

EMI TEST REPORT

FCC CERTIFICATION / ISED

Applicant:

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

Date of Receipt: March 29, 2018**Date of Issue:** April 20, 2018**Test Report No.** HCT-EM-1804-FI007**FCC ID**
IC**ZNFG710TM**
2703C-G710AWM

Rule Part(s) / Standard(s): FCC CFR 47 PART 15 Subpart B Class B
ICES-003 Issue 6 Class B / ANSI C63.4-2014
EUT Type: Multi-band GSM/EDGE/WCDMA/LTE phone with WLAN,
Bluetooth and RFID
Model Name: LM-G710TM
Additional Model Name: LM-G710AWM, LMG710AWM, G710AWM, LMG710TM,
G710TM, LM-G710RM, LMG710RM, G710RM
Date of Test: April 09, 2018 – April 19, 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

Wook Yi
Test Engineer
EMC Team
Certification Division

Reviewed By

Jin-Pyo Hong
Technical Manager
EMC Team
Certification Division

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REVISION HISTORY

The revision history for this document is shown in table.

Report No.	Issue Date	Description
HCT-EM-1804-FI007	April 20, 2018	Initial Release



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	ZNFG710TM
IC	2703C-G710AWM
Model	LM-G710TM
Additional Model	LM-G710AWM, LMG710AWM, G710AWM, LMG710TM, G710TM, LM-G710RM, LMG710RM, G710RM
EUT Type	Multi-band GSM/EDGE/WCDMA/LTE phone with WLAN, Bluetooth and RFID
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) 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) 2 496 MHz to 2 570 MHz (LTE B7) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 788 MHz to 798 MHz (LTE B14) 704 MHz to 716 MHz (LTE B17) 1 850 MHz to 1 915 MHz (LTE B25) 2 305 MHz to 2 315 MHz (LTE B30) 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 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) 13.56 MHz (RFID)
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) 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)



RX Frequency	869 MHz to 894 MHz (LTE B5) 2 516 MHz to 2 690 MHz (LTE B7) 729 MHz to 746 MHz (LTE B12) 746 MHz to 756 MHz (LTE B13) 758 MHz to 768 MHz (LTE B14) 734 MHz to 746 MHz (LTE B17) 1 925 MHz to 1 990 MHz (LTE B25) 717 MHz to 728 MHz (LTE B29) 2 350 MHz to 2 360 MHz (LTE B30) 2 496 MHz to 2 690 MHz (LTE B41) 5150 MHz to 5925 MHz (LTE B46) 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) 13.56 MHz (RFID)
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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 1 GHz) 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	
Filing the EMI Measurement Facility (3 m Semi Anechoic Chamber and Shielded Room)	IC 5944A-4
Filing the EMI Measurement Facility (10 m Semi-Anechoic Chamber)	IC 5944A-2

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 equipment, 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/IC
EUT	LM-G710TM	-	LG	ZNFG710TM 2703C-G710AWM
Data cable	EAD64746102	-	Luxshare	-
Earphone	EAB63728244 (4 M)	-	CRESYN	-
Earphone	EAB63728244 ^{*NOTE}	-	CRESYN	
Earphone	EAB63728245	-	BUJEON	
Notebook PC	ProBook6560b	5CB2053MXF	HP	DoC
Notebook PC adaptor	Series PPP009L-E	-	Lite-On Technology	-
Gateway	TL-WR747N	-	TP-LINK	-
Gateway adaptor	T120150-2H1	-	TP-LINK	-
Serial mouse	Serial 2 button mouse	02031069	Radio shack	FSUGMZE3
RJ45 cable	-	-	-	-
Micro SD card	256GB EVO+UHS-I MicroSDXC U1	-	SAMSUNG	-

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



1.6 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB Type C	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	USB Type C	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 ($k = 2$)
3 m Radiated Emissions (30 MHz to 1 GHz)	5.20 dB ($k = 2$)
10 m Radiated Emissions (30 MHz to 1 GHz)	5.01 dB ($k = 2$)
3 m Radiated Emissions (1 GHz to 18 GHz)	5.24 dB ($k = 2$)
3 m 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 (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

