

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358 Web: www.mrt-cert.com Report No.: 2203RSU045-U6 Report Version: V01 Issue Date: 06-16-2022

RF SPOT CHECK REPORT

FCC ID: XMR2022EM060KGL

Application: Quectel Wireless Solutions Company Limited

Product: LTE-A Cat 6 M.2 Module

Model No.: EM060K-GL

Brand Name: Quectel

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): Part 2, 22 (H), 24 (E), 27

Result: Complies

Test Date: 2022-03-22 ~ 2022-04-23

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



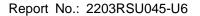


The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Template Version:0.0 1 of 26





Revision History

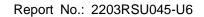
| Report No. | Version | Description | Issue Date | Note |
|---------------|---------|----------------|------------|-------|
| 2203RSU045-U6 | Rev. 01 | Initial Report | 06-16-2022 | Valid |
| | | | | |

Note: EM060K-GL and EM120K-GL support the same bands, use the same chips, share the same software and hardware design, and the differences are category and DL MIMO. This report is based on FCC ID "XMR2022EM120KGL" to spot check EIRP, Band Edge, Conducted Spurious Emission test items.



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1. General Information

1.1. Applicant

Quectel Wireless Solutions Company Limited

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

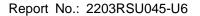
1.2. Manufacturer

Quectel Wireless Solutions Company Limited

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.3. Testing Facility

| \boxtimes | Test Site - MRT | Test Site - MRT Suzhou Laboratory | | | | | | |
|-------------|--|-----------------------------------|--------------------|---------------------|-------------------------|--|--|--|
| | Laboratory Loca | ation (Suzhou - Wu | ızhong) | | | | | |
| | D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China | | | | | | | |
| | Laboratory Location (Suzhou - SIP) | | | | | | | |
| | 4b Building, Liand | do U Valley, No.200 | Xingpu Rd., Shengp | u Town, Suzhou Indu | strial Park, China | | | |
| | Laboratory Acci | reditations | | | | | | |
| | A2LA: 3628.01 | | CNAS | S: L10551 | | | | |
| | FCC: CN1166 | | ISED: | : CN0001 | | | | |
| | VCCI: | □R-20025 | □G-20034 | □C-20020 | □T-20020 | | | |
| | VCCI. | □R-20141 | □G-20134 | □C-20103 | □T-20104 | | | |
| | Test Site - MRT | Shenzhen Laborat | ory | | | | | |
| | Laboratory Loca | ation (Shenzhen) | | | | | | |
| | 1G, Building A, J | unxiangda Building, | Zhongshanyuan Roa | ad West, Nanshan Di | strict, Shenzhen, China | | | |
| | Laboratory Acci | reditations | | | | | | |
| | A2LA: 3628.02 | | CNAS | i: L10551 | | | | |
| | FCC: CN1284 | | ISED: | CN0105 | | | | |
| | Test Site - MRT | Taiwan Laboratory | , | | | | | |
| | Laboratory Loca | ation (Taiwan) | | | | | | |
| | No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) | | | | | | | |
| | Laboratory Acci | reditations | | | | | | |
| | TAF: L3261-1907 | '25 | | | | | | |
| | FCC: 291082, TV | V3261 | ISED: | TW3261 | | | | |





1.4. Product Information

| Product Name | LTE-A Cat 6 M.2 Module | | |
|------------------------|--|--|--|
| Model No. | EM060K-GL | | |
| Brand Name | Quectel | | |
| IMEI | 867228050008597 | | |
| UTRA Specification | Band 2, 4, 5 | | |
| E-UTRA Specification | FDD Band: 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 66, 71 | | |
| | TDD Band: 38, 41, 46 | | |
| GNSS Specification | GPS, GLONASS, Bei Dou, Galileo | | |
| Supply Voltage | 3.135 ~ 4.4Vdc, typical 3.7Vdc | | |
| Operating Temperature: | -25 ~ 75 °C | | |
| D 1 TI 1 (11 (FUT | | | |

Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

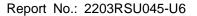
1.5. Product Specification under Test

| UTRA Specification | | | | | |
|------------------------|--|--|--|--|--|
| Single Band | Band 2, 4, 5 | | | | |
| Modulation | UL up to 16QAM, DL up to 64QAM | | | | |
| FDD Tx Frequency Range | Band II: 1850 ~ 1910MHz, Band IV: 1710 ~ 1755MHz | | | | |
| | Band V: 824 ~ 849MHz | | | | |
| FDD Rx Frequency Range | Band II: 1930 ~ 1990MHz, Band IV: 2110 ~ 2155MHz | | | | |
| | Band V: 869 ~ 894MHz | | | | |

1.6. Description of Available Antennas

| Technology | Frequency Range (MHz) | Antenna Type | Max Peak Gain (dBi) | |
|---------------|-----------------------|--------------|---------------------|--|
| WCDMA Band II | 1850 ~ 1910 | | 0.25 | |
| WCDMA Band IV | 1710 ~ 1755 | Dipole | 1.47 | |
| WCDMA Band V | 824 ~ 849 | | 2.68 | |

Note: The typical antennas use to calculate the ERP (EIRP).



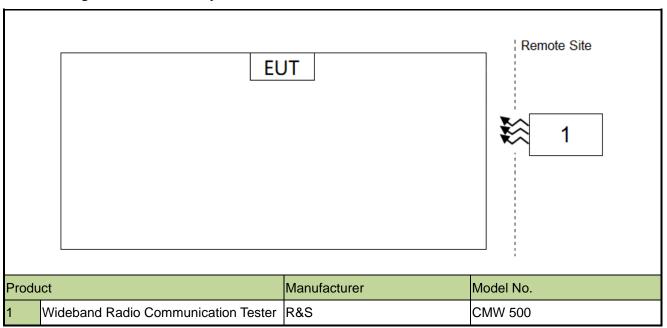


1.7. Test Methodology

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

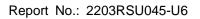
- ANSI C63.26:2015
- FCC CFR 47 Part 22, Part 24, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

1.8. Configuration of Tested System



1.9. Test Environment Condition

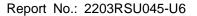
| Ambient Temperature | 15 ~ 35°C |
|---------------------|-------------|
| Relative Humidity | 20% ~ 75%RH |





2. Test Equipment Calibration Date

| Instrument | Manufacturer | Model No. | Asset No. | Last Cali. Date | Cali. Due Date | Test Site |
|----------------------------------|--------------|---------------|-------------|-----------------|----------------|-----------|
| Thermohygrometer | testo | 608-H1 | MRTSUE06362 | 1 year | 2023/2/15 | WZ-SR6 |
| Shielding Room | HUAMING | WZ-SR6 | MRTSUE06443 | / | / | WZ-SR6 |
| Signal Analyzer | Keysight | N9020B | MRTSUE06583 | 1 year | 2022/10/10 | WZ-SR6 |
| Signal Generator | Keysight | N5173B | MRTSUE06606 | 1 year | 2022/11/29 | WZ-SR6 |
| Radio Communication Analyzer | Anritsu | MT8821C | MRTSUE06960 | 1 year | 2022/7/1 | WZ-SR6 |
| Radio Communication Test Station | Anritsu | MT8000A | MRTSUE06961 | 1 year | 2022/7/1 | WZ-SR6 |
| Signal Analyzer | Keysight | N9010B | MRTSUE07028 | 1 year | 2022/12/9 | SIP-SR1 |
| Attenuator | SHX | SMA10-3dB-18G | MRTSUE06695 | 1 year | 2023-03-02 | WZ |
| Directional Coupler | narda | 4226-20 | MRTSUE06065 | 1 year | 2023-03-17 | WZ |
| Directional Coupler | Agilent | 87301D | MRTSUE06082 | 1 year | 2023-03-07 | WZ |





3. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Conducted Spurious Emissions

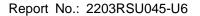
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.78dB

