



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE FCC PART 15.247 Class II Permissive Change

Applicant Name:
LG Electronics USA
1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

Date of Testing:
January 6, 2009
Test Site/Location:
PCTEST Lab. Columbia, MD, USA
Test Report Serial No.:
0901130102.BEJ

FCC ID:	BEJAX265
APPLICANT:	LG Electronics USA

Model(s): AX265, LX265, LG265, UX265, CX265, MT265, BP265
EUT Type: Cellular/PCS Phone with Bluetooth
Max. RF Output Power: 1.742 mW (2.41 dBm) Conducted
Frequency Range: 2402 – 2480MHz (Bluetooth for US)
FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)
FCC Rule Part(s): Part 15 Subpart C (15.247)
Change Description: To add four additional models of Travel Adapters:
STA-U34WD2I, STA-U34WDI, STA-U34WRI, STA-U34WVI
Original Grant Date: 10/20/2008

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 ANSI C63.4-2003.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Conditions: Power output listed is conducted.

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


Randy Ortanez
President



FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 1 of 18

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MEASUREMENT REPORT

FCC Part 15.247



§ 2.1033 General Information

APPLICANT: LG Electronics USA
APPLICANT ADDRESS: 1000 Sylvan Avenue
 Englewood Cliffs, NJ 07632, United States
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): Part 15 Subpart C (15.247)
BASE MODEL: AX265
FCC ID: BEJAX265
Test Device Serial No.: N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC CLASSIFICATION: FCC Part 15 Spread Spectrum Transmitter (DSS)
Method/System: Frequency Hopping Spread Spectrum (FHSS)
DATE(S) OF TEST: January 6, 2009
TEST REPORT S/N: 0901130102.BEJ

Test Facility / Accreditations

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



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- 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 (IC-2451) 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 (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Intern'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 in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.



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 Cellular/PCS Phone with Bluetooth FCC ID: BEJAX265**. This unit supports Bluetooth version 2.0 with enhanced data rates. The test data contained in this report pertains only to the emissions due to the EUT's Bluetooth transmitter.

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - A) The hopping sequence is pseudorandom
 - B) All channels are used equally on average
 - C) The receiver input bandwidth equals the transmit bandwidth
 - D) The receiver hops in sequence with the transmit signal
- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- The EUT consisted of the following component(s):

Manufacturer / Base Model	FCC ID	Description
LG / Model: AX265	BEJAX265	Cellular/PCS Phone with Bluetooth

Table 2-1. EUT Equipment Description

This Class II Permissive Change test report supports the addition of four different AC Power Adapters (Travel Adapters) for use with the AX265 Cellular/PCS Phone.

2.2 EMI Suppression Device(s)/Modifications

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

2.3 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).

Please see attachment for FCC ID label and label location.

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3.0 DESCRIPTION OF TEST

3.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of the **LG Cellular/PCS Phone with Bluetooth FCC ID: BEJAX265**.

Deviation from measurement procedure.....None

3.2 Conducted Emissions



Figure 3-1. Shielded Enclosure Line-Conducted Test Facility

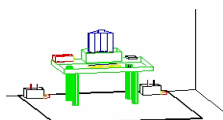


Figure 3-2. Line Conducted Emission Test Set-Up

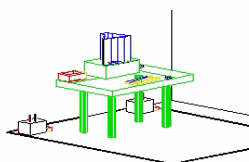


Figure 3-3. Wooden Table & Bonded LISNs



Figure 3-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see *Figure 3-1*). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see *Figure 3-2*). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see *Figure 3-3*). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filter (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of ½". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (see *Figure 3-4*). All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in the test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator.

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the LG Cellular/PCS Phone with Bluetooth are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **LG Cellular/PCS Phone with Bluetooth FCC ID: BEJAX265** unit complies with the requirement of §15.203.

