



HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: LG Electronics MobileComm U.S.A., Inc.	Date of Issue: May 29, 2014
Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632	Test Site/Location: HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea
	Report No.: HCT-R-1405-F016-1
	HCT FRN: 0005866421

FCC ID : ZNFD855P

APPLICANT : LG Electronics MobileComm U.S.A., Inc.

FCC Model(s):	LG-D855P
Additional FCC Model(s):	LG-D855p, D855P, D855p, LGD855P, LGD855p, LG-D855AR, LG-D855ar, LGD855AR, LGD855ar, D855AR, D855ar
EUT Type:	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC
RF Output Field Strength	4.65 dBuV/m
Frequency of Operation:	13.559315 MHz
Modulation type	ASK
FCC Classification:	Low Power Communication Device – Transmitter
FCC Rule Part(s):	FCC Part 15.225 Subpart C

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)

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FCC PT.15.225 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-R-1405-F016-1	Date of Issue: May 29, 2014	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC		FCC ID: ZNFD855P

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1405-F016	May 21, 2014	- First Approval Report
HCT-R-1405-F016-1	May 29, 2014	- Add the include details identifying WCP on page 4 - Revised the calibration note Section 12.1 and 12.2 - Add the Radiated emission testing for 9kHz-30MHz and 30MHz -1000 MHz with Wireless Charging pad

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1. GENERAL INFORMATION

Applicant: LG Electronics MobileComm U.S.A., Inc.

Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632

FCC ID: ZNFD855P

EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC

Model name(s): LG-D855P

Additional Model name(s): LG-D855p, D855P, D855p, LGD855P, LGD855p, LG-D855AR, LG-D855ar, LGD855AR, LGD855ar, D855AR, D855ar

Date(s) of Tests: April 09, 2014 ~ May 19, 2014

Place of Tests: HCT Co., Ltd.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea.
(IC Recognition No. : 5944A-3)

2. EUT DESCRIPTION

Product	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC
FCC Model Name	LG-D855P
Additional FCC Model Name	LG-D855p, D855P, D855p, LGD855P, LGD855p, LG-D855AR, LG-D855ar, LGD855AR, LGD855ar, D855AR, D855ar
Power Supply	DC 3.8 V
Battery Type	Li-ion Battery(Standard)
Frequency of Operation	13.559315 MHz
Transmit Power	4.65 dBuV/m
Modulation Type	ASK
Antenna Specification	Manufacturer: AT&C Co., LTD. Antenna type: FPCB Antenna
Wireless Charger Pad	FCC ID: BEJWCP300 Manufacturer: LG Electronics USA

Note: All test performed with the battery cover already incorporate the NFC antenna and Wireless charging capability.

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.10-2009).

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.225 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2009) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6.3 of ANSI C63.10. (Version: 2009).

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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3.5 STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance With

FCC Part 15.Subpart C

Regulation	Measurement standard	Range
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(a)	ANSI C63.10:2009	13.553MHz to 13.567MHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(d)	ANSI C63.10:2009	outside of the 13.110-14.010 MHz band
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209	ANSI C63.10:2009	9kHz to 30MHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209	ANSI C63.10:2009	30MHz to 1GHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.207	ANSI C63.10:2009	150kHz to 30MHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(e)	ANSI C63.10:2009	0.01% of nominal
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.215(c)	ANSI C63.10:2009	-

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The 10 m semi anechoic chamber used to collect the Conducted and Radiated data is located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4. Detailed description of test facilities was submitted to the Commission and accepted dated February 28, 2014 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned loop, dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"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 this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203

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7. TEST SUMMARY{ TC "5. TEST SUMMARY" \f C \l "1" }

The results in this report apply only to sample tested

Regulation	Test Type	Range	Result
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(a)	Radiated Electric Field Emissions	13.553MHz to 13.567MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(b)	Radiated Electric Field Emissions	13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(c)	Radiated Electric Field Emissions	13.110 MHz to 13.410 MHz and 13.710 MHz to 14.010 MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209 (d)	Radiated Electric Field Emissions	9kHz to 30MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209	Radiated Electric Field Emissions	30MHz to 1GHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.207	AC power conducted emissions	150kHz to 30MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(e)	Frequency Stability	0.01% of nominal	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.215(c)	20 dB Bandwidth	-	Pass

8. RADIATED EMISSION MEASUREMENT

Requirement(s): 15.209, 15.225

Except as provided elsewhere in this paragraph the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Minimum Standard: FCC Part 15.225 / 15.209

Rule Part	Frequency (MHz)	Limit
Part 15.209	0.009 ~ 0.490	2400/F(kHz)uV/m@300
	0.490 ~ 1.705	24000/F(kHz)uV/m@30
	1.705 ~ 30	30 uV/m@30
	30 ~ 88	100 ** uV/m@3m
	88 ~ 216	150 ** uV/m@3m
	216 ~ 960	200 ** uV/m@3m
	Above 960	500 uV/m@3m

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

15.225 Operation within the band 13.110 – 14.010 MHz.

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter (= 84 dBuV/m) at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter (=50.5dBuV/m) at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter (=40.5 dBuV/m) at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

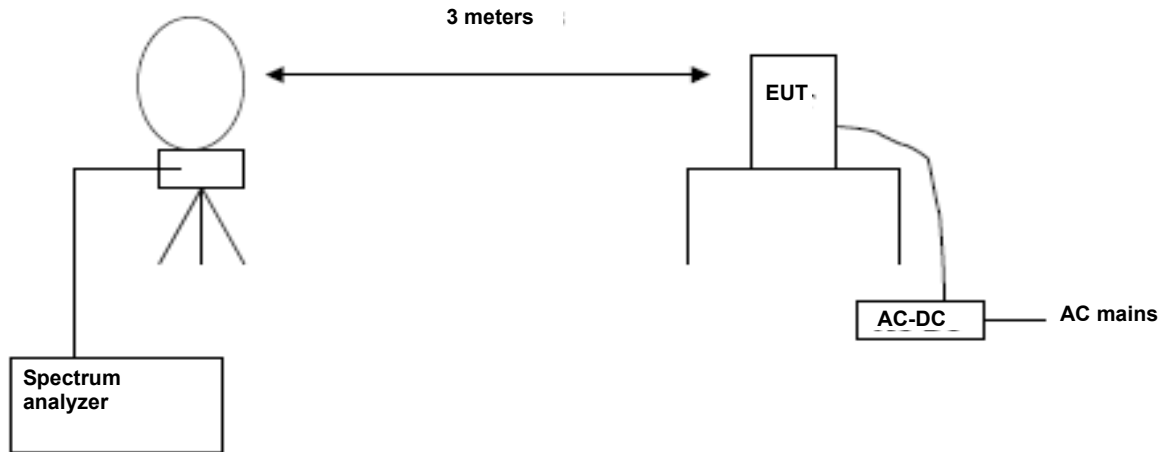
(e) The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

(f) In the case of radio frequency powered tags designed to operate with a device authorized under this section, the tag may be approved with the device or be considered as a separate device subject to its own authorization. Powered tags approved with a device under a single application shall be labeled with the same identification number as the device.

