FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.

EQUIPMENT: Mobile Phone

BRAND NAME : MI

MODEL NAME : M1804C3CG

FCC ID : 2AFZZ-RMSC3CG

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

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 16, 2018 and completely tested on May 22, 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.

This report contains data that were produced under subcontract by Sporton International (Shenzhen) Inc.

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

TESTING

NVLAP LAB CODE 600155-0

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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Sporton International (Kunshan) Inc.

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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|--------------|---------|-------------------------|---------------|
| FG841616-01A | Rev. 01 | Initial issue of report | Jun. 12, 2018 |
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SUMMARY OF TEST RESULT

| Report Section | FCC RINE Description | | Limit | Result | Remark |
|-------------------|------------------------------------------------------------|-----------------------------------------|------------------------|--------|-------------------------------------------|
| | §2.1046 | Conducted Output Power | Reporting Only | PASS | - |
| 3.4 | §22.913(a)(5) | Effective Radiated Power | < 7 Watts | PASS | - |
| | §24.232(c) | Equivalent Isotropic Radiated Power | < 2 Watts | PASS | - |
| 3.5 | §24.232(d) | Peak-to-Average Ratio | < 13 dB | PASS | - |
| 3.6 | 3.6 §2.1049 Occupied Bandwidth | | Reporting Only | PASS | - |
| 3.7 | §2.1051 §22.917(a) §24.238(a) | Band Edge Measurement | < 43+10log10(P[Watts]) | PASS | - |
| 3.8 | §2.1051 3.8 §22.917(a) Conducted Emission §24.238(a) | | < 43+10log10(P[Watts]) | PASS | - |
| 0.0 | §2.1055 §22.355 | Frequency Stability for | < 2.5 ppm for Part 22H | D4.00 | |
| 3.9 | §2.1055 §24.235 | Temperature & Voltage | Within Authorized Band | PASS | - |
| 4.4 | §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | < 43+10log10(P[Watts]) | PASS | Under limit 41.29 dB at 3760.00 MHz |

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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

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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 | M1804C3CG |
| FCC ID | 2AFZZ-RMSC3CG |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+/LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth v3.0 + EDR/ Bluetooth v 4.0 LE/Bluetooth v4.2 LE |
| IMEI Code | Conduction: 868148030007734/868148030007742 Radiation: 868148030007536/868148030007544 |
| HW Version | P2 |
| SW Version | MIUI9 |
| EUT Stage | Production Unit |

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, the difference between two samples is for memory: sample 1 is 2+32GB memory and sample 2 is 2+16GB memory. According to the difference, we only choose sample 1 to perform full test.

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1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | | | | | |
|-----------------------------------------|---------------------------------------------------------|-------------------------|--|--|--|
| | GSM/GPRS/EDGE: | | | | |
| | 850: | 824.2 MHz ~ 848.8 MHz | | | |
| T. F. | 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 | | | |
| | GSM/GPF | 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 | | | |
| | GSM/GPRS/EDGE: | | | | |
| | 850: | 33.15 dBm | | | |
| Marriana Ordani Barranda Antanna | 1900: | 30.24 dBm | | | |
| Maximum Output Power to Antenna | WCDMA: | | | | |
| | Band V: | 23.76 dBm | | | |
| | Band II: | 23.35 dBm | | | |
| Antenna Type | Loop Anter | na | | | |
| Antenna Gain | Cellular Ba | nd: -1.67 dBi | | | |
| Antenna Gam | PCS Band: | | | | |
| | GSM: GMS | | | | |
| | GPRS: GMSK | | | | |
| | EDGE: GMSK / 8PSK | | | | |
| Type of Modulation | WCDMA: BPSK (Uplink) | | | | |
| | HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) | | | | |
| | HSPA+ : 16 | | | | |
| | DC-HSDPA: 64QAM | | | | |

1.5 Modification of EUT

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

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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 | 0.8570 | 0.0634 ppm | 244KGXW |
| Part 22H | GSM850 EDGE class 8 | 8PSK | 0.2158 | 0.0681 ppm | 249KG7W |
| Part 22H | WCDMA Band V RMC 12.2Kbps | BPSK | 0.0986 | 0.0514 ppm | 4M18F9W |
| Part 24E | GSM1900 GSM | GMSK | 1.0116 | 0.0739 ppm | 244KGXW |
| Part 24E | GSM1900 EDGE class 8 | 8PSK | 0.4355 | 0.0676 ppm | 247KG7W |
| Part 24E | WCDMA Band II RMC 12.2Kbps | BPSK | 0.2070 | 0.0112 ppm | 4M18F9W |

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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.

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| Test Site | Sporton International (Kunshan) Inc. | | | | |
|--------------------|--------------------------------------------------------------------------------------|------------------------------------|--|--|--|
| Test Site Location | No.3-2 Ping-Xiang Rd, Kunshan Deve Province 215335 China TEL: +86-512-57900158 | elopment Zone Kunshan City Jiangsu | | | |
| | FAX: +86-512-57900958 | | | | |
| Took Cita No | Sporton Site No. | FCC Test Firm Registration No. | | | |
| Test Site No. | TH01-KS | 630927 | | | |

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. is CN5019.

| Test Site | Sporton International (Shenzhen) Inc. | | | |
|--------------------|------------------------------------------|--------------------------------|--|--|
| Test Site Location | , 5 5 | | | |
| | TEL: +86-755-3320-2398 Sporton Site No. | FCC Test Firm Registration No. | | |
| Test Site No. | 03CH01-SZ 577730 | | | |

Note:

- 1. The test site complies with ANSI C63.4 2014 requirement.
- 2. Test data subcontracted: radiated spurious emissions in section 4.4 of this report.

