

Report No.: KSEM210700112907

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TEST REPORT

Application No.: KSEM2107001129CR

FCC ID: 2AH25T5F01

Applicant: Shanghai Sunmi Technology Co.,Ltd.

Address of Applicant: Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai,

China

Manufacturer: Shanghai Sunmi Technology Co.,Ltd.

Address of Manufacturer: Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai,

China

Factory: Shanghai Sunmi Technology Co.,Ltd.

Address of Factory: Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai,

China

Equipment Under Test (EUT):

EUT Name: Wireless data POS System

Model No.: T5F01

Trade mark: SUNMI

Standard(s): 47 CFR Part 2

47 CFR Part 22 47 CFR Part 24 47 CFR Part 27

Date of Receipt: 2021-02-07

Date of Test: 2021-05-18 to 2021-07-02

Date of Issue: 2021-07-05

Test Result: Pass

Eric Lin Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | | |
|---------------------------------|----------|------------|---|--|--|
| Version Description Date Remark | | | | | |
| 00 | Original | 2021-07-05 | 1 | | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | |
|--------------------------|-------------------------------|
| | Damon zhou |
| | Damon Zhou / Project Engineer |
| | Eric Li |
| | Eric Lin / Reviewer |



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2 Test Summary

| Test Item | FCC Rule No. | Requirements | Verdict |
|--|--|---|---------|
| Effective (Isotropic) Radiated Power Output Data | \$2.1046 \$22.913 \$24.232 \$27.50(b) \$27.50(c) \$27.50(d) \$27.50(h) | ERP≤7W(LTE Band 5) EIRP≤ 3W(LTE Band 12,13,17) EIRP≤ 2W(LTE Band 2,7,38,41) EIRP≤ 1W(LTE Band 4) EIRP≤ 0.25W(LTE Band 40) | PASS |
| Peak-Average Ratio | §24.232 §27.50(c) §27.50(d) | ≤13dB | PASS |
| Modulation Characteristics | §2.1047 | Digital modulation | PASS |
| Bandwidth | §2.1049(h) | OBW:No limit EBW: No limit | PASS |
| Band Edge Compliance | \$2.1051 \$22.917 \$24.238 \$27.53(c) \$27.53(h) \$27.53(g) | ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block ≤ -13dBm(LTE Band7, <5.5MHz) -25dBm(LTE Band7, ≥5.5MHz) LTE Band 13 should follow FCC §27.53(c): On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB. On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. | PASS |
| Spurious emissions at antenna terminals | §2.1051 §22.917 §24.238 §27.53(c) §27.53(h) §27.53(g) | ≤ -13dBm(LTE Band2,4,5,13,17) ≤ -25dBm(LTE Band7,38,41) ≤ -40dBm(LTE Band40) | PASS |
| Field strength of spurious radiation | §2.1051 §22.917 §24.238 §27.53(c) §27.53(h) §27.53(g) | ≤ -13dBm(LTE Band2,4,5,13,17) ≤ -25dBm(LTE Band7,38,41) ≤ -40dBm(LTE Band40) | PASS |
| Frequency stability | §2.1055, §22.355, §24.235 §27.54 | ≤ ±2.5ppm. | PASS |



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4 General Information

4.1 Details of E.U.T.

| Power supply: | DC 7.7V by Rechargeable Li-Polymer Battery charged by Adapter Battery Model: JKPJ 2ICP5/62/70 Nominal voltage:7.7V Limited charge voltage:8.8V Rated capacity:3500mAh/26.95Wh Typical capacity:3600mAh/27.22Wh Adapter Model: CK18W02U INPUT:100-240V,50/60Hz,0.5A OUTPUT:5V,3A;9V,2A;12V,1.5A |
|----------------------------------|---|
| Test voltage: | DC 7.7V |
| Serial Number: | VM08D14U20116 |
| Firmware version: | Ambh6e |
| Sample Type: | Portable production |
| LTE Operation Frequency Band: | LTE Band 2,4,5,7,13,17,38,40,41 |
| Modulation Type: | QPSK, 16QAM |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | Band 2:2.7dBi(Provided by the manufacturer) Band 4: 2.1dBi(Provided by the manufacturer) Band 5: 2.4dBi(Provided by the manufacturer) Band 7: 1.8dBi(Provided by the manufacturer) Band 13: 2.5dBi(Provided by the manufacturer) Band 17: -5dBi(Provided by the manufacturer) Band 38: 1.6dBi(Provided by the manufacturer) Band 40: 1.4dBi(Provided by the manufacturer) Band 41: 1.8dBi(Provided by the manufacturer) |
| Extreme temp. Tolerance: | -20°C to +60°C |
| Extreme vol. Limits: | 6.93V DC to 8.47V DC (nominal: 7.7V DC) |
| IMEI: | 869489050044606 |
| Noto: | |