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8.1. RADIATED EMISSION 9 kHz – 30 MHz

Test Set-up



Test Procedure

The EUT was placed on a non-conductive table located on a large open test site. The loop antenna was placed at a location 3m from the EUT. Radiated emissions were measured with the loop antenna both parallel and perpendicular to the plane of the EUT loop antenna and with x, y, z planes in EUT.

The limit is converted from microvolts/meter to decibel microvolts/meter. Sample Calculation:

Corrected Amplitude = Raw Amplitude(dBμV/m) + ACF(dB) + Cable Loss(dB) – Distance Correction Factor

The spectrum analyzer is set to:

Frequency Range = 9 kHz ~ 1GHz

RBW = 9 kHz (9 kHz ~ 30MHz)
= 120 kHz (30 MHz ~ 1 GHz)

Trace Mode = max hold

Detector Mode = peak / Quasi-peak

Sweep time = auto

Test Results

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Stand alone

13.553 MHz-13.567 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.559315	25.07(H)*	19.58	-40	4.65	84	79.35
13.559315	21.51(V)*	19.58	-40	1.09	84	82.91

13.410 MHz-13.553 MHz and 13.567 MHz-13.710 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.5530	16.05	19.58	-40	-4.37	50.47	54.84
13.5670	13.72	19.58	-40	-6.70	50.47	57.17

13.110 MHz – 13.410 MHz and 13.710 MHz-14.010 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.2720	11.97	19.58	-40	-8.45	40.51	48.96
13.9320	12.08	19.58	-40	-8.34	40.51	48.85

9 kHz -30 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
12.3239	11.40	19.58	-40	-9.02	29.54	38.56
14.5216	12.45	18.58	-40	-8.97	29.54	38.51
27.1306	11.25	18.58	-40	-10.17	29.54	39.71
27.1317	11.21	18.58	-40	-10.21	29.54	39.75

Test Results

With Wireless Charging Pad

13.553 MHz-13.567 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.559310	24.56(H)*	19.58	-40	4.14	84	79.86
13.559310	21.13(V)*	19.58	-40	0.71	84	83.29

13.410 MHz-13.553 MHz and 13.567 MHz-13.710 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.5530	15.64	19.58	-40	-4.78	50.47	55.25
13.5670	13.29	19.58	-40	-7.13	50.47	57.60

13.110 MHz – 13.410 MHz and 13.710 MHz-14.010 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.2660	11.83	19.58	-40	-8.59	40.51	49.10
13.9630	11.95	19.58	-40	-8.47	40.51	48.98

9 kHz -30 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
12.4935	11.34	19.58	-40	-9.08	29.54	38.62
16.2984	12.26	18.58	-40	-8.16	29.54	37.70
27.1356	11.19	18.58	-40	-10.23	29.54	39.77
27.1323	11.11	18.58	-40	-10.31	29.54	39.85

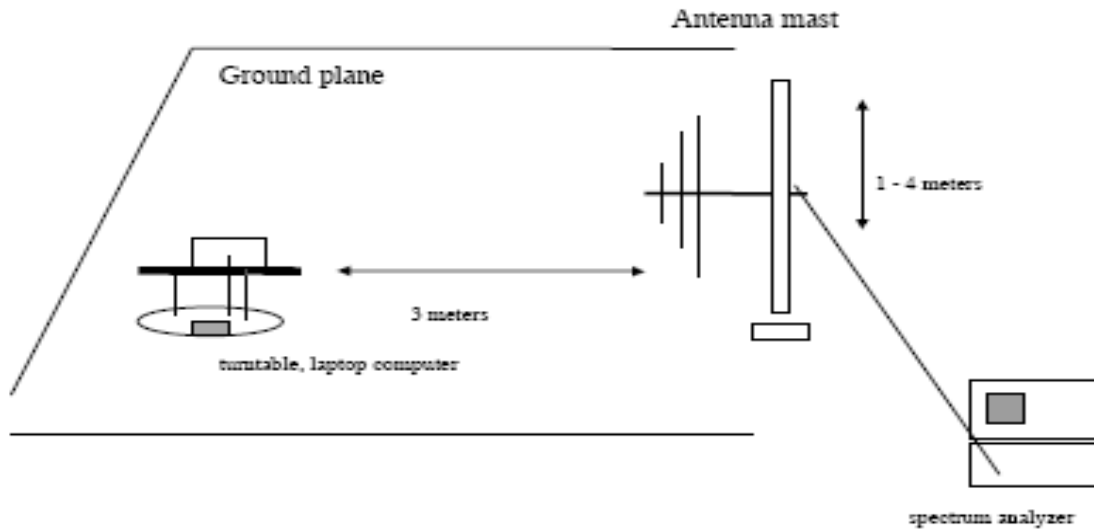
Note :

1. Distance Correction Below 30MHz = $40\log(3m/30m) = -40 \text{ dB}$
Measurement Distance : 3 m (Below 30 MHz)
2. Factor = Antenna Factor + Cable Loss
3. Result Level = Read Level + Factor + Distance Correction
4. Margin = Limit – Result Level
5. We have done x, y, z planes in EUT
6. Antenna rotated about its vertical/horizontal axis for maximum response at each azimuth position around the EUT.
7. Worst case of operating mode is type A, analog mode and 106 kbps.

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8.2. RADIATED EMISSION 30 MHz – 1000 MHz

Test Set-up



Test Procedures: Radiated emissions were measured according to ANSI C63.10.

The EUT was set to transmit at the highest output power.

The EUT was set 3 meter away from the measuring antenna.

Stand alone

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
Mhz	dBμV	dB /m	dB	(H/V)	dBμV/m	dBμV/m	dB
32.86	20.68	12.01	0.97	H	33.66	40	6.34
39.57	20.16	12.63	1.03	H	33.82	40	6.18
49.95	21.08	13.25	1.17	V	35.5	40	4.5
80.56	22.44	9.11	1.49	H	33.04	40	6.96
160.76	23.19	13.26	2.12	H	38.57	43.5	4.93
170.58	21.94	12.59	2.18	V	36.71	43.5	6.79

With Wireless Charging pad

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
31.58	20.47	12.01	0.97	H	33.45	40	6.55
40.21	20.06	12.63	1.03	H	33.72	40	6.28
50.33	21	13.25	1.17	V	35.42	40	4.58
77.68	22.18	9.11	1.49	H	32.78	40	7.22
161.48	22.86	13.26	2.12	H	38.24	43.5	5.26
170.69	21.64	12.59	2.18	V	36.41	43.5	7.09

Remark

1. Result Level = Read Level + (Antenna Factor+ Cable Loss)
2. Margin = Limit – Result Level

9. EMISSION BANDWIDTH PLOT.

Requirement(s):

Test Set-up: The EUT was connected to a spectrum analyzer.

Test Procedure: The 20 dB bandwidth was measured by using a spectrum analyzer.



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10. FREQUENCY TOLERANCE

Procedure: Part 15.225, ANSI 63.10

If required, the operating or transmitting frequency of an intentional radiator should be measured in accordance with the following procedure to ensure that the device operates outside certain precluded frequency bands and within the frequency range. No modulation needs to be supplied to the intentional radiator during these tests, unless modulation is required to produce an output, e.g., single-sideband suppressed carrier transmitters.