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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)
- 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.

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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 9000 MHz for GSM850 and WCDMA Band V.
- 2. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

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

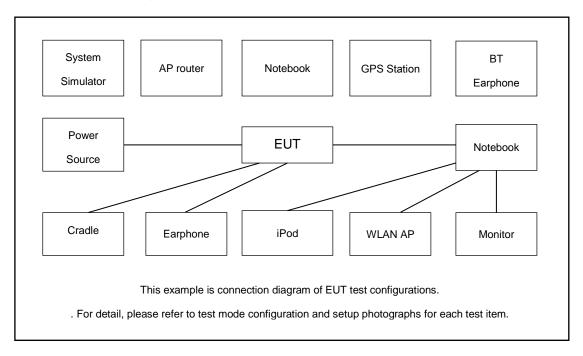
| Test Modes | | | | | | |
|---------------|---------------------|---------------------|--|--|--|--|
| Band | Radiated TCs | Conducted TCs | | | | |
| CCM 950 | ■ GSM Link | ■ GSM Link | | | | |
| GSM 850 | ■ EDGE class 8 Link | ■ EDGE class 8 Link | | | | |
| CCM 4000 | ■ GSM Link | ■ GSM Link | | | | |
| 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 | | | | |

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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 | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | DC Power Supply | GWINSTEK | GPS-3030D | N/A | N/A | Unshielded, 1.8 m |
| 3. | Earphone | MI | N/A | N/A | Unshielded,1.2m | N/A |

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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 4.3 dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$4.3 + 10 = 14.3$$
 (dB)

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2.5 Frequency List of Low/Middle/High Channels

| Frequency List | | | | | | | | |
|-----------------------------------------------|-----------|--------|--------|--------|--|--|--|--|
| Band Channel/Frequency(MHz) Lowest Middle Hig | | | | | | | | |
| 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 | | | | |
| GSM1900 | Channel | 512 | 661 | 810 | | | | |
| GSW11900 | Frequency | 1850.2 | 1880.0 | 1909.8 | | | | |
| WCDMA | Channel | 9262 | 9400 | 9538 | | | | |
| Band II | Frequency | 1852.4 | 1880.0 | 1907.6 | | | | |

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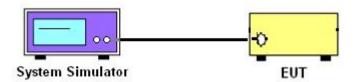
3 Conducted Test Result

3.1 Measuring Instruments

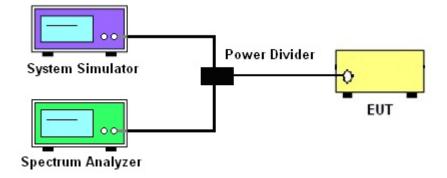
See list of measuring instruments of this test report.

3.2 Test Setup

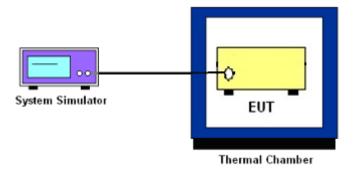
3.2.1 Conducted Output Power



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.

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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.

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

L_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.

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.

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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.
- 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.

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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)

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)

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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.

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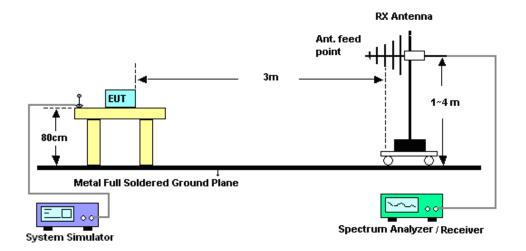
4 Radiated Test Items

4.1 Measuring Instruments

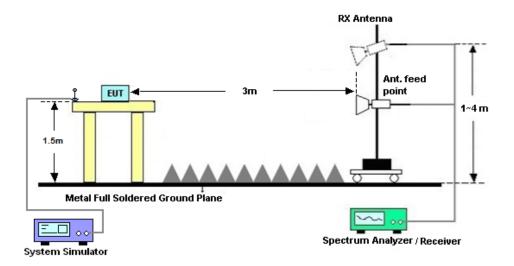
See list of measuring instruments of this test report.

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 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.

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)

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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. 08, 2017 | Apr. 28, 2018 | Aug. 07, 2018 | Conducted (TH01-KS) |
| Thermal Chamber | Ten Billion | TTC-B3S | TBN-960502 | -40~+150°C | Oct. 12, 2017 | Apr. 28, 2018 | Oct. 11, 2018 | Conducted (TH01-KS) |
| EMI Test Receiver&SA | Agilent | N9038A | MY52260185 | 20Hz~26.5GHz | Apr. 19, 2018 | May 22, 2018 | Apr. 18, 2019 | Radiation (03CH01-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35408 | 30MHz-2GHz | Apr. 19, 2018 | May 22, 2018 | Apr. 18, 2019 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS Lindgren | 3117 | 119436 | 1GHz~18GHz | Jul. 28, 2017 | May 22, 2018 | Jul. 27, 2018 | Radiation (03CH01-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18Ghz-40GHz | Jun. 16, 2017 | May 22, 2018 | Jun. 15, 2018 | Radiation (03CH01-SZ) |
| LF Amplifier | Burgeon | BPA-530 | 102209 | 0.01~3000Mhz | Apr. 19, 2018 | May 22, 2018 | Apr. 18, 2019 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | AMF-7D-00 101800-30-1 | 1707137 | 1GHz~18GHz | Oct. 19, 2017 | May 22, 2018 | Oct. 18, 2018 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | TTA1840-35 -HG | 1871923 | 18GHz~40GHz | Jul. 18, 2017 | May 22, 2018 | Jul. 17, 2018 | Radiation (03CH01-SZ) |
| AC Power Source | Chroma | 61601 | 61601000198 5 | N/A | NCR | May 22, 2018 | NCR | Radiation (03CH01-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | May 22, 2018 | NCR | Radiation (03CH01-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | May 22, 2018 | NCR | Radiation (03CH01-SZ) |

