

TEST REPORT

EMI Test for FCC Certification of LG L555DL Model

APPLICANT
LG Electronics USA, Inc.

REPORT NO.
HCT-EM-1912-FC013-R1

DATE OF ISSUE January 21, 2020



HCT Co., Ltd.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Tel. +82 31 645 6300 Fax. +82 31 645 6401



REPORT NO. HCT-EM-1912-FC013-R1

DATE OF ISSUE January 21, 2020

FCC ID ZNFL555DL

Applicant	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States
Product Name Model Name Series Model Name	Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth LG L555DL Refer to the clause 1.1 Description of EUT
Travel Adaptor Information	Model name: MCS-V02WR Manufacturer: SUNLIN
Date of Test	December 03, 2019 to December 20, 2019
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Test Results	Refer to the present document
Manufacturer	LG Electronics Inc.
	The result shown in this test report refer only to the sample(s) tested unless

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

Tested by Na-Eun Song

Technical Manager Jeong-Hyun Choi



REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	December 24, 2019	Initial Release
1	January 21, 2020	Revised the unit in clause 4.1.3 Measuring Data

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)

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.

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

This Test Report is not related to the accredited test result by KOLAS(Korea Laboratory Accreditation Scheme) / A2LA(American Association for Laboratory Accreditation), which signed the ILAC-MRA.



CONTENTS

1. GENERAL INFORMATION	5
1.1 Description of EUT	5
1.2 Tested System Details	5
1.3 Cable Description	7
1.4 Noise Suppression Parts on Cable. (I/O Cable)	7
1.5 Test Facility	8
1.6 Calibration of Measuring Instrument	8
1.7 Measurement Uncertainty	8
2. DESCRIPTION OF TEST	9
2.1 Measurement of Conducted Emission	9
2.2 Measurement of Radiated Emission	10
2.3 Configuration of Tested System	11
3. PRELIMINARY TEST	12
3.1 Conducted Emission	12
3.2 Radiated Emission	12
4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY	13
4.1 Conducted Emission	13
4.2 Radiated Emission Below 1 GHz	20
4.3 Radiated Emission Above 1 GHz	22
5. CONCLUSION	25
6. APPENDIX A. TEST SETUP PHOTO	26



1. GENERAL INFORMATION

1.1 Description of EUT

FCC ID	ZNFL555DL				
Model Name	LG L555DL				
Series Model Name	LG-L555DL, LM-K500UM, LM-K500QM, LM-K500QM5, LM-K500QM6, LM-K500MM LM-K500UL, LM-K500VPP, LGL555DL, LMK500UM, LMK500QM, LMK500QM5, LMK500QM6, LMK500MM, LMK500UL, LMK500VPP, L555DL, K500UM, K500QM, K500QM5, K500QM6, K500MM, K500UL, K500VPP				
Product Name	Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth				
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 817.90 MHz to 823.10 MHz (CDMA BC10) 824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 907.6 MHz (WCDMA B2) 1712.4 MHz to 1752.6 MHz (WCDMA B4) 826.40 MHz to 846.60 MHz (WCDMA B5) 1 850 MHz to 1 910 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 824 MHz to 849 MHz (LTE B5) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 1 850 MHz to 1 915 MHz (LTE B25) 814 MHz to 849 MHz (LTE B26) 2 496 MHz to 2 690 MHz (LTE B41) 1 710 MHz to 1 780 MHz (LTE B66) 663 MHz to 698 MHz (LTE B71) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 5 GHz_UNII 1) 5 260 MHz to 5 720 MHz (WiFi 5 GHz_UNII 2A) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3)				



869.70 MHz to 893.31 MHz (CDMA BC0)

1 931.25 MHz to 1 988.75 MHz (CDMA BC1)

862.00 MHz to 894.00 MHz (CDMA BC10)

869.20 MHz to 893.80 MHz (GSM 850)

1 930.20 MHz to 1 989.80 MHz (GSM 1 900)

