

Report No.: FG030918-03E



FCC RADIO TEST REPORT

FCC ID : B94HNC05CTKR Equipment : Convertible PC

Brand Name : HP

Model Name : HSN-C05C Applicant : HP Inc.

3390 East Harmony Road, Fort Collins,

Colorado, United States 80528

Standard : FCC 47 CFR Part 2, and 90(S)

The product was received on Mar. 31, 2020 and testing was started from Apr. 27, 2020 and completed on May 16, 2020. 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 of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

TEL: 886-3-327-3456 Page Number : 1 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

Table of Contents

Report No. : FG030918-03E

| His | story o | of this test report | 3 |
|-----|---------|--|----|
| Su | mmar | y of Test Result | 4 |
| 1 | | eral Description | |
| - | 1.1 | Feature of Equipment Under Test | |
| | 1.2 | Modification of EUT | 6 |
| | 1.3 | Testing Site | |
| | 1.4 | Applied Standards | |
| 2 | Test | Configuration of Equipment Under Test | 8 |
| | 2.1 | Test Mode | 8 |
| | 2.2 | Connection Diagram of Test System | 8 |
| | 2.3 | Support Unit used in test configuration and system | |
| | 2.4 | Frequency List of Low/Middle/High Channels | g |
| 3 | Radia | ated Test Items | 10 |
| | 3.1 | Field Strength of Spurious Radiation Measurement | 10 |
| 4 | | of Measuring Equipment | |
| 5 | Unce | ertainty of Evaluation | 14 |
| | | x Δ Test Results of Radiated Test | |

TEL: 886-3-327-3456 Page Number : 2 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

History of this test report

Report No. : FG030918-03E

| Report No. | Version | Description | Issued Date | | |
|--------------|---------|--|---------------|--|--|
| FG030918-03E | 01 | Initial issue of report | Jun. 19, 2020 | | |
| FG030918-03E | 02 | Revise applicant information | Jun. 29, 2020 | | |
| FG030918-03E | 03 | Remove test Photo and manufacturer information Adding module information Jul. 01 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Summary of Test Result

Report No.: FG030918-03E

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|------------------|--------------------|---|-----------------------|--|
| - | §2.1046 §90.635 | Conducted Output Power and Effective Radiated Power | - | See Note |
| - | - | Peak-to-Average Ratio | - | See Note |
| - | §2.1049 §90.209 | Occupied Bandwidth and 26dB Bandwidth | - | See Note |
| - | §2.1051 §90.691 | Emission masks – In-band emissions | - | See Note |
| - | §2.1051 §90.691 | Emission masks – Out of band emissions | - | See Note |
| - | §2.1055 §90.213 | Frequency Stability for Temperature & Voltage | - | See Note |
| 3.1 | §2.1053 §90.691 | Field Strength of Spurious Radiation | Pass | Under limit 34.05 dB at 2467.000 MHz |

Note: The module (Model: T99W175) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang Report Producer: Vivian Hsu

TEL: 886-3-327-3456 Page Number : 4 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

1 General Description

1.1 Feature of Equipment Under Test

WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, and GNSS.

Report No.: FG030918-03E

| Product Specification subjective to this standard | | | | | | |
|---|--|--|--|--|--|--|
| WWAN Module | Brand Name: FOXCONN | | | | | |
| VVVVAN WOdule | Model Name: T99W175 | | | | | |
| | WWAN | | | | | |
| | <ant. 1="">: PIFA Antenna</ant.> | | | | | |
| | <ant. 2="">: PIFA Antenna (Rx only)</ant.> | | | | | |
| | <ant. 3="">: PIFA Antenna</ant.> | | | | | |
| | <ant. 4="">: PIFA Antenna (Rx only)</ant.> | | | | | |
| Antenna Type | WLAN | | | | | |
| | <ant. 1="">: PIFA Antenna</ant.> | | | | | |
| | <ant. 2="">: PIFA Antenna</ant.> | | | | | |
| | Bluetooth: PIFA Antenna | | | | | |
| | GPS/Glonass/BDS/Galileo: PIFA Antenna | | | | | |
| | NFC: Loop Antenna | | | | | |