NCR: No Calibration Required

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6 Uncertainty of Evaluation

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

| Measuring Uncertainty for a Level of | 2.5dB |
|--------------------------------------|-------|
| Confidence of 95% (U = 2Uc(y)) | 2.306 |

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

| | - |
|--------------------------------------|-------|
| Measuring Uncertainty for a Level of | 3.5dB |
| Confidence of 95% (U = 2Uc(y)) | 3.3UB |

<u>Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)</u>

| Measuring Uncertainty for a Level of | 4.040 |
|--------------------------------------|-------|
| Confidence of 95% (U = 2Uc(y)) | 4.0dB |

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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 | 33.02 | <mark>33.15</mark> | 33.09 | 29.98 | 30.15 | <mark>30.24</mark> |
| GPRS class 8 | 33.01 | 33.13 | 33.08 | 29.97 | 30.13 | 30.23 |
| GPRS class 10 | 31.00 | 31.11 | 31.05 | 27.29 | 27.50 | 27.66 |
| GPRS class 11 | 29.45 | 29.55 | 29.48 | 25.74 | 25.95 | 26.11 |
| GPRS class 12 | 28.06 | 28.19 | 28.16 | 24.17 | 24.37 | 24.52 |
| EGPRS class 8 | 26.85 | 27.09 | 27.16 | 26.15 | 26.28 | 26.58 |
| EGPRS class 10 | 25.79 | 26.02 | 26.08 | 25.16 | 25.30 | 25.54 |
| EGPRS class 11 | 23.67 | 23.91 | 24.01 | 23.07 | 23.23 | 23.55 |
| EGPRS class 12 | 22.63 | 22.79 | 22.96 | 21.94 | 22.14 | 22.39 |

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------------|-------|-------|--------------------|-------|--------|
| Band | WCDMA Band V | | | WCDMA Band II | | |
| Channel | 4132 | 4182 | 4233 | 9262 | 9400 | 9538 |
| Frequency | 826.4 | 836.4 | 846.6 | 1852.4 | 1880 | 1907.6 |
| AMR 12.2K | 23.75 | 23.70 | 23.70 | 23.34 | 23.20 | 23.20 |
| RMC 12.2K | <mark>23.76</mark> | 23.70 | 23.72 | <mark>23.35</mark> | 23.31 | 23.32 |
| HSDPA Subtest-1 | 22.57 | 22.49 | 22.52 | 22.27 | 22.23 | 22.22 |
| HSDPA Subtest-2 | 22.50 | 22.36 | 22.44 | 22.22 | 22.17 | 22.09 |
| HSDPA Subtest-3 | 21.97 | 21.89 | 21.89 | 21.69 | 21.63 | 21.58 |
| HSDPA Subtest-4 | 21.99 | 21.87 | 21.89 | 21.69 | 21.58 | 21.57 |
| DC-HSDPA Subtest-1 | 22.10 | 21.98 | 22.01 | 21.79 | 21.77 | 21.86 |
| DC-HSDPA Subtest-2 | 22.08 | 21.96 | 21.96 | 21.76 | 21.76 | 21.86 |
| DC-HSDPA Subtest-3 | 21.59 | 21.35 | 21.45 | 21.15 | 21.10 | 21.26 |
| DC-HSDPA Subtest-4 | 21.56 | 21.36 | 21.43 | 21.10 | 21.09 | 21.23 |
| HSUPA Subtest-1 | 20.56 | 20.43 | 20.48 | 20.29 | 20.28 | 20.21 |
| HSUPA Subtest-2 | 20.58 | 20.51 | 20.35 | 20.27 | 20.28 | 20.19 |
| HSUPA Subtest-3 | 21.55 | 21.49 | 21.46 | 21.28 | 21.25 | 21.25 |
| HSUPA Subtest-4 | 20.03 | 19.92 | 19.90 | 19.75 | 19.73 | 19.67 |
| HSUPA Subtest-5 | 21.50 | 21.40 | 21.40 | 21.20 | 21.20 | 21.20 |
| HSPA+ (16QAM) Subtest-1 | 19.86 | 20.05 | 19.76 | 19.68 | 19.86 | 19.92 |

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ERP/EIRP

| GSM850 (G _T - L _C = -1.67 dBi) | | | | |
|------------------------------------------------------|--------|--------|--------|--|
| Channel | 128 | 189 | 251 | |
| | (Low) | (Mid) | (High) | |
| Frequency | 024.2 | 200.4 | 040.0 | |
| (MHz) | 824.2 | 836.4 | 848.8 | |
| Conducted Power (dBm) | 33.02 | 33.15 | 33.09 | |
| Conducted Power (Watts) | 2.0045 | 2.0654 | 2.0370 | |
| ERP(dBm) | 29.20 | 29.33 | 29.27 | |
| ERP(Watts) | 0.8318 | 0.8570 | 0.8453 | |

| EDGE850 (G _T - L _C = -1.67 dBi) | | | | |
|-------------------------------------------------------|--------|--------|--------|--|
| <u>.</u> | 128 | 189 | 251 | |
| Channel | (Low) | (Mid) | (High) | |
| Frequency | 004.0 | | 0.40 | |
| (MHz) | 824.2 | 836.4 | 848.8 | |
| Conducted Power (dBm) | 26.85 | 27.09 | 27.16 | |
| Conducted Power (Watts) | 0.4842 | 0.5117 | 0.5200 | |
| ERP(dBm) | 23.03 | 23.27 | 23.34 | |
| ERP(Watts) | 0.2009 | 0.2123 | 0.2158 | |