Output Power

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

1.13dB





4. Test Result

4.1. Summary

| FCC Part Section(s) | Test Description | Test Condition | Verdict | |
|---------------------------|-------------------------------------|----------------|---------|--|
| 22.913(a)(5), 27.50(d)(4) | Equivalent Radiated Power, | | Pass | |
| 24.232(c) | Equivalent Isotropic Radiated Power | | | |
| 2.1051, 22.917(a) | Dond Edge | Conducted | Pass | |
| 24.238(a), 27.53(h) | Band Edge | Conducted | Fd55 | |
| 2.1051, 22.917(a) | Courious Emission | | Door | |
| 24.238(a), 27.53(h) | Spurious Emission | | Pass | |

Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- All supported modulation types were evaluated. The worst-case emission of modulation was selected.
 Therefore, the Channel Band Edge, Conducted Spurious Emission were presented worst-case in the test report.



4.2. Equivalent Isotropically Radiated Power Measurement

4.2.1. Test Limit

Band 2:

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

Band 4:

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Band 5:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

4.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.2

4.2.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

ERP or EIRP = PMeas + GT

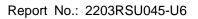
where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

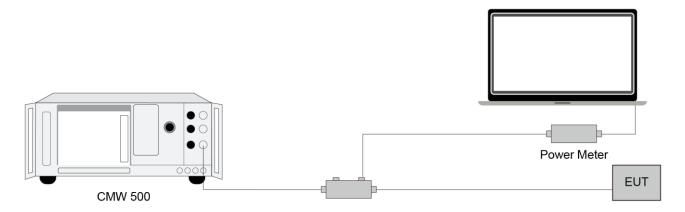
G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

ERP = EIRP -2.15





4.2.4. Test Setup



4.2.5. Test Result

Refer to Appendix A.3.



4.3. Band Edge Measurement

4.3.1. Test Limit

For operations in the 824 ~ 849 MHz, 1850 ~ 1910 MHz and 1710 ~ 1755 MHz, the FCC limit is 43 + 10log10(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.

4.3.2. Test Procedure

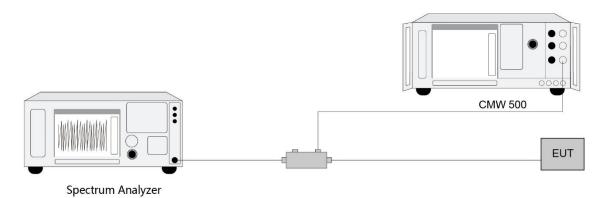
ANSI C63.26-2015 - Section 5.7

4.3.3. Test Setting

- 1. Set the analyzer frequency to low or high channel
- 2. RBW ≥ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
- 3. VBW ≥ 3*RBW
- 4. Sweep time = auto
- 5. Detector = power averaging (rms)
- 6. Set sweep trigger to "free run."
- 7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
- 8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.



4.3.4. Test Setup



4.3.5. Test Result

Refer to Appendix A.4.



4.4. Conducted Spurious Emissions Measurement

4.4.1. Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the Low frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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

4.4.2. Test Procedure

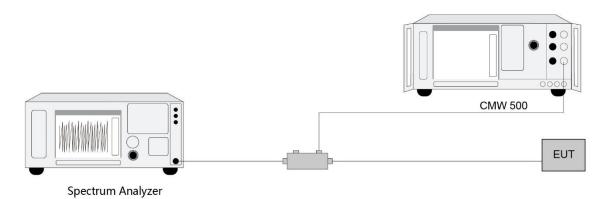
ANSI C63.26-2015 - Section 5.7

4.4.3. Test Setting

- 1. Set the analyzer frequency to low, mid, high channel.
- 2. RBW = 1MHz
- 3. VBW ≥ 3*RBW
- 4. Sweep time = auto
- 5. Detector = power averaging (rms)
- 6. Set sweep trigger to "free run."
- 7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
- 8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

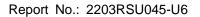


4.4.4. Test Setup



4.4.5. Test Result

Refer to Appendix A.6.





