FCC Test Report

APPLICANT : Xiaomi Communications Co., Ltd.

EQUIPMENT : Mobile Phone

BRAND NAME : MI

MODEL NAME : M1803E6G

FCC ID : 2AFZZ-RMSE6G

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Feb. 08, 2018 and testing was completed on Mar. 08, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China

Sporton International (Kunshan) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC820819	Rev. 01	Initial issue of report	Apr. 04, 2018

Sporton International (Kunshan) Inc.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	6.08 dB at
					0.187 MHz
					Under limit
3.2	45 400	Dadiated Emission	45 400 limita	PASS	5.15 dB at
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	44.580 MHz for
					quasi-peak

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1. General Description

1.1. Applicant

Xiaomi Communications Co., Ltd.

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

Report No.: FC820819

1.2. Manufacturer

Xiaomi Communications Co., Ltd.

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

1.3. Product Feature of Equipment Under Test

Product Feature						
Equipment	Mobile Phone					
Brand Name	MI					
Model Name	M1803E6G					
FCC ID	2AFZZ-RMSE6G					
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/v4.2LE					
IMEI Code	Conduction: 868041030029339/868041030029347 for Sample 1 868041030040617/868041030040625 for Sample 2 Radiation: 868041030029834/868041030029842 for Sample 1 868041030040617 868041030040625 for Sample 2					
HW Version	P2					
SW Version	MIUI 9					
EUT Stage	Identical Prototype					

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two types of EUT sample 1 and sample 2, the differences between two samples are only for Flash, sample 1 is 3GB+32GB, sample 2 is 4GB+64GB. We chose the sample 1 to perform all tests and the sample 2 verified worst cases.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification							
GSM850: 824.2 MHz ~ 848.8 MHz							
	GSM1900: 1850.2 MHz ~ 1909.8MHz						
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz						
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz						
	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz						
Tx Frequency	LTE Band 5 : 824.7 MHz ~ 848.3 MHz						
	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz						
	LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz						
	802.11b/g/n: 2412 MHz ~ 2462 MHz						
	Bluetooth: 2402 MHz ~ 2480 MHz						
	GSM850: 869.2 MHz ~ 893.8 MHz						
	GSM1900: 1930.2 MHz ~ 1989.8 MHz						
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz						
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz						
	LTE Band 4: 2110.7 MHz ~ 2154.3 MHz						
Rx Frequency	LTE Band 5: 869.7 MHz ~ 893.3 MHz						
TX Frequency	LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz						
	LTE Band 38: 2572.5 MHz ~ 2617.5 MHz						
	802.11b/g/n: 2412 MHz ~ 2462 MHz						
	Bluetooth: 2402 MHz ~ 2480 MHz						
	GNSS: 1559 MHz ~ 1610 MHz						
	FM : 88 MHz ~ 108 MHz						
	WWAN : LDS Antenna						
Antonno Timo	WLAN: LDS Antenna						
Antenna Type	Bluetooth : LDS Antenna						
	GNSS: LDS Antenna FM: External headset Antenna						
	GSM: GMSK						
	GPRS: GMSK						
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK						
	WCDMA: BPSK (Uplink)						
	· · · · · · · · · · · · · · · · · · ·						
	HSDPA/DC-HSDPA : QPSK (Uplink)						
	HSUPA: QPSK (Uplink)						
	HSPA+: 16QAM (Uplink)						
Type of Modulation	DC-HSDPA: 64QAM						
	LTE: QPSK / 16QAM / 64QAM						
	802.11b : DSSS (DBPSK / DQPSK / CCK)						
	Bluetooth LE : GFSK						
	Bluetooth (1Mbps): GFSK						
	Bluetooth (2Mbps): # /4-DQPSK						
	Bluetooth (3Mbps): 8-DPSK GNSS: BPSK						
	FM: FM						
CNCC Dy - CDC + CL ONACC + DDC	-						

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GNSS Rx = GPS + GLONASS + BDS + SBAS

