

EMI TEST REPORT

FCC CERTIFICATION

Applicant:

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

1000 Sylvan Avenue, Englewood Cliffs NJ 07632

Date of Receipt: September 05, 2017

Date of Issue: September 21, 2017

Test Report No. HCT-E-1709-F013

FCC ID :

ZNFX210MA

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 GSM/WCDMA/LTE Phone with WLAN, Bluetooth

Model Name: LM-X210MA

Additional Model Name: LM-X210TAT, LMX210TAT, X210TAT, LMX210MA, X210MA,
LM-X210TA, LMX210TA, X210TA

Date of Test: September 06, 2017 – September 10, 2017

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	Date	Description
HCT-E-1709-F013	September 21, 2017	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	ZNFX210MA
Model	LM-X210MA
Additional Model	LM-X210TAT, LMX210TAT, X210TAT, LMX210MA, X210MA, LM-X210TA, LMX210TA, X210TA
EUT Type	Multi-band GSM/WCDMA/LTE Phone with WLAN, Bluetooth
TX Frequency	824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 826.40 MHz to 846.60 MHz (WCDMA B5) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 1712.4 MHz to 1752.6 MHz (WCDMA B4) 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) 1 710 MHz to 1 780 MHz (LTE B66) 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	869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 871.40 MHz to 891.60 MHz (WCDMA B5) 1 932.4 MHz to 1 987.6 MHz (WCDMA B2) 2 112.4 MHz to 2 152.6 MHz (WCDMA B4) 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) 2 110 MHz to 2 200 MHz (LTE B66) 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)



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.

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-X210MA	-	LG	ZNFX210MA
Data cable	EAD62377921	-	LEAGTECH	-
Data cable	EAD62377922		KSD	
Data cable	EAD62377927		NINGBO	
Data cable	EAD62377923		CRESYN	
Earphone	EAB64168751		I-Sound	
Notebook PC	ProBook6560b	5CB2053MXF	HP	DoC
Notebook PC adaptor	Series PPP009L-E	-	LITE-On Technology	-
RJ45 cable	-	-	-	-
Gateway	TL-WR747N	-	TP-LINK	-
Gateway adaptor	T120150-2H1	-	TP-LINK	-
Serial mouse	Serial 2 button mouse	02031069	Radio shack	FSUGMZE3
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,D)1.0
	Earphone	N/A	Y	(D)1.2
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	EUT 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)	5.20 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

- 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.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.
- 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.
- 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

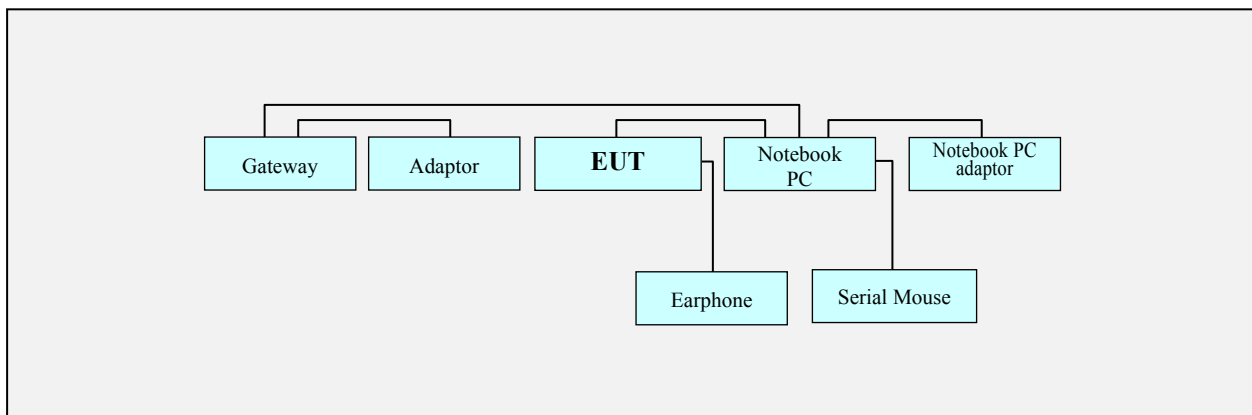


3.2.1 Frequency Range of Radiated Measurements

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, 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