1 932.4 MHz to 1 987.6 MHz (WCDMA B2)

2 112.4 MHz to 2 152.6 MHz (WCDMA B4)

871.40 MHz to 891.60 MHz (WCDMA B5)

1 930 MHz to 1 990 MHz (LTE B2)

2 110 MHz to 2 155 MHz (LTE B4)

869 MHz to 894 MHz (LTE B5)

729 MHz to 746 MHz (LTE B12)

746 MHz to 756 MHz (LTE B13)

1 925 MHz to 1 990 MHz (LTE B25)

859 MHz to 894 MHz (LTE B26)

2 496 MHz to 2 690 MHz (LTE B41)

2 110 MHz to 2 200 MHz (LTE B66)

617 MHz to 652 MHz (LTE B71)

2 402 MHz to 2 480 MHz (Bluetooth)

2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

5 180 MHz to 5 240 MHz (WiFi 5 GHz_UNII 1)

5 260 MHz to 5 320 MHz (WiFi 5 GHz_UNII 2A)

5 500 MHz to 5 720 MHz (WiFi 5 GHz_UNII 2C)

5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3)

RX Frequency



1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer
EUT	LG L555DL	-	LG
Travel Adaptor	MCS-V02WR	-	SUNLIN
Data Cable	EAD64746105	-	KSD
Earphone	EAB64468444	-	CRESYN
Micro SD Card	SAMSUNG EVO+ microSDXC CLASS10 UHS- I (256GB)	-	SAMSUNG

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB Type C	Υ	N/A	(P) 1.0
	Earphone	N/A	N	(D) 1.2

NOTE. The marked "(D)" means the data cable and "(P)" means the power cable.

1.4 Noise Suppression Parts on Cable (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
FUT	USB Type C	N	N/A	Υ	Both End
EUT	Earphone	N	N/A	Υ	EUT End



1.5 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, South Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

Measurement Facilities	Designation No.
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	KR0032
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #2	

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in ac cordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards. Espectially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

1.7 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 data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty
Conducted Emission (0.15 MHz to 30 MHz)	1.8 dB
3 m Radiated Emissions (30 MHz to 1 GHz)	4.8 dB
3 m Radiated Emissions (1 GHz to 18 GHz)	5.4 dB
3 m Radiated Emissions (18 GHz to 40 GHz)	5.7 dB

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd. F-TP22-03 (Rev. 02)

Page 8 of 26



2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
 - If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
 - Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

Conducted Emission Limits

Fraguena	Resolution	Class A		Class B		
Frequency (MHz)	Bandwidth (kHz)	Quasi-Peak (dBµV)	Average (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)	
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*	
0.5 to 5	9	73	60	56	46	
5 to 30	9	73	60	60	50	

NOTE. Decreases with the logarithm of the frequency.



2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

 (1 GHz to 40 GHz)

Radiated Emission Limits

	Class A Class		Class B	В		
Frequency (MHz)	Antenna Distance (m)	Field Strength (µV/m)	Quasi-Peak (dBµV/m)	Antenna Distance (m)	Field Strength (µV/m)	Quasi-Peak (dBµV/m)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
F			Clas	s A	Cla	ss B
Frequency (MHz)	Antenna D (m)		Peak (dBµV/m)	Average (dBµV/m)	Peak (dBµV/m)	Average (dBµV/m)
Above 1 000	3		80	60	74	54

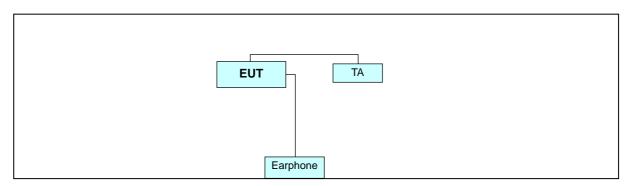


2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Configuration of Tested System



Non-Conductive Table Power Line: 120 VAC, 60 Hz



3. PRELIMINARY TEST

3.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes: FRONT CAMERA & MP3 mode

REAR CAMERA & FM RADIO mode

IDLE mode

NOTE. The worst-case emissions are reported.