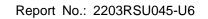
Appendix A - Test Result

A.1 Equivalent Isotropically Radiated Power Test Result

| Test Site | WZ-SR6 | Test Engineer | Caitlin Chen |
|-----------|-------------------------|---------------|---------------|
| Test Date | 2022/03/21 ~ 2022/04/16 | Test Band | WCDMA Band II |

| Mode | 3GPP | Conducted Power (dBm) | | Antenna | | EIRP (dBm) | | |
|-----------|----------|-----------------------|--------------|---------|-------|-----------------|-------|-------|
| | Subtest | Ba | and II Chani | nel | Gain | Band II Channel | | nel |
| | | 9262 | 9400 | 9538 | (dBi) | 9262 | 9400 | 9538 |
| WCDMA R99 | 1 | 23.23 | 23.11 | 23.10 | 0.25 | 23.48 | 23.36 | 23.35 |
| | 1 | 22.16 | 22.18 | 22.12 | 0.25 | 22.41 | 22.43 | 22.37 |
| HSDPA | 2 | 22.10 | 22.15 | 22.13 | 0.25 | 22.35 | 22.40 | 22.38 |
| HODEA | 3 | 21.64 | 21.63 | 21.64 | 0.25 | 21.89 | 21.88 | 21.89 |
| | 4 | 21.58 | 21.64 | 21.63 | 0.25 | 21.83 | 21.89 | 21.88 |
| | 1 | 22.07 | 22.17 | 22.05 | 0.25 | 22.32 | 22.42 | 22.30 |
| | 2 | 20.14 | 20.15 | 20.11 | 0.25 | 20.39 | 20.40 | 20.36 |
| HSUPA | 3 | 21.09 | 21.13 | 21.09 | 0.25 | 21.34 | 21.38 | 21.34 |
| | 4 | 20.11 | 20.18 | 20.10 | 0.25 | 20.36 | 20.43 | 20.35 |
| | 5 | 21.93 | 21.82 | 21.93 | 0.25 | 22.18 | 22.07 | 22.18 |
| Limit | 33.01dBm | | | | | | | |

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

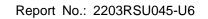




| Test Site | WZ-SR6 | Test Engineer | Caitlin Chen | |
|-----------|-------------------------|---------------|---------------|--|
| Test Date | 2022/03/21 ~ 2022/04/16 | Test Band | WCDMA Band IV | |

| Mode | 3GPP | Conducted Power (dBm) | | | Antenna | | EIRP (dBm) | | |
|-----------|----------|-----------------------|-------|-------|-----------------|-------|------------|-------|--|
| | Subtest | Band IV Channel | | Gain | Band IV Channel | | nel | | |
| | | 1312 | 1412 | 1513 | (dBi) | 1312 | 1412 | 1513 | |
| WCDMA R99 | 1 | 23.06 | 23.19 | 23.21 | 1.47 | 24.53 | 24.66 | 24.68 | |
| HSDPA | 1 | 22.08 | 22.18 | 22.18 | 1.47 | 23.55 | 23.65 | 23.65 | |
| | 2 | 22.07 | 22.08 | 22.15 | 1.47 | 23.54 | 23.55 | 23.62 | |
| | 3 | 21.56 | 21.66 | 21.67 | 1.47 | 23.03 | 23.13 | 23.14 | |
| | 4 | 21.59 | 21.65 | 21.67 | 1.47 | 23.06 | 23.12 | 23.14 | |
| HSUPA | 1 | 22.05 | 22.18 | 22.15 | 1.47 | 23.52 | 23.65 | 23.62 | |
| | 2 | 20.10 | 20.15 | 20.13 | 1.47 | 21.57 | 21.62 | 21.60 | |
| | 3 | 21.09 | 21.18 | 21.17 | 1.47 | 22.56 | 22.65 | 22.64 | |
| | 4 | 20.03 | 20.18 | 20.18 | 1.47 | 21.50 | 21.65 | 21.65 | |
| | 5 | 21.91 | 22.04 | 22.05 | 1.47 | 23.38 | 23.51 | 23.52 | |
| Limit | 30.00dBm | | | | | | | | |

