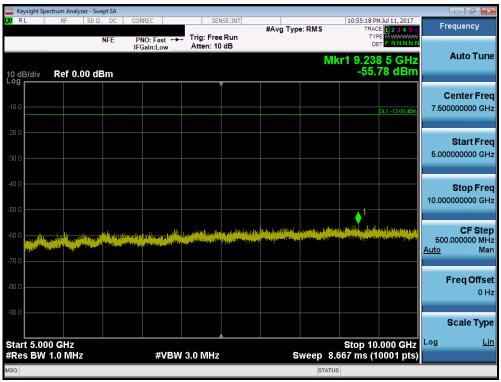
Plot 7-16. Conducted Spurious Plot (Ch. 476)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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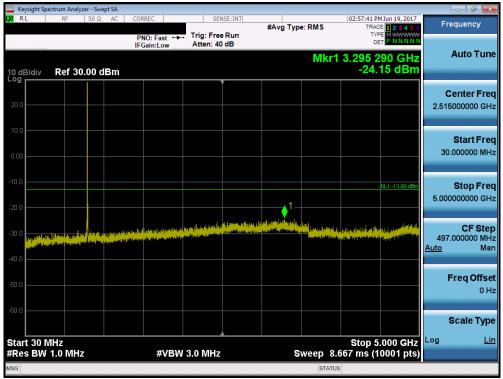
Plot 7-17. Conducted Spurious Plot (Ch. 684)



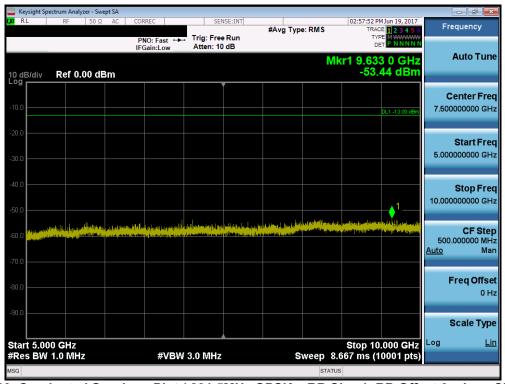
Plot 7-18. Conducted Spurious Plot (Ch. 684)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Approved by: Quality Manager
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Plot 7-19. Conducted Spurious Plot (831.5 MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-20. Conducted Spurious Plot (831.5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Daga 02 of 42	
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7.4 Band Edge Emissions at Antenna Terminal §2.1051 §90.691

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v02r02 - Section 6.0

Test Settings

- 1. Span was set large enough so as to capture all out of band emissions near the band edge
- 2. RBW = 100 kHz
- 3. VBW = 300 kHz
- 4. Detector = RMS
- 5. Trace mode = trace average
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

Test Setup

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

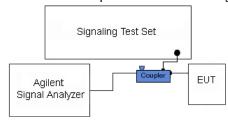


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

For channel edge emission, the signal analyzer's "ACP" measurement capability is used.

Per 22.917(b) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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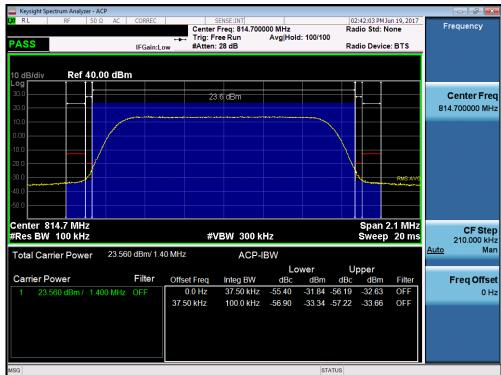