Ch.	Frequency (MHz)
00	2402
:	:
39	2441
:	:
78	2480

Table 4-1. Frequency/ Channel Operations

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	263-10dB	(DC-18GHz) 10 dB Attenuator	N/A		N/A	N/A
-	No.165	(30MHz - 1000MHz) RG58 Coax Cable	N/A		N/A	N/A
-	No.166	(1000-26500MHz) Microwave RF Cable	N/A		N/A	N/A
-	No.167	(100kHz - 100MHz) RG58 Coax Cable	N/A		N/A	N/A
Agilent	11713A	Attenuation/Switch Driver	12/4/2008	Annual	12/4/2009	3439A02645
Agilent	8447D	Broadband Amplifier	N/A		N/A	1937A03348
Agilent	8447D	Broadband Amplifier	N/A		N/A	2443A01900
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	12/4/2008	Annual	12/4/2009	3008A00985
Agilent	8495A	(0-70dB) DC-4GHz Attenuator	N/A		N/A	N/A
Agilent	85650A	Quasi-Peak Adapter	3/13/2008	Annual	3/13/2009	2043A00301
Agilent	8566B	(100Hz-22GHz) Spectrum Analyzer	12/5/2008	Annual	12/5/2009	3638A08713
Agilent	8566B	Opt. 462 Impulse Bandwidth	12/5/2008	Annual	12/5/2009	3701A22204
Agilent	8591A	(9kHz-1.8GHz) Spectrum Analyzer	8/19/2008	Annual	8/19/2009	3144A02458
Agilent	E4407B	ESA Spectrum Analyzer	3/13/2008	Annual	3/13/2009	US39210313
Agilent	E4448A	(3Hz-50GHz) Spectrum Analyzer	12/5/2008	Annual	12/5/2009	US42510244
Agilent	E8257D	(250kHz-20GHz) Signal Generator	3/8/2007	Biennial	3/8/2009	MY45470194
Emco	3115	Horn Antenna (1-18GHz)	9/24/2007	Biennial	9/24/2009	9704-5182
Emco	3115	Horn Antenna (1-18GHz)	10/4/2007	Biennial	10/4/2009	9205-3874
Emco	3121C-DB4	Dipole Antenna	1/23/2007	Biennial	1/23/2009	23951
MiniCircuits	VHF-3100+	High Pass Filter	N/A		N/A	30721
Pasternack	PE2209-10	Bidirectional Coupler	N/A		N/A	N/A
Pasternack	PE7000-6	6 dB Attenuator	N/A		N/A	N/A
Rohde & Schwarz	CMU200	Base Station Simulator	5/29/2008	Annual	5/29/2009	836371/0079
Solar Electronics	8012-50-R-24-BNC	LISN	11/8/2007	Biennial	11/8/2009	310233
Sunol	DRH-118	Horn Antenna (1 - 18GHz)	5/9/2007	Biennial	5/9/2009	A050307

Table 5-1. Annual Test Equipment Calibration Schedule

FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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6.0 TEST RESULTS

6.1 Summary

Company Name: LG Electronics USA
 FCC ID: BEJAX265
 Method/System: Frequency Hopping Spread Spectrum (FHSS)
 Number of Channels: 79

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (Tx)					
15.207	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits or < RSS-Gen table 2 limits	LINE CONDUCTED	PASS	Section 6.2
RECEIVER MODE (Rx) / DIGITAL DEVICE					
15.107	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.107 limits or < RSS-Gen table 2 limits	LINE CONDUCTED	PASS	Part 15B Test Report
15.109	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.109 limits or < RSS-Gen limits [Section 6; Table1]	RADIATED (30MHz-1GHz) (1-25 GHz)	PASS	Part 15B Test Report
RF EXPOSURE					
2.1093 / 2.1091	SAR Test	1.6 W/kg (SAR Limit)	SAR	PASS	SAR Report

