



Report No.: FG101802C

FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00136AL Equipment : Notebook Computer

Brand Name : Lenovo

Model Name : TP00136A; TP00136B

Applicant : LC Future Center Limited Taiwan Branch

7F., No.780, Beian Rd., Zhongshan Dist., Taipei

104, Taiwan

Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.

No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics &

Technology Development Area, Anhui, CHINA

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

Equipment: Quectel EM05-G tested inside of Lenovo Notebook Computer.

The product was received on Oct. 18, 2021 and testing was performed from Oct. 27, 2021 to Nov. 18, 2021. 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.

Approved by: Louis Wu

Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

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E-mail : Alex@sporton.com.tw
Report Template No.: BU5-FGLTE90R Version 2.4

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History of this test report

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| Report No. | Version | Description | Issued Date |
|------------|---------|---|---------------|
| FG1O1802C | 01 | Initial issue of report | Jan. 05, 2022 |
| FG1O1802C | 02 | Revise Product Feature Revise List of Measuring Equipment | Jan. 12, 2022 |
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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) | Emission Mask | - | See Note |
| - | §2.1053 §90.543 (e)(3) | Conducted Spurious Emission | - | See Note |
| - | §2.1055 §90.539 (e) | §2.1055 Frequency Stability | | See Note |
| 4.2 | §2.1053 §90.543 (e)(3) §90.543 (f) | Radiated Spurious Emission | Pass | Under limit 16.27 dB at 1586.000 MHz |

Note: The module (Model: EM05-G) 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: Sheng Kuo Report Producer: Ruby Zou

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1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature | | | | | | |
|---------------------------------|------------------------|--|--|--|--|--|
| Equipment | Notebook Computer | | | | | |
| Brand Name | Lenovo | | | | | |
| Model Name | TP00136A; TP00136B | | | | | |
| FCC ID | 2AJN7-TP00136AL | | | | | |
| Sample 1 | EUT with AWAN Antenna | | | | | |
| Sample 2 | EUT with Speed Antenna | | | | | |
| EUT supports Radios application | WCDMA/HSPA/LTE/GNSS | | | | | |
| EUT Stage | Production Unit | | | | | |

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Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Quectel EM05-G tested inside of Lenovo Notebook Computer.

| WWAN Antenna Information | | | | | | | |
|--------------------------|--------------|-------------|-----------------|------------------|--|--|--|
| | Manufacturer | AWAN | Peak gain (dBi) | LTE Band 14:0.69 | | | |
| Main Antonna | Part number | DC33001VX00 | Туре | PIFA | | | |
| Main Antenna | Manufacturer | Speed | Peak gain (dBi) | LTE Band 14:0.69 | | | |
| | Part number | DC33001VY00 | Туре | PIFA | | | |

Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. The output power measurement was performed with "AWAN Antenna", and performed with "Speed Antenna" in radiated spurious emission test as representative.

1.2 Product Specification of Equipment Under Test

| Product Specification is subject to this standard | | | | | | |
|---|-----------------------|--|--|--|--|--|
| Tx Frequency | 790.5 MHz ~ 795.5 MHz | | | | | |
| Rx Frequency | 760.5 MHz ~ 765.5 MHz | | | | | |
| Bandwidth | 5MHz / 10MHz | | | | | |
| Maximum Output Power to Antenna | 24.20 dBm | | | | | |
| Type of Modulation | QPSK / 16QAM | | | | | |

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1.3 Modification of EUT

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

1.4 Testing Site

| Test Site | Sporton International Inc. EMC & Wireless Communications Laboratory | | | | | |
|--------------------|---|--|--|--|--|--|
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333 | | | | | |
| Test Site No. | Sporton Site No. | | | | | |
| rest Site No. | TH03-HY | | | | | |
| Test Engineer | Benjamin Lin | | | | | |
| Temperature | 23.5~25°ℂ | | | | | |
| Relative Humidity | 49.4~52% | | | | | |

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| Test Site | Sporton International Inc. Wensan Laboratory | | | | |
|--------------------|--|--|--|--|--|
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010 | | | | |
| Test Site No. | Sporton Site No. | | | | |
| rest site No. | 03CH15-HY (TAF Code: 3786) | | | | |
| Test Engineer | Leo Lee, Mancy Chou and Bigshow Wang | | | | |
| Temperature | 22.5~24.5°C | | | | |
| Relative Humidity | 45~55% | | | | |
| Remark | The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory | | | | |

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

FCC Designation No.: TW1190 and TW3786

1.5 Applied Standards

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

- + 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:

- 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.