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

Test Site	Sporton International (Kunshan) Inc.						
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Province 215335 China TEL: +86-512-57900158 FAX: +86-512-57900958						
Test Site No.	Sportor	n Site No.	FCC Test Firm Registration No.				
	CO01-KS	03CH02-KS	630927				

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Charging from Adapter1) + Camera (Rear) for Sample 1 <fig.1></fig.1>
	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Charging from Adapter1) + Camera (Front) for Sample 1 <fig.1></fig.1>
	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Charging from Adapter1) + MPEG4 for Sample 1 <fig.1></fig.1>
AC Conducted	Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Data Link with Notebook) + GNSS Rx for Sample 1 <fig.2></fig.2>
Emission	Mode 5: LTE Band 4 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Data Link with Notebook) + GNSS Rx for Sample 1 <fig.2></fig.2>
	Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging from Adapter1) + Earphone + FM RX for Sample 1 <fig.3></fig.3>
	Mode 7: LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging from Adapter2) + Earphone + FM RX for Sample 1 <fig.3></fig.3>
	Mode 8: LTE Band 4 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Data Link with Notebook) + GNSS Rx for Sample 2 <fig.2></fig.2>

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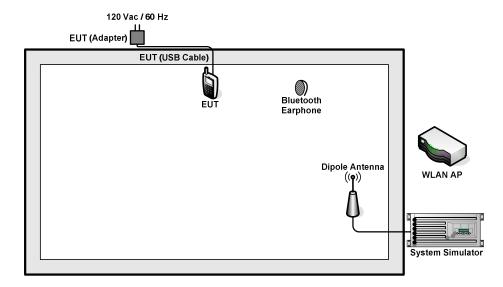
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Charging from Adapter1) + Camera (Rear) for Sample 1 <fig.1></fig.1>
	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Charging from Adapter1) + Camera (Front) for Sample 1 <fig.1></fig.1>
	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Charging from Adapter1) + MPEG4 for Sample 1 <fig.1></fig.1>
Radiated	Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Data Link with Notebook) + GNSS Rx for Sample 1 <fig.2></fig.2>
Emissions <	Mode 5: LTE Band 4 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Data Link with Notebook) + GNSS Rx for Sample 1 <fig.2></fig.2>
	Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging from Adapter1) + Earphone + FM RX(98MHz) for Sample 1 <fig.3></fig.3>
	Mode 7: LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging from Adapter2) + Earphone + FM RX(98MHz) for Sample 1 <fig.3></fig.3>
	Mode 8: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Data Link with Notebook) + GNSS Rx for Sample 2 <fig.2></fig.2>
Radiated Emissions ≥	Mode 1: LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging from Adapter1) + Earphone + FM RX(98MHz) for Sample 1 <fig.3></fig.3>
1GHz	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1(Data Link with Notebook) + GNSS Rx for Sample 1 <fig.2></fig.2>

Remark:

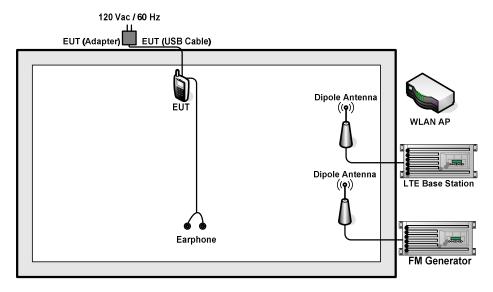
- The worst case of AC is mode 7; and the USB data link mode is mode 5, the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 6; and the USB data link mode is mode 4, the test data of these modes are reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