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| GSM1900 (G _T - L _C = -0.19 dBi) | | | | | |
|-------------------------------------------------------|--------|--------|--------|--|--|
| <u>.</u> . | 512 | 661 | 810 | | |
| Channel | (Low) | (Mid) | (High) | | |
| Frequency | 4050.0 | | 4000.0 | | |
| (MHz) | 1850.2 | 1880 | 1909.8 | | |
| Conducted Power (dBm) | 29.98 | 30.15 | 30.24 | | |
| Conducted Power (Watts) | 0.9954 | 1.0351 | 1.0568 | | |
| EIRP(dBm) | 29.79 | 29.96 | 30.05 | | |
| EIRP(Watts) | 0.9528 | 0.9908 | 1.0116 | | |

| EDGE1900 (G _T - L _C = -0.19 dBi) | | | | |
|--------------------------------------------------------|--------|--------|--------|--|
| Channel | 512 | 661 | 810 | |
| Channel | (Low) | (Mid) | (High) | |
| Frequency | 4050.2 | | 1909.8 | |
| (MHz) | 1850.2 | 1880 | | |
| Conducted Power (dBm) | 26.15 | 26.28 | 26.58 | |
| Conducted Power (Watts) | 0.4121 | 0.4246 | 0.4550 | |
| EIRP(dBm) | 25.96 | 26.09 | 26.39 | |
| EIRP(Watts) | 0.3945 | 0.4064 | 0.4355 | |

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| WCDMA Band V (G _T - L _C = -1.67 dBi) | | | | |
|------------------------------------------------------------|--------|--------|--------|--|
| Channel | 4132 | 4182 | 4233 | |
| | (Low) | (Mid) | (High) | |
| Frequency | 000.4 | | 040.0 | |
| (MHz) | 826.4 | 836.4 | 846.6 | |
| Conducted Power (dBm) | 23.76 | 23.70 | 23.72 | |
| Conducted Power (Watts) | 0.2377 | 0.2344 | 0.2355 | |
| ERP(dBm) | 19.94 | 19.88 | 19.90 | |
| ERP(Watts) | 0.0986 | 0.0973 | 0.0977 | |

| WCDMA Band II (G _T - L _C = -0.19dBi) | | | | |
|------------------------------------------------------------|--------|--------|--------|--|
| Channel | 9262 | 9400 | 9538 | |
| | (Low) | (Mid) | (High) | |
| Frequency | 4050.4 | | 4007.0 | |
| (MHz) | 1852.4 | 1880 | 1907.6 | |
| Conducted Power (dBm) | 23.35 | 23.31 | 23.32 | |
| Conducted Power (Watts) | 0.2163 | 0.2143 | 0.2148 | |
| EIRP(dBm) | 23.16 | 23.12 | 23.13 | |
| EIRP(Watts) | 0.2070 | 0.2051 | 0.2056 | |

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Peak-to-Average Ratio

| Mode | GSM850(dB) | | Limit: 13dB |
|------------|------------|--------------|-------------|
| Mod. | GSM | EDGE class 8 | Result |
| Lowest CH | 0.14 | 3.54 | |
| Middle CH | 0.12 | 3.25 | PASS |
| Highest CH | 0.20 | 3.33 | |

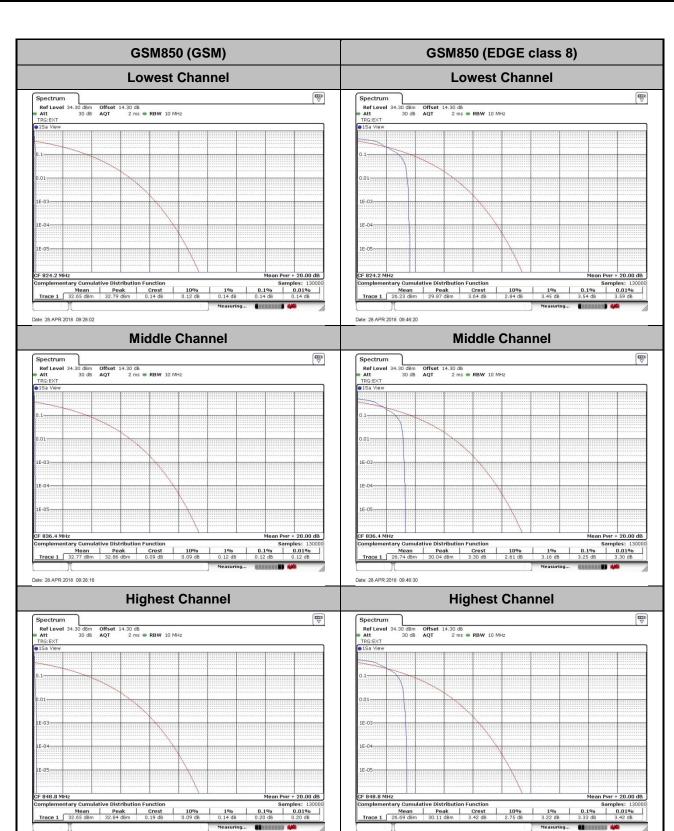
| Mode | GSM1900(dB) | | Limit: 13dB |
|------------|-------------|--------------|-------------|
| Mod. | GSM | EDGE class 8 | Result |
| Lowest CH | 0.12 | 3.36 | |
| Middle CH | 0.12 | 3.28 | PASS |
| Highest CH | 0.17 | 3.25 | |

| Mode | WCDMA Band V(dB) | WCDMA Band II(dB) | Limit: 13dB |
|------------|------------------|-------------------|-------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps | Result |
| Lowest CH | 2.81 | 3.30 | |
| Middle CH | 2.87 | 3.16 | PASS |
| Highest CH | 2.64 | 3.19 | |

