

Report No.: FG2O0623-01G



FCC RADIO TEST REPORT

FCC ID : VUIMD100 **Equipment** : Module

Brand Name : PEGATRON **Model Name** : MD100-Q62

: PEGATRON CORPORATION **Applicant**

> 5F., NO. 76, LIGONG ST., BEITOU **DISTRICT, TAIPEI CITY, Taiwan**

Manufacturer : PEGATRON CORPORATION

> 5F., NO. 76, LIGONG ST., BEITOU **DISTRICT, TAIPEI CITY, Taiwan**

Standard : FCC 47 CFR Part 2, 90(R)

The product was received on Mar. 16, 2023 and testing was performed from Mar. 28, 2023 to May 05, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Win

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FAX: 886-3-328-4978 Report Template No.: BU5-FGLTE90R Version 2.4

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History of this test report

Report No. : FG2O0623-01G

| Report No. | Version | Description | Issue Date |
|--------------|---------|-------------------------|--------------|
| FG2O0623-01G | 01 | Initial issue of report | May 24, 2023 |
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Summary of Test Result

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| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|------------------|---|---------------------------------------|-----------------------|--|
| 3.2 | §2.1046 | Conducted Output Power | Reporting only | - |
| 3.2 | §90.542 (a)(7) | Effective Radiated Power | Pass | - |
| - | - | Peak-to-Average Ratio | - | See Note |
| - | §2.1049 | Occupied Bandwidth | - | See Note |
| - | §2.1053 §90.543 (e)(2) | Conducted Band Edge Measurement | - | See Note |
| - | §2.1051 §90.210 (n) | .1051 Emission Mask - | | See Note |
| - | §2.1053 §90.543 (e)(3) | §2.1053 Conducted Spurious Emission - | | See Note |
| - | §2.1055 Frequency Stability §90.539 (e) Temperature & Voltage | | - | See Note |
| 4.2 | §2.1053 §90.543 (e)(3) §90.543 (f) | Radiated Spurious Emission | Pass | 16.06 dB under the limit at 1576.000 MHz |

Note:

- 1. The certified module (model: VUIMD100).
- 2. The conducted power has been verified to be consistent with the original modular certification, therefore, the conducted signal test will be re-used.
- 3. To perform a spot check on the radiated spurious emission of the host.

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.

Reviewed by: Sheng Kuo Report Producer: Lucy Wu

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1 General Description

1.1 Product Feature of Equipment Under Test

| | Product Feature | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|
| General Specs | | | | | | | | | | |
| LTE/5G NR. | | | | | | | | | | |
| Antenna Type WWAN: PIFA Antenna | | | | | | | | | | |
| Installed into Host | Equipment Name: 5G Dongle Brand Name: PEGATRON Model Name: MD100-Q62 | | | | | | | | | |
| Antenna Gain | <ant. 3=""></ant.> 5G NR n14: -3.09 dBi | | | | | | | | | |

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Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

| Test Site | Sporton International Inc. EMC & W | /ireless Communications Laboratory | | | |
|-----------------------|--|------------------------------------|--|--|--|
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dis Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 | t., | | | |
| Test Site No. | FAX: +886-3-328-4978 Sporton Site No. | | | | |
| Test Site No. | TH03-HY | 03CH07-HY | | | |
| Test Engineer | Luffy Lin | Jesse Wang, Stan Hsieh and Ken Wu | | | |
| Temperature (°C) | 23.5~24.1 | 22.6~25.8 | | | |
| Relative Humidity (%) | 48~52 | 53.2~63.4 | | | |

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

FCC Designation No.: TW1190

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1.4 Applied Standards

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

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- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- **1.** All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- **2.** The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

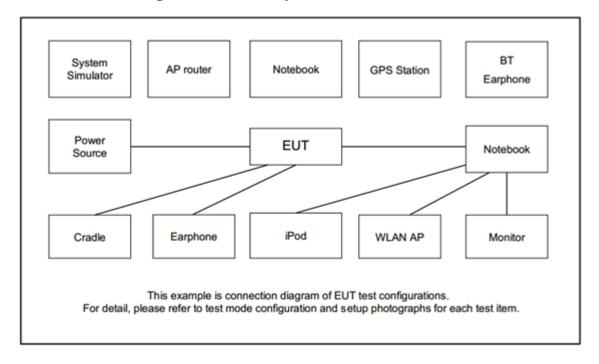
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