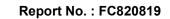
<Fig.1>

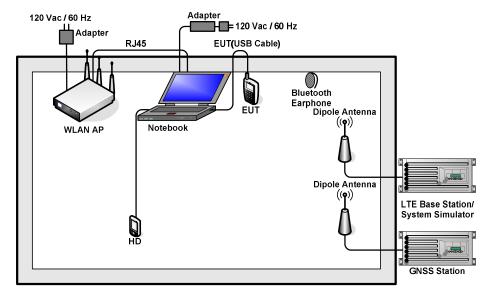


<Fig.2>

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<Fig.3>

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2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	FM Station	R&S	SMBV100A	258305	N/A	Unshielded, 1.8 m
4.	GNSS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
5.	GNSS Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
6.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
7.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded, 1.8 m
8.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
10.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
11.	iPod	Apple	A1199	Fcc DoC	Shielded, 1.2m	iPod
12.	SD Card	Kingston	8GB	N/A	N/A	N/A
13.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.0 m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Notebook and EUT via USB cable.
- 2. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
- 3. Turn on FM function to make the EUT receive continuous signals from FM Generator.
- 4. Execute "Video Player" to play MPEG4 files.
- 5. Turn on camera to capture images.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 5				Temp	erature	:	21~2	3°(2		
Test Engineer :	Amos Zhang			Relati	ve Hur	nidity :	42~4	42~44%				
Test Voltage :	120Vac / 60Hz			Phase	:		Line					
Function Type :	LTE Bar	nd 4 Id	dle + B	luetoot	h Idle	+ WLA	N (2.40	3) Idle	+ (JSB Cable	2(Dat	a Link
Tunouon Type :	with Not	ebook) + GN	SS Rx	for Sa	mple 1						
80 Level (dBuV)												
70.0												
60.0										FCC C	LASS-B	
_										FCC CLASS	R/AVG)	
50.0										TCC CLASS	-D(AVG)	
40.0									_			
								االم				
30.0		MW h	ادا	u ws f	M JAMESHAVILLANDER	Mottelu	North A. A	المعر المعا	V a	waa aa Jala	,	
20.0	W- 7	וין יי	₩/\/	MAN, A	M	i inquit	<u>"</u> "\		War.	, r ^{MMM} waxahima	Way Hall	
10.0			1 W									
10.0												
0.15	.2	.5	j	1		2	5		1	10 2	0 3	0
Site	:	CO01-K	S		Freque	ency (MHz))					
Condition				-L-171013	3-060103	LINE						
mode		Mode 5 8680410	03002933	9/868041	03002934	1 7 #7						
	Freq l	Level		Limit Line	Read	LISN Factor		Remark				
										_		
	MHz	dBuV	dB	dBuV	dBuV	dB	dB					
1	0.154						10.60					
2 3				55.78			10.60		2			
4				65.30 55.30			10.57 10.57	۷۲ Average	2			
5				64.94				_	-			
6			-32.91		11.30		10.55		2			ļ
7				64.28			10.50					ļ
8				54.28		0.19	10.50	Average	2			ļ
9				56.89			10.36					
10 *				46.89			10.36		2			
11 12	0.474 3 0.474			56.45 46.45			10.33 10.33					
12	0.4/4 .	52.05	15.70	40.43	22.10	0.20	10.55	-vel age				

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21~23°C Test Mode: Mode 5 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 42~44% Test Voltage: 120Vac / 60Hz Phase: Neutral LTE Band 4 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Data Link Function Type: with Notebook) + GNSS Rx for Sample 1 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 30.0 20.0 10.0 .15 .5 5 10 20 30 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-N-171013-060103 NEUTRAL mode : Mode 5 :868041030029339/868041030029347 #7 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dΒ dBuV dBuV dB dB 0.152 42.39 -23.52 65.91 31.50 0.28 10.61 QP 1 30.49 -25.42 55.91 0.152 19.60 0.28 10.61 Average 0.158 37.47 -28.09 65.56 26.60 0.28 10.59 QP 0.158 21.47 -34.09 55.56 10.60 0.28 10.59 Average 5 0.177 34.41 -30.23 64.64 23.60 0.28 10.53 QP 0.177 22.01 -32.63 54.64 11.20 0.28 10.53 Average 7 0.193 32.35 -31.54 63.89 21.60 0.28 10.47 QP 0.28 10.47 Average 0.193 20.05 -33.84 53.89 9.30 9 0.211 30.93 -32.25 63.18 20.20 0.28 10.45 QP 0.28