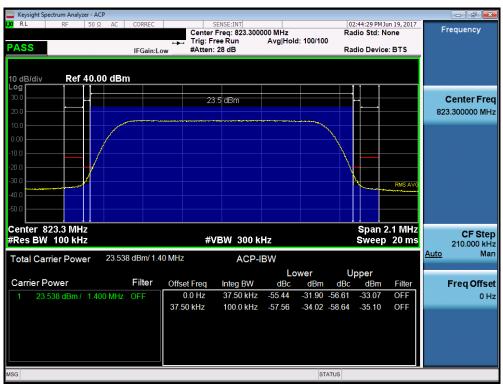
Plot 7-22. Channel Edge Plot (Ch. 684)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Approved by: Quality Manager
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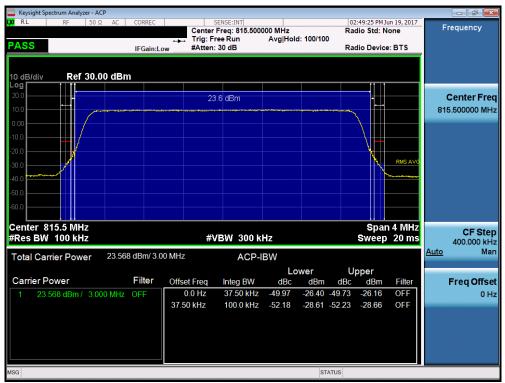
Plot 7-23. Channel Edge Plot (1.4MHz QPSK - RB Size 6- Low Channel)



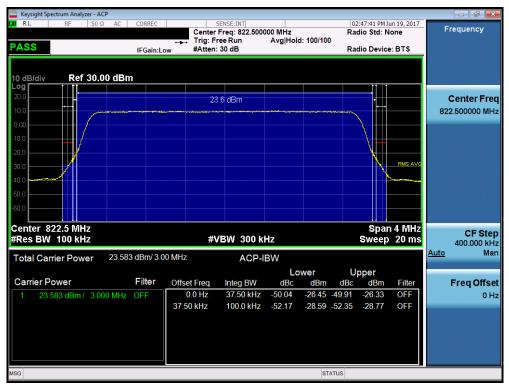
Plot 7-24. Channel Edge Plot (1.4MHz QPSK - RB Size 6 - High Channel)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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Plot 7-25. Channel Edge Plot (3MHz QPSK - RB Size 15- Low Channel)



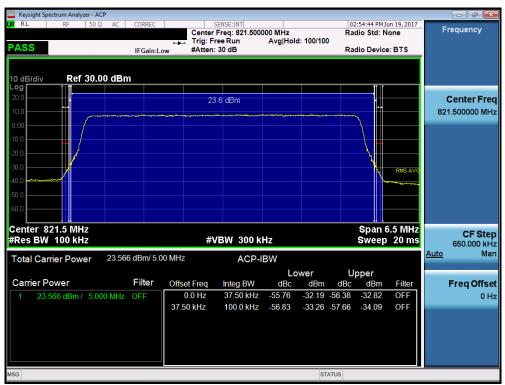
Plot 7-26. Channel Edge Plot (3MHz QPSK – RB Size 15 – High Channel)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Approved by: Quality Manager
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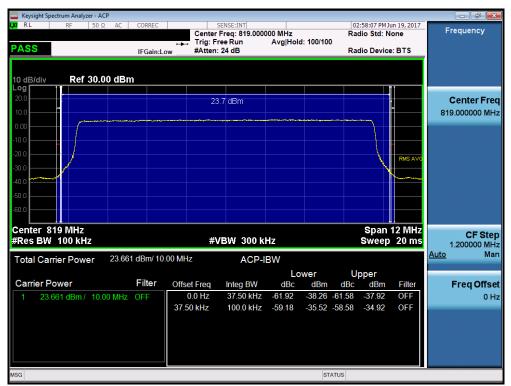
Plot 7-27. Channel Edge Plot (5MHz QPSK - RB Size 25- Low Channel)



Plot 7-28. Channel Edge Plot (5MHz QPSK - RB Size 25- Low Channel)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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Plot 7-29. Channel Edge Plot (10MHz QPSK - RB Size 50)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 29 of 43
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7.5 Conducted Power Output Data §90.635