3.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes: FRONT CAMERA & MP3 mode

REAR CAMERA & FM RADIO mode

IDLE mode

NOTE. The worst-case emissions are reported.



4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

	Type Manufacturer Mod		Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.18.2019
\boxtimes	LISN	Rohde & Schwarz	ENV216	102245	1 year	09.112019
\boxtimes	Software	Rohde & Schwarz	EMC32	-	-	-

4.1.2 Operating Condition

The test results of conducted emission at mains ports provide the following information:

Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	150 kHz to 30 MHz
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Worst Case of Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	EMI Shielded Room
Temperature	23.3°C
Relative Humidity	41.4 %
Test Date	December 20, 2019

Calculation Formula:

- 1. Conductor L1 = Hot, Conductor N = Neutral
- 2. Corr. = LISN Factor + Cable Loss
- 3. QuasiPeak or CAverage= Receiver Reading + Corr.
- 4. Margin = Limit QuasiPeak or CAverage

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd. F-TP22-03 (Rev. 02)

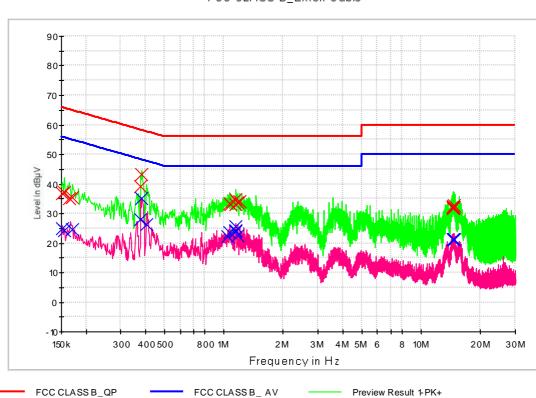
Page 13 of 26



4.1.3 Measuring Data

Preview Result 2-AVG

Figure 1: Conducted Emission (150 kHz to 30 MHz), Line (L1)



Final Result 1-QPK

Final Result 2-CAV

FCC CLASS B_Exten Cable



QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	36.9	9.000	L1	9.8	29.0	65.9
0.156000	37.0	9.000	L1	9.8	28.7	65.7
0.164000	35.1	9.000	L1	9.8	30.1	65.3
0.170000	35.6	9.000	L1	9.8	29.4	65.0
0.378000	39.1	9.000	L1	9.8	19.2	58.3
0.384000	43.2	9.000	L1	9.8	15.0	58.2
1.076000	33.4	9.000	L1	9.9	22.6	56.0
1.082000	33.2	9.000	L1	9.9	22.8	56.0
1.144000	33.0	9.000	L1	9.9	23.0	56.0
1.152000	34.8	9.000	L1	9.9	21.2	56.0
1.178000	33.7	9.000	L1	9.9	22.3	56.0
1.202000	34.2	9.000	L1	9.9	21.8	56.0
14.454000	32.1	9.000	L1	10.5	27.9	60.0
14.550000	31.8	9.000	L1	10.5	28.2	60.0
14.568000	32.3	9.000	L1	10.5	27.7	60.0
14.604000	32.1	9.000	L1	10.5	27.9	60.0
14.638000	32.2	9.000	L1	10.5	27.8	60.0
14.644000	32.5	9.000	L1	10.5	27.5	60.0