10

11

12 *

0.211

0.471

0.471

22.03 -31.15 53.18 11.30

32.12 -14.37 46.49

56.49

24.20

21.50

0.29

0.29

34.82 -21.67

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10.45 Average

10.33 Average

10.33 QP



21~23°C Test Mode: Mode 7 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 42~44% 120Vac / 60Hz Phase: Test Voltage: Line LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging Function Type: from Adapter2) + Earphone + FM RX for Sample 1 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 50.0 40.0 30.0 20.0 10.0 30 20 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-L-171013-060103 LINE mode : Mode 7 :868041030029339/868041030029347 #7 LISN Cable Over Limit Read Level Limit Line Level Factor Freq Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.156 56.96 -8.69 65.65 46.20 0.17 10.59 QP 1 2 0.156 38.06 -17.59 55.65 27.30 0.17 10.59 Average 3 55.03 -10.13 44.30 0.17 10.56 QP 0.166 65.16 55.16 26.90 0.166 37.63 -17.53 0.17 10.56 Average 5 56.18 -7.97 0.187 64.15 45.50 0.19 10.49 OP 10.49 Average 6 0.187 37.58 -16.57 54.15 26.90 0.19 7 0.212 49.26 -13.88 63.14 38.61 0.20 10.45 QP 0.212 31.26 -21.88 53.14 20.61 0.20 10.45 Average 8 9 0.220 48.86 -13.97 62.83 38.20 0.21 10.45 QP 10 0.21 10.45 Average 0.220 30.26 -22.57 52.83 19.60 11 0.260 47.25 -14.17 61.42 36.59 0.22 10.44 QP 12 0.260 29.25 -22.17 51.42 18.59 0.22 10.44 Average 13 0.323 46.85 -12.77 59.62 36.20 0.23 10.42 OP 0.323 30.15 -19.47 49.62 19.50 0.23 10.42 Average 10.41 QP 15 0.387 44.15 -13.97 58.12 33.50 0.24 16 0.387 28.85 -19.27 48.12 18.20 0.24 10.41 Average 10.37 QP 17 0.435 41.22 -15.93 57.15 30.60 0.25

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21~23°C Test Mode: Mode 7 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 42~44% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 7 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging Function Type: from Adapter2) + Earphone + FM RX for Sample 1 70.0 FCC CLASS-B 60.0 50.0 40.0 30.0 20.0 10.0 20 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-L-171013-060103 LINE Project : (FC) 820819 mode : Mode 7 :868041030029339/868041030029347 #7 LISN Over Limit Read Cable Freq Level Limit Line Level Factor Loss Remark dBuV dBuV MHz dB dBuV dB dB 18 0.435 27.22 -19.93 47.15 16.60 0.25 10.37 Average 19 0.585 41.10 -14.90 56.00 30.60 0.26 10.24 QP 20 0.585 28.70 -17.30 46.00 18.20 0.26 10.24 Average 21 16.661 43.27 -16.73 60.00 32.60 0.23 10.44 QP 30.87 -19.13 22 16.661 50.00 20.20 0.23 10.44 Average 23 18.039 46.27 -13.73 60.00 35.60 0.21 10.46 OP 24 18.039 33.27 -16.73 50.00 22.60 0.21 10.46 Average 25 19.224 46.86 -13.14 60.00 0.19 10.47 QP 36.20 26 34.26 -15.74 50.00 23.60 0.19 10.47 Average 19.224 45.77 -14.23 10.48 QP 27 20.162 60.00 35.10 0.19 20.162 33.97 -16.03 50.00 23.30 0.19 10.48 Average

