FCC RF Test Report

APPLICANT: Xiaomi Communications Co., Ltd.

EQUIPMENT: Mobile Phone

BRAND NAME : MI

MODEL NAME : M1806E7TH

FCC ID : 2AFZZ-RMSE7TH

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 26, 2018 and completely tested on Aug. 13, 2018. 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.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 1 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMA	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	6
	1.5	Modification of EUT	6
	1.6	Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	
	1.7	Testing Location	
	1.8	Applicable Standards	
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	9
	2.1	Test Mode	9
	2.2	Connection Diagram of Test System	10
	2.3	Support Unit used in test configuration	10
	2.4	Measurement Results Explanation Example	
	2.5	Frequency List of Low/Middle/High Channels	11
3	CON	DUCTED TEST RESULT	12
	3.1	Measuring Instruments	12
	3.2	Test Setup	12
	3.3	Test Result of Conducted Test	12
	3.4	Conducted Output Power and ERP/EIRP	13
	3.5	Peak-to-Average Ratio	
	3.6	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.7	Conducted Band Edge	
	3.8	Conducted Spurious Emission	
	3.9	Frequency Stability	
4	RAD	IATED TEST ITEMS	19
	4.1	Measuring Instruments	19
	4.2	Test Setup	
	4.3	Test Result of Radiated Test	
	4.4	Field Strength of Spurious Radiation Measurement	
5	LIST	OF MEASURING EQUIPMENT	21
6	UNC	ERTAINTY OF EVALUATION	22
ΑP	PEND	DIX A. TEST RESULTS OF CONDUCTED TEST	
		DIX B. TEST RESULTS OF RADIATED TEST	
		DIX C. TEST SETUP PHOTOGRAPHS	

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 2 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG862604-01A	Rev. 01	Initial issue of report	Aug. 21, 2018

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 3 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
0.4	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	\$2.1051 \$22.917(a) \$24.238(a) \$27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	\$2.1051 \$22.917(a) \$24.238(a) \$27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
	§2.1055 §22.355 Frequency Stability		< 2.5 ppm for Part 22H		
3.9	§2.1055 §24.235 §27.54	for Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 13.89 dB at 3759.00 MHz

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 4 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

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.: FG862604-01A

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	M1806E7TH		
FCC ID	2AFZZ-RMSE7TH		
	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/		
	HSPA+(16QAM uplink is not supported)/LTE		
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40		
EOT Supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40		
	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80		
	Bluetooth BR/EDR/LE		
IMEI Code	Conducted:869804030100908/869804030104686		
INVEL Code	Radiation: 869804030102557/869804030106335		
HW Version	P2.0		
SW Version	MIUI 9		
EUT Stage	Identical Prototype		

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

 Sporton International (Kunshan) Inc.
 Page Number
 : 5 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Aug. 21, 2018

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: 2AFZZ-RMSE7TH Report Template No.: BU5-FG22/24/27 Version 2.0

1.4 Product Specification of Equipment Under Test

Standards	Standards-related Product Specification				
	GSM/GPR	RS/EDGE:			
	850:	824.2 MHz ~ 848.8 MHz			
	1900:	1850.2 MHz ~ 1909.8MHz			
Tx Frequency	WCDMA:				
. ,	Band V:	826.4 MHz ~ 846.6 MHz			
	Band II:	1852.4 MHz ~ 1907.6 MHz			
	Band IV:	1712.4 MHz ~ 1752.6 MHz			
	GSM/GPR	RS/EDGE:			
	850:	869.2 MHz ~ 893.8 MHz			
	1900:	1930.2 MHz ~ 1989.8 MHz			
Rx Frequency	WCDMA:				
	Band V:	871.4 MHz ~ 891.6 MHz			
	Band II:	1932.4 MHz ~ 1987.6 MHz			
		2112.4 MHz ~ 2152.6 MHz			
	GSM/GPR	RS/EDGE:			
	850:	33.25 dBm			
	1900:	31.19 dBm			
Maximum Output Power to Antenna	WCDMA:				
	Band V: 23.58 dBm				
	Band II:	23.41 dBm			
	Band IV:	24.59 dBm			
Antenna Type	PIFA & Loo	p Antenna			
	Bottom An	tenna:			
	Cellular Band: -6.2 dBi				
	PCS Band:				
Antenna Gain	AWS Band:				
	Top Anteni				
	Cellular Bar				
	PCS Band:				
	AWS Band:				
	GSM: GMS				
	GPRS: GMSK EDGE: GMSK / 8PSK				
	WCDMA: BPSK (Uplink)				
Type of Modulation		-HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)				
	HSPA+:16QAM(uplink is not supported)				
	DC-HSDPA: 64QAM				