| WWAN Antenna Information NB Mode | | | | | | | | |
|------------------------------------|----------------------|--------------|-------------------------------|--|--|--|--|--|
| Antenna Part Number | Manufacture | Antenna Type | Peak Gain (dBi) | | | | | |
| | | | 824-849MHz -0.77 dBi (peak) | | | | | |
| | | | 880-915MHz -0.92 dBi (peak) | | | | | |
| | | | 1710-1785MHz 0.56 dBi (peak) | | | | | |
| | | | 1850-1910MHz 1.28 dBi (peak) | | | | | |
| | INPAQ Corporation | PIFA | 1920-1980MHz 0.7 dBi (peak) | | | | | |
| Tx1 Antenna | | | 704-716MHz -2.03 dBi (peak) | | | | | |
| WA-P-LTE15-02-003 | | | 746-756MHz -0.33 dBi (peak) | | | | | |
| (DC33002DU00) | | | 777-787MHz 0.44 dBi (peak) | | | | | |
| | | | 832-862MHz -0.84 dBi (peak) | | | | | |
| | | | 1710-1755MHz 0.67 dBi (peak) | | | | | |
| | | | 2500-2570MHz -0.31 dBi (peak) | | | | | |
| | | | 2570-2620MHz 0.21 dBi (peak) | | | | | |
| | | | 2300-2400MHz-0.27 dBi (peak) | | | | | |
| MIMO2 Antonno | | | 1930-1990MHz 0.73 dBi (peak) | | | | | |
| MIMO3 Antenna WA-P-LTE16-02-002 | INPAQ | PIFA | 2110-2170MHz 1.3 dBi (peak) | | | | | |
| (DC33002DU30) | Corporation | FIFA | 2132-2155MHz 0.78 dBi (peak) | | | | | |
| (5000025000) | | | 2300-2400MHz 1.17 dBi (peak) | | | | | |

| | WWAN Ar | tenna Information | TB Mode |
|---------------------|----------------------|-------------------|-------------------------------|
| Antenna Part Number | Manufacture | Antenna Type | Peak Gain (dBi) |
| | | | 824-849MHz -2.79 dBi (peak) |
| | | | 880-915MHz -2.16 dBi (peak) |
| | | | 1710-1785MHz -1.2 dBi (peak) |
| | INPAQ Corporation | PIFA | 1850-1910MHz -1.69 dBi (peak) |
| | | | 1920-1980MHz -1.5 dBi (peak) |
| Tx1 Antenna | | | 704-716MHz -4.27 dBi (peak) |
| WA-P-LTE15-02-003 | | | 746-756MHz -4.65 dBi (peak) |
| (DC33002DU00) | | | 777-787MHz -4.36 dBi (peak) |
| | | | 832-862MHz -2.15 dBi (peak) |
| | | | 1710-1755MHz -1.19 dBi (peak) |
| | | | 2500-2570MHz 0.16 dBi (peak |
| | | | 2570-2620MHz 0.17 dBi (peak) |
| | | | 2300-2400MHz -1.81 dBi (peak) |
| MIMO3 Antenna | | | 1930-1990MHz -2 dBi (peak) |
| WA-P-LTE16-02-002 | INPAQ | PIFA | 2110-2170MHz -1.69 dBi (peak) |
| (DC33002DU30) | Corporation | 1 11 / 1 | 2132-2155MHz -1.69 dBi (peak) |
| (= ::::322 000) | | | 2300-2400MHz 2.82 dBi (peak) |

Report No.: FG030918-03E

1.2 Modification of EUT

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

1.3 Testing Site

| Test Site | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory | | | | | | | |
|--------------------|---|--|--|--|--|--|--|--|
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 | | | | | | | |
| Test Site No. | Sporton Site No. | | | | | | | |
| rest site No. | 03CH12-HY | | | | | | | |
| Test Engineer | Jack Cheng , Lance Chiang and Chuan Chu | | | | | | | |
| Temperature | 19~22℃ | | | | | | | |
| Relative Humidity | 52~60% | | | | | | | |

Report No.: FG030918-03E

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

FCC Designation No.: TW0007

1.4 Applied Standards

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

- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

TEL: 886-3-327-3456 Page Number : 7 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

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.

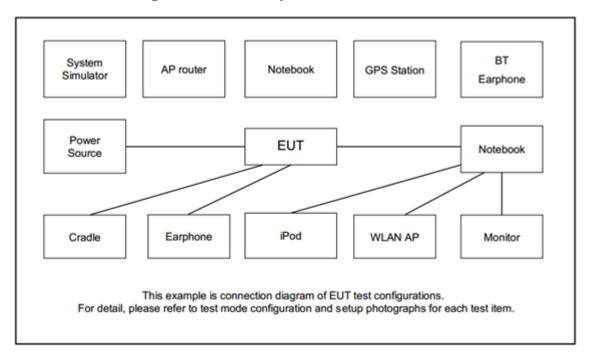
For radiated measurement, pre-scanned in Tablet Mode (three orthogonal panels, X, Y, Z) and Notebook Mode. The worst cases (Y Plane) were recorded in this report.