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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4.2 Test Frequency

| Z Test Frequenc | Nominal | ninal RF Channel | | | | |
|-----------------|-----------|------------------|------------|----------|--|--|
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | | |
| | (MHz) | MHz | MHz | MHz | | |
| | 1.4 | 1850.7 | 1880 | 1909.3 | | |
| | 3 | 1851.5 | 1880 | 1908.5 | | |
| LTE EDD Dand 0 | 5 | 1852.5 | 1880 | 1907.5 | | |
| LTE FDD Band 2 | 10 | 1855.0 | 1880 | 1905.0 | | |
| | 15 | 1857.5 | 1880 | 1902.5 | | |
| | 20 | 1860.0 | 1880 | 1900.0 | | |
| | Nominal | | RF Channel | | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | | |
| | (MHz) | MHz | MHz | MHz | | |
| | 1.4 | 1710.7 | 1732.5 | 1754.3 | | |
| | 3 | 1711.5 | 1732.5 | 1753.5 | | |
| LTE FDD Band 4 | 5 | 1712.5 | 1732.5 | 1752.5 | | |
| LIE FDD Band 4 | 10 | 1715.0 | 1732.5 | 1750.0 | | |
| | 15 | 1717.5 | 1732.5 | 1747.5 | | |
| | 20 | 1720.0 | 1732.5 | 1745.0 | | |
| | Nominal | | | | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | | |
| | (MHz) | MHz | MHz | MHz | | |
| | 1.4 | 824.7 | 836.5 | 848.3 | | |
| LTE FDD Band 5 | 3 | 825.5 | 836.5 | 847.5 | | |
| LIE FUU Band 5 | 5 | 826.5 | 836.5 | 846.5 | | |
| | 10 | 829.0 | 836.5 | 844.0 | | |
| | Nominal | | | | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | | |
| | (MHz) | MHz | MHz | MHz | | |
| | 5 | 2502.5 | 2535 | 2567.5 | | |
| LTE FDD Band 7 | 10 | 2505 | 2535 | 2565 | | |
| רוב רחח סמוומ / | 15 | 2507.5 | 2535 | 2562.5 | | |
| | 20 | 2510 | 2535 | 2560 | | |
| | Nominal | | RF Channel | | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | | |
| | (MHz) | MHz | MHz | MHz | | |
| LTE FDD Band | 5 | 779.5 | 782 | 784.5 | | |
| 13 | 10 | 1 | 782 | / | | |
| | | , | | | | |



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| | Bandwidth | Low (L) | Middle (M) | High (H) | |
|-----------------------|-----------|------------|------------|----------|--|
| | (MHz) | MHz | MHz | MHz | |
| LTE FDD Band | 5 | 706.5 | 710 | 713.5 | |
| 17 | 10 | 709 | 710 | 711 | |
| | Nominal | | RF Channel | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | |
| | (MHz) | MHz | MHz | MHz | |
| | 5 | 2572.5 | 2595.0 | 2617.5 | |
| LTE TDD Band | 10 | 2575.0 | 2595.0 | 2615.0 | |
| 38 | 15 | 2577.5 | 2595.0 | 2612.5 | |
| | 20 | 2580.0 | 2595.0 | 2610.0 | |
| | Nominal | | RF Channel | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | |
| | (MHz) | MHz | MHz | MHz | |
| LTE TDD Band 40 | 5 | 2307.5 | 2310 | 2312.5 | |
| (2305MHz- 2315MHz) | 10 | 1 | 2310 | / | |
| | Nominal | RF Channel | | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | |
| | (MHz) | MHz | MHz | MHz | |
| LTE TDD Band 40 | 5 | 2352.5 | 2355 | 2357.5 | |
| (2350MHz- 2360MHz) | 10 | 1 | 2355 | 1 | |
| | Nominal | RF Channel | | | |
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) | |
| | (MHz) | MHz | MHz | MHz | |
| | 5 | 2498.5 | 2593.0 | 2687.5 | |
| LTE TDD Band | 10 | 2501.0 | 2593.0 | 2685.0 | |
| 41 | 15 | 2503.5 | 2593.0 | 2682.5 | |
| | 20 | 2506.0 | 2593.0 | 2680.0 | |



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4.3 Test Environment

| Environment Parameter | Selected Values During Tests | | |
|-----------------------|------------------------------|-------|--|
| Relative Humidity | 48% | | |
| Atmospheric Pressure: | 1015Pa | | |
| Temperature: | TN | 25 °C | |
| | VL | 108 V | |
| Voltage: | VN | 120 V | |
| | VH | 132 V | |

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TN= normal temperature

4.4 Description of Support Units

The EUT has been tested as an independent unit.