Report No.: FG862604-01A

1.5 Modification of EUT

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

 Sporton International (Kunshan) Inc.
 Page Number
 : 6 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Aug. 21, 2018

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: 2AFZZ-RMSE7TH Report Template No.: BU5-FG22/24/27 Version 2.0

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GSM	GMSK	0.3090	0.0538 ppm	244KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.0818	0.0418 ppm	246KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0333	0.0239 ppm	4M13F9W
Part 24E	GSM1900 GSM	GMSK	0.4887	0.0239 ppm	244KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.1714	0.0293 ppm	249KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.0815	0.0064 ppm	4M14F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	BPSK	0.1199	0.0139 ppm	4M13F9W

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 7 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

1.7 Testing 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	Province 215335 China TEL: +86-512-5790015	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL: +86-512-57900158 FAX: +86-512-57900958			
Test Site No.	Sporton Site No. Registration No.		FCC Test Firm Registration No. 630927		

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

1.8 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)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

- 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.

Sporton International (Kunshan) Inc. TEL: +86-512-57900158

FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 8 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV.
- 3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.
- 4. For the test item of ERP/EIRP, we only assess the max gain from Antenna 1 and Antenna 2
- 5. For the test items of Radiated Spurious Emission, we assess both Antenna.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

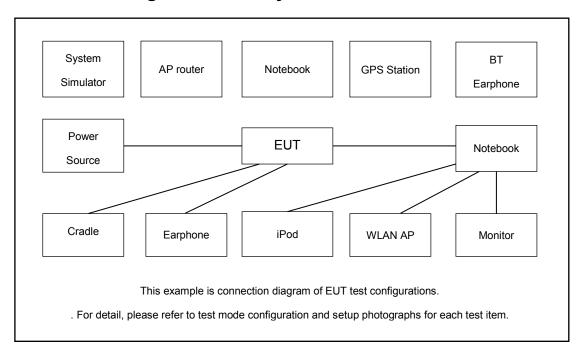
	Test Modes						
Band	Radiated TCs	Conducted TCs					
GSM 850	■ GSM Link	■ GSM Link					
G5IVI 850	■ EDGE class 8 Link	■ EDGE class 8 Link					
OOM 4000	■ GSM Link	■ GSM Link					
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 9 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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 and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.4 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 4.4 + 10 = 14.4 (dB)

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 10 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

2.5 Frequency List of Low/Middle/High Channels

	Frequency List						
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest			
GSM850	Channel	128	189	251			
GSIVIOSU	Frequency	824.2	836.4	848.8			
WCDMA	Channel	4132	4182	4233			
Band V	Frequency	826.4	836.4	846.6			
00144000	Channel	512	661	810			
GSM1900	Frequency	1850.2	1880.0	1909.8			
WCDMA	Channel	9262	9400	9538			
Band II	Frequency	1852.4	1880.0	1907.6			
WCDMA	Channel	1312	1413	1513			
Band IV	Frequency	1712.4	1732.6	1752.6			

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 11 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

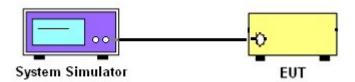
3 Conducted Test Result

3.1 Measuring Instruments

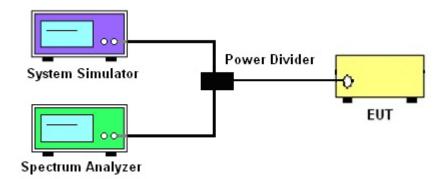
See list of measuring instruments of this test report.

3.2 Test Setup

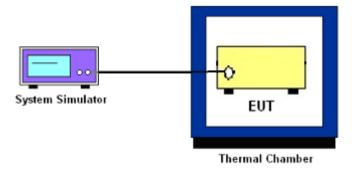
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 12 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

EIRP = P_T + G_T – L_C , ERP = EIRP -2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

 $\ensuremath{\mathsf{L}}_{\ensuremath{\mathsf{C}}}$ = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

Sporton International (Kunshan) Inc. TEL: +86-512-57900158

FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 13 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

Sporton International (Kunshan) Inc.

FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH

TEL: +86-512-57900158

Page Number : 14 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.4
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- 6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge 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.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 16 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

3.8 Conducted Spurious Emission

3.8.1 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.

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

3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

Sporton International (Kunshan) Inc.

FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH

TEL: +86-512-57900158

Page Number : 17 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

Page Number : 18 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

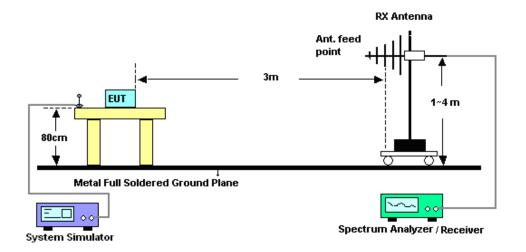
4 Radiated Test Items

4.1 Measuring Instruments

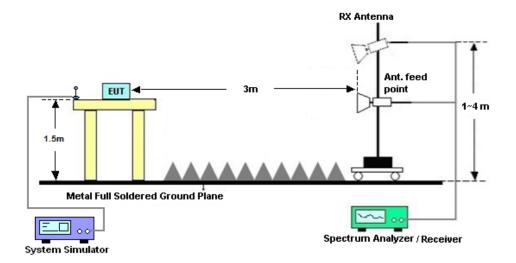
See list of measuring instruments of this test report.

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.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 19 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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

Report No.: FG862604-01A

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

 Sporton International (Kunshan) Inc.
 Page Number
 : 20 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Aug. 21, 2018

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

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~30GHz	Apr. 19, 2018	Aug. 13, 2018	Apr. 18, 2019	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 12, 2017	Aug. 13, 2018	Oct. 11, 2018	Conducted (TH01-KS)
Radio communication analyzer	Anritsu	MT8820C	6201300652	2G/3G/LTE_ full band	Aug. 07, 2018	Aug. 13, 2018	Aug. 06, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 10, 2017	Aug. 13, 2018	Oct. 09, 2018	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 29, 2018	Aug. 13, 2018	Jan. 28, 2019	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	Aug. 13, 2018	Oct. 20, 2018	Radiation (03CH04-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Aug. 13, 2018	Feb. 06, 2019	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz ~3000MHz	Dec. 16, 2017	Aug. 13, 2018	Dec. 15, 2018	Radiation (03CH04-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Feb. 08, 2018	Aug. 13, 2018	Feb. 07, 2019	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Aug. 13, 2018	Apr. 16, 2019	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Dec. 16, 2017	Aug. 13, 2018	Dec. 15, 2018	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 13, 2018	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 13, 2018	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 13, 2018	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 21 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

6 Uncertainty of Evaluation

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

	1
Measuring Uncertainty for a Level of	0.0 ID
	3.3 dB
Confidence of 95% (U = 2Uc(y))	
Confidence of 95% (U = 2Uc(y))	0.0 0.2

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

Measuring Uncertainty for a Level of	2.8 dB
Confidence of 95% (U = 2Uc(y))	2.0 UB

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : 22 of 22
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band		GSM850		GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	<mark>33.25</mark>	33.06	33.15	<mark>31.19</mark>	31.02	31.13
GPRS class 8	33.24	33.04	33.13	31.18	31.00	31.12
GPRS class 10	31.57	31.79	31.94	28.40	28.27	28.12
GPRS class 11	30.33	30.24	30.37	27.24	26.97	26.84
GPRS class 12	28.97	28.91	29.04	26.03	25.77	25.64
EGPRS class 8	27.48	27.42	27.37	26.64	26.38	26.19
EGPRS class 10	26.04	26.00	25.96	24.68	24.47	24.28
EGPRS class 11	24.78	24.74	24.71	23.50	23.23	23.04
EGPRS class 12	23.02	22.98	23.00	21.31	21.08	21.02

Conducted Power (*Unit: dBm)										
Band	WCE	MA Ba	nd V	WCDMA Band II			WCE	WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
AMR 12.2K	23.50	23.53	23.56	23.40	23.30	23.27	24.39	24.57	24.52	
RMC 12.2K	23.51	23.55	23.58	23.41	23.32	23.28	24.40	<mark>24.59</mark>	24.53	
HSDPA Subtest-1	22.20	22.18	22.17	22.15	22.07	22.04	22.87	23.13	23.15	
HSDPA Subtest-2	22.25	22.14	22.19	22.17	22.08	22.05	22.90	23.16	22.93	
HSDPA Subtest-3	21.75	21.72	21.64	21.71	21.61	21.56	22.42	22.68	22.63	
HSDPA Subtest-4	21.76	21.71	21.69	21.70	21.60	21.57	22.43	22.69	22.63	
DC-HSDPA Subtest-1	22.02	22.10	22.07	22.08	22.00	22.00	22.76	22.89	22.98	
DC-HSDPA Subtest-2	21.95	22.08	22.08	22.07	21.98	21.98	22.70	22.85	22.93	
DC-HSDPA Subtest-3	21.54	21.65	21.52	21.67	21.56	21.45	22.29	22.54	22.43	
DC-HSDPA Subtest-4	21.50	21.50	21.55	21.62	21.52	21.50	22.25	22.50	22.40	
HSUPA Subtest-1	22.17	22.13	22.12	22.14	22.03	22.00	22.88	23.07	23.12	
HSUPA Subtest-2	20.18	20.09	20.09	20.17	20.01	19.89	20.84	21.03	21.11	
HSUPA Subtest-3	21.15	21.13	21.13	20.95	20.97	20.95	21.83	22.00	21.89	
HSUPA Subtest-4	19.98	19.95	19.90	20.10	20.07	19.97	20.88	21.07	21.10	
HSUPA Subtest-5	22.20	22.10	22.10	22.20	22.00	22.00	22.90	23.10	23.10	