| Conducted | | | Ва | ndwid | lth (M | Hz) | | | ı | Modulati | on | | | RB# | | Tes | t Cha | nnel |
|----------------------------------|-----------------------------|------------------|-----------------------------|-----------------|-------------------|-----------------|----------------|--------------------------|----------------------|----------|------------|-------------|------------|------|------|-----|-------|------|
| Conducted Test Cases | Band | 1.4 | 3 | 5 | 10 | 15 | 20 | PI/2 BPSK | QPSK | 16QAM | 64QAM | 256QAM | 1 | Half | Full | L | М | н |
| Max. Output Power | n14 | 1 | • | > | > | - | - | v | v | v | v | v | > | v | v | v | v | v |
| E.R.P | n14 | 1 | , | v | v | - | - | v | v | v | v | ٧ | Max. Power | | | | | |
| Radiated Spurious Emission | n14 | , | , | v | v | - | - | v | | | | | v | | | v | ٧ | v |
| Remark | 2. Ti 3. Ti ur | ne mai ne dev | k "-" r ice is fferen | neans invest | that th igated | nis baı from | ndwidt 30MH | h is not s z to 10 ti | supporte mes of f | undamer | ntal signa | I for radia | | | | | | |

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model No. | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1. | System Simulator | Anritsu | MT8000A | N/A | N/A | Unshielded, 1.8 m |
| 2. | Adapter | PHILIPS | DLP6341C | N/A | N/A | N/A |

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2.4 Frequency List of Low/Middle/High Channels

| | 5G NR n14 Channel and Frequency List | | | | | | | | | |
|----------|--------------------------------------|--------|--------|---------|--|--|--|--|--|--|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest | | | | | | |
| 10 | Channel | - | 158600 | - | | | | | | |
| 10 | Frequency | - | 793 - | | | | | | | |
| | Channel | 158100 | 158600 | 159100 | | | | | | |
| 5 | Frequency | 790.5 | 793 | 795.5 | | | | | | |

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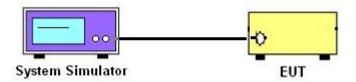
3 **Conducted Test Items**

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power Measurement and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

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The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n14.

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

3.2.2 Test Procedures

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

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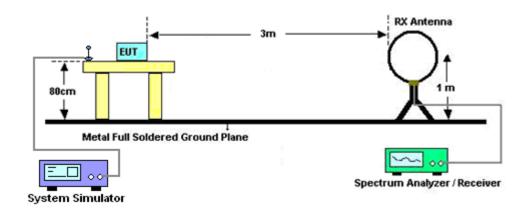
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

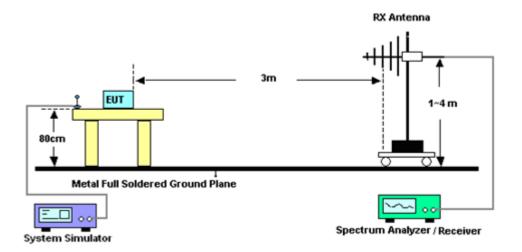
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



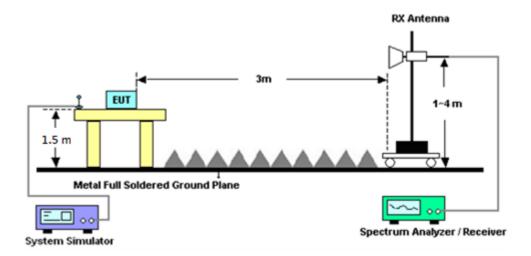
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For radiated test above 1GHz



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4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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4.2 Radiated Spurious Emission

4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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.