The frequency stability of the transmitter is measured by:

- a) Temperature: The temperature is varied from -20°C to + 50°C using an environmental chamber.
- b) For battery operated equipment, the equipment tests shall be performed using a new battery.

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

Measurement Result:

VOLTAGE	POWER	Temperature	Frequency	Frequency Error
(%)		(°C)	(MHz)	(Hz)
100%	3.8 V	-20	13.559404	89
100%		-10	13.559383	68
100%		0	13.559362	47
100%		10	13.559350	35
100%		20	13.559315	0
100%		30	13.559289	-26
100%		40	13.559229	-86
100%		50	13.559225	-90
115%	4.37	20	13.559343	28
Batt. Endpoint	3.23	20	13.559328	13

11. POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.
5. The EUT is the device with a detachable antenna operating below 30 MHz.
 - For unterminated the Antenna, the AC line conducted tests are performed with the antenna connected
 - For terminated the Antenna, the AC line conducted tests are performed with a dummy load connected to the EUT antenna output terminal.

Test Plots

Norma battery charger

Unterminate the Antenna

Conducted Emissions (Line 1)

EMI Auto Test(2)

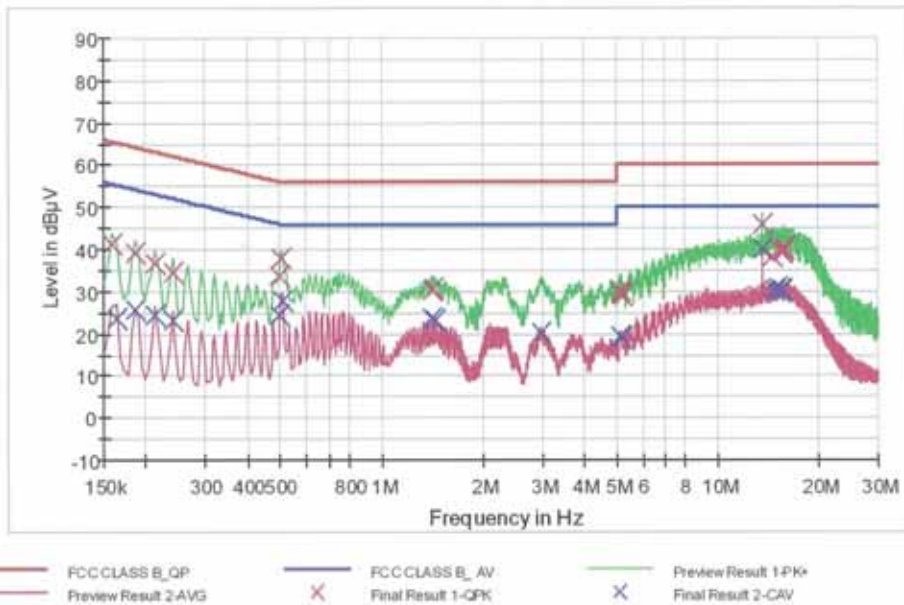
1 / 2

HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(UNTERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	41.1	9.000	Off	L1	9.7	24.4	65.5
0.186000	39.0	9.000	Off	L1	9.7	25.2	64.2
0.213000	36.8	9.000	Off	L1	9.7	26.3	63.1
0.240000	34.7	9.000	Off	L1	9.7	27.4	62.1
0.500000	33.6	9.000	Off	L1	9.7	22.4	56.0
0.504500	38.0	9.000	Off	L1	9.7	18.0	56.0
1.404500	30.5	9.000	Off	L1	9.8	25.5	56.0
1.431500	30.6	9.000	Off	L1	9.8	25.4	56.0
5.108000	29.5	9.000	Off	L1	10.1	30.5	60.0
5.126000	30.1	9.000	Off	L1	10.1	29.9	60.0
5.135000	29.6	9.000	Off	L1	10.1	30.4	60.0
5.175500	29.1	9.000	Off	L1	10.1	30.9	60.0
13.559000	46.1	9.000	Off	L1	10.6	13.9	60.0
14.571500	38.3	9.000	Off	L1	10.6	21.7	60.0
15.543500	39.8	9.000	Off	L1	10.7	20.2	60.0
15.588500	39.1	9.000	Off	L1	10.7	20.9	60.0

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7:56:40

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.800000	40.2	9.000	Off	L1	10.7	19.8	60.0
15.809000	40.4	9.000	Off	L1	10.7	19.6	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.163500	23.5	9.000	Off	L1	9.7	31.8	55.3
0.186000	25.6	9.000	Off	L1	9.7	28.6	54.2
0.213000	24.4	9.000	Off	L1	9.7	28.7	53.1
0.240000	23.1	9.000	Off	L1	9.7	29.0	52.1
0.500000	24.5	9.000	Off	L1	9.7	21.5	46.0
0.509000	27.7	9.000	Off	L1	9.7	18.3	46.0
1.409000	23.6	9.000	Off	L1	9.8	22.4	46.0
1.436000	23.1	9.000	Off	L1	9.8	22.9	46.0
2.979500	20.3	9.000	Off	L1	9.9	25.7	46.0
5.108000	19.4	9.000	Off	L1	10.1	30.6	50.0
5.135000	19.5	9.000	Off	L1	10.1	30.5	50.0
5.180000	18.9	9.000	Off	L1	10.1	31.1	50.0
13.559000	39.9	9.000	Off	L1	10.6	10.1	50.0
14.783000	30.3	9.000	Off	L1	10.6	19.7	50.0
15.116000	30.6	9.000	Off	L1	10.7	19.4	50.0
15.440000	30.4	9.000	Off	L1	10.7	19.6	50.0
15.543500	30.4	9.000	Off	L1	10.7	19.6	50.0
15.588500	30.2	9.000	Off	L1	10.7	19.8	50.0

Conducted Emissions (Line 2)

EMI Auto Test(2)

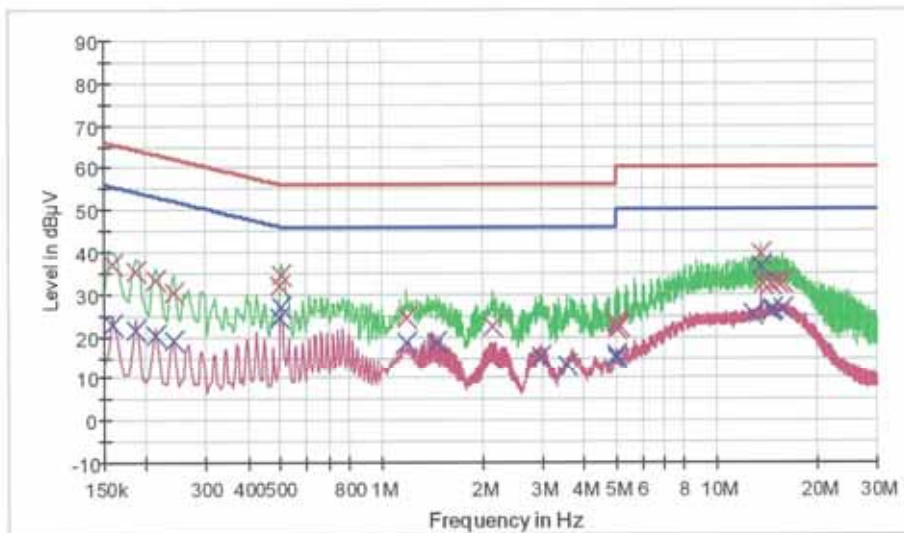
1 / 2

HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(UNTERMINATED)
 Operator Name: KS KANG