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2 Test Configuration of Equipment Under Test

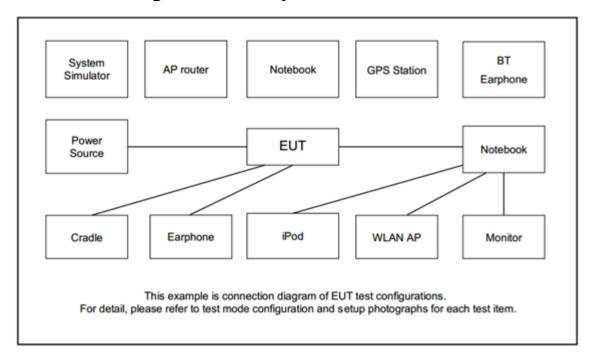
2.1 Test Mode

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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| Conducted | Band | Bandwidth (MHz) | | | Modulation | | RB# | | Test Channel | | | | | | |
|----------------------|--|---|---------|---------|------------|---------|---------|---------------|-----------------|------------|---------|--------|--------|------|-------|
| Test Cases | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 1 | Half | Full | L | M | Н |
| Max. Output Power | 14 | • | • | v | v | • | • | v | ٧ | > | v | v | ٧ | > | v |
| E.R.P | 14 | - | - | v | v | , | - | v | v | Max. Power | | | | | |
| Radiated | | | | | | | | | | | | | | | |
| Spurious | 14 | - | - | v | ٧ | - | - | V | | v | | | V | ٧ | v |
| Emission | | | | | | | | | | | | | | | |
| | 1. The mark "v " means that this configuration is chosen for testing | | | | | | | | | | | | | | |
| | 2. Th | 2. The mark "-" means that this bandwidth is not supported. | | | | | | | | | | | | | |
| Remark | 3. Th | e devi | ce is i | nvesti | gated f | rom 30 | OMHz | to 10 times o | of fundament | al siç | ınal fo | or rad | liated | spur | ious |
| Remark | en | nissior | test u | ınder d | differer | nt RB s | size/of | set and mod | lulations in e | xplor | atory | test. | Subs | eque | ntly, |
| | on | ly the | worst | case e | emissio | ons are | e repoi | ted. | | | | | | | |
| | 4. All | the ra | diated | test c | ases v | were p | erform | ed with Batte | ery 1. | | | | | | |

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 | MT8820C | N/A | N/A | N/A | Unshielded, 1.8 m |
| 2. | System Simulator | MT8821C | N/A | N/A | N/A | Unshielded, 1.8 m |
| 3. | iPod Earphone | Apple | N/A | Verification | Unshielded, 1.0 m | N/A |

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2.4 Frequency List of Low/Middle/High Channels

| LTE Band 14 Channel and Frequency List | | | | | | | | |
|--|------------------------|--------|--------|---------|--|--|--|--|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest | | | | |
| 10 | Channel | - | 23330 | - | | | | |
| 10 | Frequency | - | 793 | - | | | | |
| E | Channel | 23305 | 23330 | 23355 | | | | |
| 5 | Frequency | 790.5 | 793 | 795.5 | | | | |

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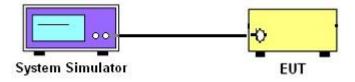
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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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 LTE Band 14.

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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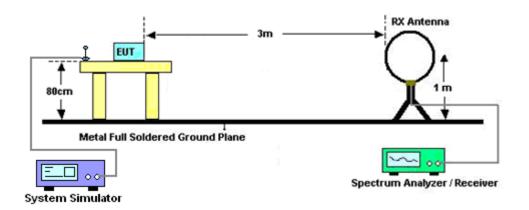
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

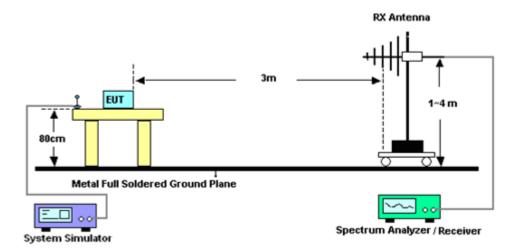
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz