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A1 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

ERP/EIRP

GSM850 (G _T - L _C = -6.20 dBi)				
Oh a maral	128	189	251	
Channel	(Low)	(Mid)	(High)	
Frequency	024.2	020.4	0.40.0	
(MHz)	824.2	836.4	848.8	
Conducted Power (dBm)	33.25	33.06	33.15	
Conducted Power (Watts)	2.1135	2.0230	2.0654	
ERP(dBm)	24.90	24.71	24.80	
ERP(Watts)	0.3090	0.2958	0.3020	

EDGE850 (G _T - L _C = -6.20 dBi)				
	128	189	251	
Channel	(Low)	(Mid)	(High)	
Frequency	004.0	000.4	848.8	
(MHz)	824.2	836.4		
Conducted Power (dBm)	27.48	27.42	27.37	
Conducted Power (Watts)	0.5598	0.5521	0.5458	
ERP(dBm)	19.13	19.07	19.02	
ERP(Watts)	0.0818	0.0807	0.0798	

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A2 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

GSM1900 (G _T - L _C = -4.30 dBi)				
Channel	512	661	810	
	(Low)	(Mid)	(High)	
Frequency	4050.0	4000	4000.0	
(MHz)	1850.2	1880	1909.8	
Conducted Power (dBm)	31.19	31.02	31.13	
Conducted Power (Watts)	1.3152	1.2647	1.2972	
EIRP(dBm)	26.89	26.72	26.83	
EIRP(Watts)	0.4887	0.4699	0.4819	

EDGE1900 (G _T - L _C = -4.30 dBi)				
Channel	512	661	810	
Channel	(Low)	(Mid)	(High)	
Frequency	4050.0	4000	4000.9	
(MHz)	1850.2	1880	1909.8	
Conducted Power (dBm)	26.64	26.38	26.19	
Conducted Power (Watts)	0.4613	0.4345	0.4159	
EIRP(dBm)	22.34	22.08	21.89	
EIRP(Watts)	0.1714	0.1614	0.1545	

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A3 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No. : FG862604-01A

WCDMA Band V (G _T - L _C = -6.20 dBi)				
Observat	4132	4182	4233	
Channel	(Low)	(Mid)	(High)	
Frequency	000.4	000.4	040.0	
(MHz)	826.4	836.4	846.6	
Conducted Power (dBm)	23.51	23.55	23.58	
Conducted Power (Watts)	0.2244	0.2265	0.2280	
ERP(dBm)	15.16	15.20	15.23	
ERP(Watts)	0.0328	0.0331	0.0333	

WCDMA Band II (G_T - L_C = -4.30 dBi)				
Ohamal	9262	9400	9538	
Channel	(Low)	(Mid)	(High)	
Frequency	4050 4	4000	4007.0	
(MHz)	1852.4	1880	1907.6	
Conducted Power (dBm)	23.41	23.32	23.28	
Conducted Power (Watts)	0.2193	0.2148	0.2128	
EIRP(dBm)	19.11	19.02	18.98	
EIRP(Watts)	0.0815	0.0798	0.0791	

WCDMA Band IV ($G_T - L_C = -3.80 \text{ dBi}$)				
	1312	1413	1513	
Channel	(Low)	(Mid)	(High)	
Frequency	1712.4	1732.6	1752.6	
(MHz)	1712.4	1732.6		
Conducted Power (dBm)	24.40	24.59	24.53	
Conducted Power (Watts)	0.2754	0.2877	0.2838	
EIRP(dBm)	20.60	20.79	20.73	
EIRP(Watts)	0.1148	0.1199	0.1183	

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A4 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

Peak-to-Average Ratio

Mode	GSM8	Limit: 13dB	
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.48	
Middle CH	0.20	3.36	PASS
Highest CH	0.17	3.62	

Mode	GSM19	Limit: 13dB	
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.48	
Middle CH	0.20	3.25	PASS
Highest CH	0.20	3.13	