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK
 — Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	37.0	9.000	Off	N	9.7	28.5	65.5
0.188000	35.3	9.000	Off	N	9.7	28.9	64.2
0.213000	33.4	9.000	Off	N	9.7	29.7	63.1
0.240000	30.3	9.000	Off	N	9.7	31.8	62.1
0.500000	31.9	9.000	Off	N	9.7	24.1	56.0
0.504500	34.7	9.000	Off	N	9.7	21.3	56.0
1.193000	24.3	9.000	Off	N	9.8	31.7	56.0
2.151500	22.4	9.000	Off	N	9.9	33.6	56.0
5.018000	22.0	9.000	Off	N	10.1	38.0	60.0
5.036000	23.4	9.000	Off	N	10.1	36.6	60.0
5.045000	22.8	9.000	Off	N	10.1	37.2	60.0
5.103500	22.3	9.000	Off	N	10.1	37.7	60.0
13.559000	39.4	9.000	Off	N	10.5	20.6	60.0
13.734500	32.3	9.000	Off	N	10.5	27.7	60.0
14.477000	32.5	9.000	Off	N	10.6	27.5	60.0
14.526500	32.4	9.000	Off	N	10.6	27.6	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.125000	32.8	9.000	Off	N	10.6	27.2	60.0
15.800000	32.8	9.000	Off	N	10.6	27.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	22.7	9.000	Off	N	9.7	32.8	55.5
0.186000	21.5	9.000	Off	N	9.7	32.7	54.2
0.213000	20.2	9.000	Off	N	9.7	32.9	53.1
0.240000	19.0	9.000	Off	N	9.7	33.1	52.1
0.500000	24.4	9.000	Off	N	9.7	21.6	46.0
0.504500	26.8	9.000	Off	N	9.7	19.2	46.0
1.193000	18.5	9.000	Off	N	9.8	27.5	46.0
1.458500	18.5	9.000	Off	N	9.8	27.5	46.0
2.970500	15.3	9.000	Off	N	9.9	30.7	46.0
3.560000	13.1	9.000	Off	N	10.0	32.9	46.0
5.018000	14.8	9.000	Off	N	10.1	35.2	50.0
5.036000	15.7	9.000	Off	N	10.1	34.3	50.0
12.798500	25.3	9.000	Off	N	10.5	24.7	50.0
13.559000	36.8	9.000	Off	N	10.5	13.2	50.0
14.477000	26.0	9.000	Off	N	10.6	24.0	50.0
14.490500	26.1	9.000	Off	N	10.6	23.9	50.0
14.774000	26.4	9.000	Off	N	10.6	23.6	50.0
15.800000	26.7	9.000	Off	N	10.6	23.3	50.0

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8:03:35

FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1405-F016-1	Date of Issue: May 29, 2014	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC		FCC ID: ZNFD855P

Terminate the Antenna Conducted Emissions (Line 1)

EMI Auto Test(2)

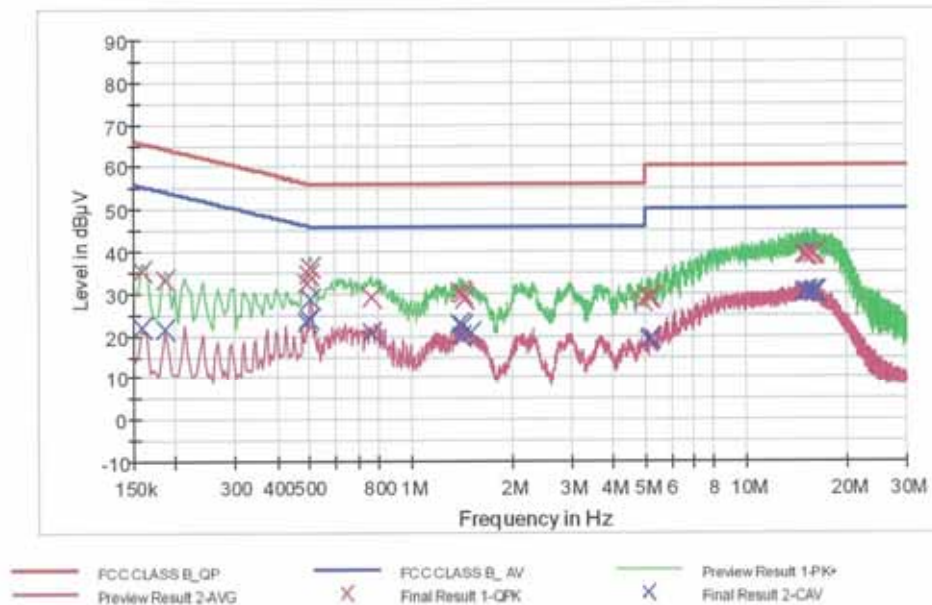
1 / 2

HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(TERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	35.2	9.000	Off	L1	9.7	30.3	65.5
0.186000	33.4	9.000	Off	L1	9.7	30.8	64.2
0.492000	32.4	9.000	Off	L1	9.7	23.7	56.1
0.500000	34.7	9.000	Off	L1	9.7	21.3	56.0
0.504500	36.4	9.000	Off	L1	9.7	19.6	56.0
0.765500	28.9	9.000	Off	L1	9.7	27.1	56.0
1.400000	30.3	9.000	Off	L1	9.8	25.7	56.0
1.422500	29.8	9.000	Off	L1	9.8	26.2	56.0
1.445000	28.6	9.000	Off	L1	9.8	27.4	56.0
4.905500	28.0	9.000	Off	L1	10.1	28.0	56.0
5.153000	28.9	9.000	Off	L1	10.1	31.1	60.0
5.180000	29.0	9.000	Off	L1	10.1	31.0	60.0
14.787500	39.1	9.000	Off	L1	10.6	20.9	60.0
15.129500	39.4	9.000	Off	L1	10.7	20.6	60.0
15.156500	39.3	9.000	Off	L1	10.7	20.7	60.0
15.683000	39.2	9.000	Off	L1	10.7	20.8	60.0

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8:19:54

EMI Auto Test(2)