Table 6-1. Summary of Test Results

FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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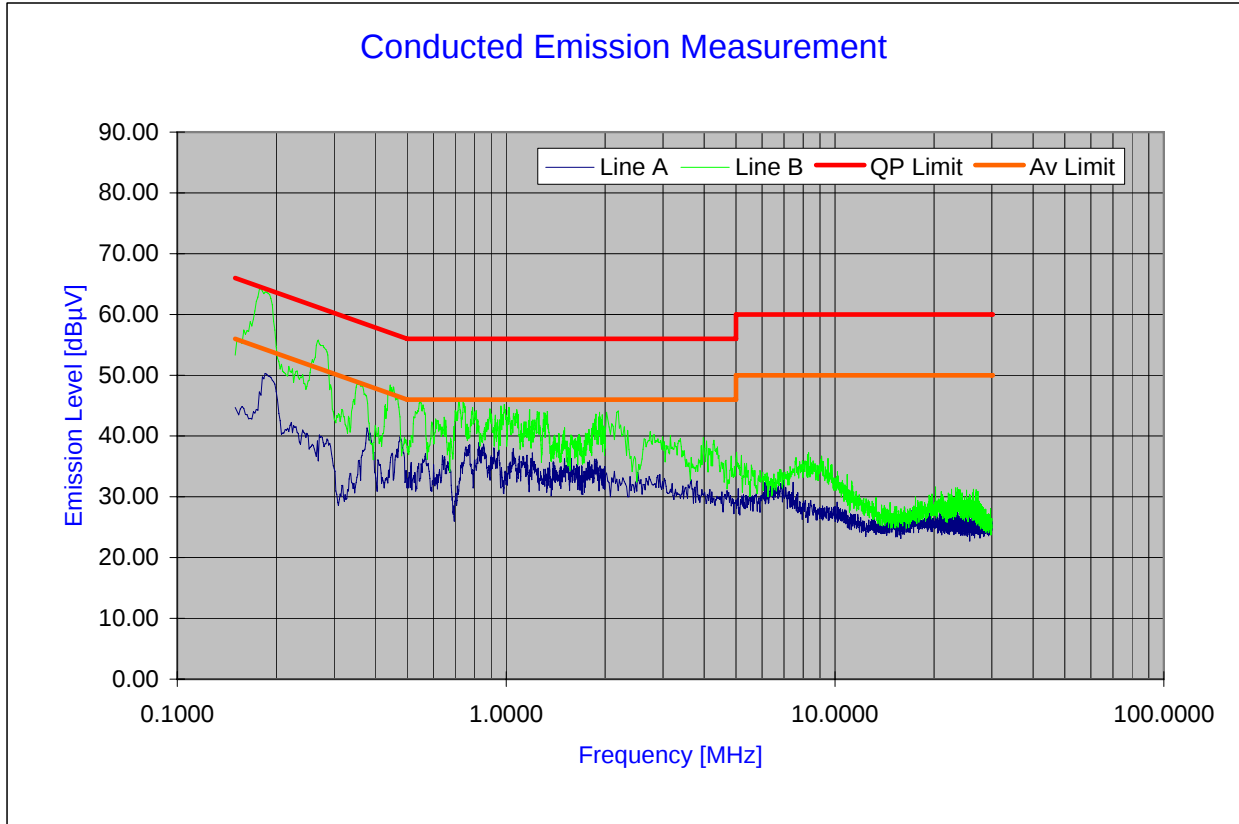
6.2 Line-Conducted Test Data

§15.207

PCTEST Engineering Laboratory Inc.