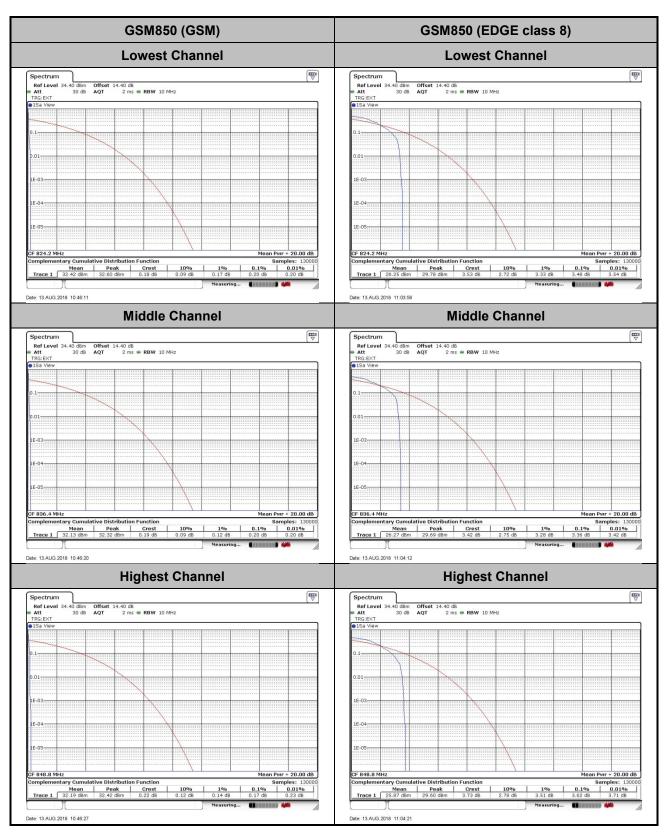
Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	WCDMA Band IV(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.99	2.52	2.46	
Middle CH	3.04	2.99	3.04	PASS
Highest CH	3.01	2.81	2.84	

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A5 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

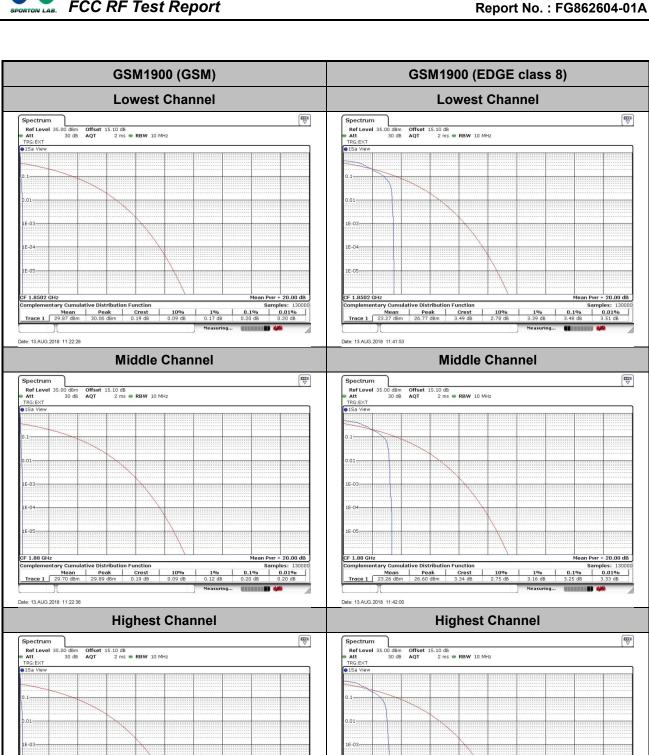
Report Template No.: BU5-FG22/24/27 Version 2.0





TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A6 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A