Frequency [MHz]	BC10 [Channel]	Battery Type	Cond. PWR [dBm]	Cond. PWR [Watts]	Cond. PWR Limit [dBm]	Margin [dB]
817.90	476	Standard	25.30	0.339	50.00	-24.70
823.10	684	Standard	25.32	0.340	50.00	-24.68

Table 7-2. CDMA BC10 Conducted Power Output Data

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Cond. PWR [dBm]	Cond. PWR [Watts]	Cond. PWR Limit [dBm]	Margin [dB]
814.70	1.4	QPSK	25.11	0.324	50.00	-24.89
823.30	1.4	QPSK	25.13	0.326	50.00	-24.87
814.70	1.4	16-QAM	24.34	0.272	50.00	-25.66
823.30	1.4	16-QAM	24.16	0.261	50.00	-25.84
814.70	1.4	64-QAM	23.39	0.218	50.00	-26.61
823.30	1.4	64-QAM	23.15	0.207	50.00	-26.85
815.50	3	QPSK	25.13	0.326	50.00	-24.87
822.50	3	QPSK	25.10	0.324	50.00	-24.90
815.50	3	16-QAM	24.5	0.282	50.00	-25.50
822.50	3	16-QAM	24.24	0.265	50.00	-25.76
815.50	3	64-QAM	23.4	0.219	50.00	-26.60
822.50	3	64-QAM	23.11	0.205	50.00	-26.89
816.50	5	QPSK	25.18	0.330	50.00	-24.82
821.50	5	QPSK	25.16	0.328	50.00	-24.84
816.50	5	16-QAM	24.43	0.277	50.00	-25.57
821.50	5	16-QAM	24.06	0.255	50.00	-25.94
816.50	5	64-QAM	23.46	0.222	50.00	-26.54
821.50	5	64-QAM	23.13	0.206	50.00	-26.87
819.00	10	QPSK	25	0.316	50.00	-25.00
819.00	10	16-QAM	24.39	0.275	50.00	-25.61
819.00	10	64-QAM	23.42	0.220	50.00	-26.58
821.50	15	QPSK	25.2	0.331	50.00	-24.80
821.50	15	16-QAM	24.17	0.261	50.00	-25.83
821.50	15	64-QAM	23.08	0.203	50.00	-26.92

Table 7-3. LTE Band 26 Conducted Power Output Data

NOTES:

- 1. For CDMA/EvDO mode, 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. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
- 2. This unit was tested with its standard battery.

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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Radiated Power (ERP) 7.6

§22.913(a.2)

Test Overview

Effective Radiated Power (ERP) 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. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 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.
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW \geq 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points $\geq 2 \times \text{span} / \text{RBW}$
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize

FCC ID: ZNFLS998	PCTEST	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	⊕ LG	Approved by: Quality Manager
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Test Setup

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

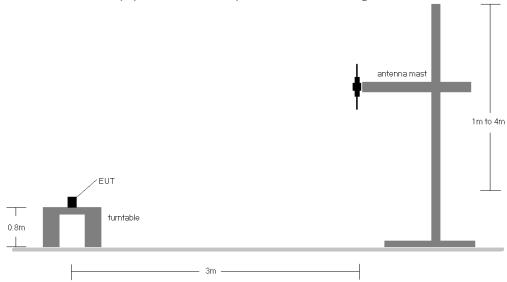


Figure 7-4. Radiated Test Setup <1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
821.50	15	QPSK	Н	150	192	1/0	18.05	-0.66	17.39	38.45	-21.06
821.50	15	16-QAM	Н	150	192	1/0	16.75	-0.66	16.09	38.45	-22.36
821.50	15	64-QAM	Н	150	192	1/0	16.99	-0.66	16.33	38.45	-22.12
821.50	15 (WCP)	QPSK	Н	150	341	1/0	18.24	-0.66	17.58	38.45	-20.87
821.50	15	QPSK	٧	150	352	1/0	17.33	-0.66	16.67	38.45	-21.78