Company : LG Electronics USA
Model Number : STA-U34WD2I used with AX265 phone
Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
Tested Date : 01/06/2009



Ver.1.1 ©PCTEST 2006.08

Plot 6-1. Line Conducted Plot with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: BEJAX265	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)	LG	Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 10 of 18

Line-Conducted Test Data (Cont'd)

§15.207

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.191	7.97	47.07	64.00	-16.93	33.48	54.00	-20.52
2	A	0.380	7.51	36.85	58.28	-21.43	28.15	48.28	-20.13
3	A	0.475	7.44	35.77	56.43	-20.66	25.35	46.43	-21.08
4	A	0.759	7.37	32.23	56.00	-23.77	24.49	46.00	-21.51
5	A	0.759	7.37	32.62	56.00	-23.38	23.01	46.00	-22.99
6	A	0.841	7.35	32.81	56.00	-23.19	24.64	46.00	-21.36
7	A	0.857	7.35	33.60	56.00	-22.40	23.91	46.00	-22.09
8	A	0.922	7.34	32.34	56.00	-23.66	24.33	46.00	-21.67
9	A	0.935	7.33	31.32	56.00	-24.68	24.51	46.00	-21.49
10	A	1.045	7.32	30.51	56.00	-25.49	22.83	46.00	-23.17
11	B	0.181	8.02	60.37	64.45	-4.08	42.46	54.45	-11.99
12	B	0.270	7.68	50.23	61.13	-10.90	31.30	51.13	-19.83
13	B	0.358	7.52	42.66	58.78	-16.12	28.63	48.78	-20.15
14	B	0.444	7.46	43.77	57.00	-13.23	32.40	47.00	-14.60
15	B	0.538	7.42	40.20	56.00	-15.80	28.51	46.00	-17.49
16	B	0.701	7.38	41.23	56.00	-14.77	30.28	46.00	-15.72
17	B	0.741	7.37	40.35	56.00	-15.65	27.09	46.00	-18.91
18	B	0.959	7.33	40.63	56.00	-15.37	28.86	46.00	-17.14
19	B	0.972	7.33	39.40	56.00	-16.60	28.45	46.00	-17.55
20	B	1.028	7.32	39.72	56.00	-16.28	27.52	46.00	-18.48

Table 6-2. Line Conducted Data with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

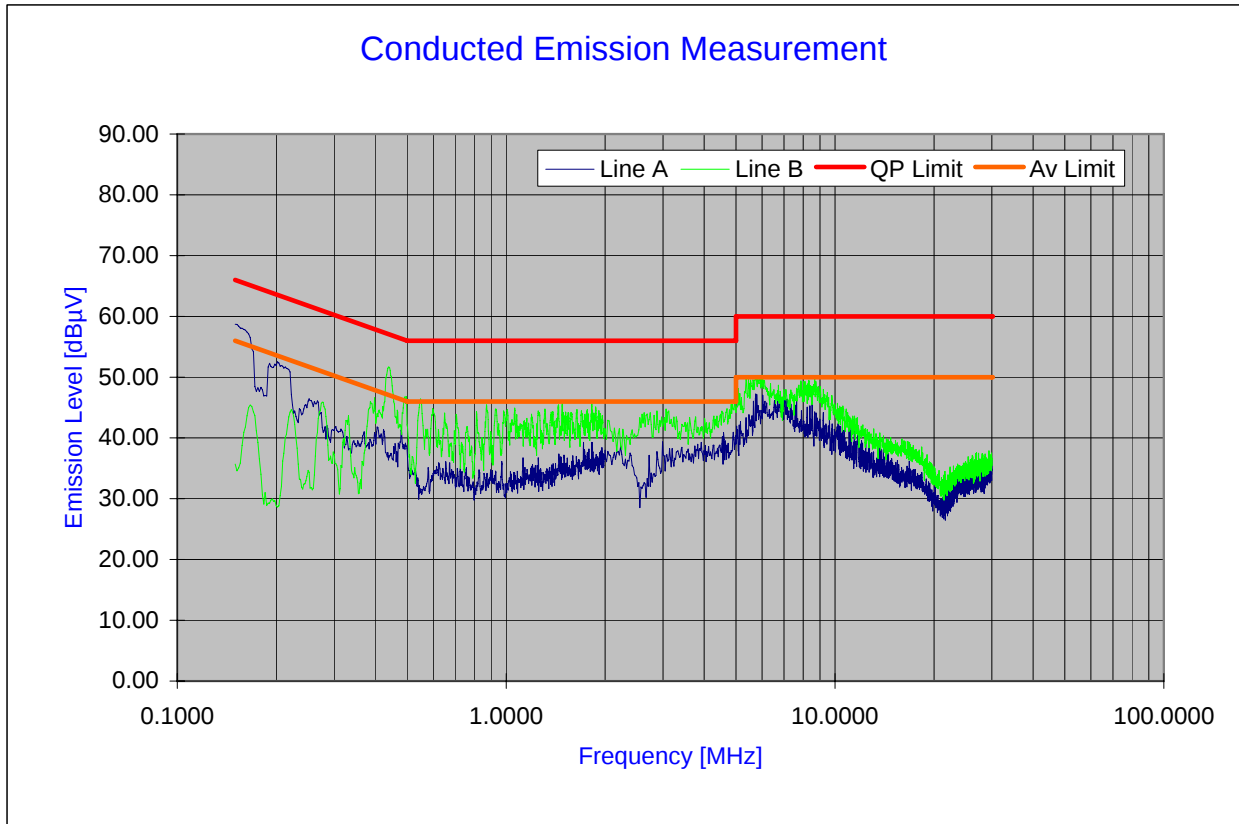
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Line-Conducted Test Data (Cont'd)
§15.207

