

EMI TEST REPORT

FCC CERTIFICATION

Applicant:

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

Date of Receipt: December 26, 2017**Date of Issue:** January 26, 2018**Test Report No.** HCT-EM-1801-FC037-R1**FCC ID :****ZNFX210ULM**

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: Multi-band CDMA/LTE Phone with BT and WLAN
Model Name: LM-X210ULM
Additional Model Name: LMX210ULM, X210ULM
Date of Test: January 10, 2018 – January 12, 2018

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 denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Tested By

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REVISION HISTORY

The revision history for this document is shown in table.

Version	Issue Date	Description
HCT-EM-1801-FC037	January 22, 2018	Initial Release
HCT-EM-1801-FC037-R1	January 26, 2018	Revision Text (Clause 1.5)



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFX210ULM
Model	LM-X210ULM
Additional Model	LMX210ULM, X210ULM
EUT Type	Multi-band CDMA/LTE Phone with BT and WLAN
TX Frequency	824 MHz to 849 MHz (CDMA BC0) 1 850 MHz to 1 910 MHz (CDMA BC1) 1 850.7 MHz to 1909.3 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) 1 850 MHz to 1 915 MHz (LTE B25) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	869 MHz to 893 MHz (CDMA BC0) 1 930 MHz to 1 990 MHz (CDMA BC1) 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) 1 930 MHz to 1 995 MHz (LTE B25) 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
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.

Especially, 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	Serial Number	Manufacturer	FCC ID / DoC
EUT	LM-X210ULM	-	LG	ZNFX210ULM
Travel adaptor	MCS-02WDE	-	DONGDO	-
Data cable	EAD62377927	-	Ningbo	-
Earphone	EAB64168751	-	I-Sound	-
Micro SD card	SanDisk Extreme 32 GB SD Card	-	SanDisk	-

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)1.0
	Earphone	N/A	Y	(D)1.2

* 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	EUT 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)	5.20 dB ($k = 2$)
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB ($k = 2$)
Radiated Emissions (18 GHz to 40 GHz)	5.40 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 ($\mu\text{V}/\text{m}$)	Quasi-Peak ($\text{dB}(\mu\text{V})/\text{m}$)
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 ($\text{dB}(\mu\text{V})/\text{m}$)	Average ($\text{dB}(\mu\text{V})/\text{m}$)
Above 1 000	3	74	54

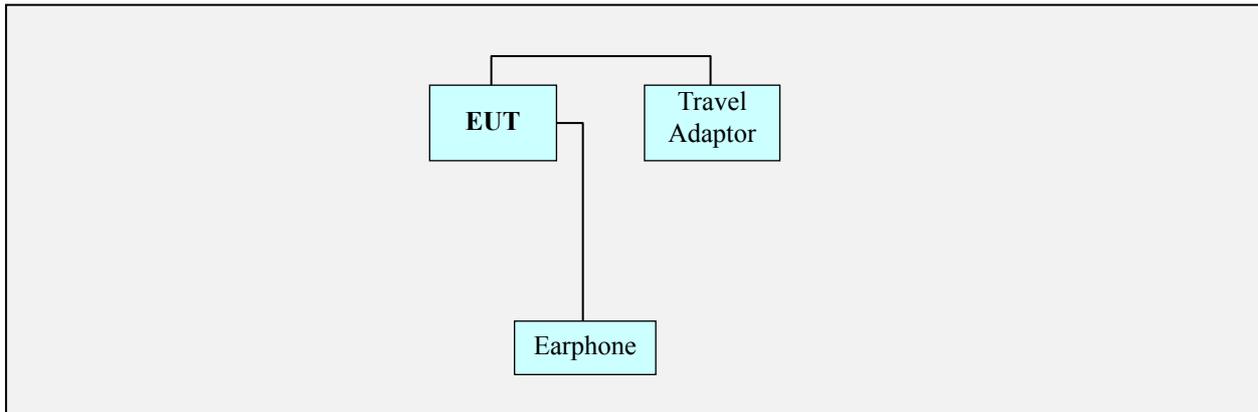


3.2.1 Frequency Range of Radiated Measurements

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	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

3.3 Configuration of Tested System



Non-Conductive Table
Power Line: 120 VAC



4. PRELIMINARY TEST

4.1 Conducted Emission Test

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

- Operation Mode:** Camera (Front) & MP3 mode
 Camera (Rear) & FM Radio mode
 Idle mode

NOTE. *The worst-case emissions are reported.*

4.2 Radiated Emission Test

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

- Operation Mode:** Camera (Front) & MP3 mode
 Camera (Rear) & FM Radio mode
 Idle mode

NOTE. *The worst-case emissions are reported.*



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:

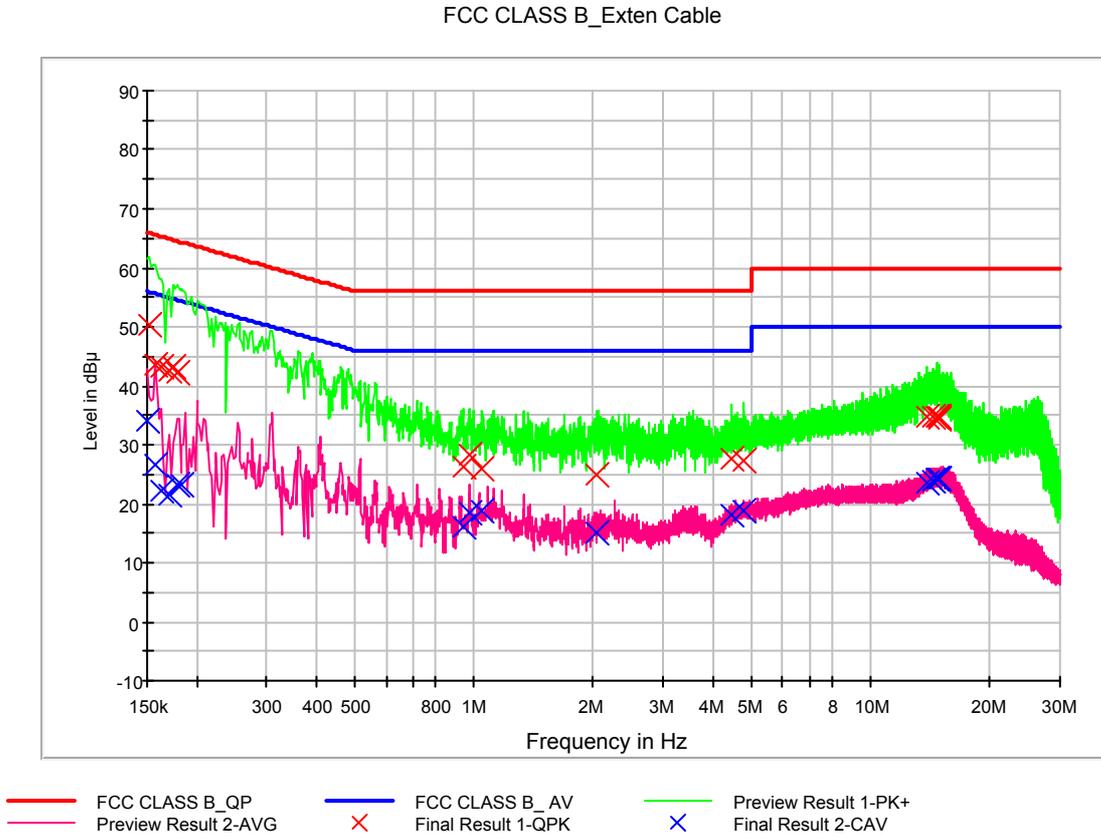
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Worst Case of Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	EMI Shielded Room
Temperature	19.7 °C
Relative Humidity	37.0 %
Test Date	January 10, 2018

- 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: Conducted Emission, AC Main Port, Data Communication Mode, Line (L1)





QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	50.5	9.000	L1	9.7	15.4	65.9
0.158000	43.5	9.000	L1	9.7	22.0	65.6
0.162000	43.1	9.000	L1	9.7	22.2	65.4
0.170000	42.5	9.000	L1	9.7	22.4	65.0
0.174000	43.3	9.000	L1	9.7	21.5	64.8
0.178000	42.1	9.000	L1	9.7	22.4	64.6
0.936000	26.1	9.000	L1	9.8	29.9	56.0
0.970000	28.5	9.000	L1	9.8	27.5	56.0
1.050000	26.0	9.000	L1	9.8	30.0	56.0
2.048000	24.9	9.000	L1	9.8	31.1	56.0
4.452000	27.8	9.000	L1	10.0	28.2	56.0
4.784000	27.4	9.000	L1	10.0	28.6	56.0
13.784000	34.6	9.000	L1	10.2	25.4	60.0
14.346000	34.6	9.000	L1	10.2	25.4	60.0
14.622000	34.7	9.000	L1	10.3	25.3	60.0
14.656000	34.6	9.000	L1	10.3	25.4	60.0
14.790000	34.3	9.000	L1	10.3	25.7	60.0
14.798000	34.8	9.000	L1	10.3	25.2	60.0