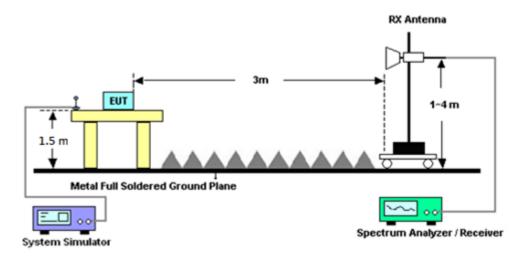


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For radiated test above 1GHz



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.

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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.

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.

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. The RF fundamental frequency should be excluded against the limit line in the operating

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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 |
|---------------------------|--------------------|-------------------------------------|--|----------------------------|---------------------|---------------------------------|---------------|--------------------------|
| Base Station (Measure) | Anritsu | MT8821C | 6262025341 | N/A | Oct. 05, 2021 | Oct. 27, 2021 | Oct. 04, 2022 | Conducted (TH03-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Jan. 04, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Jan. 03, 2022 | Radiation (03CH15-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01 N-06 | 37059 & 01 | 30MHz~1GHz | Oct. 09, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Oct. 08, 2022 | Radiation (03CH15-HY) |
| Bilog Antenna | TESEQ | CBL6111D&00 800N1D01N-0 6 | 41912 & 05 | 30MHz to 1GHz | Feb. 08, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Feb. 07, 2022 | Radiation (03CH15-HY) |
| Amplifier | SONOMA | 310N | 363440 | 9kHz~1GHz | Dec. 28, 2020 | Nov. 13, 2021~ Nov. 18, 2021 | Dec. 27, 2021 | Radiation (03CH15-HY) |
| Horn Antenna | SCHWARZB ECK | BBHA 9120 D | 9120D-01620 | 1-18GHz | Oct. 25, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Oct. 24, 2022 | Radiation (03CH15-HY) |
| Horn Antenna | SCHWARZB ECK | BBHA 9120 D | 9120D-1326 | 1GHz~18GHz | Oct. 25, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Oct. 24, 2022 | Radiation (03CH15-HY) |
| Preamplifier | Jet-Power | JPA0118-55-3 03 | 17100018000 55006 | 1GHz~18GHz | May 06, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | May 05, 2022 | Radiation (03CH15-HY) |
| Preamplifier | Keysight | 83017A | MY53270195 | 1GHz~26.5GHz | Aug. 19, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Aug. 18, 2022 | Radiation (03CH15-HY) |
| Spectrum Analyzer | Keysight | N9038A | MY54130085 | 20MHz~8.4GHz | Oct. 21, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Oct. 20, 2022 | Radiation (03CH15-HY |
| Spectrum Analyzer | Keysight | N9010A | MY54200485 | 10Hz~44GHz | Mar. 05, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Mar. 04, 2022 | Radiation (03CH15-HY) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | Nov. 13, 2021~ Nov. 18, 2021 | N/A | Radiation (03CH15-HY) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | Nov. 13, 2021~ Nov. 18, 2021 | N/A | Radiation (03CH15-HY) |
| Software | Audix | E3 6.2009-8-24 (k5) | RK-000451 | N/A | N/A | Nov. 13, 2021~ Nov. 18, 2021 | N/A | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104, 102E | MY36980/4, MY9838/4PE ,508405/2E | 30MHz~18G | Nov. 16, 2020 | Nov. 13, 2021~ Nov. 14, 2021 | Nov. 15, 2021 | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104, 102E | MY36980/4, MY9838/4PE ,508405/2E | 30MHz~18G | Nov. 15, 2021 | Nov. 15, 2021~ Nov. 18, 2021 | Nov. 14, 2022 | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30MHz-40GHz | Feb. 22, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Feb. 21, 2022 | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 800740/2 | 30MHz-40GHz | Feb. 22, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Feb. 21, 2022 | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY9837/4PE | 9kHz~30MHz | Mar. 11, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Mar. 10, 2022 | Radiation (03CH15-HY) |
| Filter | Wainwright | WLK4-1000-1 530-8000-40S S | SN12 | 1.53GHz Low Pass Filter | Sep. 14, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Sep. 13, 2022 | Radiation (03CH15-HY) |
| Filter | Wainwright | WHKX12-935- 1000-15000-4 0ST | SN1 | 1GHz High Pass Filter | Apr. 29, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Apr. 28, 2022 | Radiation (03CH15-HY) |
| Filter | Wainwright | WHKX12-270 0-3000-18000- 60ST | SN4 | 3GHz High Pass Filter | Sep. 15, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Sep. 14, 2022 | Radiation (03CH15-HY) |
| Signal Generator | Anritsu | MG3694C | 163401 | 0.1Hz~40GHz | Jan. 31, 2021 | Nov. 13, 2021~ Nov. 18, 2021 | Jan. 30, 2022 | Radiation (03CH15-HY) |