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Test Mode :	Mode 7	Temperature :	21~23℃				
Test Engineer :	Amos Zhang	Relative Humidity :	42~44%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Function Type :		tooth Idle + WLAN (2.4G ne + FM RX for Sample 1	oth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging + FM RX for Sample 1				
70.0	I (dBuV)		FCC CLASS-B				
50.0 40.0	8 10 114 16 201	WWW.	FCC CLASS-B(AVG)				
20.0		ika da Anfara a chanka 1 a a					
0.15 Site Condition	: CO01-KS	2 5 Frequency (MHz)	10 20 30				
mode			emark				
1 2 3 * 4 5	0.162 58.95 -6.39 65 0.162 41.45 -13.89 55 0.187 58.07 -6.08 64 0.187 40.37 -13.78 54 0.200 54.64 -8.98 63	34 30.60 0.28 10.57 A 15 47.30 0.28 10.49 Q 15 29.60 0.28 10.49 A 62 43.90 0.28 10.46 Q	verage P verage P				
6 7 8 9 10 11	0.200 37.34 -16.28 53 0.221 51.03 -11.76 62 0.221 32.63 -20.16 52 0.259 49.92 -11.55 61 0.259 32.02 -19.45 51 0.272 45.92 -15.15 61	79 40.30 0.28 10.45 Q 79 21.90 0.28 10.45 A 47 39.20 0.28 10.44 Q 47 21.30 0.28 10.44 A 07 35.21 0.28 10.43 Q	P verage P verage P				
12 13 14 15 16 17	0.272 28.92 -22.15 51 0.329 46.31 -13.18 59 0.329 31.91 -17.58 49 0.385 44.80 -13.37 58 0.385 30.00 -18.17 48 0.444 40.25 -16.73 56	49 35.60 0.29 10.42 Q 49 21.20 0.29 10.42 A 17 34.10 0.29 10.41 Q 17 19.30 0.29 10.41 A	p verage p verage				
18 19 20	0.444 26.95 -20.03 46 0.579 39.84 -16.16 56 0.579 30.14 -15.86 46	98 16.30 0.29 10.36 A 00 29.31 0.29 10.24 Q	verage P				

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

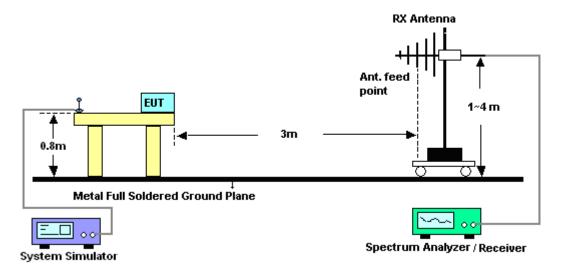
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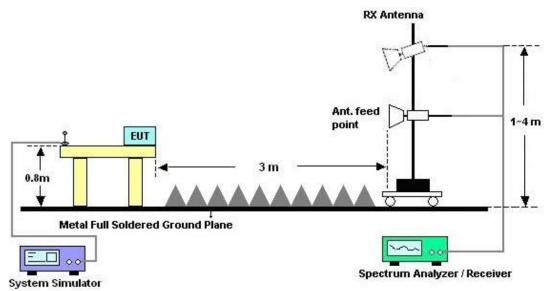
Report No.: FC820819

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

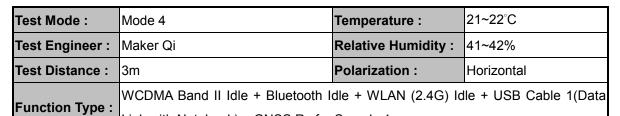


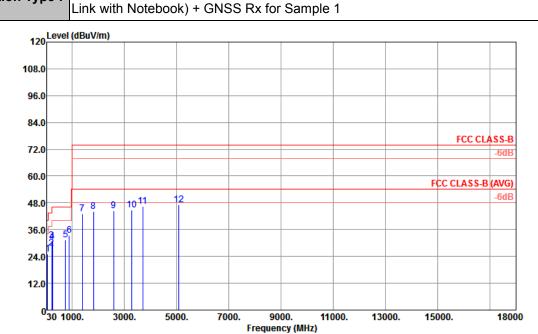
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission





Site : 03CH02-KS

Condition : FCC CLASS-B 3m LF 47610 HORIZONTAL

Mode : 4

IMEI : 868041030029834 868041030029842 #12

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	72.66	25.13	-14.87	40.00	43.80	12.52	0.86	32.05			Peak
2	217.92	27.79	-18.21	46.00	42.65	15.22	1.55	31.63			Peak
3	229.80	31.06	-14.94	46.00	44.73	16.30	1.63	31.60			Peak
4	254.10	30.60	-15.40	46.00	41.40	18.96	1.76	31.52			Peak
5	745.90	31.54	-14.46	46.00	31.76	25.65	2.81	28.68			Peak
6	897.80	33.52	-12.48	46.00	31.37	26.59	3.09	27.53	100	0	Peak
7	1388.00	43.13	-30.87	74.00	45.42	28.67	3.88	34.84			Peak
8	1822.00	44.15	-29.85	74.00	44.24	29.37	4.46	33.92			Peak
9	2590.00	44.37	-29.63	74.00	38.01	31.65	5.34	30.63			Peak
10	3273.00	44.87	-29.13	74.00	35.20	33.21	6.24	29.78			Peak
11	3708.00	46.54	-27.46	74.00	35.55	34.37	6.55	29.93			Peak
12	5088.00	46.98	-27.02	74.00	37.85	35.45	7.81	34.13			Peak

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Report No.: FC820819

Test Mode :	Mod	Mode 4						Temperature :			21~22°C	
Test Engineer :	Mak	Maker Qi					Rel	Relative Humidity :			41~42%	
Test Distance :	3m						Pol	arizati	on :		Vertical	
Function Type	:	OMA B with N							(2.4G	6) Idle	+ USB (Cable 1(Da
120 <u>Le</u>	el (dBuV	/m)										
108.0												
96.0												
84.0												
72.0											FCC (-6dB
60.0											FCC CLASS	
48.0	7 9 8	14)	12								-6dB
36.0	56											
24.0												
12.0												
030	1000.	3000.	5	000.	7000.	900 Frequence		11000.	1300	0.	15000.	18000
Site Conditi Project IMEI	on :	03CH02- FCC CLA (FC)820	NSS-B 3n	n LF 476	510 VERT	ICAL						
	:	8680410	3002983	34 86804	1030029	842 #12						
		8680410	0ver	Limit		intenna	Cable	Preamp Factor	A/Pos	T/Pos	Remark	
_	Freq		Over Limit	Limit	ReadA	intenna	Cable	Factor	A/Pos	T/Pos deg	Remark	-
1 2	Freq MHz 30.00 71.58	Level dBuV/m 23.53 22.64	Over Limit dB -16.47 -17.36	Limit Line dBuV/m 40.00	ReadA Level dBuV 29.99 41.37	dB/m 25.00 12.45	Cable Loss dB 0.57	4B 32.03 32.04		deg	Remark	-
2 3	Freq MHz 30.00 71.58 153.12	Level dBuV/m 23.53 22.64 24.29	Over Limit dB -16.47 -17.36 -19.21	Limit Line dBuV/m 40.00 40.00 43.50	ReadA Level dBuV 29.99 41.37 38.47	dB/m 25.00 12.45 16.38	Cable Loss dB 0.57 0.86 1.27	32.03 32.04 31.83	 	deg	Peak Peak Peak	-
2	Freq MHz 30.00 71.58 153.12 255.18	Level dBuV/m 23.53 22.64	Over Limit dB -16.47 -17.36 -19.21 -23.23	Limit Line dBuV/m 40.00 40.00 43.50 46.00	ReadA Level dBuV 29.99 41.37 38.47	dB/m 25.00 12.45 16.38 19.10	Cable Loss dB 0.57 0.86 1.27 1.77	4B 32.03 32.04	cm	deg	Remark Peak Peak	-
2 3 4 5 6	Freq MHz 30.00 71.58 153.12 255.18 712.30 932.10	Level 23.53 22.64 24.29 22.77 29.99 30.45	Over Limit dB -16.47 -17.36 -19.21 -23.23 -16.01 -15.55	Limit Line dBuV/m 40.00 40.00 43.50 46.00 46.00	ReadA Level dBuV 29.99 41.37 38.47 33.41 30.89 27.77	dB/m 25.00 12.45 16.38 19.10 25.16 26.79	Cable Loss dB 0.57 0.86 1.27 1.77 2.77 3.16	Factor dB 32.03 32.04 31.83 31.51 28.83 27.27	 100	deg	Peak Peak Peak Peak Peak Peak Peak Peak	-
2 3 4 5 6 7	Freq MHz 30.00 71.58 153.12 255.18 712.30	Level 23.53 22.64 24.29 22.77 29.99 30.45 44.31	Over Limit dB -16.47 -17.36 -19.21 -23.23 -16.01 -15.55 -29.69	Limit Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00	ReadA Level dBuV 29.99 41.37 38.47 33.41 30.89	dB/m 25.00 12.45 16.38 19.10 25.16 26.79 28.63	Cable Loss dB 0.57 0.86 1.27 1.77 2.77 3.16 3.85	32.03 32.04 31.83 31.51 28.83	 	deg	Peak Peak Peak Peak Peak Peak Peak	-