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For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. 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 | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|------------------------------|--------------------|-----------------------------|-----------------|---------------------------|---------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100488 | 9 kHz~30 MHz | Sep. 20, 2022 | Apr. 25, 2023~ May 05, 2023 | Sep. 19, 2023 | Radiation (03CH07-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01N -06 | 35419 & 03 | 30MHz~1GHz | Apr. 23, 2023 | Apr. 25, 2023~ May 05, 2023 | Apr. 22, 2024 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Dec. 01, 2022 | Apr. 25, 2023~ May 05, 2023 | Nov. 30, 2023 | Radiation (03CH07-HY) |
| Preamplifier | MITEQ | AMF-7D-0010 1800-30-10P | 1590075 | 1GHz~18GHz | Apr. 20, 2023 | Apr. 25, 2023~ May 05, 2023 | Apr. 19, 2024 | Radiation (03CH07-HY) |
| Preamplifier | COM-POWER | PA-103A | 161241 | 10MHz~1GHz | Oct. 03, 2022 | Apr. 25, 2023~ May 05, 2023 | Oct. 02, 2023 | Radiation (03CH07-HY) |
| Preamplifier | Agilent | 8449B | 3008A02362 | 1GHz~26.5GHz | Mar. 24, 2023 | Apr. 25, 2023~ May 05, 2023 | Mar. 23, 2024 | Radiation (03CH07-HY) |
| Preamplifier | EMEC | EM18G40G | 0600789 | 18-40GHz | Jul. 21, 2022 | Apr. 25, 2023~ May 05, 2023 | Jul. 20, 2023 | Radiation (03CH07-HY) |
| Spectrum Analyzer | Agilent | N9030A | MY52350276 | 3Hz~44GHz | Mar. 28, 2023 | Apr. 25, 2023~ May 05, 2023 | Mar. 27, 2024 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY15682/4 | 30MHz to 18GHz | Feb. 22, 2023 | Apr. 25, 2023~ May 05, 2023 | Feb. 21, 2024 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY24971/4 | 9kHz to 18GHz | Feb. 22, 2023 | Apr. 25, 2023~ May 05, 2023 | Feb. 21, 2024 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4 | 9kHz to 18GHz | Feb. 22, 2023 | Apr. 25, 2023~ May 05, 2023 | Feb. 21, 2024 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | MY2858/2 | 18GHz~40GHz | Feb. 22, 2023 | Apr. 25, 2023~ May 05, 2023 | Feb. 21, 2024 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 801606/2 | 9KHz ~ 40GHz | Apr. 20, 2023 | Apr. 25, 2023~ May 05, 2023 | Apr. 19, 2024 | Radiation (03CH07-HY) |
| Controller | EMEC | EM1000 | N/A | Control Ant Mast | N/A | Apr. 25, 2023~ May 05, 2023 | N/A | Radiation (03CH07-HY) |
| Controller | MF | MF-7802 | N/A | Control Turn table | N/A | Apr. 25, 2023~ May 05, 2023 | N/A | Radiation (03CH07-HY) |
| Antenna Mast | EMEC | AM-BS-4500E | N/A | Boresight mast 1M~4M | N/A | Apr. 25, 2023~ May 05, 2023 | N/A | Radiation (03CH07-HY) |
| Turn Table | ChainTek | Chaintek 3000 | N/A | 0~360 Degree | N/A | Apr. 25, 2023~ May 05, 2023 | N/A | Radiation (03CH07-HY) |
| Software | Audix | E3 | N/A | N/A | N/A | Apr. 25, 2023~ May 05, 2023 | N/A | Radiation (03CH07-HY) |
| USB Data Logger | TECPEL | TR-32 | HE17XB2495 | N/A | Mar. 14, 2023 | Apr. 25, 2023~ May 05, 2023 | Mar. 13, 2024 | Radiation (03CH07-HY) |
| Horn Antenna | ETS-Lindgren | 3117 | 00143261 | 1GHz~18GHz | Feb. 24, 2023 | Apr. 25, 2023~ May 05, 2023 | Feb. 23, 2024 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA917025 1 | 18GHz~40GHz | Nov. 24, 2022 | Apr. 25, 2023~ May 05, 2023 | Nov. 23, 2023 | Radiation (03CH07-HY) |
| Signal Generator | Anritsu | MG3710A | 6261943042 | 2G / 3G / LTE / 5G FR1 | May 23, 2022 | Apr. 25, 2023~ May 05, 2023 | May 22, 2023 | Radiation (03CH07-HY) |
| Hygrometer | TECPEL | DTM-303A | TP201996 | NA | Nov. 17, 2022 | Mar. 28, 2023~ Apr. 13, 2023 | Nov. 16, 2023 | Conducted (TH03-HY) |
| Base Station (Measure) | Anritsu | MT8821C | 6262116730 | LTE | Jun. 15, 2022 | Mar. 28, 2023~ Apr. 13, 2023 | Jun. 14, 2023 | Conducted (TH03-HY) |
| Base Station (Measure) | Anritsu | MT8000A | 6262134933 | FR1 | Jun. 13, 2022 | Mar. 28, 2023~ Apr. 13, 2023 | Jun. 12, 2023 | Conducted (TH03-HY) |

