

# FCC RF Test Report

| APPLICANT      | : | Repairify, Inc.                |
|----------------|---|--------------------------------|
| EQUIPMENT      | : | Diagnostic Tool                |
| BRAND NAME     | : | asTech®                        |
| MODEL NAME     | : | AIO-5700-4G                    |
| FCC ID         | : | 2A8NIAAI14G                    |
| STANDARD       | : | 47 CFR Part 2, and 90(S)       |
| CLASSIFICATION | : | PCS Licensed Transmitter (PCB) |
| TEST DATE(S)   | : | Apr. 09, 2024 ~ Apr. 30, 2024  |

This product installed a RF module (Brand Name: Quectel, Model Name: SC668S-NA, FCC ID: XMR2022SC668SNA) during the test, only Conducted Power and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)** No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China



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# **REVISION HISTORY**

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE  |
|------------|---------|-------------------------|--------------|
| FG422003B  | Rev. 01 | Initial issue of report | May 28, 2024 |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
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|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |
|            |         |                         |              |



# SUMMARY OF TEST RESULT

| Report<br>Section | FCC Rule           | Description                                      | Limit                               | Result      | Remark                                    |
|-------------------|--------------------|--|-------------------------------------|-------------|---|
| 3.1               | §2.1046            | Conducted Output Power                           | _                                   | Report only | -   |
| -                 | §2.1049<br>§90.209 | Occupied Bandwidth and<br>26dB Bandwidth         | _                                   | Report only | 1   |
| -                 | §2.1051<br>§90.691 | Emission masks –<br>In-band emissions            | < 50+10log <sub>10</sub> (P[Watts]) | PASS        | 1   |
| -                 | §2.1051<br>§90.691 | Emission masks –<br>Out of band emissions        | < 43+10log <sub>10</sub> (P[Watts]) | PASS        | 1   |
| 3.2               | §2.1053<br>§90.691 | Field Strength of Spurious<br>Radiation          | < 43+10log <sub>10</sub> (P[Watts]) | PASS        | Under limit<br>47.40 dB at<br>2440.00 MHz |
| -                 | §2.1055<br>§90.213 | Frequency Stability for<br>Temperature & Voltage | < 2.5 ppm                           | PASS        | 1   |

Remark 1: The conducted test results were leveraged from module RF report which can refer to Report No. FG311713D.

#### **Conformity Assessment Condition:**

 The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# **1** General Description

### 1.1 Applicant

#### Repairify, Inc.

5700 Tennyson PKWY, STE 600, Plano, TX 75024

### **1.2 Manufacturer**

#### Launch Tech Co., Ltd.

Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Longgang, Shenzhen 518031

### **1.3 Feature of Equipment Under Test**

|            | Product Feature                     |
|------------|-------------------------------------|
| Equipment  | Diagnostic Tool                     |
| Brand Name | asTech®                             |
| Model Name | AIO-5700-4G                         |
| FCC ID     | 2A8NIAAI14G                         |
| IMEI Code  | 865696060076162/8669104028793748    |
| HW Version | V1.2                                |
| SW Version | SC668SNANAR02A05_BP01.001V02_QDM550 |
| 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.

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

| Product Specification subjective to this standard |                                      |  |  |  |  |  |
|---|--------------------------------------|--|--|--|--|--|
| Tx Frequency                                      | 814 ~ 824 MHz                        |  |  |  |  |  |
| Rx Frequency                                      | 859 ~ 869 MHz                        |  |  |  |  |  |
| Bandwidth   | 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz |  |  |  |  |  |
| Maximum Output Power to Antenna                   | 23.13 dBm                            |  |  |  |  |  |
| Antenna Gain                                      | 0.33 dBi                             |  |  |  |  |  |
| Type of Modulation                                | QPSK / 16QAM                         |  |  |  |  |  |

# **1.5 Modification of EUT**

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



# 1.6 Maximum Conducted Power

| Ľ           | TE Band 26                  | QP                                | SK                                 | 16QAM                             |                                    |  |  |
|-------------|-----------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|--|--|
| BW<br>(MHz) | Frequency<br>Range<br>(MHz) | Maximum<br>Conducted power<br>(W) | Emission<br>Designator<br>(99%OBW) | Maximum<br>Conducted power<br>(W) | Emission<br>Designator<br>(99%OBW) |  |  |
| 1.4         | 814.7 ~ 823.3               | 0.2023                            | -                                  | 0.1782                            | -                                  |  |  |
| 3           | 815.5 ~ 822.5               | 0.2056                            | -                                  | 0.1730                            | -                                  |  |  |
| 5           | 816.5 ~ 821.5               | 0.2051                            | -                                  | 0.1698                            | -                                  |  |  |
| 10          | 819.0                       | 0.2046                            | -                                  | 0.1782                            | -                                  |  |  |
| 15          | 824                         | 0.2032                            | -                                  | 0.1754                            | -                                  |  |  |