PCTEST Engineering Laboratory Inc.

Company : LG Electronics USA
Model Number : STA-U34WDI used with AX265 phone
Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
Tested Date : 01/06/2009



Plot 6-2. Line Conducted Plot with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)

§15.207

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.156	8.16	53.61	65.68	-12.07	38.15	55.68	-17.53
2	A	0.203	7.92	46.64	63.50	-16.86	30.04	53.50	-23.46
3	A	0.207	7.90	46.09	63.33	-17.24	29.05	53.33	-24.28
4	A	5.765	7.53	40.25	60.00	-19.75	30.37	50.00	-19.63
5	A	6.064	7.53	40.89	60.00	-19.11	31.12	50.00	-18.88
6	A	6.065	7.53	41.06	60.00	-18.94	31.04	50.00	-18.96
7	A	6.693	7.55	40.32	60.00	-19.68	30.55	50.00	-19.45
8	A	6.726	7.55	40.69	60.00	-19.31	30.32	50.00	-19.68
9	A	8.287	7.58	37.75	60.00	-22.25	27.26	50.00	-22.74
10	A	8.469	7.58	37.97	60.00	-22.03	27.29	50.00	-22.71
11	B	0.438	7.47	49.13	57.11	-7.98	40.36	47.11	-6.75
12	B	0.492	7.43	40.53	56.14	-15.61	30.83	46.14	-15.31
13	B	0.549	7.41	42.20	56.00	-13.80	27.50	46.00	-18.50
14	B	1.465	7.35	39.86	56.00	-16.14	26.45	46.00	-19.55
15	B	1.834	7.38	36.63	56.00	-19.37	26.96	46.00	-19.04
16	B	5.053	7.51	41.72	60.00	-18.28	32.48	50.00	-17.52
17	B	5.371	7.52	46.08	60.00	-13.92	34.64	50.00	-15.36
18	B	5.745	7.53	47.71	60.00	-12.29	35.81	50.00	-14.19
19	B	6.069	7.53	46.74	60.00	-13.26	36.19	50.00	-13.81
20	B	8.583	7.58	45.25	60.00	-14.75	33.81	50.00	-16.19

Table 6-3. Line Conducted Data with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