Report No.: FG030918-03E

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

| Conducted | Dand | | Bandwidth (MHz) | | Modulation | | RB# | | | Test Channel | | | | | | |
|---|---|---------|------------------|---------|------------|----------|---------|------------|-------------|--------------|---|------|------|---|---|---|
| Test Cases | Band | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | Н |
| Radiated | | | | | | | | | | | | | | | | |
| Spurious | 26 | | | v | v | v | - | v | | | v | | | V | ٧ | v |
| Emission | | | | | | | | | | | | | | | | |
| | 1. Th | ne marl | k " v " n | neans | that thi | s confi | guratio | n is chose | en for test | ing | | | | | | |
| | 2. Th | ne marl | k "-" m | eans th | nat this | bandw | idth is | not suppo | orted. | | | | | | | |
| Remark 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-8 | | | | | | | :-824N | ЛHz. | | | | | | | | |
| | ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial | | | | | | | | | | | | | | | |
| | fre | equenc | y spec | trum w | hich fa | lls with | in part | 22 also d | complies. | | | | | | | |

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord | |
|------|------------------|------------|-----------|--------------|------------------|-------------------|--|
| 1. | System Simulator | Anritsu | MT8820C | N/A | N/A | Unshielded, 1.8 m | |
| 2. | iPod Earphone | Apple | N/A | Verification | Unshielded, 1.0m | N/A | |

TEL: 886-3-327-3456 Page Number : 8 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

2.4 Frequency List of Low/Middle/High Channels

| LTE Band 26 Channel and Frequency List | | | | | | | | |
|--|------------------------|--------|--------|---------|--|--|--|--|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest | | | | |
| 15 | Channel | 26765 | - | - | | | | |
| 15 | Frequency | 821.5 | - | - | | | | |
| 10 | Channel | - | 26740 | - | | | | |
| 10 | Frequency | - | 819 | - | | | | |
| 5 | 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 | | | | |

Report No. : FG030918-03E

TEL: 886-3-327-3456 Page Number : 9 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

3 Radiated Test Items

3.1 Field Strength of Spurious Radiation Measurement

3.1.1 Description of Field Strength of Spurious Radiated Measurement

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

Report No.: FG030918-03E

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+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

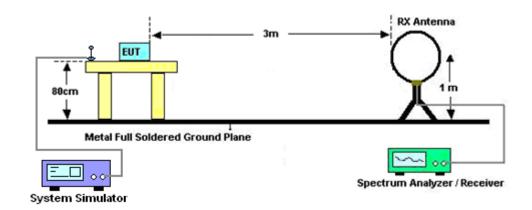
3.1.2 Test Procedures

- 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.
- 1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 3. 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.
- 4. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- For testing above 1GHz, 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)

TEL: 886-3-327-3456 Page Number : 10 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

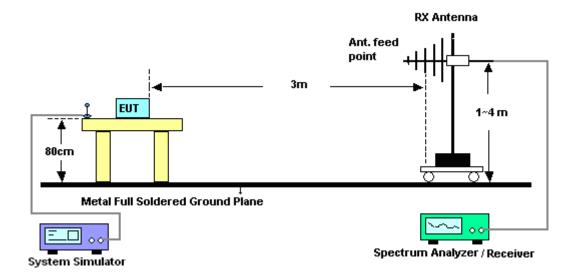
3.1.3 Test Setup

For radiated emissions below 30MHz



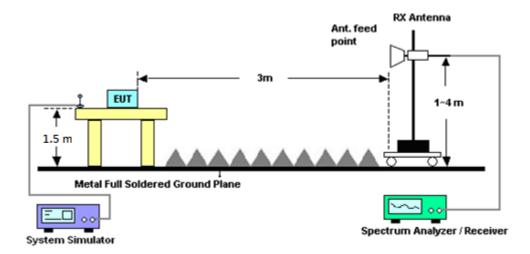
Report No.: FG030918-03E

For radiated test from 30MHz to 1GHz



TEL: 886-3-327-3456 Page Number : 11 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

For radiated test above 1GHz



Report No.: FG030918-03E

3.1.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix A.

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 a comparison data 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.