29.96

29.86

6.25

6.32

33.26

33.46

35.42

34.25

10

11 12

3309.00 45.63 -28.37 74.00 36.08

5112.00 46.63 -27.37 74.00 37.60

3447.00 44.17 -29.83 74.00

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--- Peak

--- Peak

--- Peak

Report No.: FC820819

Test Mode :	Mode 6			Temperature :	21~22°C		
Test Engineer :	Maker Qi			Relative Humidity	y : 41~42%	41~42%	
Test Distance :	3m			Polarization :	Horizontal		
	LTE Band 7	Idle + Blue	tooth Idle +	WLAN (2.4G) Idle	+ USB Cable 2(C	harg	
Function Type :	from Adapte	r1) + Earpho	ne + FM RX	(98MHz) for Sampl	e 1		
Remark :	#3 is system	ı simulator (F	M Option) si	gnal which can be	ignored.		
120 Leve	el (dBuV/m)						
108.0							
96.0						-	
84.0					500 01 400 5		
72.0					FCC CLASS-E	_	
60.0					FCC CLASS-B (AVG)	
48.0	8 9 10 11 12	13			-6dE	_	
36.0	57					-	
24.0						-	
12.0							
030 1	000. 3000.	5000.	7000. 9000. Frequency		15000. 180	000	

Condition : FCC CLASS-B 3m LF 47610 HORIZONTAL

Mode

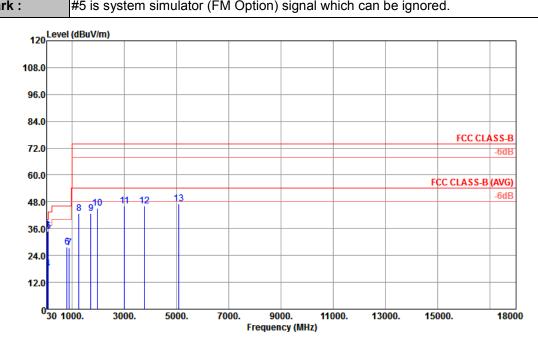
IMEI : 868041030029834 868041030029842 #12