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4.5 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|--|-------------------------|
| 1 | Radio Frequency | 8.4 x 10 ⁻⁸ |
| 2 | Timeout | 2s |
| 3 | Duty cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF conducted power | 0.6dB |
| 6 | RF power density | 2.84dB |
| 7 | Conducted Spurious emissions | 0.75dB |
| 8 | DE Dedicted newer | 4.6dB (Below 1GHz) |
| 0 | RF Radiated power | 4.1dB (Above 1GHz) |
| | | 4.2dB (Below 30MHz) |
| | Bulliote I Committee and indicate to the | 4.4dB (30MHz-1GHz) |
| 9 | Radiated Spurious emission test | 4.8dB (1GHz-18GHz) |
| | | 5.2dB (Above 18GHz) |
| 10 | Temperature test | 1°C |
| 11 | Humidity test | 3% |
| 12 | Supply voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
|------|--------------------------------------|---------------|--------------|-------------------|------------|---------------|
| RF | Conducted Test | | | | | |
| 1 | Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/16/2021 | 04/15/2022 |
| 2 | Spectrum Analyzer | Keysight | N9020A | MY55370209 | 12/02/2020 | 12/01/2021 |
| 3 | Spectrum Analyzer | Keysight | N9010A | MY56480443 | 02/01/2021 | 01/31/2022 |
| 4 | Signal Generator | Agilent | N5182A | MY50142015 | 09/25/2020 | 09/24/2021 |
| 5 | Radio Communication Test Station | Anritsu | MT8000A | 6262012849 | N/A | N/A |
| 6 | Radio Communication Analyzer | Anritsu | MT8821C | 6201692222 | N/A | N/A |
| 7 | Universal Radio Communication Tester | R&S | CMW500 | 159275 | 10/19/2020 | 10/18/2021 |
| 8 | Universal Radio Communication Tester | R&S | CMW500 | 167239 | 04/16/2021 | 04/15/2022 |
| 9 | Power Meter | Anritsu | ML2495A | 1445010 | 04/15/2021 | 04/14/2022 |
| 10 | Switcher | CCSRF | FY562 | KUS2001M001 -3 | 10/19/2020 | 10/18/2021 |
| 11 | 6dB Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R | N.C.R |
| 12 | Power Divider | AISI | IOWOPE2068 | PE2068 | N.C.R | N.C.R |
| 13 | Filter | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 14 | Conducted test cable | 1 | RF01-RF04 | 1 | 04/15/2021 | 04/14/2022 |
| 15 | Software | BST | TST-PASS | N/A | N/A | N/A |
| 16 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | X30109 | 04/15/2021 | 04/14/2022 |
| 17 | Thermometer | Anymetre | TH603 | CCS007 | 10/16/2020 | 10/15/2021 |
| RF R | adiated Test | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 10/19/2020 | 10/18/2021 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 10/19/2020 | 10/18/2021 |
| 3 | Loop Antenna | Schwarzbeck | HXYZ9170 | 9170-108 | 02/22/2021 | 02/21/2022 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2021 | 06/20/2023 |
| 5 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/13/2021 | 04/12/2023 |
| 6 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 10/26/2020 | 10/25/2022 |
| 7 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/22/2021 | 02/21/2023 |
| 8 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/22/2021 | 02/21/2022 |
| 9 | Pre-Amplifier(30MHz~18GHz) | LNA | / | / | 04/15/2021 | 04/14/2022 |
| 10 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | 461332 | 10/23/2020 | 10/22/2021 |
| 11 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 12 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 13 | Filter (885 MHz~915 MHz) | MICRO-TRONICS | BRM14698 | 1 | N.C.R | N.C.R |
| 14 | Filter (815 MHz~860 MHz) | MICRO-TRONICS | BRM14697 | 1 | N.C.R | N.C.R |
| 15 | Filter (1745 MHz~1910 MHz) | MICRO-TRONICS | BRM14700 | 1 | N.C.R | N.C.R |
| 16 | Filter (1922 MHz~1977 MHz) | MICRO-TRONICS | BRM50715 | 1 | N.C.R | N.C.R |
| 17 | Filter (2550 MHz) | MICRO-TRONICS | HPM13362 | 5 | N.C.R | N.C.R |
| 18 | Filter (1532 MHz~1845 MHz) | MICRO-TRONICS | BRM50713 | 1 | N.C.R | N.C.R |
| 19 | Filter (2.4GHz) | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 20 | RE test cable | / | RE01-RE04 | / | 04/15/2021 | 04/14/2022 |
| 21 | Software | Faratronic | EZ_EMC-v 3A1 | N/A | N/A | N/A |