2 / 2

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.791000	39.3	9.000	Off	L1	10.7	20.7	60.0
15.840500	39.5	9.000	Off	L1	10.7	20.5	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	22.1	9.000	Off	L1	9.7	33.4	55.5
0.186000	21.4	9.000	Off	L1	9.7	32.8	54.2
0.492000	23.4	9.000	Off	L1	9.7	22.7	46.1
0.500000	24.2	9.000	Off	L1	9.7	21.8	46.0
0.504500	28.8	9.000	Off	L1	9.7	17.2	46.0
0.765500	20.7	9.000	Off	L1	9.7	25.3	46.0
1.400000	22.7	9.000	Off	L1	9.8	23.3	46.0
1.413500	19.7	9.000	Off	L1	9.8	26.3	46.0
1.422500	22.4	9.000	Off	L1	9.8	23.6	46.0
1.503500	20.6	9.000	Off	L1	9.8	25.4	46.0
5.148500	18.9	9.000	Off	L1	10.1	31.1	50.0
5.175500	19.3	9.000	Off	L1	10.1	30.7	50.0
14.787500	30.2	9.000	Off	L1	10.6	19.8	50.0
15.156500	30.4	9.000	Off	L1	10.7	19.6	50.0
15.683000	30.4	9.000	Off	L1	10.7	19.6	50.0
15.818000	30.4	9.000	Off	L1	10.7	19.6	50.0
15.899000	30.4	9.000	Off	L1	10.7	19.6	50.0
16.083500	30.3	9.000	Off	L1	10.7	19.7	50.0

5/15/2014

8:19:54

FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1405-F016-1	Date of Issue: May 29, 2014	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC		FCC ID: ZNFD855P

Conducted Emissions (Line 2)

EMI Auto Test(2)

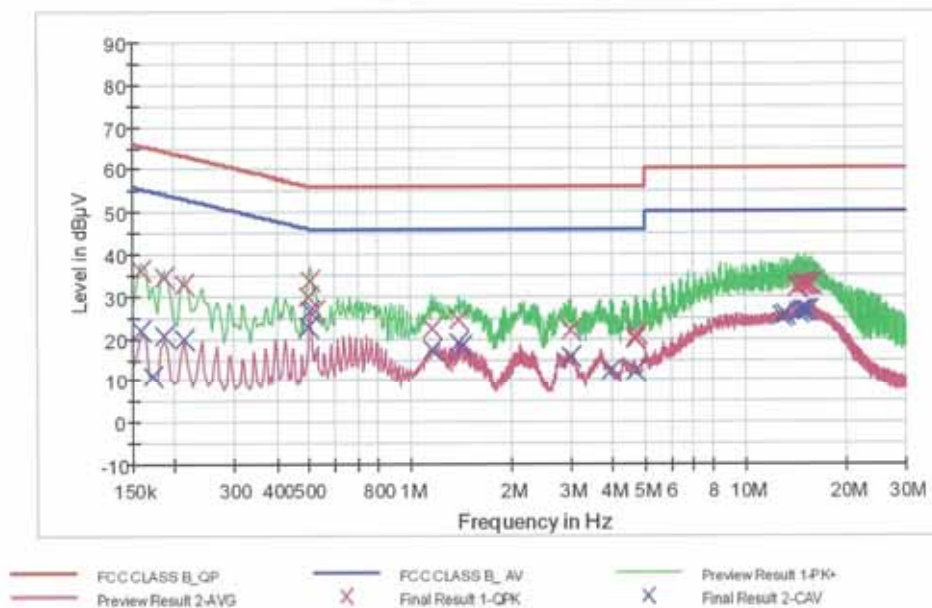
1 / 2

HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(TERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	36.1	9.000	Off	N	9.7	29.4	65.5
0.186000	34.5	9.000	Off	N	9.7	29.7	64.2
0.213000	32.7	9.000	Off	N	9.7	30.4	63.1
0.500000	29.9	9.000	Off	N	9.7	26.1	56.0
0.504500	33.6	9.000	Off	N	9.7	22.4	56.0
0.522500	26.7	9.000	Off	N	9.7	29.3	56.0
1.166000	22.5	9.000	Off	N	9.8	33.5	56.0
1.400000	24.4	9.000	Off	N	9.8	31.6	56.0
3.020000	22.1	9.000	Off	N	10.0	33.9	56.0
4.694000	20.4	9.000	Off	N	10.1	35.6	56.0
4.703000	19.6	9.000	Off	N	10.1	36.4	56.0
4.716500	21.1	9.000	Off	N	10.1	34.9	56.0
14.189000	32.1	9.000	Off	N	10.6	27.9	60.0
14.445500	32.6	9.000	Off	N	10.6	27.4	60.0
14.778500	32.7	9.000	Off	N	10.6	27.3	60.0
15.116000	32.8	9.000	Off	N	10.6	27.2	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.462500	32.9	9.000	Off	N	10.6	27.1	60.0
15.791000	32.7	9.000	Off	N	10.6	27.3	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	21.9	9.000	Off	N	9.7	33.6	55.5
0.172500	11.0	9.000	Off	N	9.7	43.8	54.8
0.186000	20.8	9.000	Off	N	9.7	33.4	54.2
0.213000	19.7	9.000	Off	N	9.7	33.4	53.1
0.500000	22.7	9.000	Off	N	9.7	23.3	46.0
0.504500	26.6	9.000	Off	N	9.7	19.4	46.0
1.166000	17.3	9.000	Off	N	9.8	28.7	46.0
1.400000	18.9	9.000	Off	N	9.8	27.1	46.0
1.431500	18.2	9.000	Off	N	9.8	27.8	46.0
3.020000	15.5	9.000	Off	N	10.0	30.6	46.0
3.974000	12.1	9.000	Off	N	10.1	33.9	46.0
4.703000	12.3	9.000	Off	N	10.1	33.7	46.0
12.794000	25.3	9.000	Off	N	10.5	24.7	50.0
13.068500	25.5	9.000	Off	N	10.5	24.5	50.0
14.445500	26.3	9.000	Off	N	10.6	23.7	50.0
14.778500	26.5	9.000	Off	N	10.6	23.5	50.0
15.120500	26.7	9.000	Off	N	10.6	23.3	50.0
15.462500	26.7	9.000	Off	N	10.6	23.3	50.0

5/15/2014

8:13:25

Wireless battery charger
 Unterminate the Antenna
 Conducted Emissions (Line 1)

EMI Auto Test(2)