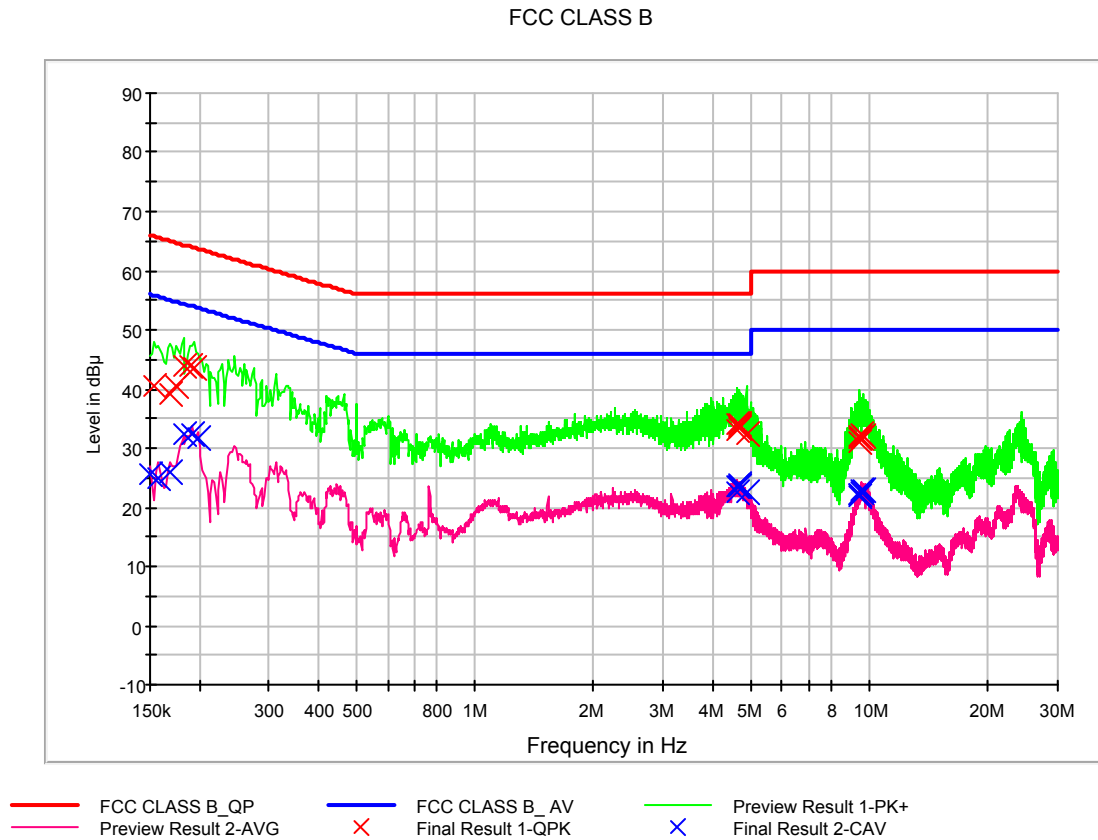
5.1 Conducted Emission Test

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 of USB Cable	LEAGTECH (EAD62377921)
Kind of Test Site	Shielded Room
Temperature	24.2 °C
Relative Humidity	56.9 %
Test Date	September 08, 2017