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046,§22.913,§24.232,§27.50(b),§27.50(c),§27.50(d),

§27.50(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ERP≤7W(LTE Band 5)

EIRP≤ 3W(LTE Band 13,17) EIRP≤ 2W(LTE Band 2,7,38,41)

EIRP≤ 1W(LTE Band 4) EIRP≤ 0.25W(LTE Band 40)

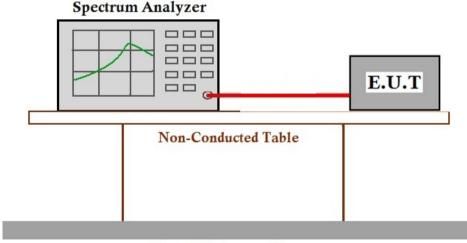
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data

Please refer to Appendix G for KSEM210700112907



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6.2 Peak-Average Ratio

Test Requirement: §24.232,§27.50(c),§27.50(d)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

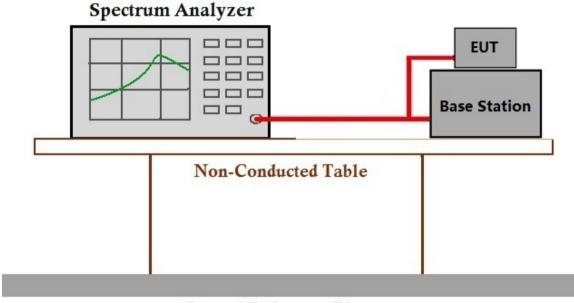
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix G for KSEM210700112907



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6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: OBW: No limit EBW: No limit

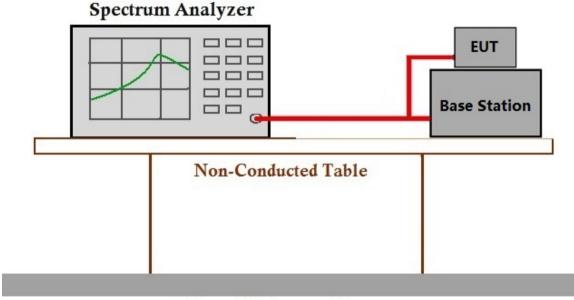
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix G for KSEM210700112907



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6.4 Band Edge Compliance

Test Requirement: §2.1051

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to

the frequency block

LTE Band 13 should follow FCC $\S27.53(c)$: On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and

portable stations.

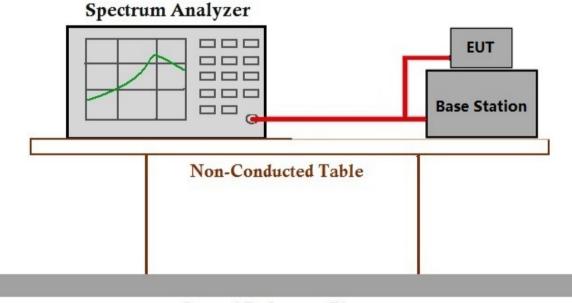
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data

Please refer to Appendix G for KSEM210700112907

Remark: The emission of frequencies between 793MHz-805MHz meets the requirements of FCC, test plots don't reflected in the report.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051

Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤ -13dBm(LTE Band2,4,5,13,17)
≤ -25dBm(LTE Band7,38,41)

≤ -40dBm(LTE Band40)

For operations in the 775-788MHz, emissions in the 1559-1610MHz shall be

limited to -70dBW/MHz, The limit of emissions is equal to -40dBm.

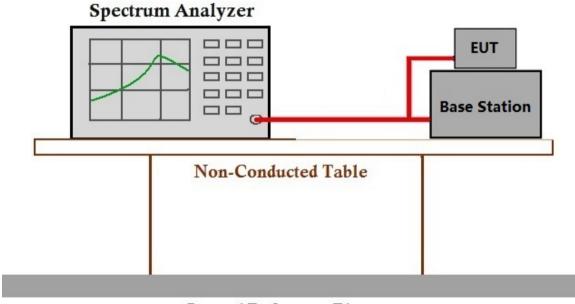
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix G for KSEM210700112907



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6.6 Field strength of spurious radiation

Test Requirement: §2.1051

Test Method: ANSI C63.26, KDB 971168 D01 v03 Limit: ≤ -13dBm(LTE Band2,4,5,13,17) ≤ -25dBm(LTE Band7,38,41)