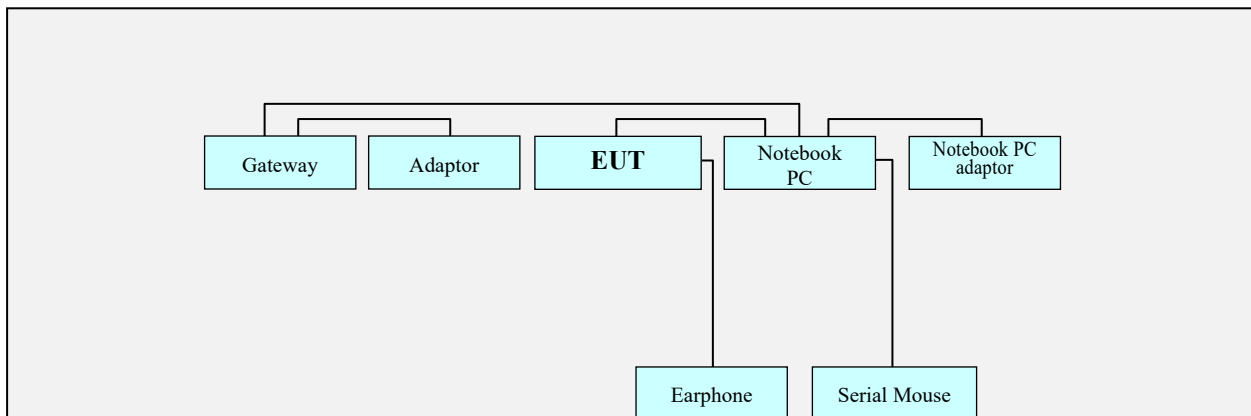


3.2.1 Frequency Range of Radiated Measurements

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	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:

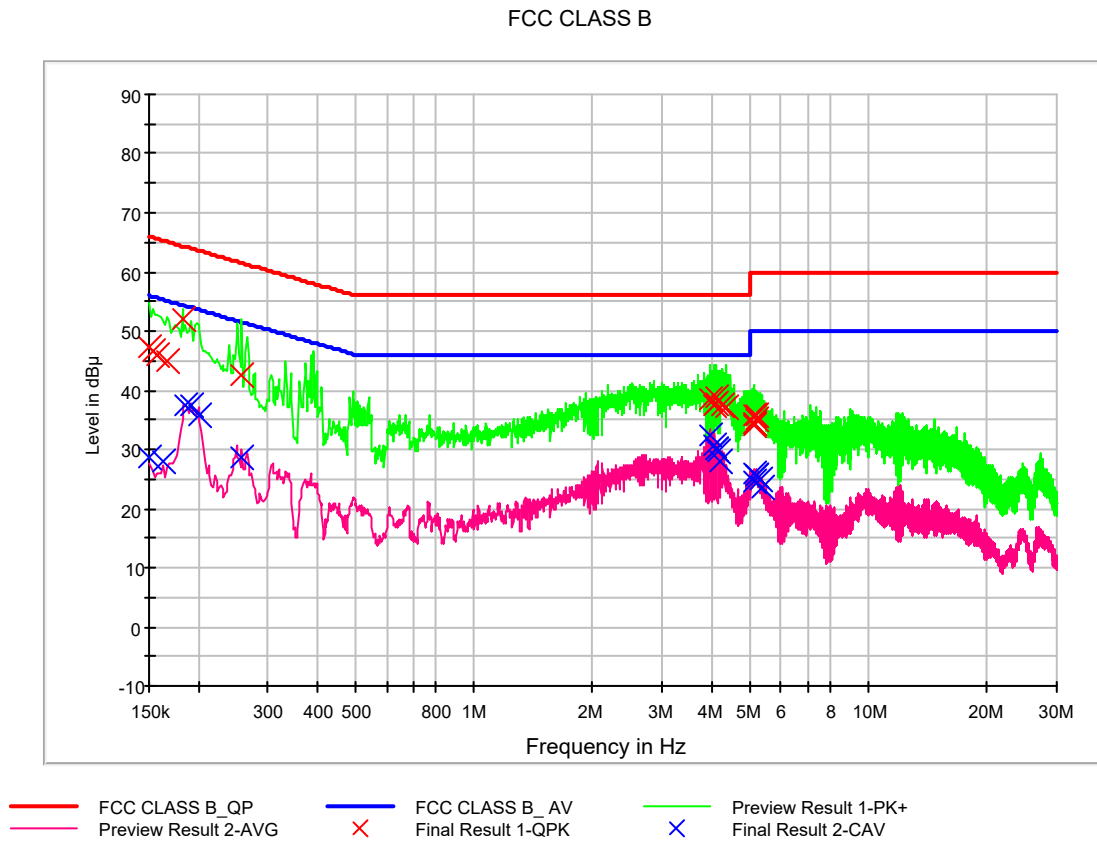
Rule Part / Standard	FCC PART 15 Subpart B Class B ICES-003 Issue 6 Class B / ANSI C63.4-2014
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
Worst Earphone	EAB63728244 (CRESYN)
Kind of Test Site	Shielded Room
Temperature	23.2 / 24.2 °C
Relative Humidity	40.4 / 37.1%
Test Date	April 10 / April 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)
0.150000	47.2	9.000	L1	9.6	18.8	66.0
0.154000	46.7	9.000	L1	9.6	19.0	65.8
0.158000	45.9	9.000	L1	9.6	19.6	65.6
0.166000	44.9	9.000	L1	9.6	20.2	65.2
0.182000	52.0	9.000	L1	9.6	12.4	64.4
0.258000	42.6	9.000	L1	9.6	18.9	61.5
3.964000	38.4	9.000	L1	9.8	17.6	56.0
4.054000	37.5	9.000	L1	9.8	18.5	56.0
4.096000	38.9	9.000	L1	9.8	17.1	56.0
4.102000	37.7	9.000	L1	9.8	18.3	56.0
4.238000	37.5	9.000	L1	9.8	18.5	56.0
4.372000	37.2	9.000	L1	9.8	18.8	56.0
5.134000	35.7	9.000	L1	9.8	24.3	60.0
5.144000	34.2	9.000	L1	9.8	25.8	60.0
5.148000	34.4	9.000	L1	9.8	25.6	60.0
5.156000	34.4	9.000	L1	9.8	25.6	60.0
5.194000	35.8	9.000	L1	9.8	24.2	60.0
5.202000	35.0	9.000	L1	9.8	25.0	60.0