Table 7-30. ERP Data (Band 26)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	⊕ LG	Approved by: Quality Manager
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7.7 Radiated Spurious Emissions Measurements §2.1053 §90.691

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 \geq 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

FCC ID: ZNFLS998	PCTEST	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 22 of 42
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Test Setup

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

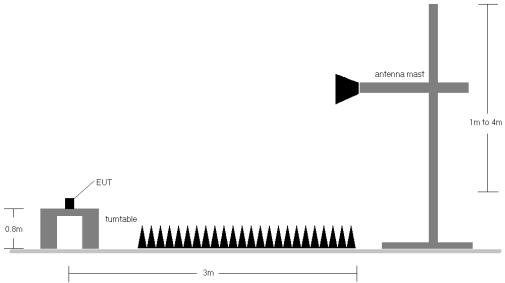


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

- 1. For CDMA/EvDO mode, 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.
- 2. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
- 3. This unit was tested with its standard battery.
- 4. 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.
- 5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	⊕ LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 817.90 MHz

CHANNEL: 476

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters
LIMIT: -13.00 dBm

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]	Margin [dB]
1635.80	Ι	150	21	-71.70	6.72	-64.98	-52.0
2453.70	Н	150	354	-68.45	7.77	-60.68	-47.7
3271.60	Н	-	-	-73.25	7.85	-65.40	-52.4

Table 7-4. CDMA BC10 Radiated Spurious Data (Ch. 476)

OPERATING FREQUENCY: 823.10 MHz

CHANNEL: _____684

MODULATION SIGNAL: CDMA

DISTANCE: ____3 __ meters

LIMIT: -13.00 dBm

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]	Margin [dB]
1646.20	Η	150	298	-72.39	6.77	-65.61	-52.6
2469.30	Н	150	214	-73.18	7.83	-65.35	-52.4
3292.40	Н	-	-	-73.44	7.85	-65.59	-52.6

Table 7-5. CDMA BC10 Radiated Spurious Data (Ch. 684)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	⊕ LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 823.10 MHz

CHANNEL: 684

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters
LIMIT: -13.00 dBm

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]	Margin [dB]
1646.20	Н	150	23	-74.41	6.77	-67.64	-54.6
2469.30	Н	150	35	-59.66	7.83	-51.83	-38.8
3292.40	Н	-	-	-73.39	7.85	-65.54	-52.5

Table 7-6. CDMA BC10 Radiated Spurious Data with WCP (Ch. 684)

OPERATING FREQUENCY: 816.50 MHz

CHANNEL: 26715

MODULATION SIGNAL: QPSK

BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -13.00 dBm

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]	Margin [dB]
1633.00	V	175	43	-75.50	6.76	-68.74	-55.7
2449.50	V	100	317	-77.68	7.81	-69.86	-56.9
3266.00	V	-	-	-75.44	7.85	-67.59	-54.6

Table 7-7. Radiated Spurious Data (Ch. 26715)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	⊕ LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 821.50 MHz

CHANNEL: 26765

MODULATION SIGNAL: QPSK

BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters

LIMIT: -13.00 dBm

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]	Margin [dB]
1643.00	V	162	33	-77.21	6.76	-70.45	-57.5
2464.50	V	100	315	-76.52	7.81	-68.70	-55.7
3286.00	V	-	-	-75.20	7.85	-67.35	-54.4

Table 7-8. Radiated Spurious Data (Ch. 26765)

OPERATING FREQUENCY: 821.50 MHz

CHANNEL: 26765

MODULATION SIGNAL: QPSK

BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters

LIMIT: -13.00 dBm

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]	Margin [dB]
1643.00	V	110	92	-75.58	6.76	-68.82	-55.8
2464.50	V	294	23	-78.88	7.81	-71.06	-58.1
3286.00	V	-	-	-75.06	7.85	-67.21	-54.2

Table 7-9. Radiated Spurious Data with WCP (Ch.26765)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-D-2010. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI/TIA-603-D-2010

Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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OPERATING FREQUENCY: 817,900,000 Hz

CHANNEL: 476

REFERENCE VOLTAGE: 3.85 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	817,899,903	-97	-0.0000119
100 %		- 30	817,899,991	-9	-0.0000011
100 %		- 20	817,899,923	-77	-0.0000094
100 %		- 10	817,900,091	91	0.0000111
100 %		0	817,899,899	-101	-0.0000123
100 %		+ 10	817,900,044	44	0.0000054
100 %		+ 20	817,899,789	-211	-0.0000258
100 %		+ 30	817,899,943	-57	-0.0000070
100 %		+ 40	817,900,055	55	0.0000067
100 %		+ 50	817,900,269	269	0.0000329
BATT. ENDPOINT	3.45	+ 20	817,899,845	-155	-0.0000190

Table 7-10. CDMA BC10 Frequency Stability Data (Ch. 476)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Approved by: Quality Manager
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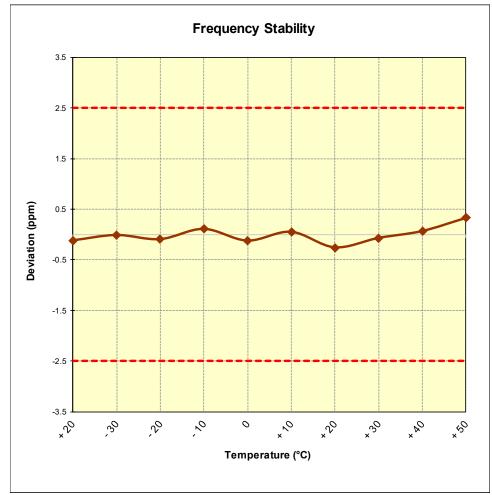


Figure 7-6. CDMA BC10 Frequency Stability Graph (Ch. 476)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Approved by: Quality Manager
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OPERATING FREQUENCY: 816,500,000 Hz

CHANNEL: 26715

REFERENCE VOLTAGE: 3.85 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	817,900,000	-5	-0.0000006
100 %		- 30	817,900,000	147	0.0000180
100 %		- 20	817,900,000	35	0.0000043
100 %		- 10	817,900,000	289	0.0000354
100 %		0	817,900,000	-11	-0.0000013
100 %		+ 10	817,900,000	-393	-0.0000481
100 %		+ 20	817,900,000	98	0.0000120
100 %		+ 30	817,900,000	-140	-0.0000171
100 %		+ 40	817,900,000	247	0.0000303
100 %		+ 50	817,900,000	-28	-0.0000034
BATT. ENDPOINT	3.45	+ 20	817,900,000	-370	-0.0000453

Table 7-11. LTE Band 26 Frequency Stability Data (Ch. 26715)

FCC ID: ZNFLS998	PCTEST'	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	LG	Approved by: Quality Manager
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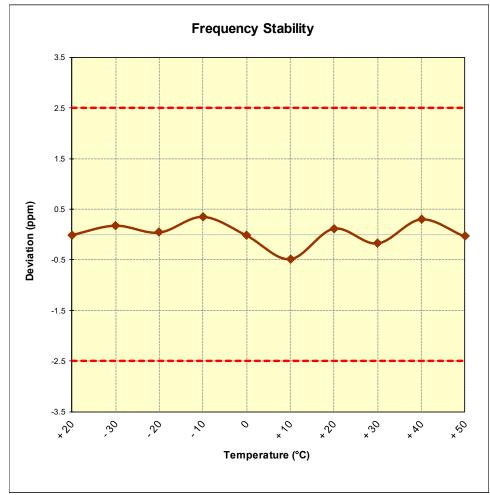


Table 7-12. LTE Band 26 Frequency Stability Data (Ch. 26715)

FCC ID: ZNFLS998	PETEST*	Part 22(H) & 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		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: ZNFLS998** complies with all the requirements of Parts 22(H) and 90 of the FCC rules.

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