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EMI TEST REPORT
FCC CERTIFICATION

Applicant: **LG Electronics MobileComm U.S.A., Inc.** **1000 Sylvan Avenue, Englewood Cliffs NJ 07632**	**Date of Receipt: November 23, 2016** **Date of Issue: December 19, 2016** **Test Report No. HCT-E-1612-F030** **HCT FRN: 0005866421**

FCC ID : **ZNFL58VL**

Rule Part(s) / Standard(s):	FCC CFR 47 PART 15 Subpart B Class B
FCC Classification:	JBP (Part 15 B – Class B Computing Device Peripheral)
EUT Type:	CDMA/LTE Mobile Phone
Model Name:	LGL58VL
Additional Model Name:	LG-L58VL, L58VL
Date of Test:	December 01, 2016 - December 16, 2016

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

Tested By

Yeong-Moo Kim
Test Engineer
EMC Team
Certification Division

Reviewed By

Kyoung-Hee Yoon
Technical Manager
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DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1612-F030	December 19, 2016	Initial Release

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ATTACHMENT: TEST SETUP PHOTOGRAPHS

1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFL58VL
Model	LGL58VL
Additional Model	LG-L58VL, L58VL
EUT Type	CDMA/LTE Mobile Phone
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 1 850 MHz to 1 910 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 777 MHz to 787 MHz (LTE B13) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0) 1 931.25 MHz to 1 988.75 MHz (CDMA BC1) 1 930 MHz to 1 990 MHz (LTE B2) 2 110 MHz to 2 155 MHz (LTE B4) 746 MHz to 756 MHz (LTE B13) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.

1.3 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.

Measurement Facilities	Registration Number
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	90661 (July 07, 2015)
Radiated Field strength measurement facility 10 m Semi Anechoic chamber	

1.4 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipments, which is traceable to recognized national standards.
Espectially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

1.5 Tested System Details

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

Device Type	Model Name	Manufacturer	FCC ID / DoC	Connected To
EUT	LGL58VL	LG	ZNFL58VL	Notebook PC, Earphone
USB Cable	EAD62377926	LEAGTECH	-	EUT, Notebook PC
USB Cable	EAD62377924	KSD	-	EUT, Notebook PC
USB Cable	EAD62377925	CRESYN	-	EUT, Notebook PC
USB Cable	EAD62377928	Ningbo Broad	-	EUT, Notebook PC
Earphone	EAB62209201	I-Sound	-	EUT
Notebook PC	ProBook6560b	HP	DoC	Gateway , Notebook PC adaptor, RJ45 cable, Serial mouse
Notebook PC adaptor	Series PPP009L-E	LITE-On Technology	-	Notebook PC
Gateway	TL-WR747N	TP-LINK	-	RJ45 cable, Gateway adaptor
Gateway adaptor	T120150-2H1	TP-LINK	-	Gateway
Serial mouse	Serial 2 button mouse	Radio shack	FSUGMZE3	Notebook PC
RJ45 cable	-	-	-	Notebook PC, Gateway
Micro SD card	MICROSDHC 32 GB	SANDISK	-	EUT

1.6 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Y	Y	(P,D)1.0
	Earphone	N/A	Y	(D)1.15
Notebook PC	RJ 45	N/A	N	(D)1.6
	Serial (Mouse)	N/A	Y	(D)1.8
	DC in	N	N/A	(P)1.8
Gateway	DC in	N	N/A	(P)1.8

* The marked “(D)” means the data cable and “(P)” means the power cable.

1.7 Noise Suppression Parts on Cable. (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB	N	N/A	Y	Both End
	Earphone	N	N/A	Y	Both End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC End

2. 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 (dB)
Conducted Emission (0.15 MHz to 30 MHz)	±1.82 dB ($k = 2$)
Radiated Emissions (30 MHz to 1 GHz)	±5.06 dB ($k = 2$)
Radiated Emissions (1 GHz to 6 GHz)	±5.0 dB ($k = 2$)
Radiated Emissions (6 GHz to 18 GHz)	±5.4 dB ($k = 2$)

3. DESCRIPTION OF TEST

3.1 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]

Frequency (MHz)	Resolution Bandwidth (kHz)	Quasi-Peak (dB(μV))	Average (dB(μV))
0.15 to 0.5	9	66 to 56*	56 to 46*
0.5 to 5	9	56	46
5 to 30	9	60	50

**Decreases with the logarithm of the frequency.*

3.2 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]