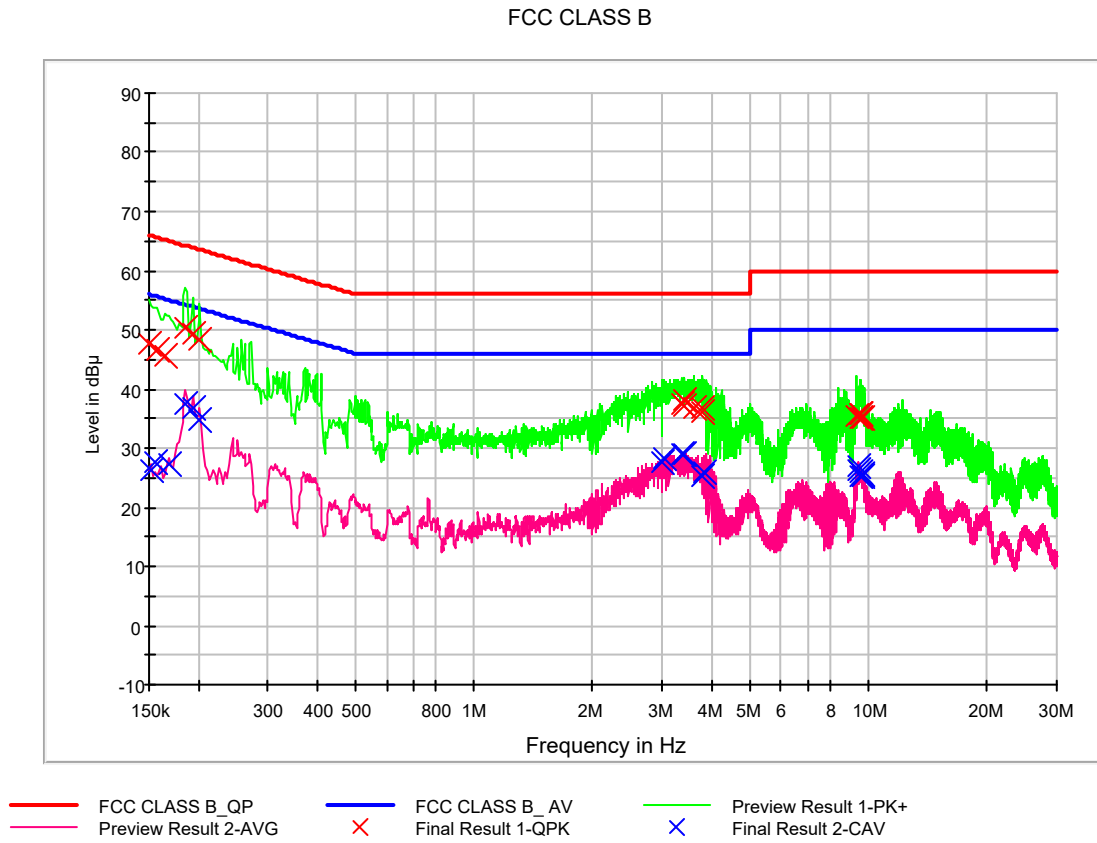


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	28.6	9.000	L1	9.6	27.4	56.0
0.162000	27.9	9.000	L1	9.6	27.5	55.4
0.186000	37.6	9.000	L1	9.6	16.6	54.2
0.192000	37.3	9.000	L1	9.6	16.6	53.9
0.200000	35.7	9.000	L1	9.6	17.9	53.6
0.258000	28.8	9.000	L1	9.6	22.7	51.5
3.962000	32.4	9.000	L1	9.8	13.6	46.0
4.052000	30.7	9.000	L1	9.8	15.3	46.0
4.094000	30.0	9.000	L1	9.8	16.0	46.0
4.116000	29.9	9.000	L1	9.8	16.1	46.0
4.162000	29.8	9.000	L1	9.8	16.2	46.0
4.218000	28.0	9.000	L1	9.8	18.0	46.0
5.132000	25.9	9.000	L1	9.8	24.1	50.0
5.144000	24.7	9.000	L1	9.8	25.3	50.0
5.172000	25.7	9.000	L1	9.8	24.3	50.0
5.216000	25.4	9.000	L1	9.8	24.6	50.0
5.306000	25.1	9.000	L1	9.8	24.9	50.0
5.362000	23.7	9.000	L1	9.8	26.3	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)
0.150000	47.7	9.000	N	9.6	18.3	66.0
0.158000	46.4	9.000	N	9.6	19.1	65.6
0.164000	45.5	9.000	N	9.6	19.7	65.3
0.186000	50.3	9.000	N	9.6	13.9	64.2
0.194000	49.4	9.000	N	9.6	14.5	63.9
0.202000	48.2	9.000	N	9.6	15.3	63.5
3.348000	37.5	9.000	N	9.8	18.5	56.0
3.408000	37.3	9.000	N	9.8	18.7	56.0
3.412000	38.3	9.000	N	9.8	17.7	56.0
3.614000	36.9	9.000	N	9.8	19.1	56.0
3.768000	36.0	9.000	N	9.8	20.0	56.0
3.800000	36.6	9.000	N	9.8	19.4	56.0
9.352000	35.6	9.000	N	10.0	24.4	60.0
9.480000	35.8	9.000	N	10.0	24.2	60.0
9.492000	34.9	9.000	N	10.0	25.1	60.0
9.540000	35.6	9.000	N	10.0	24.4	60.0
9.544000	35.7	9.000	N	10.0	24.3	60.0
9.608000	35.1	9.000	N	10.0	25.0	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	26.4	9.000	N	9.6	29.5	55.9
0.156000	27.6	9.000	N	9.6	28.1	55.7
0.168000	27.4	9.000	N	9.6	27.7	55.1
0.186000	37.3	9.000	N	9.6	16.9	54.2
0.194000	36.7	9.000	N	9.6	17.2	53.9
0.202000	34.6	9.000	N	9.6	19.0	53.5
3.002000	27.7	9.000	N	9.8	18.3	46.0
3.016000	28.2	9.000	N	9.8	17.8	46.0
3.348000	29.1	9.000	N	9.8	16.9	46.0
3.408000	29.1	9.000	N	9.8	16.9	46.0
3.800000	25.4	9.000	N	9.8	20.6	46.0
3.842000	26.0	9.000	N	9.8	20.0	46.0
9.384000	26.3	9.000	N	10.0	23.7	50.0
9.478000	27.1	9.000	N	10.0	22.9	50.0
9.492000	25.4	9.000	N	10.0	24.6	50.0
9.578000	25.8	9.000	N	10.0	24.2	50.0
9.608000	25.8	9.000	N	10.0	24.2	50.0
9.636000	25.4	9.000	N	10.0	24.6	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 ICES-003 Issue 6 Class B / ANSI C63.4-2014
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
Worst Earphone	EAB63728244 (CRESYN)
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.9 / 24.1 °C
Relative Humidity	42.1 / 38.6 %
Test Date	April 09 / April 16, 2018