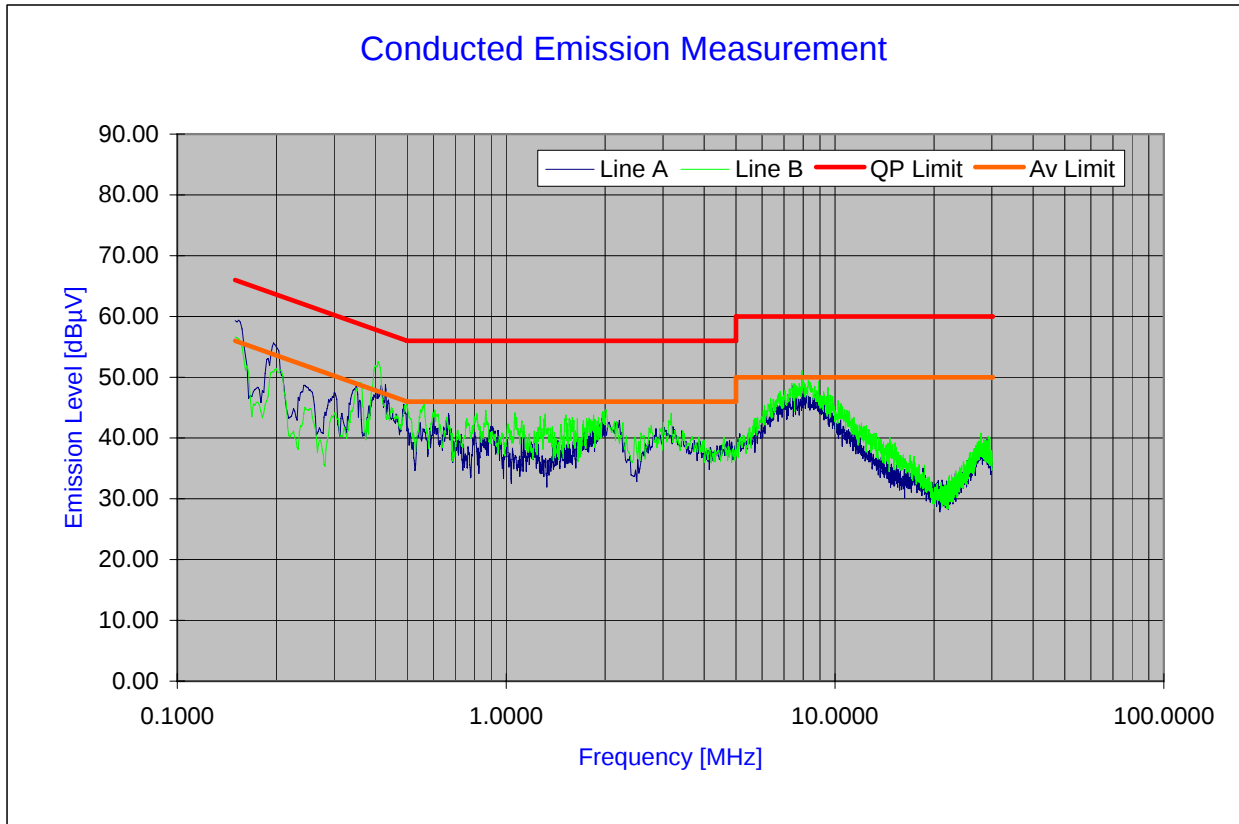
FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 13 of 18

Line-Conducted Test Data (Cont'd)
§15.207

PCTEST Engineering Laboratory Inc.

Company : LG Electronics USA
Model Number : STA-U34WRI used with AX265 phone
Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
Tested Date : 01/05/2009



Plot 6-3. Line Conducted Plot with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: BEJAX265	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)	LG	Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 14 of 18

Line-Conducted Test Data (Cont'd)