TEL: 886-3-327-3456 Page Number : 12 of 14
FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------------|--------------------|--------------------------------------|-----------------|-------------------------------|---------------------|--------------------------------|---------------|--------------------------|
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Dec. 26, 2019 | Apr. 27, 2020~ May 16, 2020 | Dec. 25, 2020 | Radiation (03CH12-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D0 1N-06 | 37059 & 01 | 30MHz~1GHz | Oct. 12, 2019 | Apr. 27, 2020~ May 16, 2020 | Oct. 11, 2020 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120D | 9120D-1328 | 1GHz ~ 18GHz | Nov. 14, 2019 | Apr. 27, 2020~ May 16, 2020 | Nov. 13, 2020 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120D | 9120D-1522 | 1GHz ~ 18GHz | Sep. 19, 2019 | Apr. 27, 2020~ May 16, 2020 | Sep. 18, 2020 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA91705 84 | 18GHz ~ 40GHz | Dec. 10, 2019 | Apr. 27, 2020~ May 16, 2020 | Dec. 09, 2020 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA91709 80 | 18GHz ~ 40GHz | Jan. 10, 2019 | Apr. 27, 2020~ May 16, 2020 | Jan. 09, 2021 | Radiation (03CH12-HY) |
| Preamplifier | COM-POWER | PA-103 | 161075 | 10MHz~1GHz | Mar. 25, 2020 | Apr. 27, 2020~ May 16, 2020 | Mar. 24, 2021 | Radiation (03CH12-HY) |
| Preamplifier | Jet-Power | JPA0010180 0-30-10P | 1601180002 | 1GHz~18GHz | Feb. 07, 2020 | Apr. 27, 2020~ May 16, 2020 | Feb. 06, 2021 | Radiation (03CH12-HY) |
| Preamplifier | EMEC | EM18G40G | 060715 | 18GHz ~ 40GHz | Dec. 13, 2019 | Apr. 27, 2020~ May 16, 2020 | Dec. 12, 2020 | Radiation (03CH12-HY) |
| Preamplifier | Keysight | 83017A | MY5327014 8 | 1GHz~26.5GHz | Dec. 20, 2019 | Apr. 27, 2020~ May 16, 2020 | Dec. 19, 2020 | Radiation (03CH12-HY) |
| Signal Analyzer | Agilent | N9010A | MY5347011 8 | 10Hz~44GHz | Mar. 12, 2020 | Apr. 27, 2020~ May 16, 2020 | Mar. 11, 2021 | Radiation (03CH12-HY) |
| Signal Generator | Rohde & Schwarz | SMB100A | 101107 | 100kHz~40GHz | Aug. 27, 2019 | Apr. 27, 2020~ May 16, 2020 | Aug. 26, 2020 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126E | 0058/126E | 30M-18G | Dec. 12, 2019 | Apr. 27, 2020~ May 16, 2020 | Dec. 11, 2020 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30M~40GHz | Feb. 25, 2020 | Apr. 27, 2020~ May 16, 2020 | Feb. 24, 2021 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 800740/2 | 30M~40GHz | Feb. 25, 2020 | Apr. 27, 2020~ May 16, 2020 | Feb. 24, 2021 | Radiation (03CH12-HY) |
| Controller | EMEC | EM1000 | N/A | Control Turn table & Ant Mast | N/A | Apr. 27, 2020~ May 16, 2020 | N/A | Radiation (03CH12-HY) |
| Antenna Mast | EMEC | AM-BS-4500 -B | N/A | 1m~4m | N/A | Apr. 27, 2020~ May 16, 2020 | N/A | Radiation (03CH12-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Apr. 27, 2020~ May 16, 2020 | N/A | Radiation (03CH12-HY) |
| Software | Audix | E3 6.2009-8-24 | RK-000989 | N/A | N/A | Apr. 27, 2020~ May 16, 2020 | N/A | Radiation (03CH12-HY) |

Report No. : FG030918-03E

TEL: 886-3-327-3456 Page Number : 13 of 14 FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

5 Uncertainty of Evaluation

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

| Measuring Uncertainty for a Level of | 3.24 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 3.24 |

Report No.: FG030918-03E

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

| Measuring Uncertainty for a Level of | 3.62 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | |

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

| Measuring Uncertainty for a Level of | 4.06 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 4.06 |

TEL: 886-3-327-3456 Page Number : 14 of 14 FAX: 886-3-328-4978 Issued Date : Jul. 01, 2020