# 1.7 Testing Site

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

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

# 1.8 Test Software

| ltem | Site      | Manufacture | Name                                | Version |  |  |
|------|-----------|-------------|-------------------------------------|---------|--|--|
| 1.   | TH01-KS   |             | FCC LTE_Ver2.0<br>Auto_china_210503 | 2.0     |  |  |
| 2.   | 03CH04-KS | AUDIX       | E3                                  | 210616  |  |  |



### 1.9 Applied Standards

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

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

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



# 2 Test Configuration of Equipment Under Test

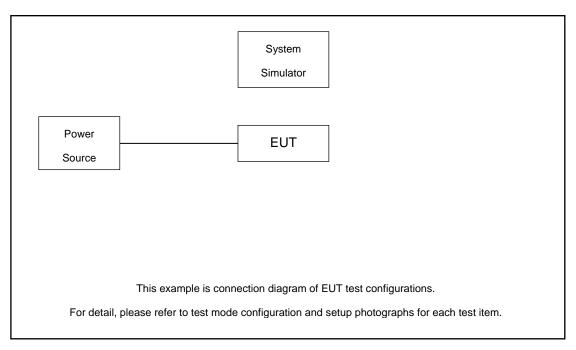
### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission. (Y-Plane)

|                               |   |     | Ва | ndwid | lth (MI | Hz) | Modulation |      |           | R         |            |   | RB # Test Channel |      | nel |   |   |
|-------------------------------|---|-----|----|-------|---------|-----|------------|------|-----------|-----------|------------|---|-------------------|------|-----|---|---|
| Test Items                    | Band  | 1.4 | 3  | 5     | 10      | 15  | 20         | QPSK | 16<br>QAM | 64<br>QAM | 256<br>QAM | 1 | Half              | Full | L   | М | н |
| Max. Output Power             | 26  | v   | v  | v     | v       | v   | -          | v    | v         | -         | -          | × |                   | v    | v   | v | v |
| Radiated Spurious<br>Emission | 26  |     |    |       | v       |     | -          | v    |           | -         | -          | v |                   |      |     | v |   |
|                               | <ol> <li>The mark "v " means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> </ol> |     |    |       |         |     |            |      |           |           |            |   |                   |      |     |   |   |

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

# 2.2 Connection Diagram of Test System





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

| ltem | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |

# 2.4 Frequency List of Low/Middle/High Channels

| LTE Band 26 Channel and Frequency List |                        |        |        |         |  |  |  |  |  |
|--|------------------------|--------|--------|---------|--|--|--|--|--|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |  |  |  |  |  |
| 10                                     | Channel                | -      | 26740  | -       |  |  |  |  |  |
| 10                                     | Frequency              | -      | 819    | -       |  |  |  |  |  |
| _                                      | Channel                | 26715  | 26740  | 26765   |  |  |  |  |  |
| 5                                      | Frequency              | 816.5  | 819    | 821.5   |  |  |  |  |  |
| 3                                      | Channel                | 26705  | 26740  | 26775   |  |  |  |  |  |
| 3                                      | Frequency              | 815.5  | 819    | 822.5   |  |  |  |  |  |
| 1.4                                    | Channel                | 26697  | 26740  | 26783   |  |  |  |  |  |
| 1.4                                    | Frequency              | 814.7  | 819    | 823.3   |  |  |  |  |  |

| LTE Band 26 Cross-rule Channel and Frequency List |                        |   |        |   |  |  |  |  |
|---|------------------------|---|--------|---|--|--|--|--|
| BW [MHz]  | Channel/Frequency(MHz) | - | Middle | - |  |  |  |  |
| 15  | Channel                | - | 26790  | - |  |  |  |  |
| 15  | Frequency              | - | 824    | - |  |  |  |  |
| 10  | Channel                | - | 26790  | - |  |  |  |  |
|   | Frequency              | - | 824    | - |  |  |  |  |
| _   | Channel                | - | 26790  | - |  |  |  |  |
| 5   | Frequency              | - | 824    | - |  |  |  |  |
| 3   | Channel                | - | 26790  | - |  |  |  |  |
| 3   | Frequency              | - | 824    | - |  |  |  |  |
| 1.4   | Channel                | - | 26790  | - |  |  |  |  |
|   | Frequency              | - | 824    | - |  |  |  |  |



# 3 Test Result

### 3.1 Conducted Output Power Measurement

#### 3.1.1 Description of the Conducted Output Power Measurement

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.

