

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: February 14, 2018

Date of Issue: March 02, 2018

Test Report No. HCT-EM-1802-FC024-R1

FCC ID :

ZNFX210EM

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 : GSM/WCDMA Phone with Bluetooth4.2LE, WIFI802.11 b/g/n
Model Name : LM-X210EM
Additional Model Name : LMX210EM, X210EM, LM-X210EMW, LMX210EMW, X210EMW
Date of Test : February 19, 2018 – February 26, 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.

Report No.	Issue Date	Information About Changes
HCT-EM-1802-FC024	February 28, 2018	Initial Release
HCT-EM-1802-FC024-R1	March 02, 2018	Revision Text in Clause 1.3



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFX210EM
Model	LM-X210EM
Additional Model	LMX210EM, X210EM, LM-X210EMW, LMX210EMW, X210EMW
EUT Type	GSM/WCDMA Phone with Bluetooth4.2LE, WIFI802.11 b/g/n
TX Frequency	824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 826.40 MHz to 846.60 MHz (WCDMA B5) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	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) 871.40 MHz to 891.60 MHz (WCDMA B5) 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.

The Normalized site attenuations (30 MHz to 1GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in 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-X210EM	-	LG	ZNFX210EM
Data cable	EAD62377927	-	NINGBO	-
Earphone	EAB64468444	-	CRESYN	-
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 32GB SD Gard	-	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

- 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

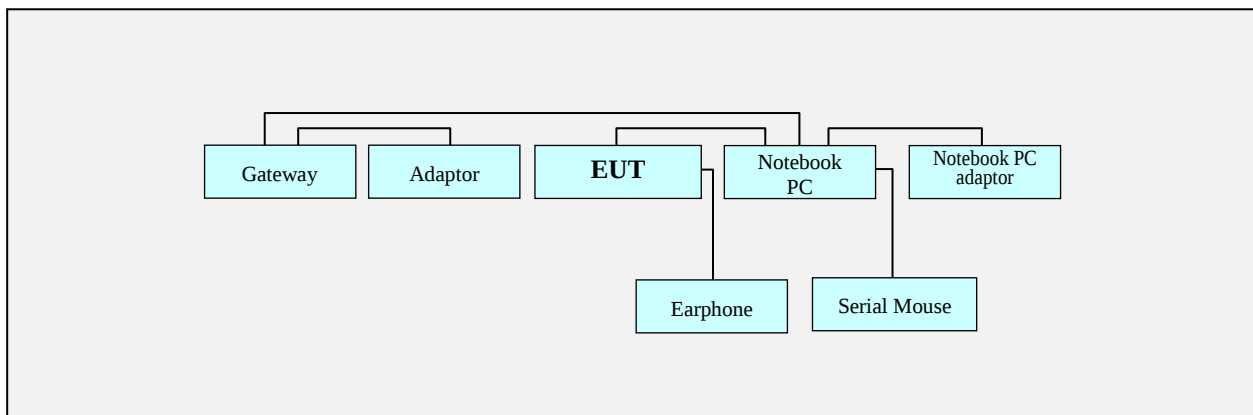


3.2.1 Frequency Range of Radiated Measurements

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, 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