≤ -40dBm(LTE Band40)

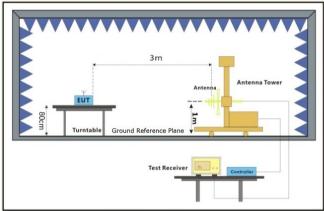
6.6.1 E.U.T. Operation

Operating Environment:

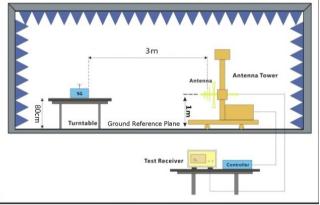
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram



EUT



Substiute Antenna+Signal Generator



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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| LTE BAND 2-Low channel | | | | | |
|------------------------|--------|-------|------------|--------------|--|
| Frequency | Level | Limit | Over Limit | Polarization | |
| (MHz) | (dBm) | (dBm) | (dB) | | |
| 3720.000 | -58.94 | -13 | -45.94 | Horizontal | |
| 5580.000 | -58.72 | -13 | -45.72 | Horizontal | |
| 7440.000 | -57.57 | -13 | -44.57 | Horizontal | |
| 3720.000 | -51.20 | -13 | -38.20 | Vertical | |
| 5580.000 | -59.39 | -13 | -46.39 | Vertical | |
| 7440.000 | -57.62 | -13 | -44.62 | Vertical | |

| LTE BAND 2-Middle channel | | | | |
|---------------------------|--------|-------|------------|--------------|
| Frequency | Level | Limit | Over Limit | Polarization |
| (MHz) | (dBm) | (dBm) | (dB) | |
| 3760.000 | -51.11 | -13 | -38.11 | Horizontal |
| 5640.000 | -60.29 | -13 | -47.29 | Horizontal |
| 7520.000 | -55.71 | -13 | -42.71 | Horizontal |
| 3760.000 | -53.83 | -13 | -40.83 | Vertical |
| 5640.000 | -58.60 | -13 | -45.60 | Vertical |
| 7520.000 | -59.60 | -13 | -46.60 | Vertical |

| | LTE BAND 2-High channel | | | | |
|-----------|-------------------------|-------|------------|--------------|--|
| Frequency | Level | Limit | Over Limit | Polarization | |
| (MHz) | (dBm) | (dBm) | (dB) | | |
| 3800.000 | -60.96 | -13 | -47.96 | Horizontal | |
| 5700.000 | -60.92 | -13 | -47.92 | Horizontal | |
| 7600.000 | -52.75 | -13 | -39.75 | Horizontal | |
| 3800.000 | -56.46 | -13 | -43.46 | Vertical | |
| 5700.000 | -63.11 | -13 | -50.11 | Vertical | |
| 7600.000 | -55.44 | -13 | -42.44 | Vertical | |



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| LTE BAND 4-Low channel | | | | |
|------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3440.000 | -56.62 | -13 | -43.62 | Horizontal |
| 5160.000 | -59.36 | -13 | -46.36 | Horizontal |
| 6880.000 | -56.94 | -13 | -43.94 | Horizontal |
| 3440.000 | -53.12 | -13 | -40.12 | Vertical |
| 5160.000 | -59.17 | -13 | -46.17 | Vertical |
| 6880.000 | -55.77 | -13 | -42.77 | Vertical |

| LTE BAND 4-Middle channel | | | | |
|---------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3465.000 | -58.32 | -13 | -45.32 | Horizontal |
| 5197.500 | -58.05 | -13 | -45.05 | Horizontal |
| 6930.000 | -58.53 | -13 | -45.53 | Horizontal |
| 3465.000 | -59.18 | -13 | -46.18 | Vertical |
| 5197.500 | -57.75 | -13 | -44.75 | Vertical |
| 6930.000 | -55.22 | -13 | -42.22 | Vertical |

| LTE BAND 4-High channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3490.000 | -59.04 | -13 | -46.04 | Horizontal |
| 5235.000 | -63.11 | -13 | -50.11 | Horizontal |
| 6980.000 | -55.63 | -13 | -42.63 | Horizontal |
| 3490.000 | -53.48 | -13 | -40.48 | Vertical |
| 5235.000 | -61.29 | -13 | -48.29 | Vertical |
| 6980.000 | -57.35 | -13 | -44.35 | Vertical |