Appendix A. Test Results of Radiated Test

LTE Band 26

Report No. : FG030918-03E

| LTE Band 26 / 5MHz / QPSK | | | | | | | | | |
|---------------------------|----------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| | 1634 | -59.52 | -13 | -46.52 | -72.97 | -65.06 | 0.92 | 8.61 | Н |
| | 2452 | -56.12 | -13 | -43.12 | -74.42 | -63.46 | 1.14 | 10.63 | Н |
| | 3269 | -54.22 | -13 | -41.22 | -74.43 | -62.70 | 1.32 | 11.95 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Lowest | | | | | | | | | Н |
| Lowest | 1634 | -60.81 | -13 | -47.81 | -73.78 | -66.35 | 0.92 | 8.61 | V |
| | 2452 | -56.09 | -13 | -43.09 | -74.48 | -63.43 | 1.14 | 10.63 | V |
| | 3269 | -53.75 | -13 | -40.75 | -74.45 | -62.23 | 1.32 | 11.95 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | 1639 | -60.44 | -13 | -47.44 | -73.89 | -66.00 | 0.92 | 8.63 | Н |
| | 2459 | -53.28 | -13 | -40.28 | -71.59 | -60.63 | 1.14 | 10.64 | Н |
| | 3279 | -54.29 | -13 | -41.29 | -74.48 | -62.79 | 1.32 | 11.97 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Middle | | | | | | | | | Н |
| Middle | 1639 | -61.27 | -13 | -48.27 | -74.22 | -66.83 | 0.92 | 8.63 | V |
| | 2459 | -55.64 | -13 | -42.64 | -74.06 | -62.99 | 1.14 | 10.64 | V |
| | 3279 | -53.92 | -13 | -40.92 | -72.41 | -62.42 | 1.32 | 11.97 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

TEL: 886-3-327-3456 Page Number : A1 of A4



1644 -58.90 -13 -45.90 -72.37 -64.48 0.92 Н 8.65 2467 -47.05 -13 -34.05 -65.36 -54.41 1.14 Н 10.65 3288 -54.35 -13 -41.35 -74.51 -62.87 1.32 11.99 Н Н Н Н Н Highest -74.17 ٧ 1644 -61.22 -13 -48.22 -66.80 0.92 8.65 2467 -52.28 -13 -39.28 -70.72 -59.64 1.14 10.65 ٧ 3288 -54.08 -13 -41.08 -74.72 -62.60 1.32 11.99 ٧ ٧ ٧ ٧ ٧

Report No.: FG030918-03E

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

TEL: 886-3-327-3456 Page Number : A2 of A4



LTE Band 26 / 10MHz / QPSK **TX Antenna** Over **SPA** S.G. **TX Cable Polarization** Frequency **ERP** Limit Channel Gain Limit Reading **Power** loss (MHz) (dBm) (dBm) (H/V) (dBi) (dB) (dBm) (dBm) (dB) 1629 -60.38 -13 -47.38 -73.81 -65.91 0.91 8.59 Н 2443 -53.61 -13 -71.89 -60.94 1.14 10.62 Н -40.61 3258 -53.90 -13 -40.90 -74.14 -62.35 1.32 11.92 Н Н Н Н Η Middle 1629 -73.65 ٧ -60.68 -13 -47.68 -66.21 0.91 8.59 -72.98 ٧ 2443 -54.63 -13 -41.63 1.14 10.62 -61.96 ٧ 3258 -53.78 -13 -40.78 -74.5 -62.23 1.32 11.92 ٧ ٧ ٧ ٧

Report No.: FG030918-03E

TEL: 886-3-327-3456 Page Number : A3 of A4

| LTE Band 26 / 15MHz / QPSK | | | | | | | | | |
|----------------------------|----------------------|---------------|------------------|-------------------------|-------------------------|--------------------------|--------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| | 1656 | -60.79 | -13 | -47.79 | -74.3 | -66.41 | 0.92 | 8.69 | Н |
| | 2484 | -55.65 | -13 | -42.65 | -73.99 | -63.03 | 1.15 | 10.68 | Н |
| | 3312 | -54.36 | -13 | -41.36 | -74.48 | -62.93 | 1.33 | 12.05 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| Lowest | | | | | | | | | Н |
| Lowest | 1656 | -60.94 | -13 | -47.94 | -73.88 | -66.56 | 0.92 | 8.69 | V |
| | 2484 | -55.76 | -13 | -42.76 | -74.27 | -63.14 | 1.15 | 10.68 | V |
| | 3312 | -54.10 | -13 | -41.10 | -74.68 | -62.67 | 1.33 | 12.05 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Report No. : FG030918-03E

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



TEL: 886-3-327-3456 Page Number : A4 of A4