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.669600	28.5	99.9	V	328.0	18.7	11.5	40.0
158.169600	29.6	174.7	H	351.0	20.1	13.9	43.5
265.577600	31.3	125.1	H	111.0	19.4	14.7	46.0
299.884800	27.7	99.7	H	244.0	20.5	18.3	46.0
604.512800	34.2	99.8	V	0.0	27.5	11.8	46.0
800.016000	38.3	99.9	H	55.0	30.2	7.7	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 ICES-003 Issue 6 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 Operating Frequency	5 925 MHz
Tested Frequency Range	1 GHz to 30 GHz
Operation Mode	Data Communication mode
Worst Earphone	EAB63728244 (CRESYN)
Kind of Test Site	3 m semi anechoic chamber
23.9 / 24.1 °C	23.2 / 24.1 / 24.3 °C
42.1 / 38.6 %	41.1 / 38.6 / 38.1 %
April 09 / April 16, 2018	April 10 / April 16 / April 17, 2018

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1400.000000	47.7	245.4	V	196.0	-28.6	26.3	74.0
1996.285000	51.2	99.7	V	54.0	-27.0	22.8	74.0
2665.955000	49.6	113.4	V	0.0	-23.9	24.4	74.0
5999.355000	47.8	113.6	V	323.0	-16.5	26.2	74.0
8022.975000	42.6	150.0	V	249.0	-12.0	31.4	74.0
9700.560000	42.5	138.6	V	266.0	-10.4	31.5	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1400.000000	46.5	245.4	V	196.0	-28.6	7.5	54.0
1996.285000	25.9	99.7	V	54.0	-27.0	28.1	54.0
2665.955000	22.8	113.4	V	0.0	-23.9	31.2	54.0
5999.355000	28.3	113.6	V	323.0	-16.5	25.7	54.0
8022.975000	29.4	150.0	V	249.0	-12.0	24.6	54.0
9700.560000	29.9	138.6	V	266.0	-10.4	24.1	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
<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	07.18.2017
☒ LISN	Rohde & Schwarz	ENV216	102245	1 year	12.20.2017
☒ 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	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	-	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	-
☒ Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
☒ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.20.2017
☒ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	2 year	12.05.2017
☐ Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	06.30.2017
☐ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	04.25.2017
☐ 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/EDGE/WCDMA/LTE phone with WLAN, Bluetooth and RFID, Model: LM-G710TM** complies with §15.107 and §15.109 of the FCC rules and ICES-003 Issue 6 of the IC rules.



8. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A