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6 Measurement Uncertainty

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

| Confidence of 95% (U = 2Uc(y)) |
|--------------------------------|
|--------------------------------|

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| Measuring Uncertainty for a Level of | 3 E0 4B |
|--------------------------------------|---------|
| Confidence of 95% (U = 2Uc(y)) | 3.50 dB |

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and ERP)

| | NR n14 Maximum Average Power [dBm] (GT - LC = -3.09 dB) | | | | | | | | | | | |
|----------|---|-----------|-----------|--------|--------|---------|-----------|--------|--|--|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP(W) | | | | |
| 5 | 1 | 1 | | 22.68 | 22.70 | 22.74 | | | | | | |
| 5 | 1 | 23 | | 22.67 | 22.64 | 22.61 | | | | | | |
| 5 | 12 | 6 | PI/2 BPSK | 22.74 | 22.69 | 22.71 | | | | | | |
| 5 | 1 | 0 | PI/2 BP3K | 22.18 | 22.21 | 22.23 | | | | | | |
| 5 | 1 | 24 | | 22.12 | 22.13 | 22.12 | | | | | | |
| 5 | 25 | 0 | | 22.18 | 22.17 | 22.18 | 17.51 | 0.0564 | | | | |
| 5 | 1 | 1 | | 22.68 | 22.72 | 22.74 | | 0.0304 | | | | |
| 5 | 1 | 23 | | 22.67 | 22.56 | 22.61 | | | | | | |
| 5 | 12 | 6 | QPSK | 22.75 | 22.65 | 22.74 | | | | | | |
| 5 | 1 | 0 | QFSK | 21.76 | 21.72 | 21.75 | | | | | | |
| 5 | 1 | 24 | | 21.67 | 21.62 | 21.66 | | | | | | |
| 5 | 25 | 0 | | 21.73 | 21.68 | 21.74 | | | | | | |
| 5 | 1 | 1 | 16-QAM | 21.75 | 21.67 | 21.72 | | | | | | |
| 5 | 1 | 1 | 64-QAM | 20.45 | 20.37 | 20.46 | 16.51 | 0.0448 | | | | |
| 5 | 1 | 1 | 256-QAM | 17.75 | 17.71 | 17.66 | | | | | | |
| Limit | | ERP < 3V | V | | Result | | Pa | ISS | | | | |

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| NR n14 Maximum Average Power [dBm] (GT - LC = -3.09 dB) | | | | | | | | | |
|---|----------------|-----------|-----------|--------|--------|---------|-----------|--------|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP(W) | |
| 10 | 1 | 1 | | - | 22.75 | - | 17.51 | 0.0564 | |
| 10 | 1 | 50 | PI/2 BPSK | - | 22.62 | - | | | |
| 10 | 25 | 12 | | - | 22.69 | 1 | | | |
| 10 | 1 | 0 | | - | 22.25 | 1 | | | |
| 10 | 1 | 51 | | - | 22.12 | 1 | | | |
| 10 | 50 | 0 | | - | 22.21 | 1 | | | |
| 10 | 1 | 1 | | ı | 22.74 | ı | | | |
| 10 | 1 | 50 | QPSK | - | 22.73 | 1 | | | |
| 10 | 25 | 12 | | - | 22.74 | - | | | |
| 10 | 1 | 0 | | - | 21.75 | 1 | | | |
| 10 | 1 | 51 | | - | 21.54 | - | | | |
| 10 | 50 | 0 | | ı | 21.68 | ı | | | |
| 10 | 1 | 1 | 16-QAM | - | 21.73 | - | | | |
| 10 | 1 | 1 | 64-QAM | - | 20.44 | - | 16.49 | 0.0446 | |
| 10 | 1 | 1 | 256-QAM | - | 17.86 | - | | | |
| Limit | Limit ERP < 3W | | | Result | | | Pass | | |