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

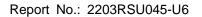




| Test Site | WZ-SR6 | Test Engineer | Caitlin Chen | |
|-----------|-------------------------|---------------|--------------|--|
| Test Date | 2022/03/21 ~ 2022/04/16 | Test Band | WCDMA Band V | |

| Mode | 3GPP | Conducted Power (dBm) | | | Antenna | ERP (dBm) | | |
|-----------|----------|-----------------------|-------|-------|----------------|-----------|-------|-------|
| | Subtest | Band V Channel | | Gain | Band V Channel | | nel | |
| | | 4132 | 4182 | 4233 | (dBi) | 4132 | 4182 | 4233 |
| WCDMA R99 | 1 | 23.14 | 23.33 | 23.26 | 2.68 | 23.67 | 23.86 | 23.79 |
| HSDPA | 1 | 22.23 | 22.29 | 22.26 | 2.68 | 22.76 | 22.82 | 22.79 |
| | 2 | 22.21 | 22.32 | 22.24 | 2.68 | 22.74 | 22.85 | 22.77 |
| | 3 | 21.70 | 21.82 | 21.72 | 2.68 | 22.23 | 22.35 | 22.25 |
| | 4 | 21.78 | 21.79 | 21.75 | 2.68 | 22.31 | 22.32 | 22.28 |
| HSUPA | 1 | 22.18 | 22.28 | 22.26 | 2.68 | 22.71 | 22.81 | 22.79 |
| | 2 | 20.24 | 20.36 | 20.28 | 2.68 | 20.77 | 20.89 | 20.81 |
| | 3 | 21.22 | 21.31 | 21.24 | 2.68 | 21.75 | 21.84 | 21.77 |
| | 4 | 20.25 | 20.33 | 20.28 | 2.68 | 20.78 | 20.86 | 20.81 |
| | 5 | 22.09 | 22.16 | 22.16 | 2.68 | 22.62 | 22.69 | 22.69 |
| Limit | 38.45dBm | | | | | | | |

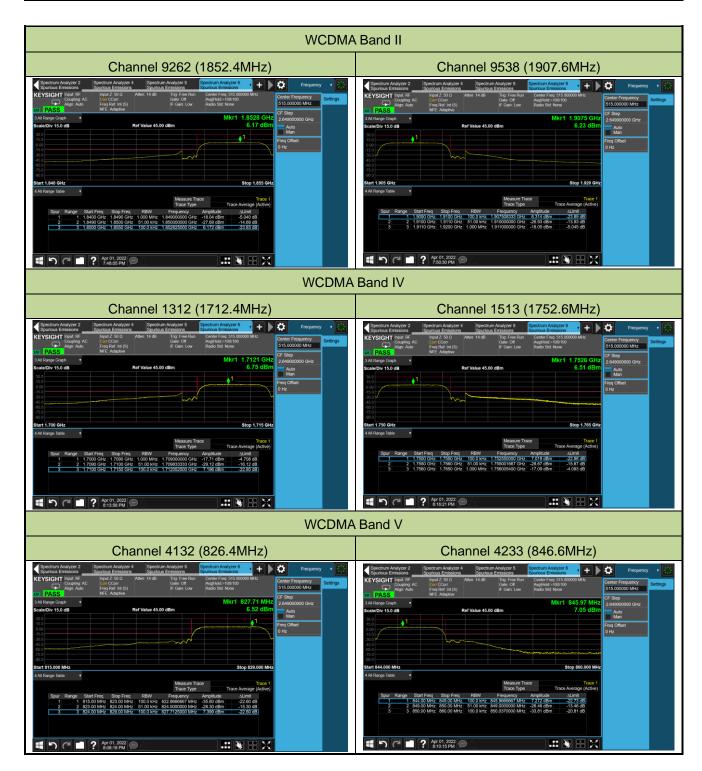
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

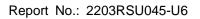




A.2 Band Edge Test Result

| Test Site | WZ-SR6 | Test Engineer | Caitlin Chen | |
|-----------|------------|---------------|----------------------|--|
| Test Date | 2022/04/01 | Test Band | WCDMA Band II, IV, V | |