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| LTE BAND 5-Low channel | | | | |
|------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1658.000 | -55.87 | -13 | -42.87 | Horizontal |
| 2487.000 | -57.04 | -13 | -44.04 | Horizontal |
| 3316.000 | -56.19 | -13 | -43.19 | Horizontal |
| 1658.000 | -60.56 | -13 | -47.56 | Vertical |
| 2487.000 | -56.11 | -13 | -43.11 | Vertical |
| 3316.000 | -53.47 | -13 | -40.47 | Vertical |

| LTE BAND 5-Middle channel | | | | |
|---------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1673.000 | -57.26 | -13 | -44.26 | Horizontal |
| 2509.500 | -58.90 | -13 | -45.90 | Horizontal |
| 3346.000 | -59.78 | -13 | -46.78 | Horizontal |
| 1673.000 | -51.32 | -13 | -38.32 | Vertical |
| 2509.500 | -59.29 | -13 | -46.29 | Vertical |
| 3346.000 | -56.34 | -13 | -43.34 | Vertical |

| LTE BAND 5-High channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1688.000 | -58.80 | -13 | -45.80 | Horizontal |
| 2532.000 | -60.72 | -13 | -47.72 | Horizontal |
| 3376.000 | -54.89 | -13 | -41.89 | Horizontal |
| 1688.000 | -55.03 | -13 | -42.03 | Vertical |
| 2532.000 | -62.15 | -13 | -49.15 | Vertical |
| 3376.000 | -54.17 | -13 | -41.17 | Vertical |



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| LTE BAND 7-Low channel | | | | |
|------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5020.000 | -54.15 | -25 | -29.15 | Horizontal |
| 7530.000 | -60.68 | -25 | -35.68 | Horizontal |
| 10040.000 | -57.93 | -25 | -32.93 | Horizontal |
| 5020.000 | -58.26 | -25 | -33.26 | Vertical |
| 7530.000 | -56.57 | -25 | -31.57 | Vertical |
| 10040.000 | -54.49 | -25 | -29.49 | Vertical |

| LTE BAND 7-Middle channel | | | | |
|---------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5070.000 | -53.08 | -25 | -28.08 | Horizontal |
| 7605.000 | -61.68 | -25 | -36.68 | Horizontal |
| 10140.000 | -56.14 | -25 | -31.14 | Horizontal |
| 5070.000 | -58.29 | -25 | -33.29 | Vertical |
| 7605.000 | -58.5 | -25 | -33.5 | Vertical |
| 10140.000 | -56.25 | -25 | -31.25 | Vertical |

| LTE BAND 7-High channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5120.000 | -58.33 | -25 | -33.33 | Horizontal |
| 7680.000 | -60.8 | -25 | -35.8 | Horizontal |
| 10240.000 | -56.67 | -25 | -31.67 | Horizontal |
| 5120.000 | -60.32 | -25 | -35.32 | Vertical |
| 7680.000 | -58.88 | -25 | -33.88 | Vertical |
| 10240.000 | -54.23 | -25 | -29.23 | Vertical |



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| LTE BAND 12-Low channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1408.000 | -52.32 | -13 | -39.32 | Horizontal |
| 2112.000 | -58.70 | -13 | -45.70 | Horizontal |
| 2816.000 | -53.40 | -13 | -40.40 | Horizontal |
| 1408.000 | -50.99 | -13 | -37.99 | Vertical |
| 2112.000 | -56.24 | -13 | -43.24 | Vertical |
| 2816.000 | -56.91 | -13 | -43.91 | Vertical |

| LTE BAND 12-Middle channel | | | | |
|----------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1415.000 | -59.83 | -13 | -46.83 | Horizontal |
| 2122.500 | -58.60 | -13 | -45.60 | Horizontal |
| 2830.000 | -56.40 | -13 | -43.40 | Horizontal |
| 1415.000 | -59.82 | -13 | -46.82 | Vertical |
| 2122.500 | -58.96 | -13 | -45.96 | Vertical |
| 2830.000 | -59.33 | -13 | -46.33 | Vertical |

| LTE BAND 12-High channel | | | | |
|--------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1422.000 | -60.18 | -13 | -47.18 | Horizontal |
| 2133.000 | -63.28 | -13 | -50.28 | Horizontal |
| 2844.000 | -54.61 | -13 | -41.61 | Horizontal |
| 1422.000 | -58.23 | -13 | -45.23 | Vertical |
| 2133.000 | -60.46 | -13 | -47.46 | Vertical |
| 2844.000 | -52.65 | -13 | -39.65 | Vertical |