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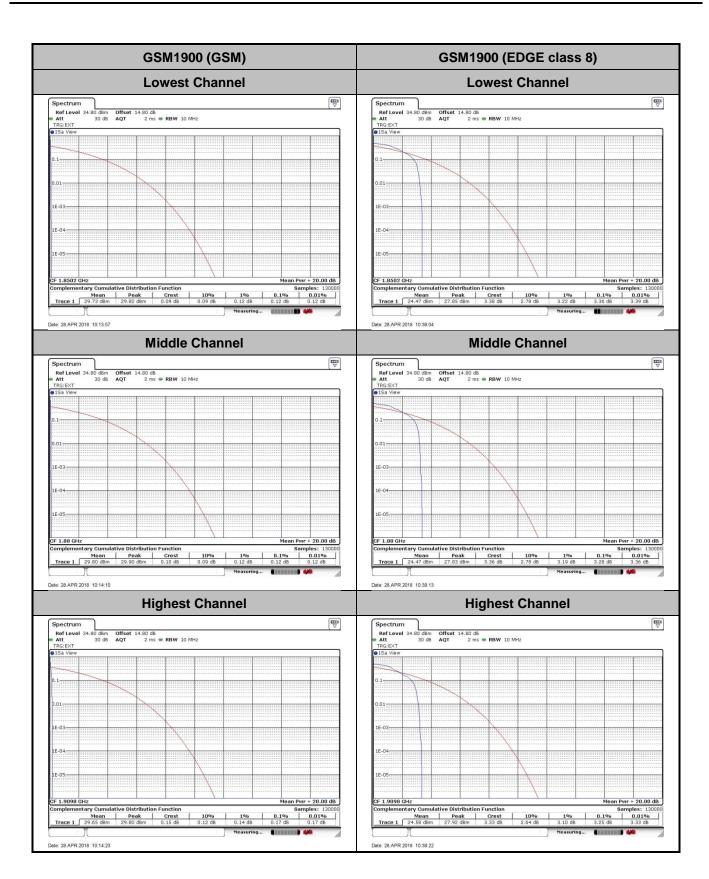
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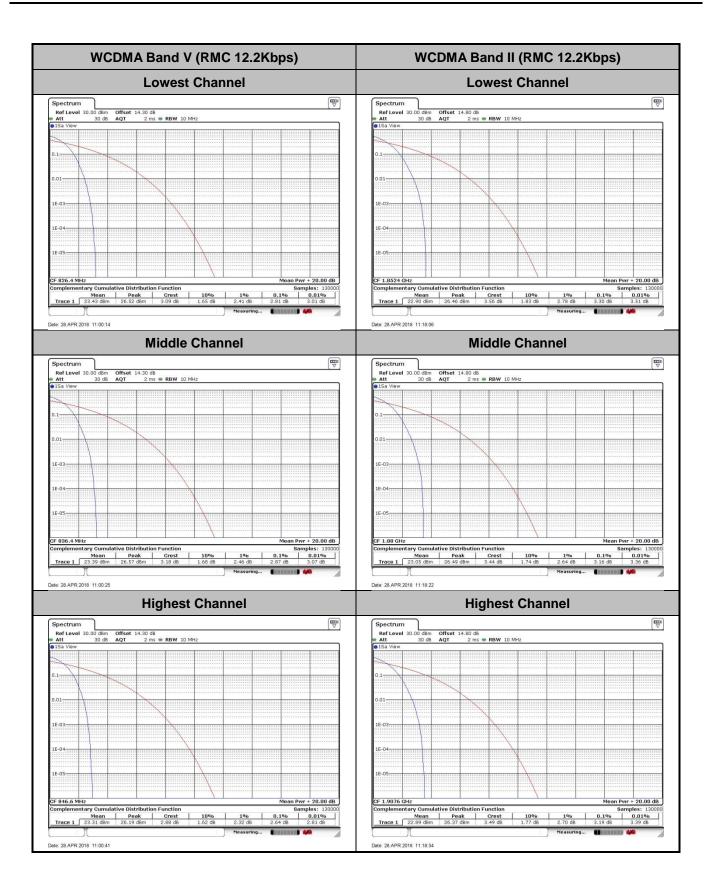
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26dB Bandwidth

| Mode | GSM850(MHz) | |
|------------|-------------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.317 | 0.313 |
| Middle CH | 0.318 | 0.315 |
| Highest CH | 0.318 | 0.31 |