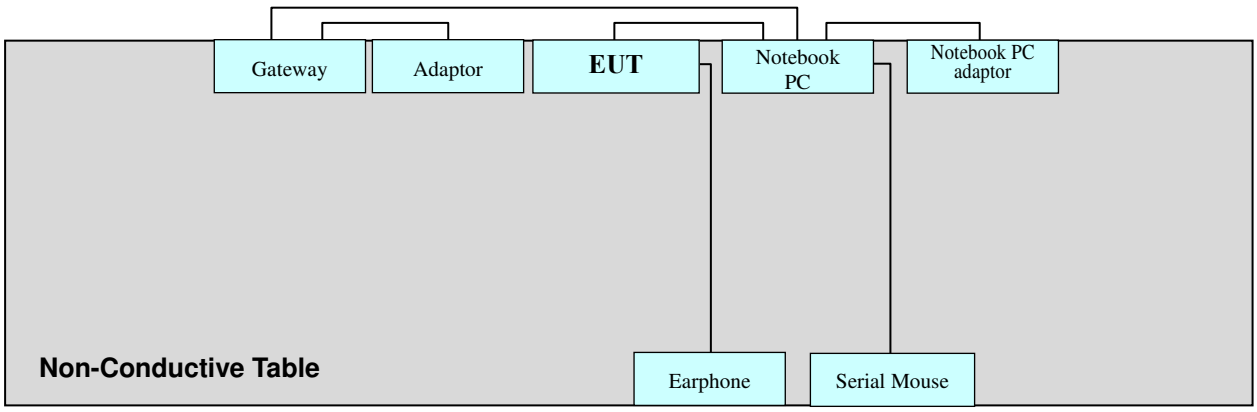
Frequency (MHz)	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dB(μV)/m)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	**Antenna Distance (m)**	**Peak (dB(μV)/m)**	**Average (dB(μV)/m)**
Above 1 000	3	74	54

3.2.1 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 ㎓, whichever is lower

3.3 Configuration of Tested System



Power Line: 120 VAC, 60 Hz

4. PRELIMINARY TEST

4.1 Conducted Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: ☒ Data Communication mode

4. 2 Radiated Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: ☒ Data Communication mode

5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

5.1 Conducted Emission Test

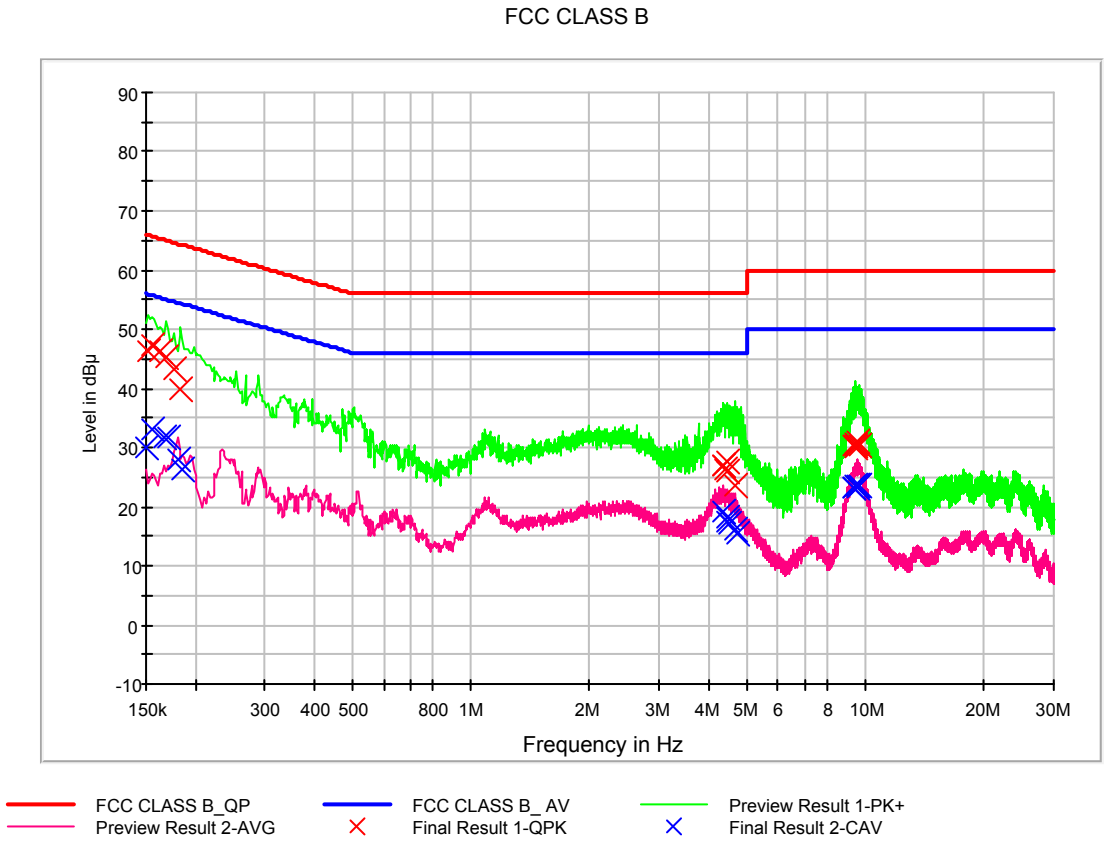
The test results of conducted emission at mains ports provide the following information:

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
Worst Case USB Cable	CRESYN (EAD62377925)
Kind of Test Site	Shielded Room
Temperature	21.8 °C
Relative Humidity	35.5 %
Test Date	December 16, 2016

- 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

Figure 1: Spectral Diagrams, Conducted Emission, AC Main Port, Line (L1)



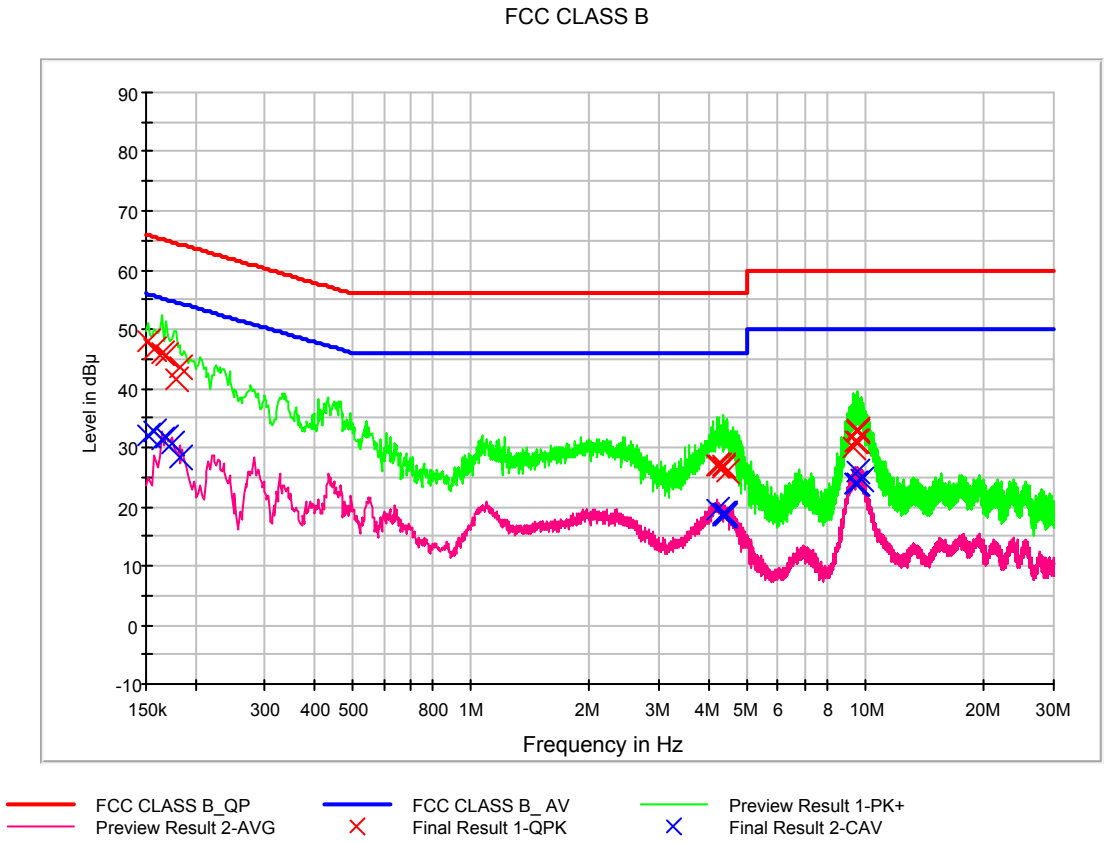
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	46.3	9.000	L1	9.7	19.6	65.9
0.156000	47.2	9.000	L1	9.7	18.5	65.7
0.162000	46.2	9.000	L1	9.7	19.1	65.4
0.168000	45.4	9.000	L1	9.7	19.6	65.1
0.176000	43.3	9.000	L1	9.7	21.3	64.7
0.184000	39.7	9.000	L1	9.7	24.6	64.3
4.340000	26.8	9.000	L1	9.9	29.2	56.0
4.360000	27.0	9.000	L1	9.9	29.0	56.0
4.410000	26.1	9.000	L1	9.9	29.9	56.0
4.440000	27.7	9.000	L1	9.9	28.3	56.0
4.452000	25.9	9.000	L1	9.9	30.1	56.0
4.654000	23.6	9.000	L1	9.9	32.4	56.0
9.276000	30.2	9.000	L1	10.1	29.8	60.0
9.386000	30.7	9.000	L1	10.1	29.3	60.0
9.404000	30.0	9.000	L1	10.1	30.0	60.0
9.440000	30.4	9.000	L1	10.1	29.6	60.0
9.536000	31.1	9.000	L1	10.1	28.9	60.0
9.670000	30.4	9.000	L1	10.1	29.6	60.0

CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	30.1	9.000	L1	9.7	25.9	56.0
0.156000	33.0	9.000	L1	9.7	22.7	55.7
0.166000	31.5	9.000	L1	9.7	23.6	55.2
0.170000	31.8	9.000	L1	9.7	23.1	55.0
0.180000	27.9	9.000	L1	9.7	26.6	54.5
0.186000	26.2	9.000	L1	9.7	28.1	54.2
4.340000	19.1	9.000	L1	9.9	26.9	46.0
4.452000	18.3	9.000	L1	9.9	27.7	46.0
4.476000	17.4	9.000	L1	9.9	28.6	46.0
4.536000	17.1	9.000	L1	9.9	28.9	46.0
4.654000	16.1	9.000	L1	9.9	29.9	46.0
4.714000	15.3	9.000	L1	9.9	30.7	46.0
9.276000	23.3	9.000	L1	10.1	26.7	50.0
9.338000	23.1	9.000	L1	10.1	26.9	50.0
9.404000	23.7	9.000	L1	10.1	26.3	50.0
9.536000	23.3	9.000	L1	10.1	26.7	50.0
9.584000	23.6	9.000	L1	10.1	26.4	50.0
9.670000	23.5	9.000	L1	10.1	26.5	50.0

Figure 2: Spectral Diagrams, Conducted Emission, AC Main Port, Line (N)



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	47.8	9.000	N	9.7	18.1	65.9
0.158000	46.5	9.000	N	9.7	19.1	65.6
0.164000	45.9	9.000	N	9.7	19.3	65.3
0.168000	45.6	9.000	N	9.7	19.5	65.1
0.178000	41.5	9.000	N	9.7	23.1	64.6
0.182000	43.5	9.000	N	9.7	20.9	64.4
4.196000	27.0	9.000	N	9.9	29.0	56.0
4.222000	27.0	9.000	N	9.9	29.0	56.0
4.230000	26.9	9.000	N	9.9	29.1	56.0
4.342000	27.1	9.000	N	9.9	28.9	56.0
4.346000	26.7	9.000	N	9.9	29.3	56.0
4.464000	26.1	9.000	N	9.9	29.9	56.0
9.320000	29.9	9.000	N	10.0	30.1	60.0
9.452000	31.1	9.000	N	10.0	28.9	60.0
9.486000	30.9	9.000	N	10.0	29.1	60.0
9.524000	32.6	9.000	N	10.0	27.4	60.0
9.566000	32.6	9.000	N	10.0	27.4	60.0
9.580000	33.2	9.000	N	10.0	26.8	60.0

CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	31.9	9.000	N	9.7	24.0	55.9
0.158000	32.8	9.000	N	9.7	22.7	55.6
0.164000	31.3	9.000	N	9.7	23.9	55.3
0.168000	31.5	9.000	N	9.7	23.5	55.1
0.174000	30.8	9.000	N	9.7	23.9	54.8
0.182000	28.2	9.000	N	9.7	26.2	54.4
4.190000	19.4	9.000	N	9.9	26.6	46.0
4.342000	18.6	9.000	N	9.9	27.4	46.0
4.346000	19.0	9.000	N	9.9	27.0	46.0
4.382000	18.8	9.000	N	9.9	27.2	46.0
4.386000	18.7	9.000	N	9.9	27.3	46.0
4.422000	18.3	9.000	N	9.9	27.7	46.0
9.392000	23.9	9.000	N	10.0	26.1	50.0
9.452000	23.9	9.000	N	10.0	26.1	50.0
9.486000	23.8	9.000	N	10.0	26.2	50.0
9.524000	23.8	9.000	N	10.0	26.2	50.0
9.580000	26.1	9.000	N	10.0	23.9	50.0
9.784000	24.5	9.000	N	10.0	25.5	50.0

5.2 Radiated Emission Test

The test results of radiated emission provide the following information:

-For Measurement Below 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
Worst Case USB Cable	CRESYN (EAD62377925)
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.8 °C
Relative Humidity	31.7 %
Test Date	December 07, 2016

Frequency (MHz)	Quasi Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
30.255392	29.4	100.0	V	71.0	21.3	10.6	40.0
54.078462	27.2	100.0	V	300.0	22.8	12.8	40.0
82.345600	29.2	250.0	H	87.0	18.5	10.8	40.0
153.153241	22.0	100.0	V	101.0	22.7	21.5	43.5
266.559200	34.3	100.0	H	319.0	22.6	11.7	46.0
956.513214	37.0	400.0	H	157.0	35.8	9.0	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

-For Measurement Above 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Operating Frequency	2 480 MHz
Upper Frequency of Measurement Range	1 GHz to 12.4 GHz
Worst Case USB Cable	CRESYN (EAD62377925)
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.4 °C
Relative Humidity	37.8 %
Test Date	December 15, 2016

Frequency (MHz)	Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1328.795000	42.6	329.6	V	297.0	-13.0	31.4	74.0
1400.050000	47.9	346.6	V	39.0	-12.8	26.1	74.0
2081.195000	45.0	100.0	V	223.0	-11.8	29.0	74.0
2164.270000	39.4	150.1	V	240.0	-11.4	34.6	74.0
2664.095000	45.2	142.8	V	161.0	-9.1	28.8	74.0
2999.735000	44.1	100.0	V	212.0	-8.1	29.9	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1328.795000	20.0	329.6	V	297.0	-13.0	34.0	54.0
1400.050000	46.4	346.6	V	39.0	-12.8	7.6	54.0
2081.195000	22.9	100.0	V	223.0	-11.8	31.1	54.0
2164.270000	20.9	150.1	V	240.0	-11.4	33.1	54.0
2664.095000	22.6	142.8	V	161.0	-9.1	31.4	54.0
2999.735000	30.0	100.0	V	212.0	-8.1	24.0	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

6. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	CAL Date
Conducted Emission					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	12.28.2015
☒ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	06.09.2016
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	12.28.2015
☒ Software	Rohde & Schwarz	EMC32	-	-	-
Radiated Emission					
-For measurement below 1 GHz					
☐ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	03.30.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100514	1 year	10.10.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100514	1 year	10.10.2016
☒ Trilog Antenna	Schwarzbeck	VULB9168	255	2 year	04.15.2015
☒ 6dB Attenuator	HP	8491A	24257	2 year	04.15.2015
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☒ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒ Turn Table	EMCO	1060-2M	-	N/A	-
☒ Turn Table controller	EMCO	2090	9702-1224	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	05.27.2016
☐ Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32	-	-	-
-For measurement above 1 GHz					
☐ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	03.30.2016
☐ EMI Test Receiver	Rohde & Schwarz	ESIB26	100298	1 year	02.11.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100514	1 year	10.10.2016
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒ Antenna master	INNCO Systems	MA4000-XP-ET	48709515	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515	N/A	-
☒ Turn Table	EMCO	1060-2M	-	N/A	-
☒ Turn Table controller	EMCO	2090	9702-1224	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	07.04.2016
☒ Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.07.2016
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
☐ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170541	2 year	09.03.2015
☐ Power Amplifier	CERNEX	CBL18265035	22966	1 year	07.11.2016
☐ Power Amplifier	CERNEX	CBL26405040	19660	1 year	07.15.2016
☐ Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	08.25.2016
☐ EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	05.27.2016
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32	-	-	-

7. CONCLUSION

The data collected shows that the **EUT Type: CDMA/LTE Mobile Phone, Model: LGL58VL, FCC ID: ZNFL58VL** complies with §15.107 and §15.109 of the FCC rules.