- 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)**



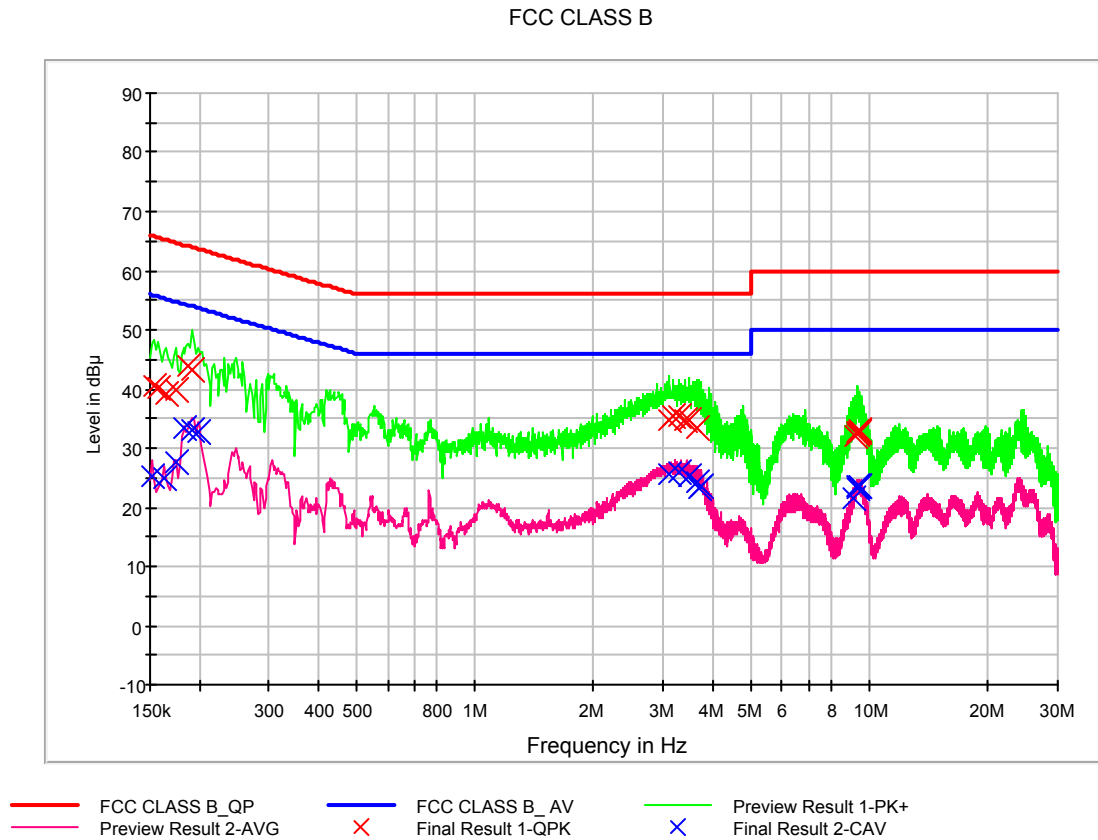
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	40.6	9.000	L1	9.6	25.2	65.8
0.168000	39.2	9.000	L1	9.6	25.8	65.1
0.174000	40.6	9.000	L1	9.6	24.2	64.8
0.182000	44.0	9.000	L1	9.6	20.4	64.4
0.190000	44.0	9.000	L1	9.6	20.0	64.0
0.194000	43.7	9.000	L1	9.6	20.2	63.9
4.598000	34.1	9.000	L1	9.9	21.9	56.0
4.616000	33.0	9.000	L1	9.9	23.0	56.0
4.648000	33.5	9.000	L1	9.9	22.5	56.0
4.656000	33.7	9.000	L1	9.9	22.3	56.0
4.664000	34.2	9.000	L1	9.9	21.8	56.0
4.868000	32.4	9.000	L1	9.9	23.6	56.0
9.404000	31.7	9.000	L1	10.1	28.3	60.0
9.414000	31.1	9.000	L1	10.1	28.9	60.0
9.444000	32.0	9.000	L1	10.1	28.0	60.0
9.492000	31.6	9.000	L1	10.1	28.4	60.0
9.534000	32.2	9.000	L1	10.1	27.8	60.0
9.612000	32.0	9.000	L1	10.1	28.0	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	25.6	9.000	L1	9.6	30.4	56.0
0.158000	25.0	9.000	L1	9.6	30.6	55.6
0.168000	25.9	9.000	L1	9.6	29.2	55.1
0.182000	32.2	9.000	L1	9.6	22.2	54.4
0.192000	32.3	9.000	L1	9.6	21.6	53.9
0.198000	31.8	9.000	L1	9.6	21.9	53.7
4.598000	23.7	9.000	L1	9.9	22.3	46.0
4.616000	22.6	9.000	L1	9.9	23.4	46.0
4.648000	23.8	9.000	L1	9.9	22.2	46.0
4.656000	23.7	9.000	L1	9.9	22.3	46.0
4.664000	23.5	9.000	L1	9.9	22.5	46.0
4.868000	22.5	9.000	L1	9.9	23.5	46.0
9.370000	22.0	9.000	L1	10.1	28.0	50.0
9.404000	22.1	9.000	L1	10.1	27.9	50.0
9.414000	22.0	9.000	L1	10.1	28.0	50.0
9.492000	22.6	9.000	L1	10.1	27.4	50.0
9.534000	22.8	9.000	L1	10.1	27.2	50.0
9.612000	22.7	9.000	L1	10.1	27.3	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)
0.154000	40.4	9.000	N	9.6	25.4	65.8
0.158000	40.1	9.000	N	9.6	25.5	65.6
0.164000	39.2	9.000	N	9.6	26.0	65.3
0.174000	39.7	9.000	N	9.6	25.0	64.8
0.188000	43.8	9.000	N	9.6	20.4	64.1
0.192000	43.4	9.000	N	9.6	20.6	63.9
3.096000	34.8	9.000	N	9.8	21.2	56.0
3.164000	35.6	9.000	N	9.8	20.4	56.0
3.304000	35.5	9.000	N	9.8	20.5	56.0
3.422000	34.7	9.000	N	9.8	21.3	56.0
3.502000	34.7	9.000	N	9.8	21.3	56.0
3.658000	33.4	9.000	N	9.8	22.6	56.0
9.216000	32.1	9.000	N	10.0	27.9	60.0
9.286000	32.6	9.000	N	10.1	27.4	60.0
9.290000	32.5	9.000	N	10.1	27.5	60.0
9.310000	32.6	9.000	N	10.1	27.4	60.0
9.434000	32.9	9.000	N	10.1	27.1	60.0
9.478000	32.7	9.000	N	10.1	27.3	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	25.2	9.000	N	9.6	30.6	55.9
0.162000	25.0	9.000	N	9.6	30.4	55.4
0.174000	27.6	9.000	N	9.6	27.1	54.8
0.184000	33.3	9.000	N	9.6	21.0	54.3
0.192000	33.1	9.000	N	9.6	20.8	53.9
0.198000	32.8	9.000	N	9.6	20.9	53.7
3.098000	25.6	9.000	N	9.8	20.4	46.0
3.304000	25.9	9.000	N	9.8	20.1	46.0
3.502000	25.3	9.000	N	9.8	20.7	46.0
3.658000	24.2	9.000	N	9.8	21.8	46.0
3.716000	23.3	9.000	N	9.8	22.7	46.0
3.728000	23.5	9.000	N	9.8	22.5	46.0
9.082000	21.5	9.000	N	10.0	28.5	50.0
9.274000	23.2	9.000	N	10.1	26.8	50.0
9.304000	23.4	9.000	N	10.1	26.6	50.0
9.314000	23.5	9.000	N	10.1	26.5	50.0
9.434000	23.7	9.000	N	10.1	26.3	50.0
9.478000	23.6	9.000	N	10.1	26.4	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 of USB Cable	LEAGTECH (EAD62377921)
Kind of Test Site	3 m semi anechoic chamber
Temperature	24.1 °C
Relative Humidity	58.3 %
Test Date	September 07, 2017