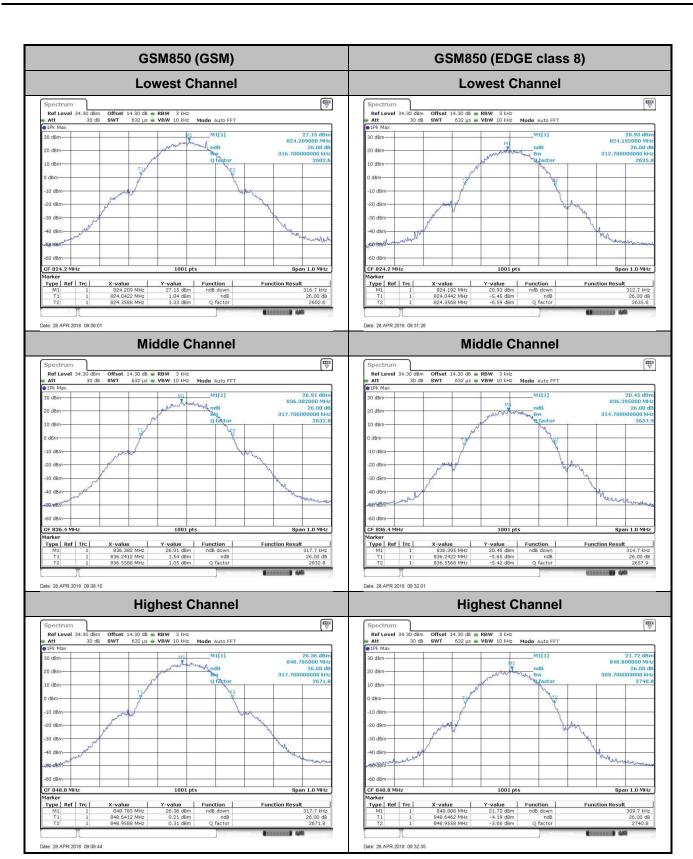
| Mode | GSM1900(MHz) | |
|------------|--------------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.317 | 0.317 |
| Middle CH | 0.316 | 0.314 |
| Highest CH | 0.317 | 0.314 |

| Mode | WCDMA Band V(MHz) | WCDMA Band II(MHz) |
|------------|-------------------|--------------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps |
| Lowest CH | 4.705 | 4.695 |
| Middle CH | 4.705 | 4.695 |
| Highest CH | 4.725 | 4.685 |

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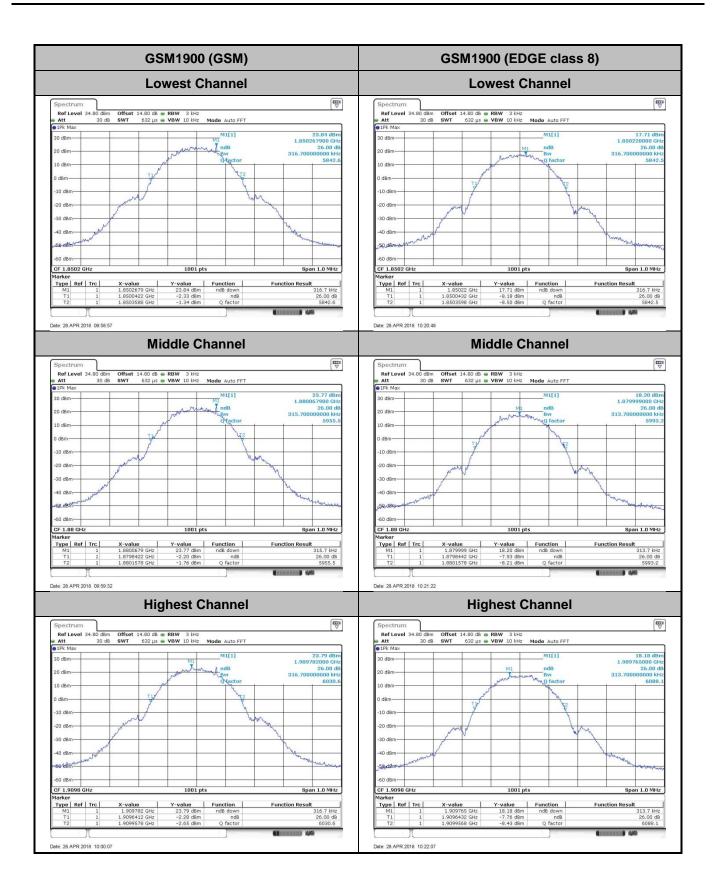
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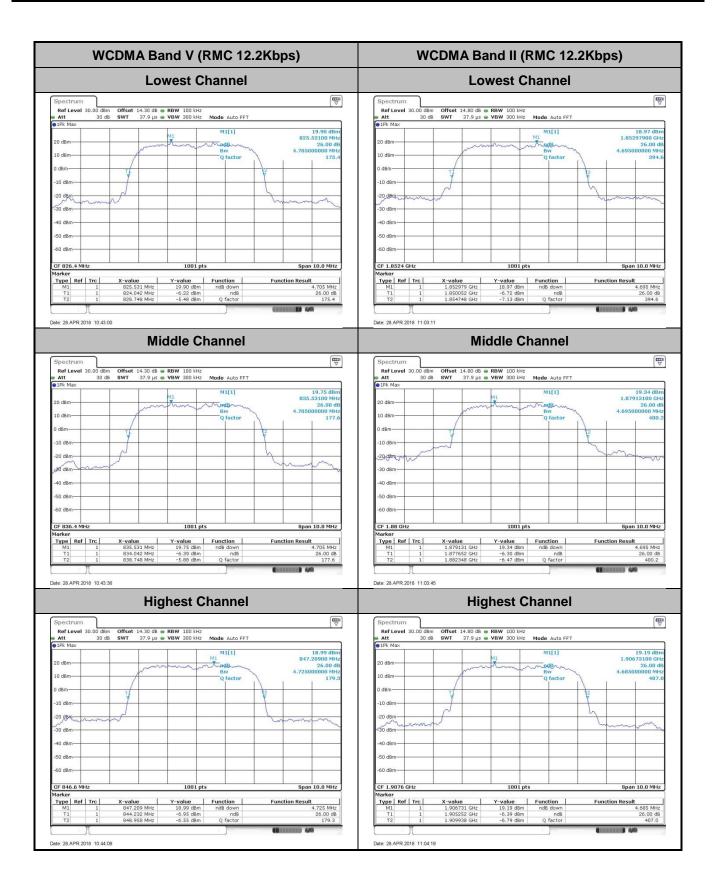