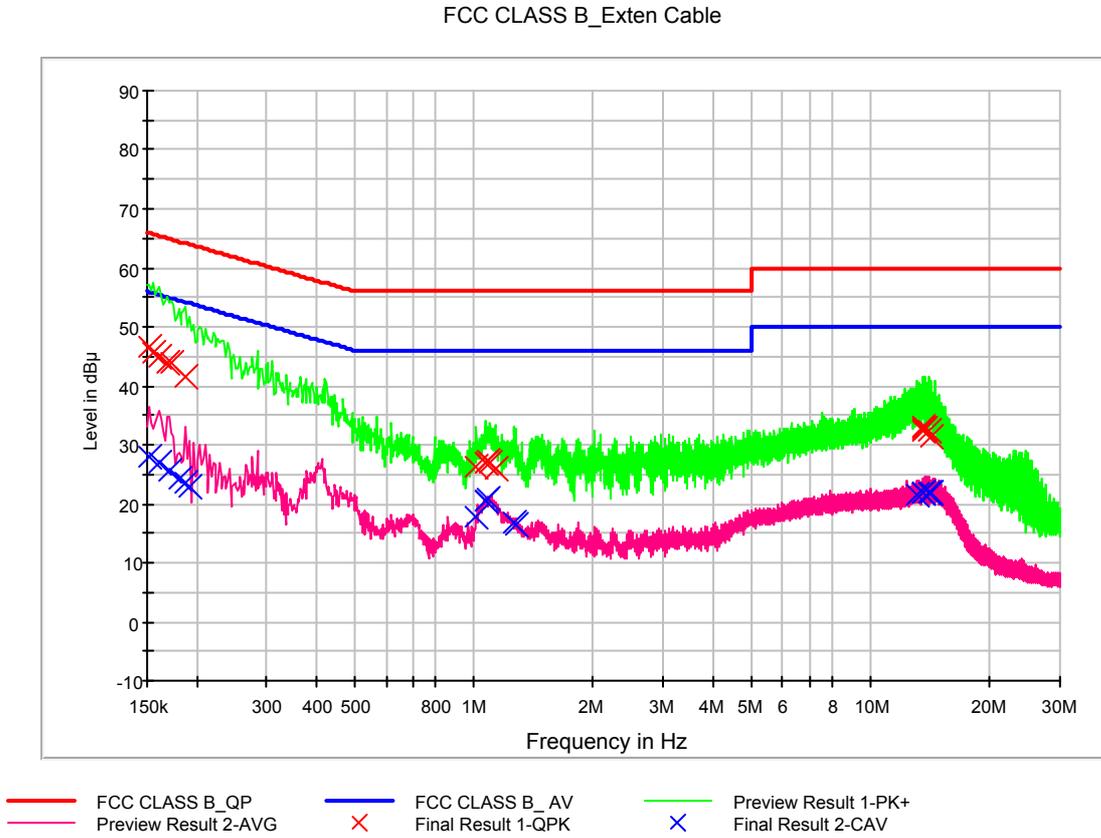


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	34.2	9.000	L1	9.7	21.8	56.0
0.158000	26.6	9.000	L1	9.7	29.0	55.6
0.162000	22.2	9.000	L1	9.7	33.1	55.4
0.170000	21.5	9.000	L1	9.7	33.5	55.0
0.178000	23.2	9.000	L1	9.7	31.4	54.6
0.184000	23.1	9.000	L1	9.7	31.2	54.3
0.936000	16.1	9.000	L1	9.8	29.9	46.0
0.970000	18.3	9.000	L1	9.8	27.7	46.0
1.050000	19.0	9.000	L1	9.8	27.0	46.0
2.048000	15.0	9.000	L1	9.8	31.0	46.0
4.452000	18.3	9.000	L1	10.0	27.7	46.0
4.784000	18.7	9.000	L1	10.0	27.3	46.0
13.784000	23.5	9.000	L1	10.2	26.5	50.0
14.346000	24.1	9.000	L1	10.2	25.9	50.0
14.622000	24.1	9.000	L1	10.3	25.9	50.0
14.656000	24.3	9.000	L1	10.3	25.7	50.0
14.790000	24.2	9.000	L1	10.3	25.8	50.0
14.798000	24.3	9.000	L1	10.3	25.7	50.0



Figure 2: Conducted Emission, AC Main Port, Data Communication Mode, Line (N)