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
51.028800	34.3	100.0	V	180.0	23.3	5.7	40.0
60.229600	34.0	100.0	V	154.0	22.8	6.0	40.0
84.304000	28.2	350.0	H	277.0	18.2	11.8	40.0
124.996000	33.9	100.0	V	260.0	21.5	9.6	43.5
250.000800	36.9	150.0	H	209.0	22.3	9.1	46.0
265.581600	34.3	150.0	H	136.0	22.8	11.7	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	5 825 MHz
Upper Frequency	1 GHz to 29.125 GHz
Measurement Frequency Range	1 GHz to 30 GHz
Operation Mode	Data Communication mode
Worst Case of USB Cable	LEAGTECH (EAD62377921)
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.3 / 24.2 °C
Relative Humidity	57.2 / 56.5 %
Test Date	September 06 / September 10, 2017

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1400.050000	48.8	321.3	V	232.0	-12.9	25.2	74.0
1499.385000	45.9	399.8	V	0.0	-12.6	28.1	74.0
2009.040000	48.9	99.9	V	54.0	-11.8	25.1	74.0
2413.885000	37.3	400.0	V	0.0	-10.0	36.7	74.0
2666.575000	47.4	304.4	V	349.0	-9.4	26.6	74.0
4490.640000	42.4	173.4	V	0.0	-5.4	31.6	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1400.050000	47.5	321.3	V	232.0	-12.9	6.5	54.0
1499.385000	39.2	399.8	V	0.0	-12.6	14.8	54.0
2009.040000	21.9	99.9	V	54.0	-11.8	32.1	54.0
2413.885000	22.4	400.0	V	0.0	-10.0	31.6	54.0
2666.575000	23.5	304.4	V	349.0	-9.4	30.5	54.0
4490.640000	27.8	173.4	V	0.0	-5.4	26.2	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



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>					
☐ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.20.2017
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	06.27.2017
☒ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	12.23.2016
☐ LISN	Rohde & Schwarz	ENV216	100073	1 year	07.18.2017
☐ Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
☐ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	11.04.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
☒ Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☒ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒ Turn Table	EMCO	-	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	-	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	05.16.2017
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
☐ Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-
-For measurement above 1 GHz					
☐ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	11.04.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	08.16.2017
☒ Antenna master	INNCO Systems	MA4000-XP-ET	48709515	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
☒ Turn Table	EMCO	1060-2M	-	N/A	-
☒ Turn Table controller	INNCO	CO2000	-	N/A	-
☒ Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.01.2017
☒ Power Amplifier	CERNEX	CBL18265035	21873	1 year	01.19.2017
☒ Power Amplifier	CERNEX	CBL26405040	19660	1 year	07.11.2017
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
☒ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	04.25.2017
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.28.2017
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	06.30.2017
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	05.16.2017
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.16.2017
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



7. CONCLUSION

The data collected shows that the **EUT Type: Multi-band GSM/WCDMA/LTE Phone with WLAN, Bluetooth, Model: LM-X210MA, FCC ID: ZNFX210MA** complies with §15.107 and §15.109 of the FCC rules.