§15.207

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.150	8.20	58.41	66.00	-7.59	45.00	56.00	-11.00
2	A	0.198	7.94	53.47	63.68	-10.21	40.86	53.68	-12.82
3	A	0.348	7.53	46.33	59.00	-12.67	33.20	49.00	-15.80
4	A	0.413	7.48	46.21	57.59	-11.38	36.61	47.59	-10.98
5	A	0.414	7.48	45.58	57.57	-11.99	36.00	47.57	-11.57
6	A	0.486	7.44	41.12	56.24	-15.12	31.25	46.24	-14.99
7	A	0.658	7.39	41.23	56.00	-14.77	31.32	46.00	-14.68
8	A	1.980	7.39	40.91	56.00	-15.09	29.12	46.00	-16.88
9	A	7.456	7.56	42.16	60.00	-17.84	32.89	50.00	-17.11
10	A	7.549	7.56	42.32	60.00	-17.68	33.03	50.00	-16.97
11	B	0.150	8.20	55.45	66.00	-10.55	44.95	56.00	-11.05
12	B	0.359	7.52	46.50	58.76	-12.26	31.97	48.76	-16.79
13	B	0.408	7.49	50.42	57.69	-7.27	39.61	47.69	-8.08
14	B	0.500	7.43	43.74	56.01	-12.27	33.46	46.01	-12.55
15	B	0.562	7.41	43.40	56.00	-12.60	31.01	46.00	-14.99
16	B	7.475	7.56	43.46	60.00	-16.54	34.08	50.00	-15.92
17	B	7.492	7.56	43.72	60.00	-16.28	34.53	50.00	-15.47
18	B	7.890	7.57	44.45	60.00	-15.55	34.91	50.00	-15.09
19	B	8.203	7.57	44.30	60.00	-15.70	34.76	50.00	-15.24
20	B	8.872	7.58	42.53	60.00	-17.47	33.61	50.00	-16.39

Table 6-4. Line Conducted Data with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

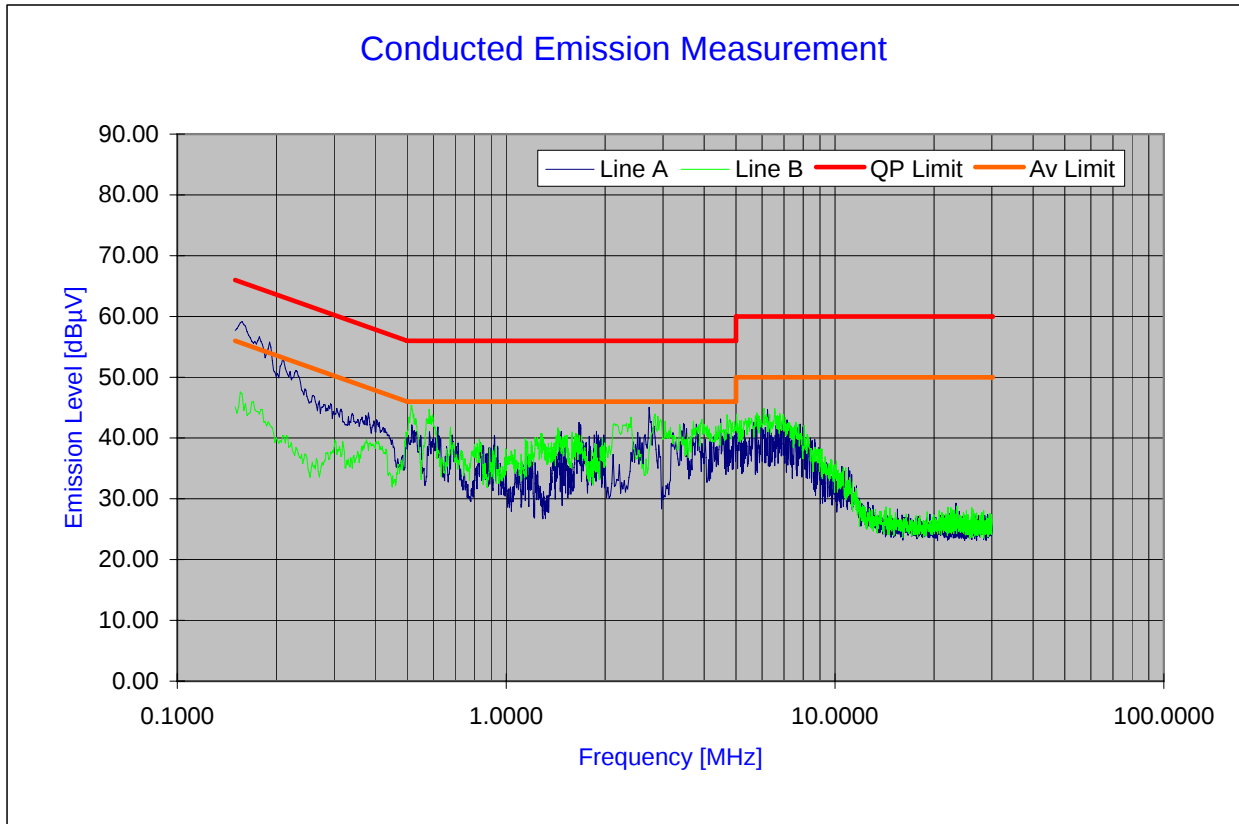
FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 15 of 18