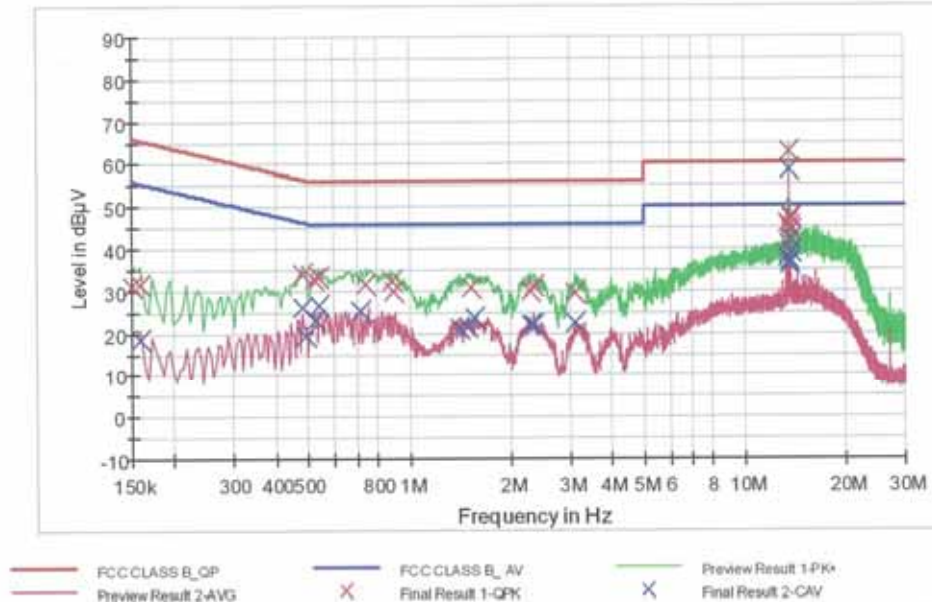
1 / 2

HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG (Wireless Charger)
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(UNTERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	31.3	9.000	Off	L1	9.7	34.7	66.0
0.159000	31.7	9.000	Off	L1	9.7	33.8	65.5
0.483000	34.2	9.000	Off	L1	9.7	22.1	56.3
0.522500	33.0	9.000	Off	L1	9.7	23.0	56.0
0.540500	33.5	9.000	Off	L1	9.7	22.5	56.0
0.743000	31.7	9.000	Off	L1	9.7	24.3	56.0
0.887000	32.3	9.000	Off	L1	9.7	23.7	56.0
0.896000	29.7	9.000	Off	L1	9.7	26.3	56.0
1.521500	30.7	9.000	Off	L1	9.8	25.3	56.0
2.300000	30.0	9.000	Off	L1	9.9	26.0	56.0
2.354000	31.4	9.000	Off	L1	9.9	24.6	56.0
3.128000	29.7	9.000	Off	L1	10.0	26.3	56.0
13.455500	45.9	9.000	Off	L1	10.6	14.1	60.0
13.559000	62.7	9.000	Off	L1	10.6	-2.7	60.0
13.640000	45.1	9.000	Off	L1	10.6	14.9	60.0
13.667000	47.2	9.000	Off	L1	10.6	12.8	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
13.685000	44.1	9.000	Off	L1	10.6	15.9	60.0
13.770500	47.4	9.000	Off	L1	10.6	12.6	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	18.6	9.000	Off	L1	9.7	36.9	55.5
0.483000	26.2	9.000	Off	L1	9.7	20.1	46.3
0.492000	19.5	9.000	Off	L1	9.7	26.6	46.1
0.527000	23.2	9.000	Off	L1	9.7	22.8	46.0
0.540500	26.5	9.000	Off	L1	9.7	19.5	46.0
0.718000	25.4	9.000	Off	L1	9.7	20.6	46.0
1.418000	20.9	9.000	Off	L1	9.8	25.1	46.0
1.499000	21.4	9.000	Off	L1	9.8	24.6	46.0
1.562000	23.5	9.000	Off	L1	9.8	22.5	46.0
2.300000	22.1	9.000	Off	L1	9.9	23.9	46.0
2.340500	22.1	9.000	Off	L1	9.9	23.9	46.0
3.123500	22.4	9.000	Off	L1	10.0	23.6	46.0
13.455500	37.9	9.000	Off	L1	10.6	12.1	50.0
13.559000	58.3	9.000	Off	L1	10.6	-8.3	50.0
13.640000	36.3	9.000	Off	L1	10.6	13.7	50.0
13.653500	37.1	9.000	Off	L1	10.6	12.9	50.0
13.667000	39.1	9.000	Off	L1	10.6	10.9	50.0
13.770500	42.2	9.000	Off	L1	10.6	7.8	50.0

5/19/2014

10:13:18

Conducted Emissions (Line 2)

EMI Auto Test(2)

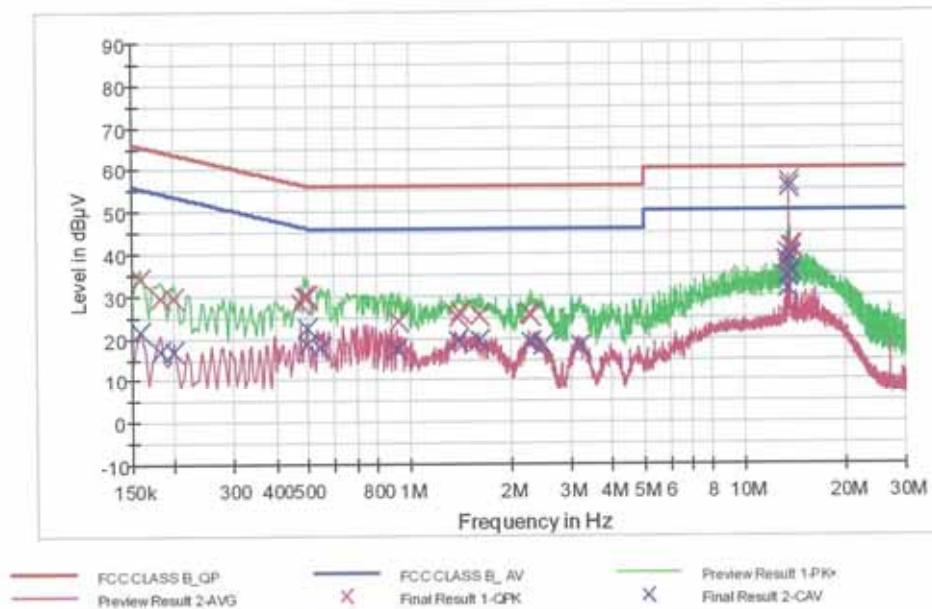
1 / 2

HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG (Wireless Charger)
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(UNTERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	34.1	9.000	Off	N	9.7	31.4	65.5
0.181500	29.7	9.000	Off	N	9.7	34.7	64.4
0.199500	29.6	9.000	Off	N	9.7	34.0	63.6
0.478500	28.1	9.000	Off	N	9.7	28.3	56.4
0.487500	30.0	9.000	Off	N	9.7	26.2	56.2
0.500000	30.0	9.000	Off	N	9.7	26.0	56.0
0.932000	24.2	9.000	Off	N	9.8	31.8	56.0
1.395500	25.0	9.000	Off	N	9.8	31.0	56.0
1.409000	26.0	9.000	Off	N	9.8	30.0	56.0
1.620500	25.2	9.000	Off	N	9.8	30.8	56.0
2.268500	25.9	9.000	Off	N	9.9	30.1	56.0
2.309000	25.5	9.000	Off	N	9.9	30.5	56.0
13.451000	39.9	9.000	Off	N	10.5	20.1	60.0
13.491500	37.0	9.000	Off	N	10.5	23.0	60.0
13.559000	56.8	9.000	Off	N	10.5	3.2	60.0
13.640000	39.5	9.000	Off	N	10.5	20.5	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
13.667000	41.4	9.000	Off	N	10.5	18.6	60.0
13.770500	41.7	9.000	Off	N	10.5	18.3	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	21.7	9.000	Off	N	9.7	33.8	55.5
0.181500	17.0	9.000	Off	N	9.7	37.4	54.4
0.199500	16.9	9.000	Off	N	9.7	36.7	53.6
0.496500	22.3	9.000	Off	N	9.7	23.8	46.1
0.500000	18.6	9.000	Off	N	9.7	27.4	46.0
0.545000	17.7	9.000	Off	N	9.7	28.3	46.0
0.914000	17.3	9.000	Off	N	9.8	28.7	46.0
1.395500	19.5	9.000	Off	N	9.8	26.5	46.0
1.611500	19.4	9.000	Off	N	9.8	26.6	46.0
2.286500	19.0	9.000	Off	N	9.9	27.0	46.0
2.480000	18.3	9.000	Off	N	9.9	27.7	46.0
3.213500	18.3	9.000	Off	N	10.0	27.7	46.0
13.347500	38.2	9.000	Off	N	10.5	11.8	50.0
13.451000	34.6	9.000	Off	N	10.5	15.4	50.0
13.491500	31.5	9.000	Off	N	10.5	18.5	50.0
13.559000	55.3	9.000	Off	N	10.5	-5.3	50.0
13.667000	36.0	9.000	Off	N	10.5	14.0	50.0
13.770500	39.2	9.000	Off	N	10.5	10.8	50.0