A.3 Conducted Spurious Emissions Test Result

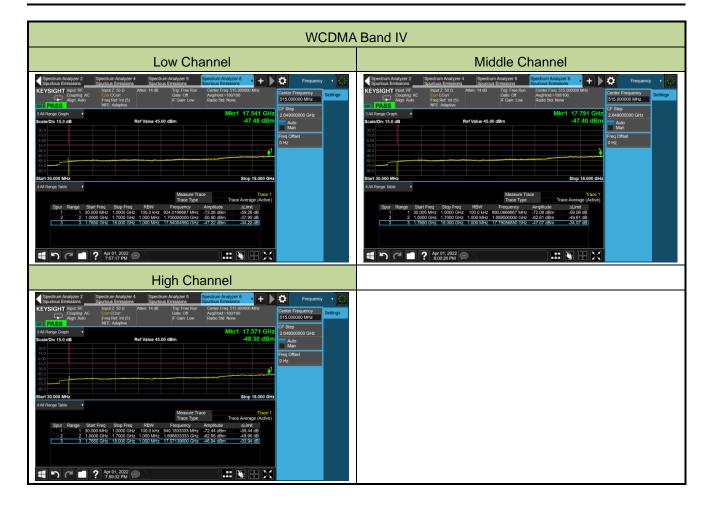
| Test Site | WZ-SR6 | Test Engineer | Caitlin Chen |
|-----------|------------|---------------|----------------------|
| Test Date | 2022/04/01 | Test Band | WCDMA Band II, IV, V |

| Mode | Frequency | Frequency Range | Max Spurious | Limit | Result |
|-----------------|-----------|-----------------|-----------------|----------|--------|
| | (MHz) | (MHz) | Emissions (dBm) | (dBm) | |
| WCDMA | 1852.4 | 30 ~ 20000 | -46.38 | ≤ -13.00 | Pass |
| | 1880.0 | 30 ~ 20000 | -46.76 | ≤ -13.00 | Pass |
| Band II | 1907.6 | 30 ~ 20000 | -47.10 | ≤ -13.00 | Pass |
| VALCEDAAA | 1712.4 | 30 ~ 20000 | -47.48 | ≤ -13.00 | Pass |
| WCDMA | 1732.4 | 30 ~ 20000 | -47.40 | ≤ -13.00 | Pass |
| Band IV | 1752.6 | 30 ~ 20000 | -48.30 | ≤ -13.00 | Pass |
| NA/CDAAA | 826.4 | 30 ~ 10000 | -53.07 | ≤ -13.00 | Pass |
| WCDMA Band V | 836.4 | 30 ~ 10000 | -52.19 | ≤ -13.00 | Pass |
| | 846.6 | 30 ~ 10000 | -52.76 | ≤ -13.00 | Pass |

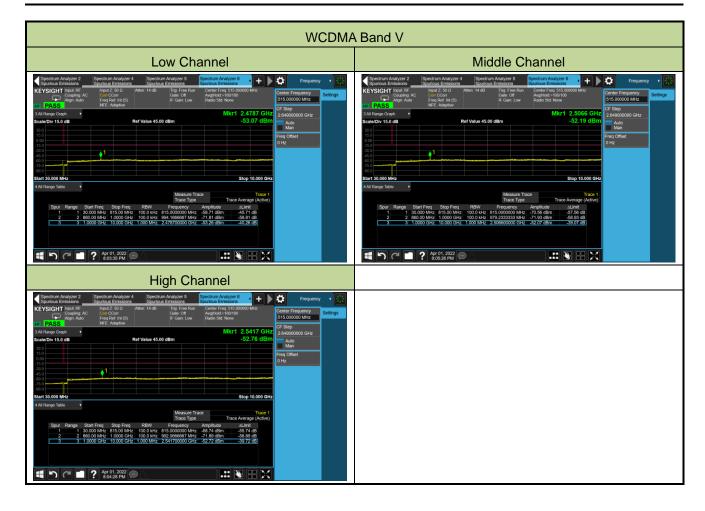


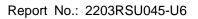














Appendix B - Test Setup Photograph

Refer to "2203RSU045-UT" file.



Appendix C - EUT Photograph

Refer to "2203RSU045-UE" file.