Line-Conducted Test Data (Cont'd)
§15.207

PCTEST Engineering Laboratory Inc.

Company : LG Electronics USA
Model Number : STA-U34WVI used with AX265 phone
Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
Tested Date : 01/06/2009



Plot 6-4. Line Conducted Plot with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: BEJAX265	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)	LG	Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 16 of 18

Line-Conducted Test Data (Cont'd)

§15.207

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.153	8.18	51.91	65.82	-13.91	35.26	55.82	-20.56
2	A	0.168	8.09	47.91	65.06	-17.15	34.05	55.06	-21.01
3	A	0.219	7.86	39.97	62.85	-22.88	27.52	52.85	-25.33
4	A	0.526	7.42	34.88	56.00	-21.12	25.54	46.00	-20.46
5	A	1.646	7.36	33.41	56.00	-22.59	21.97	46.00	-24.03
6	A	1.688	7.37	30.56	56.00	-25.44	21.62	46.00	-24.38
7	A	2.645	7.43	35.64	56.00	-20.36	21.05	46.00	-24.95
8	A	3.438	7.46	33.02	56.00	-22.98	22.67	46.00	-23.33
9	A	3.813	7.47	31.13	56.00	-24.87	23.19	46.00	-22.81
10	A	4.427	7.49	34.02	56.00	-21.98	23.34	46.00	-22.66
11	B	0.514	7.42	40.66	56.00	-15.34	30.69	46.00	-15.31
12	B	0.583	7.40	39.10	56.00	-16.90	29.46	46.00	-16.54
13	B	0.676	7.38	33.07	56.00	-22.93	24.23	46.00	-21.77
14	B	1.449	7.35	35.88	56.00	-20.12	25.51	46.00	-20.49
15	B	2.165	7.40	37.63	56.00	-18.37	27.43	46.00	-18.57
16	B	2.388	7.41	37.50	56.00	-18.50	26.89	46.00	-19.11
17	B	2.830	7.44	37.87	56.00	-18.13	27.26	46.00	-18.74
18	B	3.040	7.44	37.12	56.00	-18.88	27.45	46.00	-18.55
19	B	3.976	7.48	36.53	56.00	-19.47	27.43	46.00	-18.57
20	B	4.698	7.50	37.33	56.00	-18.67	27.59	46.00	-18.41

Table 6-5. Line Conducted Data with Bluetooth

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0901130102.BEJ	Test Dates: January 6, 2009	EUT Type: Cellular/PCS Phone with Bluetooth		Page 17 of 18

7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Cellular/PCS Phone with Bluetooth** **FCC ID: BEJAX265** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

FCC ID: BEJAX265		FCC Pt. 15.247 BLUETOOTH TEST REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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