Appendix B. Test Results of Radiated Test

<Ant. 3>

5G NR n14

Report No. : FG2O0623-01G

| 5G NR n14/ 5MHz / PI/2 BPSK | | | | | | | | | | |
|-----------------------------|--------------------|--------------|------------------|------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | |
| | 1576 | -59.31 | -42.15 | -17.16 | -71.79 | -61.3 | 0.95 | 5.09 | Н | |
| | 2368 | -55.70 | -13 | -42.70 | -73.82 | -57.3 | 1.25 | 5.00 | Н | |
| | 3152 | -57.68 | -13 | -44.68 | -77.41 | -60.5 | 1.50 | 6.47 | Н | |
| | | | | | | | | | Н | |
| | | | | | | | | | Н | |
| Lowest | | | | | | | | | Н | |
| Lowest | 1576 | -58.61 | -42.15 | -16.46 | -71.45 | -60.6 | 0.95 | 5.09 | V | |
| | 2368 | -55.80 | -13 | -42.80 | -73.84 | -57.4 | 1.25 | 5.00 | V | |
| | 3152 | -56.78 | -13 | -43.78 | -77.28 | -59.6 | 1.50 | 6.47 | V | |
| | | | | | | | | | V | |
| | | | | | | | | | V | |
| | | | | | | | | | V | |
| | 1584 | -58.93 | -42.15 | -16.78 | -71.46 | -60.9 | 0.95 | 5.06 | Н | |
| | 2376 | -54.87 | -13 | -41.87 | -72.55 | -56.5 | 1.25 | 5.03 | Н | |
| NA: dalla | 3160 | -57.24 | -13 | -44.24 | -77.04 | -60.1 | 1.50 | 6.50 | Н | |
| | | | | | | | | | Н | |
| | | | | | | | | | Н | |
| | | | | | | | | | Н | |
| Middle | 1584 | -58.63 | -42.15 | -16.48 | -71.62 | -60.6 | 0.95 | 5.06 | V | |
| | 2376 | -55.47 | -13 | -42.47 | -73.63 | -57.1 | 1.25 | 5.03 | V | |
| | 3160 | -57.04 | -13 | -44.04 | -77.19 | -59.9 | 1.50 | 6.50 | V | |
| | | | | | | | | | V | |
| | | | | | | | | | V | |
| | | | | | | | | | V | |

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FAX: 886-3-328-4978



-42.15 -17.18 -71.64 1584 -59.33 -61.3 0.95 5.06 Н 2384 -55.45 -13 -42.45 -73.37 -57.1 1.25 5.05 Н 3176 -13 -44.38 -77.15 1.50 Н -57.38 -60.3 6.57 Н Н Н Highest ٧ 1584 -59.23 -42.15 -17.08 -72.18 -61.2 0.95 5.06 -74.48 ٧ 2384 -56.55 -13 -43.55 -58.2 1.25 5.05 3176 -56.78 -13 -43.78 -77.15 -59.7 1.50 6.57 ٧ ٧ ٧ ٧

Report No.: FG2O0623-01G

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

TEL: 886-3-327-3456 Page Number : B2 of B3

FAX: 886-3-328-4978

| 5G NR n14/ 10MHz / PI/2 BPSK | | | | | | | | | | |
|------------------------------|----------------------|--------------|------------------|------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | |
| Middle | 1576 | -59.31 | -42.15 | -17.16 | -71.76 | -61.3 | 0.95 | 5.09 | Н | |
| | 2368 | -55.60 | -13 | -42.60 | -73.46 | -57.2 | 1.25 | 5.00 | Н | |
| | 3152 | -57.48 | -13 | -44.48 | -77.18 | -60.3 | 1.50 | 6.47 | Н | |
| | | | | | | | | | Н | |
| | | | | | | | | | Н | |
| | | | | | | | | | Н | |
| | 1576 | -58.21 | -42.15 | -16.06 | -71.15 | -60.2 | 0.95 | 5.09 | V | |
| | 2368 | -55.90 | -13 | -42.90 | -73.66 | -57.5 | 1.25 | 5.00 | V | |
| | 3152 | -56.88 | -13 | -43.88 | -77.16 | -59.7 | 1.50 | 6.47 | V | |
| | | | | | | | | | V | |
| | | | | | | | | | V | |
| | | | | | | | | | V | |

Report No. : FG2O0623-01G

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

TEL: 886-3-327-3456 Page Number: B3 of B3

FAX: 886-3-328-4978