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Occupied Bandwidth

| Mode | GSM850(MHz) | |
|------------|-------------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.244 | 0.244 |
| Middle CH | 0.244 | 0.249 |
| Highest CH | 0.243 | 0.248 |

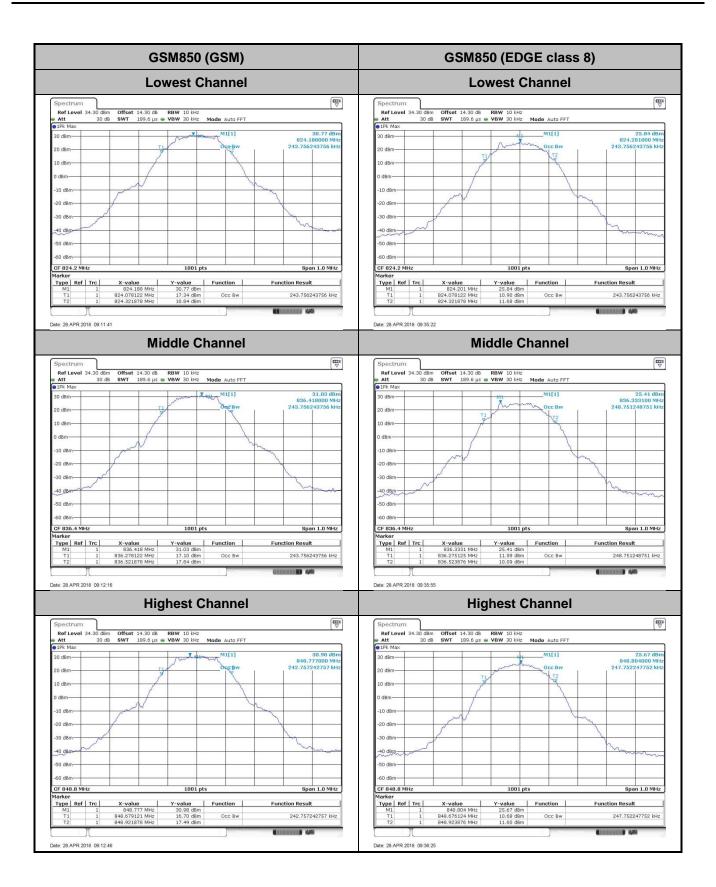
| Mode | GSM1900(MHz) | |
|------------|--------------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.244 | 0.247 |
| Middle CH | 0.244 | 0.247 |
| Highest CH | 0.242 | 0.244 |

| Mode | WCDMA Band V(MHz) | WCDMA Band II(MHz) |
|------------|-------------------|--------------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps |
| Lowest CH | 4.176 | 4.176 |
| Middle CH | 4.166 | 4.166 |
| Highest CH | 4.166 | 4.156 |

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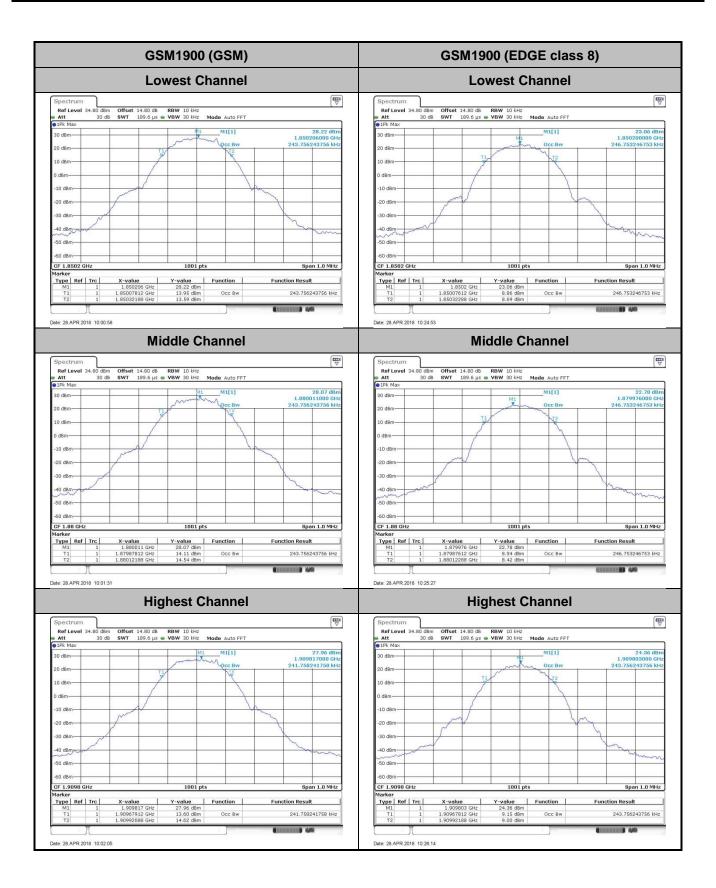