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| LTE BAND 13-Low channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1559.000 | -60.10 | -40 | -40 | Horizontal |
| 2338.500 | -56.93 | -13 | -13 | Horizontal |
| 3118.000 | -56.32 | -13 | -13 | Horizontal |
| 1559.000 | -60.08 | -40 | -40 | Vertical |
| 2338.500 | -60.66 | -13 | -13 | Vertical |
| 3118.000 | -55.75 | -13 | -13 | Vertical |

| LTE BAND 13-Middle channel | | | | |
|----------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1564.000 | -58.52 | -40 | -18.52 | Horizontal |
| 2346.000 | -58.91 | -13 | -45.91 | Horizontal |
| 3128.000 | -59.37 | -13 | -46.37 | Horizontal |
| 1564.000 | -59.38 | -40 | -19.38 | Vertical |
| 2346.000 | -58.08 | -13 | -45.08 | Vertical |
| 3128.000 | -58.16 | -13 | -45.16 | Vertical |

| LTE BAND 13-High channel | | | | |
|--------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1569.000 | -60.29 | -40 | -20.29 | Horizontal |
| 2353.500 | -59.72 | -13 | -46.72 | Horizontal |
| 3138.000 | -56.60 | -13 | -43.60 | Horizontal |
| 1569.000 | -54.96 | -40 | -14.96 | Vertical |
| 2353.500 | -63.61 | -13 | -50.61 | Vertical |
| 3138.000 | -53.61 | -13 | -40.61 | Vertical |



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| LTE BAND 17-Low channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1418.000 | -54.77 | -13 | -41.77 | Horizontal |
| 2127.000 | -58.66 | -13 | -45.66 | Horizontal |
| 2836.000 | -56.11 | -13 | -43.11 | Horizontal |
| 1418.000 | -58.32 | -13 | -45.32 | Vertical |
| 2127.000 | -60.24 | -13 | -47.24 | Vertical |
| 2836.000 | -53.18 | -13 | -40.18 | Vertical |

| LTE BAND 17-Middle channel | | | | |
|----------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1420.000 | -56.93 | -13 | -43.93 | Horizontal |
| 2130.000 | -58.31 | -13 | -45.31 | Horizontal |
| 2840.000 | -56.11 | -13 | -43.11 | Horizontal |
| 1420.000 | -51.98 | -13 | -38.98 | Vertical |
| 2130.000 | -57.73 | -13 | -44.73 | Vertical |
| 2840.000 | -56.15 | -13 | -43.15 | Vertical |

| | LTE BAND 17-High channel | | | | |
|--------------------|--------------------------|----------------|--------------------|--------------|--|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization | |
| 1422.000 | -59.18 | -13 | -46.18 | Horizontal | |
| 2133.000 | -60.02 | -13 | -47.02 | Horizontal | |
| 2844.000 | -55.60 | -13 | -42.60 | Horizontal | |
| 1422.000 | -52.66 | -13 | -39.66 | Vertical | |
| 2133.000 | -61.18 | -13 | -48.18 | Vertical | |
| 2844.000 | -54.46 | -13 | -41.46 | Vertical | |



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| LTE BAND 38-Low channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5160.000 | -53.91 | -25 | -28.91 | Horizontal |
| 7740.000 | -59.4 | -25 | -34.4 | Horizontal |
| 10320.000 | -56.36 | -25 | -31.36 | Horizontal |
| 5160.000 | -58.78 | -25 | -33.78 | Vertical |
| 7740.000 | -60.7 | -25 | -35.7 | Vertical |
| 10320.000 | -56.02 | -25 | -31.02 | Vertical |

| LTE BAND 38-Middle channel | | | | |
|----------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5190.000 | -53.4 | -25 | -28.4 | Horizontal |
| 7785.000 | -60.73 | -25 | -35.73 | Horizontal |
| 10380.000 | -55.79 | -25 | -30.79 | Horizontal |
| 5190.000 | -58.28 | -25 | -33.28 | Vertical |
| 7785.000 | -59.23 | -25 | -34.23 | Vertical |
| 10380.000 | -55.61 | -25 | -30.61 | Vertical |

| LTE BAND 38-High channel | | | | |
|--------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5220.000 | -53.59 | -25 | -28.59 | Horizontal |
| 7830.000 | -62.91 | -25 | -37.91 | Horizontal |
| 10440.000 | -53.9 | -25 | -28.9 | Horizontal |
| 5220.000 | -54.52 | -25 | -29.52 | Vertical |
| 7830.000 | -59.71 | -25 | -34.71 | Vertical |
| 10440.000 | -52.94 | -25 | -27.94 | Vertical |