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6 Uncertainty of Evaluation

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

| Measuring Uncertainty for a Level of | 2 02 AB |
|--------------------------------------|---------|
| Confidence of 95% (U = 2Uc(y)) | 2.92 dB |

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

| Measuring Uncertainty for a Level of | 2 72 AB |
|--------------------------------------|---------|
| Confidence of 95% (U = 2Uc(y)) | 3.72 dB |

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

| | LTE Band 14 Maximum Average Power [dBm] (GT - LC = 0.69 dB) | | | | | | | | | | |
|----------|---|-----------|--------|--------|--------|---------|-----------|---------|--|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) | | | |
| 10 | 1 | 0 | | | 24.20 | | | | | | |
| 10 | 1 | 25 | | | 24.16 | | | | | | |
| 10 | 1 | 49 | | | 23.52 | | | | | | |
| 10 | 25 | 0 | QPSK | | 23.22 | | 22.74 | 0.1879 | | | |
| 10 | 25 | 12 | | | 23.06 | | | | | | |
| 10 | 25 | 25 | | | 23.12 | | | | | | |
| 10 | 50 | 0 | | _ | 23.21 | _ | | | | | |
| 10 | 1 | 0 | | - | 22.91 | _ | | | | | |
| 10 | 1 | 25 | | | 23.23 | | | | | | |
| 10 | 1 | 49 | | | 22.76 | | | | | | |
| 10 | 25 | 0 | 16-QAM | | 22.26 | | 21.77 | 0.1503 | | | |
| 10 | 25 | 12 | | | 22.18 | | | | | | |
| 10 | 25 | 25 | | | 22.31 | | | | | | |
| 10 | 50 | 0 | | | 22.26 | | | | | | |
| Limit | | ERP < 3W | | | Result | | Pa | ass | | | |

| | LTE Band 14 Maximum Average Power [dBm] (GT - LC = 0.69 dB) | | | | | | | | | | |
|----------|---|-----------|--------|--------|--------|---------|-----------|---------|--|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) | | | |
| 5 | 1 | 0 | | 24.11 | 24.17 | 24.10 | | | | | |
| 5 | 1 | 12 | | 24.15 | 24.11 | 24.17 | | | | | |
| 5 | 1 | 24 | | 23.60 | 23.52 | 23.55 | 22.71 | | | | |
| 5 | 12 | 0 | QPSK | 23.17 | 23.21 | 23.16 | | 0.1866 | | | |
| 5 | 12 | 7 | | 23.04 | 23.14 | 23.00 | | | | | |
| 5 | 12 | 13 | | 23.02 | 23.10 | 23.17 | | | | | |
| 5 | 25 | 0 | | 23.16 | 23.19 | 23.23 | | | | | |
| 5 | 1 | 0 | | 22.97 | 22.85 | 22.99 | | 0.1489 | | | |
| 5 | 1 | 12 | | 23.18 | 23.19 | 23.15 | | | | | |
| 5 | 1 | 24 | | 22.81 | 22.67 | 22.74 | | | | | |
| 5 | 12 | 0 | 16-QAM | 22.16 | 22.25 | 22.30 | 21.73 | | | | |
| 5 | 12 | 7 | | 22.21 | 22.27 | 22.22 | | | | | |
| 5 | 12 | 13 | | 22.23 | 22.24 | 22.36 | | | | | |
| 5 | 25 | 0 | | 22.27 | 22.30 | 22.27 | | | | | |
| Limit | | ERP < 3W | | | Result | | Pa | ISS | | | |