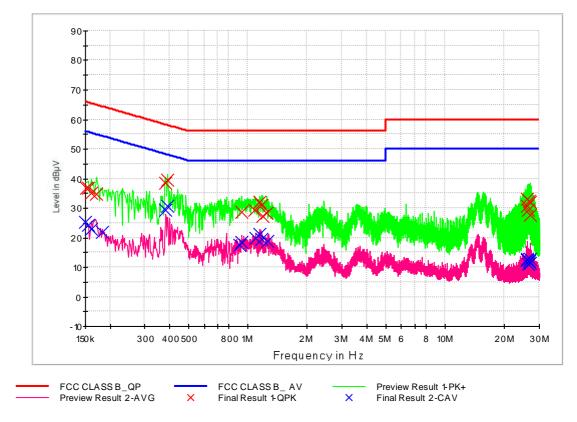
CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	24.9	9.000	L1	9.8	31.0	55.9
0.156000	24.3	9.000	L1	9.8	31.4	55.7
0.170000	24.7	9.000	L1	9.8	30.3	55.0
0.378000	27.8	9.000	L1	9.8	20.5	48.3
0.384000	35.0	9.000	L1	9.8	13.2	48.2
0.404000	26.3	9.000	L1	9.8	21.4	47.8
1.050000	22.4	9.000	L1	9.9	23.6	46.0
1.076000	23.7	9.000	L1	9.9	22.3	46.0
1.144000	23.9	9.000	L1	9.9	22.1	46.0
1.148000	25.4	9.000	L1	9.9	20.6	46.0
1.152000	24.3	9.000	L1	9.9	21.7	46.0
1.178000	22.5	9.000	L1	9.9	23.5	46.0
14.454000	21.1	9.000	L1	10.5	28.9	50.0
14.602000	21.3	9.000	L1	10.5	28.7	50.0
14.638000	21.2	9.000	L1	10.5	28.8	50.0
14.666000	21.1	9.000	L1	10.5	28.9	50.0
14.706000	21.2	9.000	L1	10.5	28.8	50.0
14.728000	21.1	9.000	L1	10.5	28.9	50.0



Figure 2: Conducted Emission (150 kHz to 30 MHz), Line (N)







QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	36.7	9.000	N	9.8	29.2	65.9
0.156000	36.8	9.000	N	9.8	28.9	65.7
0.160000	35.2	9.000	N	9.8	30.2	65.5
0.170000	34.8	9.000	N	9.8	30.1	65.0
0.382000	38.4	9.000	N	9.8	19.9	58.2
0.390000	39.5	9.000	N	9.8	18.5	58.1
0.932000	28.5	9.000	N	9.9	27.5	56.0
1.080000	29.2	9.000	N	9.9	26.8	56.0
1.146000	31.9	9.000	N	9.9	24.1	56.0
1.172000	31.1	9.000	N	9.9	24.9	56.0
1.186000	27.4	9.000	N	9.9	28.6	56.0
1.240000	28.4	9.000	N	9.9	27.6	56.0
26.078000	30.8	9.000	N	11.0	29.2	60.0
26.084000	32.9	9.000	N	11.0	27.1	60.0
26.286000	29.2	9.000	N	11.0	30.8	60.0
26.670000	32.4	9.000	N	11.0	27.6	60.0
26.858000	32.0	9.000	N	11.0	28.0	60.0
26.866000	27.7	9.000	N	11.0	32.3	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	25.1	9.000	N	9.8	30.9	56.0
0.156000	24.2	9.000	N	9.8	31.4	55.7
0.160000	22.8	9.000	N	9.8	32.7	55.5
0.182000	22.0	9.000	N	9.8	32.4	54.4
0.384000	29.2	9.000	N	9.8	19.0	48.2
0.390000	30.6	9.000	N	9.8	17.5	48.1
0.906000	17.4	9.000	N	9.9	28.6	46.0
0.932000	18.3	9.000	N	9.9	27.7	46.0
1.096000	20.0	9.000	N	9.9	26.0	46.0
1.146000	21.2	9.000	N	9.9	24.8	46.0
1.172000	19.6	9.000	N	9.9	26.4	46.0
1.260000	18.9	9.000	N	9.9	27.1	46.0
26.078000	12.7	9.000	N	11.0	37.3	50.0
26.084000	12.3	9.000	N	11.0	37.7	50.0
26.286000	10.9	9.000	N	11.0	39.1	50.0
26.670000	12.0	9.000	N	11.0	38.0	50.0
26.858000	12.8	9.000	N	11.0	37.2	50.0
26.866000	11.3	9.000	N	11.0	38.7	50.0