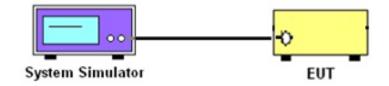
#### 3.1.2 Measuring Instruments

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

#### 3.1.3 Test Procedures

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

#### 3.1.4 Test Setup



#### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

### 3.2 Field Strength of Spurious Radiation Measurement

#### 3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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  $43+10\log_{10}(P[Watts])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.2.2 Measuring Instruments

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

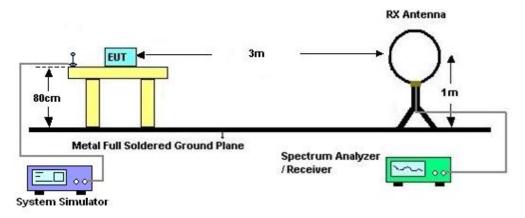
#### 3.2.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

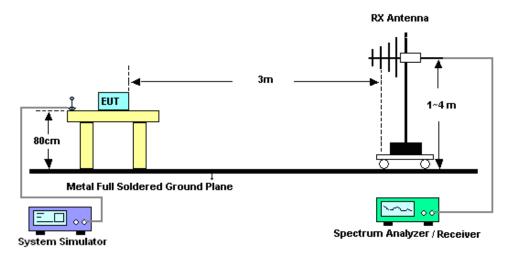


#### 3.2.4 Test Setup

#### For radiated test from 30MHz

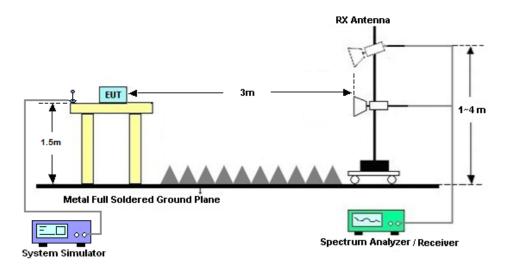


#### For radiated test from 30MHz to 1GHz





#### For radiated test above 1GHz



### 3.2.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



# 4 List of Measuring Equipment

| Instrument                   | Manufacturer | Model No.     | Serial No. | Characteristics      | Calibration<br>Date | Test Date     | Due Date      | Remark                   |
|------------------------------|--------------|---------------|------------|----------------------|---------------------|---------------|---------------|--------------------------|
| Spectrum<br>Analyzer         | R&S          | FSV40         | 101040     | 10Hz~40GHz           | Oct. 11, 2023       | Apr. 30, 2024 | Oct. 10, 2024 | Conducted<br>(TH01-KS)   |
| Power divider                | STI          | STI08-0055    | -          | 0.5~40GHz            | NCR                 | Apr. 30, 2024 | NCR           | Conducted<br>(TH01-KS)   |
| EXA Spectrum<br>Analyzer     | Keysight     | N9010B        | MY57471079 | 10Hz-44G,MAX<br>30dB | Oct. 10, 2023       | Apr. 09, 2024 | Oct. 09, 2024 | Radiation<br>(03CH04-KS) |
| Loop Antenna                 | R&S          | HFH2-Z2E      | 101125     | 9kHz~30MHz           | Sep. 11, 2023       | Apr. 09, 2024 | Sep. 10, 2024 | Radiation<br>(03CH04-KS) |
| Bilog Antenna                | TeseQ        | CBL6111D      | 59913      | 30MHz-1GHz           | Aug. 19, 2023       | Apr. 09, 2024 | Aug. 18, 2024 | Radiation<br>(03CH04-KS) |
| Double Ridge<br>Horn Antenna | ETS-Lindgren | 3117          | 00251694   | 1GHz~18GHz           | Jul. 12, 2023       | Apr. 09, 2024 | Jul. 11, 2024 | Radiation<br>(03CH04-KS) |
| Amplifier                    | SONOMA       | 310N          | 380827     | 9KHz-1GHz            | Jul. 06, 2023       | Apr. 09, 2024 | Jul. 05, 2024 | Radiation<br>(03CH04-KS) |
| high gain<br>Amplifier       | EM           | EM01G18G<br>A | 060840     | 1Ghz-18Ghz           | Oct. 10, 2023       | Apr. 09, 2024 | Oct. 09, 2024 | Radiation<br>(03CH04-KS) |
| Amplifier                    | Agilent      | 8449B         | 3008A02370 | 1Ghz-18Ghz           | Oct. 10, 2023       | Apr. 09, 2024 | Oct. 09, 2024 | Radiation<br>(03CH04-KS) |
| AC Power<br>Source           | Chroma       | 61601         | F104090004 | N/A                  | NCR                 | Apr. 09, 2024 | NCR           | Radiation<br>(03CH04-KS) |
| Turn Table                   | ChamPro      | EM 1000-T     | 060762-T   | 0~360 degree         | NCR                 | Apr. 09, 2024 | NCR           | Radiation<br>(03CH04-KS) |
| Antenna Mast                 | ChamPro      | EM 1000-A     | 060762-A   | 1 m~4 m              | NCR                 | Apr. 09, 2024 | NCR           | Radiation<br>(03CH04-KS) |