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FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-R-1405-F016-1	Date of Issue: May 29, 2014	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC	FCC ID: ZNFD855P

Terminate the Antenna Conducted Emissions (Line 1)

EMI Auto Test(2)

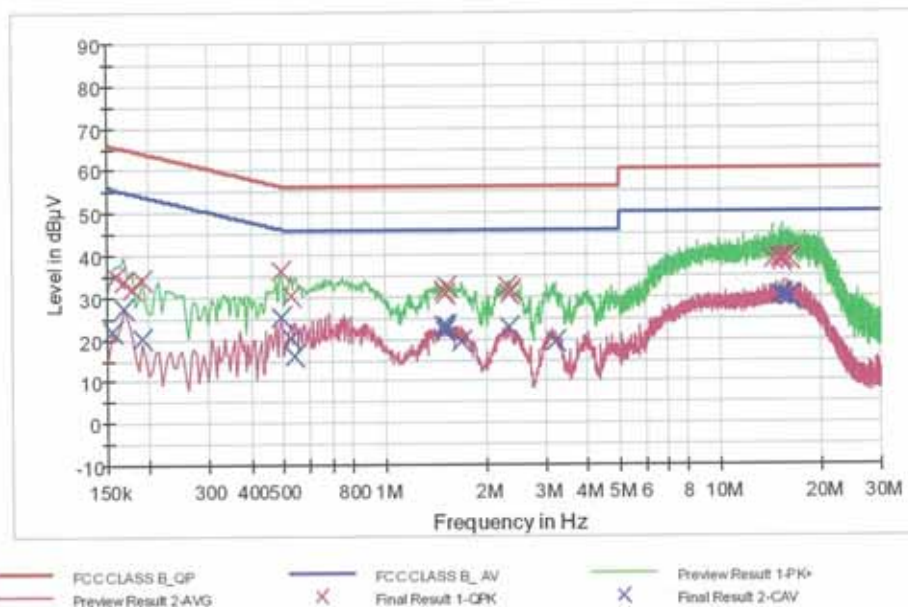
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HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG (Wireless Charger)
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(TERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.159000	34.8	9.000	Off	L1	9.7	30.7	65.5
0.168000	33.6	9.000	Off	L1	9.7	31.5	65.1
0.177000	32.1	9.000	Off	L1	9.7	32.5	64.6
0.190500	34.0	9.000	Off	L1	9.7	30.0	64.0
0.492000	36.1	9.000	Off	L1	9.7	20.0	56.1
0.527000	30.5	9.000	Off	L1	9.7	25.5	56.0
1.494500	31.4	9.000	Off	L1	9.8	24.6	56.0
1.512500	30.9	9.000	Off	L1	9.8	25.1	56.0
1.526000	32.3	9.000	Off	L1	9.8	23.7	56.0
2.327000	32.4	9.000	Off	L1	9.9	23.6	56.0
2.345000	30.8	9.000	Off	L1	9.9	25.2	56.0
2.367500	31.4	9.000	Off	L1	9.9	24.6	56.0
14.391500	38.6	9.000	Off	L1	10.6	21.4	60.0
15.062000	39.0	9.000	Off	L1	10.7	21.0	60.0
15.251000	38.5	9.000	Off	L1	10.7	21.5	60.0
15.395000	39.0	9.000	Off	L1	10.7	21.0	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.732500	39.5	9.000	Off	L1	10.7	20.5	60.0
16.128500	38.8	9.000	Off	L1	10.7	21.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	22.1	9.000	Off	L1	9.7	33.7	55.8
0.168000	27.4	9.000	Off	L1	9.7	27.7	55.1
0.190500	20.5	9.000	Off	L1	9.7	33.5	54.0
0.492000	25.5	9.000	Off	L1	9.7	20.6	46.1
0.527000	20.4	9.000	Off	L1	9.7	25.6	46.0
0.540500	16.2	9.000	Off	L1	9.7	29.8	46.0
1.490000	23.4	9.000	Off	L1	9.8	22.6	46.0
1.508000	22.0	9.000	Off	L1	9.8	24.0	46.0
1.526000	23.2	9.000	Off	L1	9.8	22.8	46.0
1.697000	19.6	9.000	Off	L1	9.8	26.4	46.0
2.345000	22.6	9.000	Off	L1	9.9	23.4	46.0
3.213500	19.3	9.000	Off	L1	10.0	26.7	46.0
15.062000	30.1	9.000	Off	L1	10.7	19.9	50.0
15.395000	30.2	9.000	Off	L1	10.7	19.8	50.0
15.890000	30.1	9.000	Off	L1	10.7	19.9	50.0
15.966500	30.1	9.000	Off	L1	10.7	19.9	50.0
16.029500	30.1	9.000	Off	L1	10.7	19.9	50.0
16.128500	30.0	9.000	Off	L1	10.7	20.0	50.0

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FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-R-1405-F016-1	Date of Issue: May 29, 2014	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE Phone with Bluetooth, WLAN, NFC	FCC ID: ZNFD855P

Conducted Emissions (Line 2)

EMI Auto Test(2)

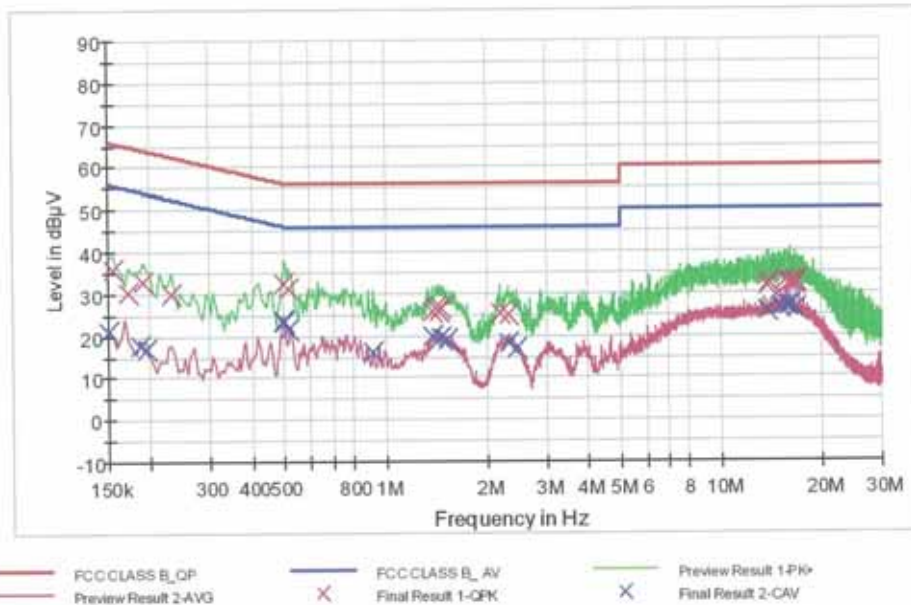
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HCT TEST Report