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| LTE BAND 40-Low channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 4615.000 | -55.84 | -40 | -15.84 | Horizontal |
| 6922.500 | -58.3 | -40 | -18.3 | Horizontal |
| 9230.000 | -53.1 | -40 | -13.1 | Horizontal |
| 4615.000 | -52.7 | -40 | -12.7 | Vertical |
| 6922.500 | -59.52 | -40 | -19.52 | Vertical |
| 9230.000 | -55.3 | -40 | -15.3 | Vertical |

| LTE BAND 40-Middle channel | | | | |
|----------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 4620.000 | -53.41 | -40 | -13.41 | Horizontal |
| 6930.000 | -58.02 | -40 | -18.02 | Horizontal |
| 9240.000 | -55.7 | -40 | -15.7 | Horizontal |
| 4620.000 | -58.56 | -40 | -18.56 | Vertical |
| 6930.000 | -58.04 | -40 | -18.04 | Vertical |
| 9240.000 | -58.85 | -40 | -18.85 | Vertical |

| LTE BAND 40-High channel | | | | |
|--------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 4625.000 | -53.34 | -40 | -13.34 | Horizontal |
| 6937.500 | -62.77 | -40 | -22.77 | Horizontal |
| 9250.000 | -54.14 | -40 | -14.14 | Horizontal |
| 4625.000 | -58.3 | -40 | -18.3 | Vertical |
| 6937.500 | -60.79 | -40 | -20.79 | Vertical |
| 9250.000 | -55.06 | -40 | -15.06 | Vertical |



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| LTE BAND 41-Low channel | | | | |
|-------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5012.000 | -55.01 | -25 | -30.01 | Horizontal |
| 7518.000 | -56.69 | -25 | -31.69 | Horizontal |
| 10024.000 | -54.13 | -25 | -29.13 | Horizontal |
| 5012.000 | -59.13 | -25 | -34.13 | Vertical |
| 7518.000 | -59.94 | -25 | -34.94 | Vertical |
| 10024.000 | -56.98 | -25 | -31.98 | Vertical |

| LTE BAND 41-Middle channel | | | | |
|----------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5186.000 | -59.91 | -25 | -34.91 | Horizontal |
| 7779.000 | -62.03 | -25 | -37.03 | Horizontal |
| 10372.000 | -58.3 | -25 | -33.3 | Horizontal |
| 5186.000 | -57.3 | -25 | -32.3 | Vertical |
| 7779.000 | -57.42 | -25 | -32.42 | Vertical |
| 10372.000 | -58.25 | -25 | -33.25 | Vertical |

| LTE BAND 41-High channel | | | | |
|--------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 5360.000 | -56.28 | -25 | -31.28 | Horizontal |
| 8040.000 | -61.14 | -25 | -36.14 | Horizontal |
| 10720.000 | -54.4 | -25 | -29.4 | Horizontal |
| 5360.000 | -55.4 | -25 | -30.4 | Vertical |
| 8040.000 | -59.5 | -25 | -34.5 | Vertical |
| 10720.000 | -53.83 | -25 | -28.83 | Vertical |

Remark:

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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6.7 Frequency stability

Test Requirement: §2.1055

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: $\leq \pm 2.5$ ppm.

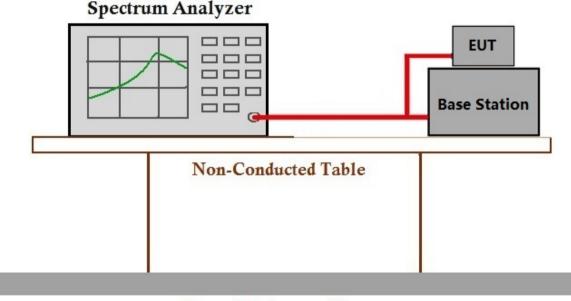
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix G for KSEM210700112907



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6.8 Modulation Characteristics

Test Requirement: §2.1047

Test Method: ANSI C63.26
Limit: Digital modulation

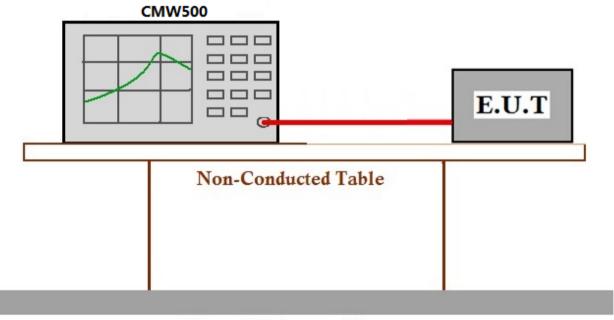
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Please refer to Appendix G for KSEM210700112907



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7 Photographs

Refer to the < Photographs >

- End of the Report -



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