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	46.7	9.000	N	9.7	19.2	65.9
0.156000	45.7	9.000	N	9.7	19.9	65.7
0.160000	45.0	9.000	N	9.7	20.5	65.5
0.168000	44.1	9.000	N	9.7	21.0	65.1
0.172000	43.8	9.000	N	9.7	21.1	64.9
0.188000	41.5	9.000	N	9.7	22.6	64.1
1.014000	26.4	9.000	N	9.8	29.6	56.0
1.066000	26.9	9.000	N	9.8	29.1	56.0
1.070000	26.8	9.000	N	9.8	29.2	56.0
1.088000	27.2	9.000	N	9.8	28.8	56.0
1.100000	27.1	9.000	N	9.8	28.9	56.0
1.130000	26.1	9.000	N	9.8	29.9	56.0
13.516000	32.3	9.000	N	10.4	27.7	60.0
13.530000	33.0	9.000	N	10.4	27.0	60.0
13.598000	32.6	9.000	N	10.4	27.4	60.0
13.634000	32.6	9.000	N	10.4	27.4	60.0
13.988000	32.5	9.000	N	10.4	27.5	60.0
14.236000	31.4	9.000	N	10.4	28.6	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	28.0	9.000	N	9.7	27.9	55.9
0.160000	27.1	9.000	N	9.7	28.4	55.5
0.170000	25.5	9.000	N	9.7	29.5	55.0
0.180000	24.3	9.000	N	9.7	30.2	54.5
0.188000	23.6	9.000	N	9.7	30.5	54.1
0.192000	22.8	9.000	N	9.7	31.2	53.9
1.014000	17.9	9.000	N	9.8	28.1	46.0
1.066000	20.5	9.000	N	9.8	25.5	46.0
1.070000	20.6	9.000	N	9.8	25.4	46.0
1.088000	20.7	9.000	N	9.8	25.3	46.0
1.264000	16.8	9.000	N	9.8	29.2	46.0
1.276000	16.5	9.000	N	9.8	29.5	46.0
13.030000	21.5	9.000	N	10.4	28.5	50.0
13.516000	21.7	9.000	N	10.4	28.3	50.0
13.530000	21.8	9.000	N	10.4	28.2	50.0
13.598000	21.8	9.000	N	10.4	28.2	50.0
13.988000	22.0	9.000	N	10.4	28.0	50.0
14.236000	21.8	9.000	N	10.4	28.2	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)
Worst Case of Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	19.1 °C
Relative Humidity	35.0 %
Test Date	January 12, 2018

Frequency (MHz)	Quasi Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
30.957720	27.0	100.0	V	306.0	21.8	13.0	40.0
46.058400	22.9	100.0	V	282.0	23.1	17.1	40.0
55.411200	22.9	100.0	V	116.0	23.1	17.1	40.0
103.414400	19.5	100.0	V	236.0	19.1	24.0	43.5
157.369600	21.5	393.0	H	108.0	23.4	22.0	43.5
956.855200	35.7	133.0	V	120.0	35.8	10.3	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	1 GHz to 12.4 GHz
Worst Case of Operation Mode	Camera (Rear) & FM Radio mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	19.7 °C
Relative Humidity	36.5 %
Test Date	January 11, 2018

Frequency (MHz)	Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1174.790000	32.7	291.7	V	0.0	-13.5	41.3	74.0
1446.000000	33.4	349.7	V	50.0	-12.7	40.6	74.0
2023.240000	33.2	200.8	H	245.0	-11.7	40.8	74.0
2365.065000	33.9	140.7	V	276.0	-10.3	40.1	74.0
4625.890000	37.8	249.6	V	50.0	-5.2	36.2	74.0
7073.455000	43.3	275.8	V	313.0	2.0	30.7	74.0

Frequency (MHz)	CAverage (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1174.790000	19.7	291.7	V	0.0	-13.5	34.3	54.0
1446.000000	19.9	349.7	V	50.0	-12.7	34.1	54.0
2023.240000	20.3	200.8	H	245.0	-11.7	33.7	54.0
2365.065000	21.0	140.7	V	276.0	-10.3	33.0	54.0
4625.890000	25.4	249.6	V	50.0	-5.2	28.6	54.0
7073.455000	30.5	275.8	V	313.0	2.0	23.5	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

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>CAL Date</u>
<u>Conducted Emission</u>					
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.20.2017
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	06.27.2017
<input type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	102245	1 year	12.20.2017
<input type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	07.18.2017
<input type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	INNCO Systems	CO2000	-	N/A	-
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-
-For measurement above 1 GHz					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4000-XP-ET	48709515	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	INNCO Systems	CO2000	-	N/A	-
<input checked="" type="checkbox"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.01.2017
<input type="checkbox"/> Power Amplifier	CERNEX	CBL18265035	21873	1 year	01.10.2018
<input type="checkbox"/> Power Amplifier	CERNEX	CBL26405040	19660	1 year	07.11.2017
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	04.25.2017
<input type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input type="checkbox"/> Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.28.2017
<input type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	06.30.2017
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



7. CONCLUSION

The data collected shows that the **EUT Type: Multi-band CDMA/LTE Phone with BT and WLAN, Model: LM-X210ULM, FCC ID: ZNFX210ULM** complies with §15.107 and §15.109 of the FCC rules.



8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A