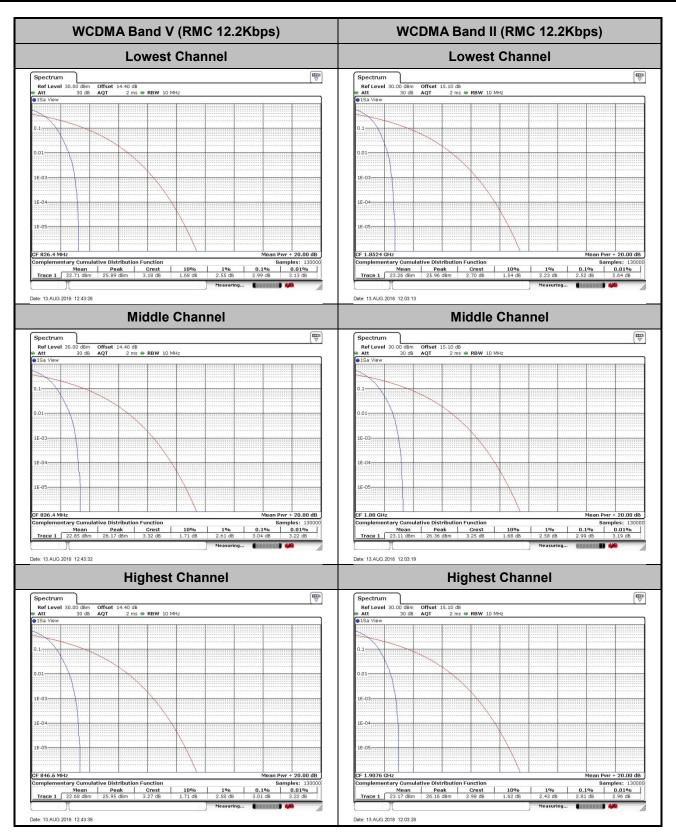


Samples: 130000 0.1% 0.01% 0.20 dB 0.20 dB

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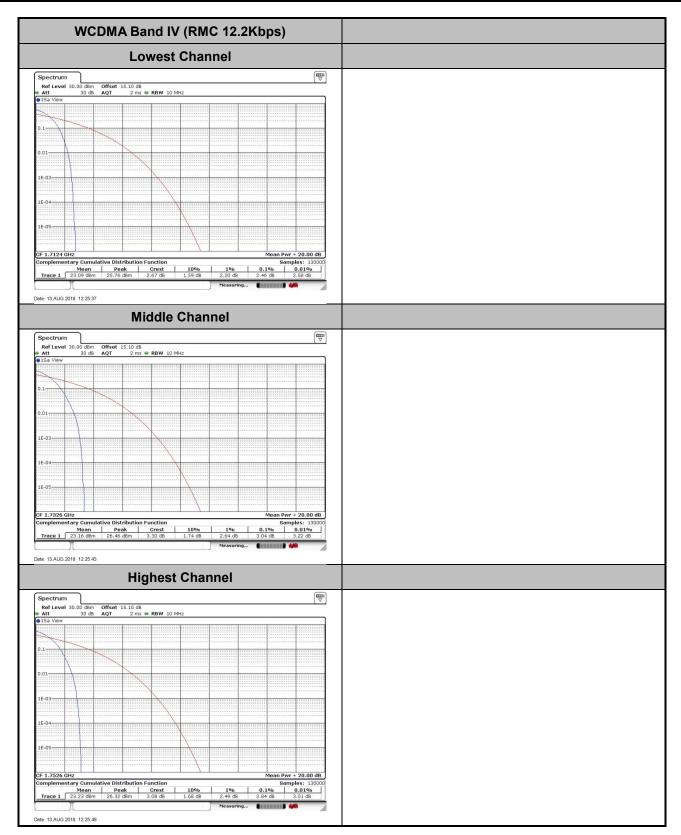
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A7 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Samples: 130000 0.1% 0.01% 3.13 dB 3.19 dB



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A8 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A9 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

26dB Bandwidth

Mode	GSM850(MHz)		
Mod.	GPRS class 8	EDGE class 8	
Lowest CH	0.315	0.312	
Middle CH	0.311	0.311	
Highest CH	0.304	0.311	

Mode	GSM1900(MHz)		
Mod.	GPRS class 8	EDGE class 8	
Lowest CH	0.314	0.312	
Middle CH	0.312	0.311	
Highest CH	0.311	0.310	

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.705	4.735	4.735
Middle CH	4.715	4.715	4.705
Highest CH	4.705	4.725	4.715

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A10 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

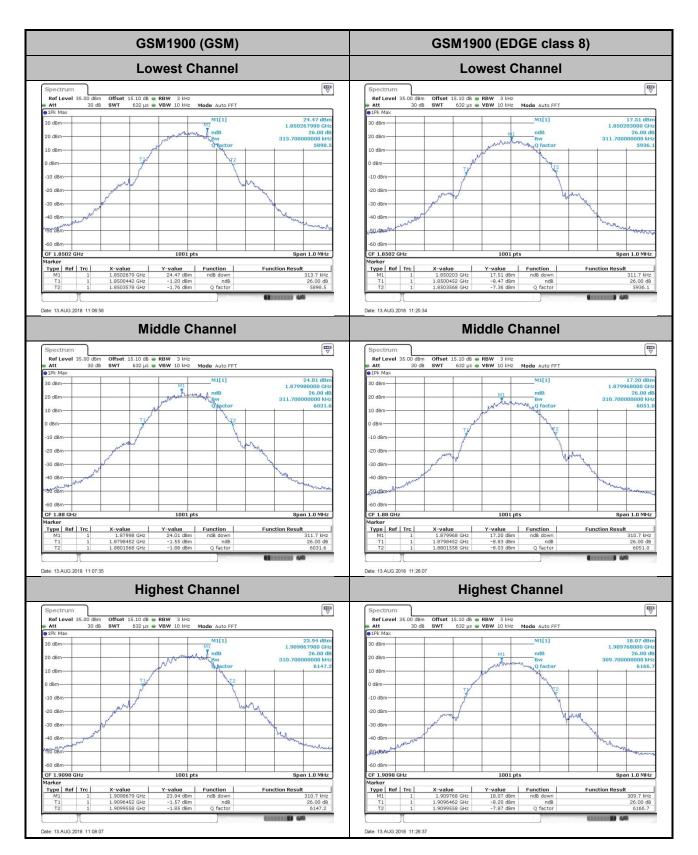
GSM850 (GSM) GSM850 (EDGE class 8) **Lowest Channel Lowest Channel ₩** 1.0 MHz Date: 13.AUG.2018 10:29:33 Date: 13.AUG.2018 10:49:09 **Middle Channel Middle Channel** 26.46 dBi 836.467900 MH 26.00 d 310.700000000 kH Type Ref Trc Function ndB down Type Ref Trc **Function Result** Date: 13.AUG.2018 10:30:05 Date: 13.AUG.2018 10:49:39 **Highest Channel Highest Channel** Mode Auto FFT Mode Auto FFT 26.46 dBi 848.867900 MI 20.33 dBn 848.766000 *** Str digm-Type | Ref | Trc | Type Ref Trc