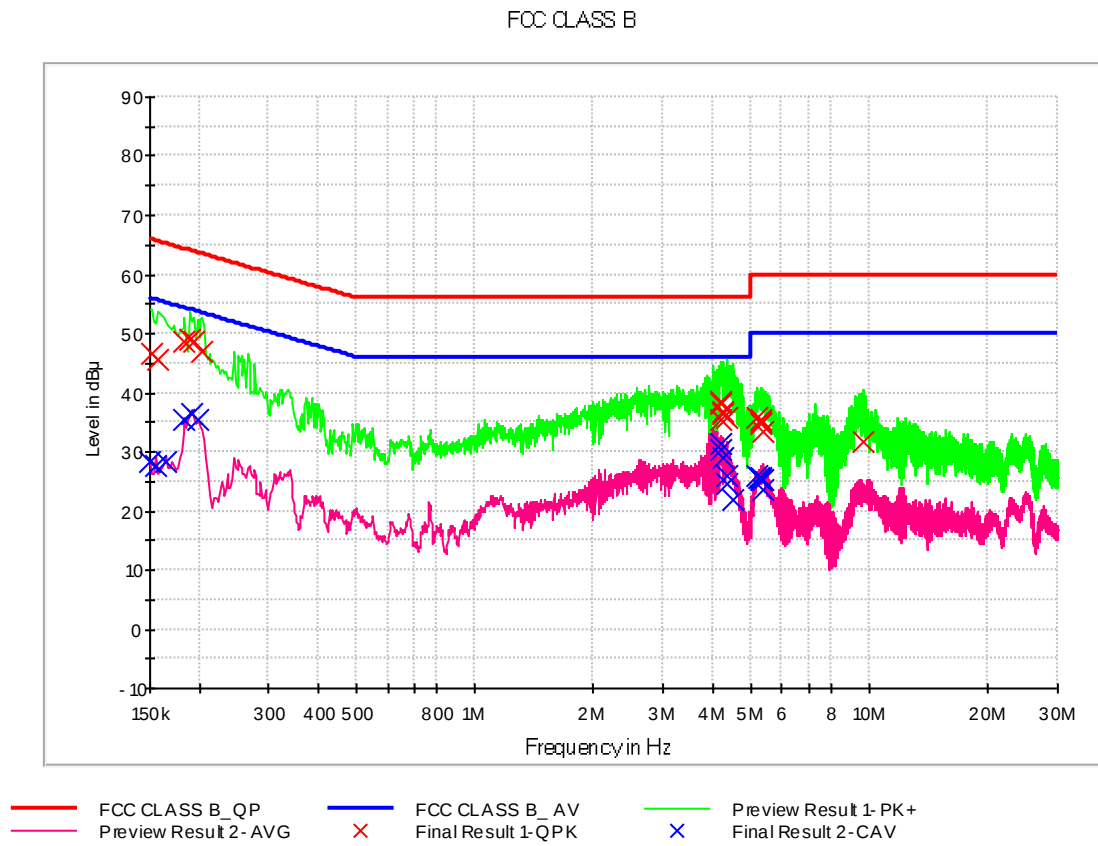
5.1 Conducted Emission Test

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
Kind of Test Site	Shielded Room
Temperature	21.3 °C
Relative Humidity	37.2 %
Test Date	February 19, 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)**