NCR: No Calibration Required



# **5** Measurement Uncertainty

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

#### **Uncertainty of Conducted Measurement**

| Test Item       | Uncertainty |  |  |
|-----------------|-------------|--|--|
| Conducted Power | ±0.46 dB    |  |  |

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

| Measuring Uncertainty for a Level of<br>Confidence of 95% (U = 2Uc(y)) | 3.82 dB |
|--|---------|
|--|---------|

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

| Measuring Uncertainty for a Level of | 3.56 dB |
|--------------------------------------|---------|
| Confidence of 95% (U = 2Uc(y))       | 3.30 dB |

----- THE END ------



# Appendix A. Test Results of Conducted Test

| Teet Engineer . |            | Temperature :       | 22~23°C |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Simle Wang | Relative Humidity : | 40~42%  |

# Conducted Output Power (Average power)

#### LTE Band 26:

| BW [MHz] | Modulation | RB Size  | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. |
|----------|------------|----------|-----------|-----------------------------|--------------------------------|------------------------------|
|          | Cha        | nnel     |           | 26790                       |                                |                              |
|          | Frequen    | cy (MHz) |           |                             | 824                            |                              |
| 15       | QPSK       | 1        | 0         |                             | 23.08                          |                              |
| 15       | QPSK       | 1        | 74        |                             | 22.96                          |                              |
| 15       | QPSK       | 75       | 0         |                             | 21.85                          |                              |
| 15       | 16QAM      | 1        | 0         |                             | 22.44                          |                              |
|          | Cha        | nnel     |           |                             | 26740                          |                              |
|          | Frequen    | cy (MHz) |           |                             | 819                            |                              |
| 10       | QPSK       | 1        | 0         |                             | 23.11                          |                              |
| 10       | QPSK       | 1        | 49        |                             | 23.01                          |                              |
| 10       | QPSK       | 50       | 0         |                             | 21.82                          |                              |
| 10       | 16QAM      | 1        | 0         |                             | 22.51                          |                              |
|          | Cha        | nnel     |           | 26715                       | 26740                          | 26765                        |
|          | Frequen    | cy (MHz) |           | 816.5                       | 819                            | 821.5                        |
| 5        | QPSK       | 1        | 0         | 23.12                       | 23.08                          | 23.05                        |
| 5        | 16QAM      | 1        | 0         | 22.30                       | 22.23                          | 22.28                        |
|          | Cha        | nnel     |           | 26705                       | 26740                          | 26775                        |
|          | Frequen    | cy (MHz) |           | 815.5                       | 819                            | 822.5                        |
| 3        | QPSK       | 1        | 0         | 23.13                       | 23.06                          | 23.08                        |
| 3        | 16QAM      | 1        | 0         | 22.38                       | 22.16                          | 22.24                        |
|          | Cha        | nnel     | 26697     | 26740                       | 26783                          |                              |
|          | Frequen    | cy (MHz) | 814.7     | 819                         | 823.3                          |                              |
| 1.4      | QPSK       | 1        | 0         | 23.01                       | 23.05                          | 23.06                        |
| 1.4      | 16QAM      | 1        | 0         | 22.51                       | 22.26                          | 22.28                        |



# Appendix B. Test Results of Radiated Test

# **Radiated Spurious Emission**

| Test Engineer : |                    | Bruco        | Bruce            |                         | perature :               |                            | 23~25°C                     |                       |
|-----------------|--------------------|--------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
|                 |                    | Diuce        |                  |                         | Relative Humidity :      |                            | 41~42%                      |                       |
|                 |                    |              |                  |                         |                          |                            |                             |                       |
|                 |                    |              | LTE Ba           | nd 26 / 15M             | Hz / QPSK                |                            |                             |                       |
| Channel         | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
|                 | 1632               | -66.56       | -13              | -53.56                  | -73.53                   | 1.58                       | 10.70                       | Н                     |
|                 | 2440               | -62.27       | -13              | -49.27                  | -70.52                   | 2.102                      | 12.50                       | Н                     |
| Middle          | 3256               | -60.92       | -13              | -47.92                  | -69.81                   | 2.856                      | 13.90                       | Н                     |
| Middle          | 1632               | -65.49       | -13              | -52.49                  | -72.46                   | 1.58                       | 10.70                       | V                     |
|                 | 2440               | -60.40       | -13              | -47.40                  | -68.65                   | 2.10                       | 12.50                       | V                     |
|                 | 3256               | -60.67       | -13              | -47.67                  | -69.56                   | 2.86                       | 13.90                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.