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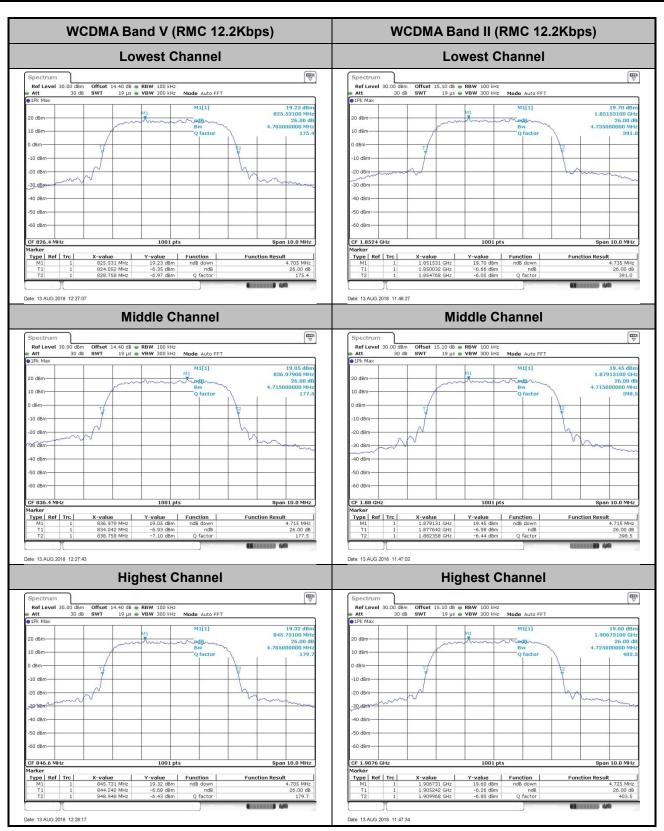
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Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A



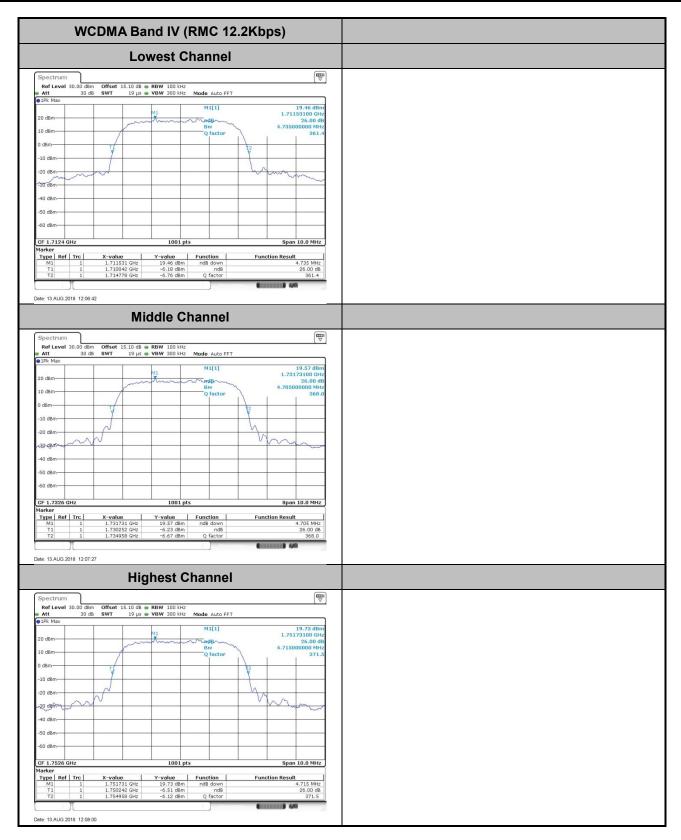


TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A12 of A32 Report Issued Date: Aug. 21, 2018 Report Version : Rev. 01