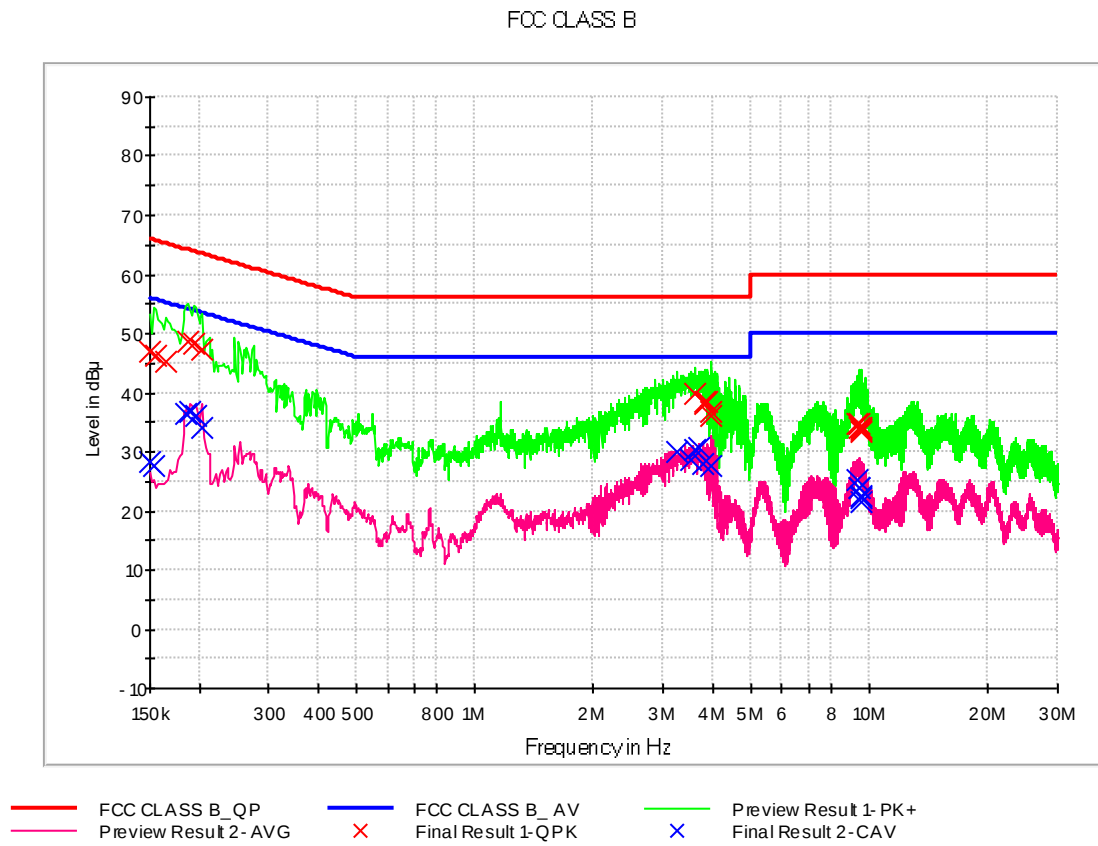
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	46.6	9.000	L1	9.6	19.3	65.9
0.158000	45.6	9.000	L1	9.6	19.9	65.6
0.184000	48.8	9.000	L1	9.6	15.5	64.3
0.190000	48.9	9.000	L1	9.6	15.2	64.0
0.194000	48.6	9.000	L1	9.6	15.2	63.9
0.204000	47.1	9.000	L1	9.6	16.4	63.4
4.200000	38.4	9.000	L1	9.8	17.6	56.0
4.204000	38.2	9.000	L1	9.8	17.8	56.0
4.226000	35.4	9.000	L1	9.8	20.6	56.0
4.266000	36.5	9.000	L1	9.8	19.5	56.0
4.272000	36.7	9.000	L1	9.8	19.3	56.0
4.362000	35.7	9.000	L1	9.8	20.3	56.0
5.166000	35.8	9.000	L1	9.8	24.2	60.0
5.286000	35.2	9.000	L1	9.8	24.8	60.0
5.294000	35.3	9.000	L1	9.8	24.7	60.0
5.334000	34.7	9.000	L1	9.8	25.3	60.0
5.380000	33.4	9.000	L1	9.8	26.6	60.0
9.596000	31.7	9.000	L1	10.0	28.3	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	28.3	9.000	L1	9.6	27.7	56.0
0.156000	27.8	9.000	L1	9.6	27.9	55.7
0.164000	28.2	9.000	L1	9.6	27.0	55.3
0.184000	35.5	9.000	L1	9.6	18.8	54.3
0.192000	36.5	9.000	L1	9.6	17.4	53.9
0.198000	35.4	9.000	L1	9.6	18.3	53.7
4.192000	31.2	9.000	L1	9.8	14.8	46.0
4.204000	30.2	9.000	L1	9.8	15.8	46.0
4.266000	29.1	9.000	L1	9.8	16.9	46.0
4.336000	26.1	9.000	L1	9.8	19.9	46.0
4.362000	24.7	9.000	L1	9.8	21.3	46.0
4.520000	22.0	9.000	L1	9.8	24.0	46.0
5.166000	26.0	9.000	L1	9.8	24.0	50.0
5.252000	25.6	9.000	L1	9.8	24.4	50.0
5.286000	25.8	9.000	L1	9.8	24.2	50.0
5.302000	25.3	9.000	L1	9.8	24.7	50.0
5.370000	25.1	9.000	L1	9.8	24.9	50.0
5.392000	23.5	9.000	L1	9.8	26.5	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)
0.150000	47.1	9.000	N	9.6	18.9	66.0
0.156000	46.3	9.000	N	9.6	19.4	65.7
0.164000	45.2	9.000	N	9.6	20.1	65.3
0.188000	48.5	9.000	N	9.6	15.6	64.1
0.194000	48.1	9.000	N	9.6	15.7	63.9
0.204000	47.4	9.000	N	9.6	16.0	63.4
3.608000	39.8	9.000	N	9.8	16.2	56.0
3.822000	38.4	9.000	N	9.8	17.6	56.0
3.828000	38.1	9.000	N	9.8	17.9	56.0
3.884000	38.5	9.000	N	9.8	17.5	56.0
3.952000	36.1	9.000	N	9.8	19.9	56.0
3.960000	36.7	9.000	N	9.8	19.3	56.0
9.340000	34.8	9.000	N	10.0	25.2	60.0
9.444000	34.8	9.000	N	10.0	25.2	60.0
9.462000	34.2	9.000	N	10.0	25.8	60.0
9.542000	34.1	9.000	N	10.0	25.9	60.0
9.566000	33.6	9.000	N	10.0	26.4	60.0
9.572000	33.7	9.000	N	10.0	26.3	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	28.4	9.000	N	9.6	27.6	56.0
0.154000	27.8	9.000	N	9.6	28.0	55.8
0.186000	36.5	9.000	N	9.6	17.7	54.2
0.190000	36.9	9.000	N	9.6	17.2	54.0
0.196000	36.0	9.000	N	9.6	17.8	53.8
0.204000	34.2	9.000	N	9.6	19.3	53.4
3.262000	29.9	9.000	N	9.8	16.1	46.0
3.536000	28.5	9.000	N	9.8	17.5	46.0
3.608000	30.3	9.000	N	9.8	15.7	46.0
3.702000	30.5	9.000	N	9.8	15.5	46.0
3.790000	27.9	9.000	N	9.8	18.1	46.0
3.960000	27.7	9.000	N	9.8	18.3	46.0
9.340000	25.2	9.000	N	10.0	24.8	50.0
9.444000	24.1	9.000	N	10.0	25.9	50.0
9.462000	23.9	9.000	N	10.0	26.1	50.0
9.542000	21.6	9.000	N	10.0	28.4	50.0
9.566000	22.7	9.000	N	10.0	27.3	50.0
9.572000	22.3	9.000	N	10.0	27.7	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
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.2 °C
Relative Humidity	33.5 %
Test Date	February 26, 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)
30.776000	27.5	100.0	V	202.0	18.8	12.5	40.0
133.200000	31.2	100.0	V	257.0	190.0	12.3	43.5
266.292000	32.2	100.0	H	289.0	19.4	13.8	46.0
599.980800	38.2	100.0	V	140.0	27.4	7.8	46.0
800.024800	40.1	100.0	H	42.0	30.2	5.9	46.0
999.993600	39.2	184.8	V	220.0	32.1	14.8	54.0

