

# FCC RF Test Report

APPLICANT	: Xiaomi Communications Co., Ltd.
EQUIPMENT	: Mobile Phone
BRAND NAME	: MI
MODEL NAME	: M1903F10G
FCC ID	: 2AFZZ-XMSF10G
STANDARD	:47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 11, 2019 and completely tested on Jun. 20, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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.

JasonJia

Reviewed by: Jason Jia / Supervisor

Journes Huang

Approved by: James Huang / Manager



#### Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China



# TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMAR	Y OF TEST RESULT	1
1	GENE	RAL DESCRIPTION	5
	1.1 1.2 1.3 1.4 1.5 1.6	Applicant	555577
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	3
	2.1 2.2 2.3 2.4 2.5	Test Mode       a         Connection Diagram of Test System       a         Support Unit used in test configuration and system       a         Measurement Results Explanation Example       a         Frequency List of Low/Middle/High Channels       10	39990
3	CONI	DUCTED TEST ITEMS	2
	3.1 3.2	Conducted Band Edge	2 1
4	RADI	ATED TEST ITEMS1	5
	4.1 4.2 4.3 4.4	Measuring Instruments       1         Test Setup       1         Test Result of Radiated Test       1         Radiated Spurious Emission       1	5555
5	LIST	OF MEASURING EQUIPMENT1	7
6	UNCE	RTAINTY OF EVALUATION	3
AP	PEND	X A. TEST RESULTS OF CONDUCTED TEST	

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS



# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG931204-03B	Rev. 01	Initial issue of report	Jun. 24, 2019



# SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	Not Required	-
-	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	Not Required	
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt	Not Required	
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	Not Required	-
-	§2.1049	Occupied Bandwidth	Occupied Bandwidth Reporting Only		-
3.1	§2.1051 §22.917(a) §24.238(a)	Conducted Band Edge Measurement (Band 2) (Band 5)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§27.53(m)(4)		
3.2	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission (Band 2) (Band 5)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])		
	§2.1055 §22.355		< 2.5 ppm for Part 22		
-	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	Not Required	-
4.4	§2.1053 §22.917(a) §24.238(a)	Radiated Spurious Emission (Band 2) (Band 5)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 27.42 dB
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])		at 7580 MHz



# **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

### **1.2 Product Feature of Equipment Under Test**

Product Feature					
Equipment	Mobile Phone				
Brand Name	MI				
Model Name	M1903F10G				
FCC ID	2AFZZ-XMSF10G				
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 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR /EDR/ LE FM Receiver /NFC /GNSS				
IMEI Code	Conducted: Radiation: 866962040422515/866962040422523				
HW Version	P2				
SW Version	MIUI 10				
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 is for memory, sample 1 is 6+64GB capacity and sample 2 is 6+128GB capacity.
- **3.** This is a variant report for M1903F10G, the change note could be referred to the product equality declaration which is exhibit separately. According to the change, only the conducted band-edge/CSE/RSE of LTE Band 2/5/7 are verified from original report FG931204B.
- 4. Verify the conducted power is close to the original report, so all of the conducted power refer to the original report FG931204B.



# **1.3 Product Specification of Equipment Under Test**

Standards-related Product Specification						
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz					
	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz					
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz					
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz					
Antenna Gain	Top Antenna :         LTE Band 2 : -2.14 dBi         LTE Band 4 : -1.65 dBi         LTE Band 5 : -3.78 dBi         LTE Band 7 : -0.23 dBi         LTE Band 38 : 0.30 dBi         Bottom Antenna :					
Tune of Medulation	LTE Band 2 : -0.18 dBi LTE Band 4 : 0.50 dBi LTE Band 5 : -2.70 dBi LTE Band 7 : -0.60 dBi LTE Band 38 : -0.61 dBi					
Type of Modulation	LTE Band 38 : -0.61 dBi QPSK / 16QAM / 64QAM / 256QAM(Downlink only)					

### **1.4 Modification of EUT**

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





### **1.5 Testing Location**

#### <FCC>-KS

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (H	Sporton International (Kunshan) Inc.						
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China							
Test Site Location	TEL : +86-512-57900158 FAX : +86-512-57900958							
	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
Test Site No.	03CH04-KS TH01-KS	CN1257	314309					

# **1.6 Applicable Standards**

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- **2.** This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



# 2 Test Configuration of Equipment Under Test

# 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating	the EUT in three	different orthogonal	test planes to
find the maximum emission.			

	<u> </u>		в	andwid	ith (MH	łz)		r	Modulatio	n		RB #		Tes	t Chan	nel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	м	н
	2	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Band Edge	5	v	v	v	v	-	-	v	v	v	×		v	v		v
g·	7	-	I	v	v	v	v	v	v	v	v		v	v		v
Conducted	2	v	v	v	v	v	v	v	v	v	v			v	v	v
Spurious	5	v	v	v	v	-	-	v	v	v	v			v	v	v
Emission	7	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated	2	Worst Case								v	v	v				
Spurious	5	Worst Case								v	v	v				
Emission	7	Worst Case         v         v         v									v					
	1. The	e mark	" <b>v</b> " me	ans that	at this c	onfigur	ation is	chosen fo	or testing							
Note	<ol> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol>															



# 2.2 Connection Diagram of Test System



### 2.3 Support Unit used in test configuration and system

ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Lenovo	SH100	N/A	N/A	N/A

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.6dB

Example :

Offset(dB) = RF cable loss(dB).