	Freq	Level	Limit	Line	Level	Factor		Preamp Factor	A/Pos	T/Pos	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.16	26.15	-13.85	40.00	33.70	23.88	0.60	32.03	100	0	Peak
2	45.12	25.96	-14.04	40.00	41.46	15.95	0.66	32.11			Peak
3	98.04	35.75			50.29	16.42	1.00	31.96			Peak
4	207.93	19.01	-24.49	43.50	33.84	15.33	1.49	31.65			Peak
5	259.50	22.73	-23.27	46.00	32.62	19.80	1.78	31.47			Peak
6	743.10	26.62	-19.38	46.00	26.90	25.60	2.81	28.69			Peak
7	907.60	28.57	-17.43	46.00	26.26	26.65	3.11	27.45			Peak
8	1298.00	43.74	-30.26	74.00	46.49	28.50	3.75	35.00			Peak
9	1640.00	43.25	-30.75	74.00	44.59	29.05	4.26	34.65			Peak
10	2140.00	43.74	-30.26	74.00	40.42	30.77	4.86	32.31			Peak
11	3012.00	46.13	-27.87	74.00	37.46	32.60	5.98	29.91			Peak
12	3576.00	45.28	-28.72	74.00	34.80	33.67	6.43	29.62			Peak
13	5196.00	46.17	-27.83	74.00	37.55	35.35	7.74	34.47			Peak

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Test Mode :	Mode 6	Temperature :	21~22°C			
Test Engineer :	Maker Qi	Relative Humidity :	41~42%			
Test Distance :	3m	Polarization :	Vertical			
Eurotion Type	LTE Band 7 Idle + Bluetooth Idle +	dle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2(Charging				
Function Type :	from Adapter1) + Earphone + FM RX(98MHz) for Sample 1					
Domark :	#5 is system simulator (EM Option) si	anal which can be igne	arad			



Site Condition : 03CH02-KS

: FCC CLASS-B 3m LF 47610 VERTICAL

Mode

: 868041030029834 868041030029842 #12 IMEI

	Freq	Level	Limit	Line	Level	Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	33.24	35.49	-4.51	40.00	43.60	23.32	0.61	32.04			Peak
2!	40.53	35.42	-4.58	40.00	48.21	18.62	0.64	32.05			Peak
3!	44.58	34.85	-5.15	40.00	50.00	16.30	0.66	32.11	100	0	QP
4	66.45	18.14	-21.86	40.00	37.02	12.33	0.85	32.06			Peak
5	98.04	34.68			49.22	16.42	1.00	31.96			Peak
6	811.70	27.70	-18.30	46.00	27.20	25.99	2.74	28.23			Peak
7	890.10	27.25	-18.75	46.00	25.21	26.54	3.09	27.59			Peak
8	1268.00	42.70	-31.30	74.00	45.61	28.43	3.72	35.06			Peak
9	1720.00	42.76	-31.24	74.00	43.63	29.17	4.35	34.39			Peak
10	1974.00	45.01	-28.99	74.00	43.77	30.07	4.61	33.44			Peak
11	3012.00	46.20	-27.80	74.00	37.53	32.60	5.98	29.91			Peak
12	3777.00	46.10	-27.90	74.00	34.87	34.73	6.61	30.11			Peak
13	5079.00	47.15	-26.85	74.00	38.02	35.45	7.81	34.13			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2017	Mar. 07, 2018	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Mar. 07, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Mar. 07, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Mar. 07, 2018	Oct. 11, 2018	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 08, 2017	Mar. 08, 2018	Aug. 07, 2018	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 18, 2017	Mar. 08, 2018	Apr. 17, 2018	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Apr. 25, 2017	Mar. 08, 2018	Apr. 24, 2018	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	Mar. 08, 2018	Oct. 20, 2018	Radiation (03CH02-KS)
SHF-EHF Hom	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Mar. 08, 2018	Feb. 06, 2019	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Oct. 12, 2017	Mar. 08, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 07, 2017	Mar. 08, 2018	Aug. 06, 2018	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 12, 2017	Mar. 08, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Mar. 08, 2018	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 08, 2018	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 08, 2018	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3ub

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	4.5dB

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)</u>

Measuring Uncertainty for a Level of	4.2dB
Confidence of 95% (U = 2Uc(y))	4.2ub

Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of	4.7dB
Confidence of 95% (U = 2Uc(y))	4.7ub

Sporton International (Kunshan) Inc.

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