- 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
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.5 °C
Relative Humidity	33.2 %
Test Date	February 20, 2018

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1099.765000	44.3	262.6	V	25.0	-12.5	29.7	74.0
1400.075000	50.9	321.6	H	182.0	-11.4	23.1	74.0
1996.655000	51.6	113.5	V	51.0	-10.1	22.4	74.0
2654.695000	47.9	100.1	V	3.0	-7.4	26.1	74.0
4481.735000	46.7	100.0	V	0.0	-2.9	27.3	74.0
5994.235000	49.5	113.4	V	325.0	0.9	24.5	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1099.765000	28.9	262.6	V	25.0	-12.5	25.1	54.0
1400.075000	47.7	321.6	H	182.0	-11.4	6.3	54.0
1996.655000	27.3	113.5	V	51.0	-10.1	26.7	54.0
2654.695000	24.2	100.1	V	3.0	-7.4	29.8	54.0
4481.735000	29.9	100.0	V	0.0	-2.9	24.1	54.0
5994.235000	33.1	113.4	V	325.0	0.9	20.9	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	ENV216	102245	1 year	12.20.2017
☒ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
☐ 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	ESU40	100524	1 year	08.16.2017
☒ Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
☒ Antenna master	INNCO Systems	MA4000-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	-	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	-	N/A	-
☐ 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	ESU40	100524	1 year	08.16.2017
☒ Antenna master	INNCO Systems	MA4000-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	-	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	-	N/A	-
☒ Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.01.2017
☒ Horn Antenna	BBHA 9120D	Schwarzbeck	296	2 year	10.12.2016
☐ Power Amplifier	TK-PA1840H	TESTEK	170030-L	1 year	12.20.2017
☐ Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170#786	1 year	12.05.2017
☐ 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	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: GSM/WCDMA Phone with Bluetooth4.2LE, WIFI802.11 b/g/n, Model: LM-X210EM, FCC ID: ZNFX210EM** complies with §15.107 and §15.109 of the FCC rules.



8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A