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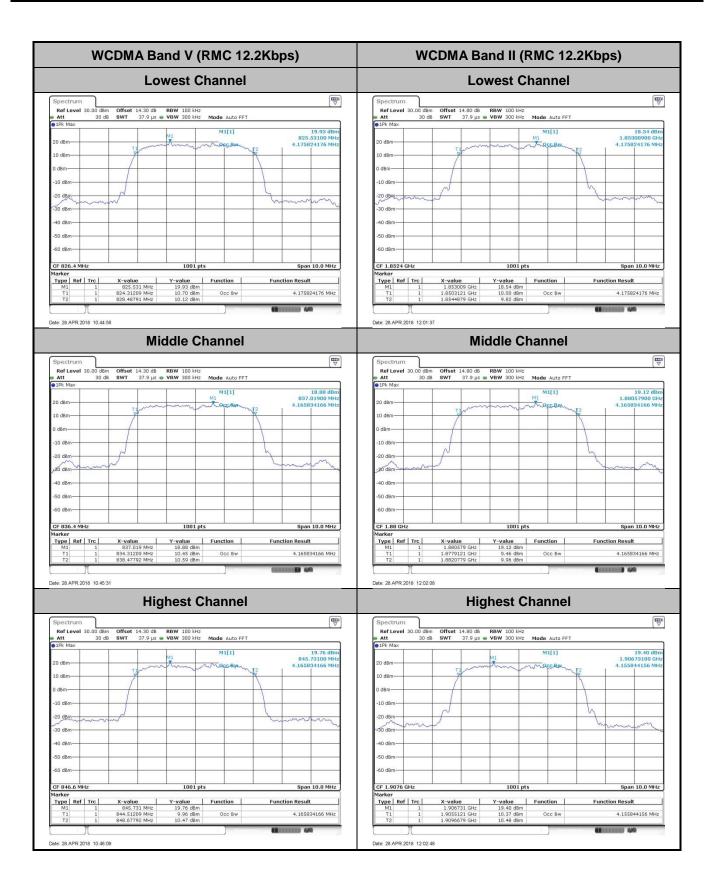
FCC RF Test Report



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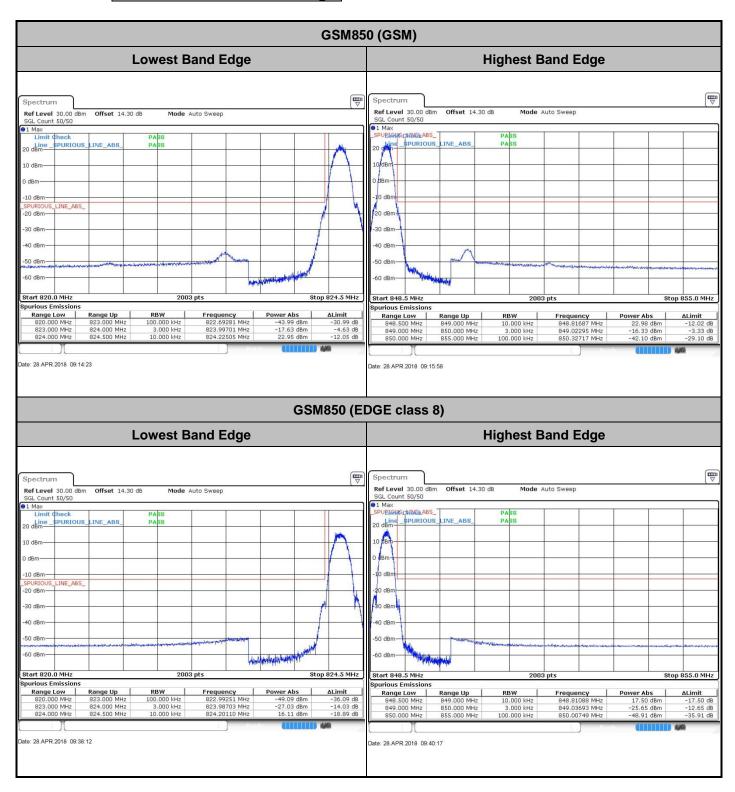
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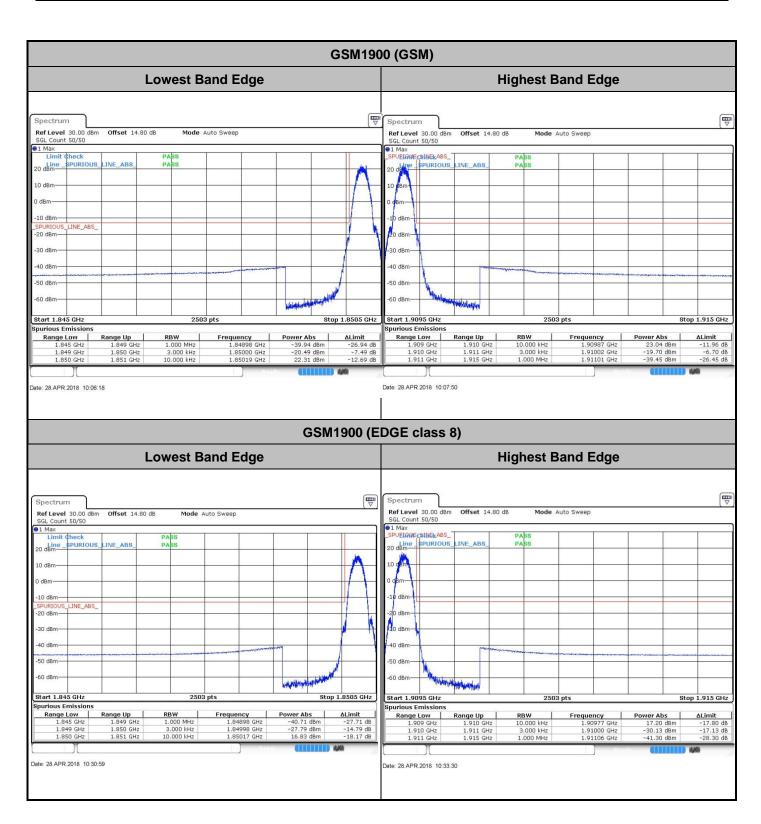
Conducted Band Edge



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