Appendix B. Test Results of Radiated Test

LTE Band 14

Report No.: FG101802C

| | LTE Band 14 / 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) | | |
| | 1576 | -66.63 | -42.15 | -24.48 | -69.72 | -71.44 | 1.79 | 8.76 | Н | | |
| | 2368 | -59.96 | -13 | -46.96 | -65.73 | -65.59 | 2.20 | 9.98 | Н | | |
| | 3153 | -63.59 | -13 | -50.59 | -71.85 | -70.30 | 2.55 | 11.41 | Н | | |
| | | | | | | | | | Н | | |
| Lawast | | | | | | | | | Н | | |
| Lowest | 1576 | -64.66 | -42.15 | -22.51 | -68.02 | -69.47 | 1.79 | 8.76 | V | | |
| | 2368 | -58.57 | -13 | -45.57 | -65.05 | -64.20 | 2.20 | 9.98 | V | | |
| | 3153 | -62.16 | -13 | -49.16 | -70.91 | -68.87 | 2.55 | 11.41 | V | | |
| | | | | | | | | | V | | |
| | | | | | | | | | V | | |
| | 1581 | -65.38 | -42.15 | -23.23 | -68.41 | -70.22 | 1.80 | 8.79 | Н | | |
| | 2368 | -57.24 | -13 | -44.24 | -63.01 | -62.87 | 2.20 | 9.98 | Н | | |
| | 3163 | -63.66 | -13 | -50.66 | -71.99 | -70.40 | 2.56 | 11.45 | Н | | |
| | | | | | | | | | Н | | |
| NA: -I -II - | | | | | | | | | Н | | |
| Middle | 1581 | -64.71 | -42.15 | -22.56 | -68.04 | -69.55 | 1.80 | 8.79 | V | | |
| | 2368 | -58.22 | -13 | -45.22 | -64.70 | -63.85 | 2.20 | 9.98 | V | | |
| | 3163 | -62.68 | -13 | -49.68 | -71.49 | -69.42 | 2.56 | 11.45 | V | | |
| | | | | | | | | | V | | |
| | | | | | | | | | V | | |

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| Highest | 1584 | -64.53 | -42.15 | -22.38 | -67.54 | -69.39 | 1.80 | 8.80 | Н |
|---------|------|--------|--------|--------|--------|--------|------|-------|---|
| | 2376 | -60.68 | -13 | -47.68 | -66.46 | -66.39 | 2.20 | 10.06 | Н |
| | 3173 | -63.09 | -13 | -50.09 | -71.48 | -69.87 | 2.56 | 11.49 | Н |
| | | | | | | | | | Н |
| | | | | | | | | | Н |
| | 1586 | -58.42 | -42.15 | -16.27 | -61.75 | -63.29 | 1.80 | 8.82 | V |
| | 2380 | -58.07 | -13 | -45.07 | -64.57 | -63.82 | 2.20 | 10.10 | V |
| | 3173 | -61.50 | -13 | -48.50 | -70.36 | -68.28 | 2.56 | 11.49 | V |
| | | | | | | | | | ٧ |
| | | | | | | | | | V |

Report No.: FG1O1802C

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

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| | LTE Band 14 / 10MHz / 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) | | |
| | 1577 | -65.38 | -42.15 | -23.23 | -68.47 | -70.20 | 1.79 | 8.76 | Н | | |
| | 2368 | -58.35 | -13 | -45.35 | -64.12 | -63.98 | 2.20 | 9.98 | Н | | |
| | 3154 | -63.49 | -13 | -50.49 | -71.75 | -70.20 | 2.55 | 11.42 | Н | | |
| | | | | | | | | | Н | | |
| Middle | | | | | | | | | Н | | |
| Middle | 1577 | -62.76 | -42.15 | -20.61 | -66.12 | -67.58 | 1.79 | 8.76 | V | | |
| | 2368 | -58.92 | -13 | -45.92 | -65.4 | -64.55 | 2.20 | 9.98 | V | | |
| | 3152 | -62.03 | -13 | -49.03 | -70.78 | -68.74 | 2.55 | 11.41 | V | | |
| | | _ | | | | | | | V | | |
| | | | | | | | | | V | | |

Report No. : FG1O1802C

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

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