= 4.6 (dB)



# 2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List									
BW [MHz] Channel/Frequency(MHz) Lowest Middle Highest									
00	Channel	18700	18900	19100					
20	Frequency	1860	1880	1900					
15	Channel	18675	18900	19125					
15	Frequency	1857.5	1880	1902.5					
40	Channel	18650	18900	19150					
10	Frequency	1855	1880	1905					
5	Channel	18625	18900	19175					
5	Frequency	1852.5	1880	1907.5					
2	Channel	18615	18900	19185					
3	Frequency	1851.5	1880	1908.5					
1.4	Channel	18607	18900	19193					
1.4	Frequency	1850.7	1880	1909.3					



LTE Band 5 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz) Lowest Middle Highe								
10	Channel	20450	20525	20600					
10	Frequency	829	836.5	844					
_	Channel	20425	20525	20625					
5	Frequency	826.5	836.5	846.5					
2	Channel	20415	20525	20635					
3	Frequency	825.5	836.5	847.5					
1.4	Channel	20407	20525	20643					
	Frequency	824.7	836.5	848.3					

LTE Band 7 Channel and Frequency List						
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest		
20	Channel	20850	21100	21350		
	Frequency	2510	2535	2560		
15	Channel	20825	21100	21375		
	Frequency	2507.5	2535	2562.5		
10	Channel	20800	21100	21400		
	Frequency	2505	2535	2565		
5	Channel	20775	21100	21425		
	Frequency	2502.5	2535	2567.5		



# 3 Conducted Test Items

### 3.1 Conducted Band Edge

#### 3.1.1 Description of Conducted Band Edge Measurement

#### 22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[Watts])$  dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10log_{10}(P[Watts])$  dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is  $43 + 10\log_{10}(P[Watts])$  dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

#### 27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### 27.53 (h)

For operations in the 1710 - 1755 MHz band, the FCC limit is  $43 + 10log_{10}(P[Watts])$  dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.



#### 27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### 3.1.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured.
- 4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. Checked that all the results comply with the emission limit line.
  - Example:
  - The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W)- [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB) = -13dBm.
- 9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.



### 3.2 Conducted Spurious Emission

#### 3.2.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7,38,41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $55 + 10 \log (P) dB$ .

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.2.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 7. Set spectrum analyzer with RMS detector.
- 8. Taking the record of maximum spurious emission.
- 9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.
- 11. For Band 7, 38, 41
  - The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W)- [55+ 10log(P)] (dB)
  - = [30+ 10log(P)] (dBm) [55+ 10log(P)] (dB)
  - = -25dBm.



# 4 Radiated Test Items

### 4.1 Measuring Instruments

See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

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### 4.4 Radiated Spurious Emission

#### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

= P(W)- [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

13. For Band 7, 38, 41:

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)



# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Jun. 20, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jun. 27, 2018	Jun. 20, 2019	Jun. 26, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Oct. 10, 2018	Jun. 19, 2019	Oct. 09, 2019	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Jun. 19, 2019	Dec. 27, 2019	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1648	1GHz~18GHz	Jan. 27, 2019	Jun. 19, 2019	Jan. 26, 2020	Radiation (03CH04-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Jan. 05, 2019	Jun. 19, 2019	Jan. 04, 2020	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz ~3000MHz	Nov. 19, 2018	Jun. 19, 2019	Nov. 18, 2019	Radiation (03CH04-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Jan. 14, 2019	Jun. 19, 2019	Jan. 13, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 12, 2018	Jun. 19, 2019	Oct. 11, 2019	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 19, 2019	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 19, 2019	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 19, 2019	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



# 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	5.0dB

#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	5 1dB
Confidence of 95% (U = 2Uc(y))	3.108



# **Appendix A. Test Results of Conducted Test**

Conducted Band Edge

: A1 of A79 : Jun. 24, 2019 : Rev. 01





: A2 of A79

: Jun. 24, 2019





: A3 of A79

: Jun. 24, 2019

: Rev. 01





: A4 of A79

: Jun. 24, 2019

: Rev. 01







: A5 of A79

: Jun. 24, 2019

: Rev. 01







: A6 of A79

- : Jun. 24, 2019
- : Rev. 01







: A7 of A79

: Jun. 24, 2019







: A8 of A79

: Jun. 24, 2019







: A9 of A79

- : Jun. 24, 2019
- : Rev. 01







: A10 of A79

: Jun. 24, 2019

: Rev. 01







: A11 of A79

- : Jun. 24, 2019
- : Rev. 01





: A12 of A79

: Jun. 24, 2019

: Rev. 01





: A13 of A79

: Jun. 24, 2019

: Rev. 01







: A14 of A79

: Jun. 24, 2019

: Rev. 01





: A15 of A79

: Jun. 24, 2019

: Rev. 01





: A16 of A79

: Jun. 24, 2019

: Rev. 01







: A17 of A79

- : Jun. 24, 2019
- : Rev. 01





: A18 of A79

: Jun. 24, 2019

: Rev. 01





: A19 of A79

: Jun. 24, 2019





: A20 of A79

- : Jun. 24, 2019
- : Rev. 01





: A21 of A79

: Jun. 24, 2019





: A22 of A79

: Jun. 24, 2019







: A23 of A79

: Jun. 24, 2019







: A24 of A79

- : Jun. 24, 2019
- : Rev. 01







: A25 of A79

: Jun. 24, 2019

: Rev. 01





: A26 of A79

: Jun. 24, 2019