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A13 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report No.: FG862604-01A



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A14 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

Occupied Bandwidth

Mode	GSM850(MHz)		
Mod.	Mod. GPRS class 8 EDGE cla		
Lowest CH	0.243	0.244	
Middle CH	0.244	0.246	
Highest CH	0.240	0.243	

Mode	GSM1900(MHz)		
Mod.	GPRS class 8	EDGE class 8	
Lowest CH	0.244	0.246	
Middle CH	0.242	0.249	
Highest CH	0.244	0.246	

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.126	4.136	4.126
Middle CH	4.126	4.126	4.116
Highest CH	4.126	4.116	4.116

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A15 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

GSM850 (GSM) GSM850 (EDGE class 8) **Lowest Channel Lowest Channel T** 242.757242757 kH -50 dBm--50 dBm CF 824.2 MH Y-value 30.69 dBm 15.91 dBm 15.85 dBm X-value 824.2 MHz 824.078122 MHz 824.321878 MHz Type Ref Trc Type Ref Trc 242.757242757 kHz 243.756243756 kHz Date: 13.AUG.2018 10:33:19 Date: 13.AUG.2018 10:52:35 **Middle Channel Middle Channel** 1001 pts
 X-value
 Y-value
 Function

 836.4669 MHz
 30.68 dBm
 836.278122 MHz
 15.23 dBm
 Occ Bw

 836.5218278 MHz
 15.21 dBm
 Occ Bw
 Type Ref Trc
 X-value
 Y-value
 Function

 836.382 MHz
 24.24 dBm

 836.27123 MHz
 9.36 dBm
 Occ Bw

 836.522877 MHz
 10.64 dBm
 Type Ref Trc **Function Result Function Result** 243.756243756 kHz 245.754245754 kHz Date: 13.AUG.2018 10:34:05 Date: 13.AUG.2018 10:53:35 **Highest Channel Highest Channel**
 Offset
 14.40 dB
 RBW
 10 kHz

 SWT
 189.6 μs
 VBW
 30 kHz
 Mode
 Auto FFT

 Offset
 14.40 dB
 RBW
 10 kHz

 SWT
 189.6 μs
 WBW
 30 kHz
 Mode
 Auto FFT
 30.48 dBn 848.867900 see 25.02 dBn 848.802000 *** 242.757242757 kH -50 dBm-50 dBm Type Ref Trc Type | Ref | Trc |

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Occ Bw

239.76023976 kHz

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH Page Number : A16 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

242.757242757 kHz

Report No.: FG862604-01A

Report No.: FG862604-01A **GSM1900 (GSM)** GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel T** 30 dBm 1001 pts CF 1.8502 GHz 1001 pts CF 1.8502 GHz Type Ref Trc Type Ref Trc 243.756243756 kHz 245.754245754 kHz Date: 13.AUG.2018 11:08:40 Date: 13.AUG.2018 11:27:23 **Middle Channel Middle Channel** 10 dBm 1001 pts 1001 pts CF 1.88 GH
 X-value
 Y-value
 Function

 1.8800669 GHz
 27.76 dBm
 0.27.76 dBm

 1.87987912 GHz
 14.22 dBm
 Occ Bw

 1.88012088 GHz
 12.64 dBm

 X-value
 Y-value

 1.879987 GHz
 22.06 dBm

 1.87987512 GHz
 7.12 dBm

 1.88012388 GHz
 8.38 dBm
 Type Ref Trc Type Ref Trc Function **Function Result Function Result** 241.758241758 kHz 248.751248751 kHz Date: 13.AUG.2018 11:09:26 Date: 13.AUG.2018 11:27:58 **Highest Channel Highest Channel** Offset 15.10 dB RBW 10 kHz SWT 189.6 μs **SWBW** 30 kHz
 Offset
 15.10 dB
 RBW
 10 kHz

 SWT
 189.6 μs
 VBW
 30 kHz
 Mode Auto FFT
 Mode Auto FFT 22.05 dBn 1.909770000 GH: 245.754245754 kH: 27.86 dBr 20 dBm dBm--10 dBn -10 dBm 40 dB

Type Ref Trc

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Occ Bw

243.756243756 kHz

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AFZZ-RMSE7TH

Type | Ref | Trc |

Page Number : A17 of A32
Report Issued Date : Aug. 21, 2018
Report Version : Rev. 01

245.754245754 kHz