Common Information

EUT: LG-D855P
 Manufacturer: LG (Wireless Charger)
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(TERMINATED)
 Operator Name: KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	35.9	9.000	Off	N	9.7	29.9	65.8
0.172500	30.3	9.000	Off	N	9.7	34.5	64.8
0.190500	32.9	9.000	Off	N	9.7	31.1	64.0
0.231000	30.0	9.000	Off	N	9.7	32.4	62.4
0.500000	32.6	9.000	Off	N	9.7	23.4	56.0
0.513500	31.1	9.000	Off	N	9.7	24.9	56.0
1.377500	25.8	9.000	Off	N	9.8	30.2	56.0
1.418000	26.5	9.000	Off	N	9.8	29.5	56.0
1.436000	25.9	9.000	Off	N	9.8	30.1	56.0
1.458500	26.5	9.000	Off	N	9.8	29.5	56.0
2.187500	25.2	9.000	Off	N	9.9	30.8	56.0
2.318000	24.8	9.000	Off	N	9.9	31.2	56.0
13.752500	31.6	9.000	Off	N	10.5	28.4	60.0
13.928000	32.3	9.000	Off	N	10.5	27.7	60.0
15.615500	33.0	9.000	Off	N	10.6	27.0	60.0
16.092500	32.4	9.000	Off	N	10.6	27.6	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
16.560500	31.9	9.000	Off	N	10.7	28.1	60.0
16.637000	32.8	9.000	Off	N	10.7	27.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	21.2	9.000	Off	N	9.7	34.8	56.0
0.186000	17.7	9.000	Off	N	9.7	36.5	54.2
0.195000	16.9	9.000	Off	N	9.7	36.9	53.8
0.496500	23.4	9.000	Off	N	9.7	22.7	46.1
0.500000	23.2	9.000	Off	N	9.7	22.8	46.0
0.518000	21.3	9.000	Off	N	9.7	24.7	46.0
0.923000	16.2	9.000	Off	N	9.8	29.8	46.0
1.377500	19.7	9.000	Off	N	9.8	26.3	46.0
1.458500	19.3	9.000	Off	N	9.8	26.7	46.0
1.530500	18.8	9.000	Off	N	9.8	27.2	46.0
2.318000	18.4	9.000	Off	N	9.9	27.6	46.0
2.457500	16.7	9.000	Off	N	9.9	29.3	46.0
13.752500	25.9	9.000	Off	N	10.5	24.1	50.0
14.963000	26.8	9.000	Off	N	10.6	23.2	50.0
15.818000	26.8	9.000	Off	N	10.6	23.2	50.0
16.092500	26.9	9.000	Off	N	10.6	23.1	50.0
16.560500	26.2	9.000	Off	N	10.7	23.8	50.0
16.637000	26.3	9.000	Off	N	10.7	23.7	50.0

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12. LIST OF TEST EQUIPMENT

12.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Calibration Due	Serial No.
Rohde & Schwarz	ENV216/ LISN	01/29/2014	Annual	01/29/2015	100073
Agilent	E4440A/ Spectrum Analyzer	04/09/2014	Annual	04/25/2014	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	05/23/2013	Annual	05/23/2014	MY51110063
Agilent	N1911A/Power Meter	01/24/2014	Annual	01/24/2015	MY45100523
Agilent	N1921A /POWER SENSOR	07/11/2013	Annual	07/11/2014	MY45241059
Hewlett Packard	11636B/Power Divider	10/22/2013	Annual	10/22/2014	11377
Agilent	87300B/Directional Coupler	12/18/2013	Annual	12/18/2014	3116A03621
Hewlett Packard	11667B / Power Splitter	05/29/2013	Annual	05/29/2014	05001
DIGITAL	EP-3010 /DC POWER SUPPLY	10/29/2013	Annual	10/29/2014	3110117
ITECH	IT6720 / DC POWER SUPPLY	11/05/2013	Annual	11/05/2014	010002156287001199
TESCOM	TC-3000C / BLUETOOTH TESTER	04/24/2014	Annual	04/24/2015	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	05/07/2014	Annual	05/07/2015	100422
Agilent	8493C / Attenuator(10 dB)	07/24/2013	Annual	07/24/2014	76649
WEINSCHEL	2-3 / Attenuator(3 dB)	10/28/2013	Annual	10/28/2014	BR0617
NAENG YEOL CO.LTD	NY-THR18750/ Temp & Humidity Chamber	10/30/2013	Annual	10/30/2014	NY-200912201A

Note: This equipment (E4440A/ Spectrum Analyzer) is used after 04/09/2014 and actual calibration date is 04/09/2014

This equipment (TC-3000C / BLUETOOTH TESTER) is used after 04/24/2014 and actual calibration date is 04/24/2014

This equipment (CBT / BLUETOOTH TESTER) is used after 05/07/2014 and actual calibration date is 05/07/2014

12.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Calibration Due	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	12/17/2012	Biennial	12/17/2014	3150
Rohde & Schwarz	ESCI / EMI TEST RECEIVER	01/24/2014	Annual	01/24/2015	100584
HD	MA240/ Antenna Position Tower	N/A	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	N/A	12
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	09/10/2013	Annual	09/10/2014	10094
CERNEX	CBL18265035 / POWER AMP	07/24/2013	Annual	07/24/2014	22966
CERNEX	CBL26405040 / POWER AMP	04/04/2014	Annual	04/04/2015	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	07/05/2013	Biennial	07/05/2015	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	10/30/2012	Biennial	10/30/2014	BBHA9170124
Rohde & Schwarz	FSP / Spectrum Analyzer	01/24/2014	Annual	01/24/2015	839117/011
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	02/03/2014	Annual	02/03/2015	F6
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	04/09/2014	Annual	04/09/2015	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	04/04/2014	Annual	04/04/2015	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS Band Reject Filter	06/24/2013	Annual	06/24/2014	1
TESCOM	TC-3000C / BLUETOOTH TESTER	04/24/2014	Annual	04/24/2015	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	05/07/2014	Annual	05/07/2015	100422
Rohde & Schwarz	LOOP ANTENNA	08/14/2012	Biennial	08/14/2014	100179
CERNEX	CBL06185030 / POWER AMP	07/24/2013	Annual	07/24/2014	22965
CERNEX	CBLU1183540 / POWER AMP	07/24/2013	Annual	07/24/2014	22964

Note:

This equipment (WHNX6.0/26.5G-6SS / High Pass Filter) is used after 04/09/2014 and actual calibration date is 04/09/2014

This equipment (TC-3000C / BLUETOOTH TESTER) is used after 04/24/2014 and actual calibration date is 04/24/2014

This equipment (CBT / BLUETOOTH TESTER) is used after 05/07/2014 and actual calibration date is 05/07/2014