4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
\boxtimes	Trilog antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
\boxtimes	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
\boxtimes	Antenna master controller	INNCO Systems	CO 3000	CO3000/870/ 35990515/L	N/A	-
\boxtimes	Turn Table	INNCO Systems	1060	-	N/A	-
\boxtimes	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
\boxtimes	Software	Rohde & Schwarz	EMC32	-	-	-

4.2.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	30 MHz to 1 000 MHz
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Worst Case of Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.1 / 22.4°C
Relative Humidity	41.5 / 42.9 %
Test Date	December 03 / December 05, 2019



4.2.3 Measuring Data

Frequency (MHz)	Quasi Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
31.118172	23.2	100.0	V	0.0	18.4	16.8	40.0
53.402800	19.8	100.0	V	210.0	19.7	20.2	40.0
87.407600	22.3	225.1	Н	109.0	14.7	17.7	40.0
155.371200	18.1	225.0	V	7.0	19.7	25.4	43.5
480.862400	23.9	174.8	V	154.0	24.8	22.1	46.0
626.685400	27.9	100.0	Н	311.0	27.8	18.1	46.0

- Calculation Formula:

- 1. POL. H = Horizontal, POL. V = Vertical
- 2. QuasiPeak = Reading (Receiver Reading) + Corr.
- 3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
- 4. Margin = Limit QuasiPeak



4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
\boxtimes	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
\boxtimes	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
\boxtimes	Turn table	INNCO Systems	1060	-	N/A	-
\boxtimes	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
\boxtimes	Low Noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
\boxtimes	Low Noise amplifier	TESTEK	TK-PA1840H	170033-L	1 year	03.11.2019
\boxtimes	Horn antenna	Schwarzbeck	BBHA 9120D	01836	1 year	07.19.2019
\boxtimes	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170786	1 year	12.03.2019
\boxtimes	Software	Rohde & Schwarz	EMC32	-	-	-



4.3.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Frequency	5 825 MHz
Tested Frequency Range	1 GHz to 30 GHz
Worst Case of Operating Mode	REAR CAMERA & FM RADIO mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.6 °C
Relative Humidity	41.7 %
Test Date	December 16, 2019
· · · · · · · · · · · · · · · · · · ·	



4.3.3 Measuring Data

Frequency (MHz)	Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
2914.195000	35.2	299.6	V	155.0	-21.4	38.8	74.0
5134.105000	39.5	350.0	V	0.0	-15.6	34.5	74.0
7325.955000	44.8	248.5	Н	332.0	-9.7	29.2	74.0
9645.755000	48.2	292.5	Н	4.0	-5.1	25.8	74.0
10229.775000	48.5	125.8	Н	279.0	-4.3	25.5	74.0
14727.805000	49.5	163.5	٧	54.0	1.0	24.5	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
2914.195000	22.3	299.6	V	155.0	-21.4	31.7	54.0
5134.105000	26.6	350.0	٧	0.0	-15.6	27.4	54.0
7325.955000	31.6	248.5	Н	332.0	-9.7	22.4	54.0
9645.755000	35.5	292.5	Н	4.0	-5.1	18.5	54.0
10229.775000	35.5	125.8	Н	279.0	-4.3	18.5	54.0
14727.805000	36.8	163.5	V	54.0	1.0	17.2	54.0

- Calculation Formula:

- 1. POL. H = Horizontal, POL. V = Vertical
- 2. Peak or CAverage = Reading (Receiver Reading) + Corr.
- 3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
- 4. Margin = Limit Peak or CAverage



5. CONCLUSION

The data collected shows that the **Product Name: Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth, Model Name: LG L555DL** complies with § 15.107 and § 15.109 of the FCC rules.



6. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

File No.	Date of Issue	Description
HCT-EM-1912-FC013-P	December 24, 2019	Initial Release

End of report