

Report No.: XEWM2305000213RG01

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TEST REPORT

Application No.: XEWM2305000213RG

Applicant: HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED

Address of Applicant: Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,

Kowloon, Hong Kong

Manufacturer: HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED

Address of Manufacturer: Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,

Kowloon, Hong Kong

EUT Description: Revolutionary Intelligent KeyChain

Model No.: GLMT23A01

Trade Mark: GlocalMe

FCC ID: 2AC88-GLMT23A01

47 CFR Part 2 47 CFR Part 22

Standards: 47 CFR Part 24

47 CFR Part 27 47 CFR Part 90

Date of Receipt: 2023/05/09

Date of Test: 2023/05/15 to 2023/07/05

Date of Issue: 2023/07/05

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Peter Tan Regulatory Technical Manager



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1 Version

| Revision Record | | | | |
|--------------------------------------|--|------------|--|----------|
| Version Chapter Date Modifier Remark | | | | |
| 01 | | 2023/07/05 | | Original |

| Prepared By | (Leah Chen) / Test Engineer | |
|-------------|-----------------------------|--|
| Checked By | (Andy Yao) /Reviewer | |



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2 Test Summary

2.1 LTE Band 5/26(824~849 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|--|---|-------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §22.913(a)(5) | ERP ≤ 7 W | Section 1 of Appendix B.2&B.8 | Pass |
| Peak-Average Ratio | §22.913(d) | Limit≤13 dB | Section 2 of Appendix B.2&B.8 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.2&B.8 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.2&B.8 | Pass |
| Band Edges Compliance | §2.1051, §22.917(a) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.2&B.8 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §22.917(a) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.2&B.8 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §22.917(a) | FCC: ≤ -13 dBm/100 kHz. | Section 7 of Appendix B.2&B.8 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §22.355 | ≤ ±2.5ppm. | Section 8 of Appendix B.2&B.8 | Pass |



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2.2 LTE Band 2/25

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|--|---|-------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §24.232(c) | EIRP ≤ 2 W | Section 1 of Appendix B.1&B.6 | Pass |
| Peak-Average Ratio | §24.232(d) | Limit≤13 dB | Section 2 of Appendix B.1&B.6 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.1&B.6 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.1&B.6 | Pass |
| Band Edges Compliance | §2.1051, §24.238(a) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.1&B.6 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §24.238(a) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.1&B.6 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §24.238(a) | ≤ -13 dBm/1 MHz. | Section 7 of Appendix B.1&B.6 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §24.235 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.1&B.6 | Pass |



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2.3 LTE Band 12/17

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|---|---|-------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046 §27.50(c)(10) | ERP≤3W. | Section 1 of Appendix B.3&B.5 | Pass |
| Peak-Average Ratio | | Limit≤13 dB | Section 2 of Appendix B.3&B.5 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.3&B.5 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.3&B.5 | Pass |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.3&B.5 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.3&B.5 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | FCC: ≤ -13 dBm/100 kHz. | Section 7 of Appendix B.3&B.5 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.3&B.5 | Pass |



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2.4 LTE Band 13

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|---|------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(b)(10) | ERP ≤ 3 W. | Section 1 of Appendix B.4 | Pass |
| Peak-Average Ratio | | Limit≤13 dB | Section 2 of Appendix B.4 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.4 | Pass |
| Bandwidth | §2.1049, | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.4 | Pass |
| Band Edges Compliance | §2.1051, §27.53(c) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.4 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(c) §27.53(f) | ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. 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. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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. | Section 6 of Appendix B.4 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(c) §27.53(f) | FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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. | Section 7 of Appendix B.4 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.4 | Pass |



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2.5 LTE Band 26(814~824 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|--|---|------------------------------|---------|
| Transmitter Conducted Power Output | §2.1046, §90.635(b) | < 100 W. | Section 1 of Appendix B.7 | Pass |
| Peak-Average Ratio | | Limit≤13 dB | Section 2 of Appendix B.7 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.7 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.7 | Pass |
| Emission Mask | §2.1051 § 90.691(a) | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. | Section 5 of Appendix B.7 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §90.691 | < 43 + 10Log10(P[Watts]) for all out-of-band emissions | Section 6 of Appendix B.7 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §90.691 | < 43 + 10Log10(P[Watts]) for all out-of-band emissions | Section 7 of Appendix B.7 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §90.213 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.7 | Pass |



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3 General Information

3.1 Details of Client

| Applicant: | HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED | |
|--------------------------|---|--|
| Address of Applicant: | Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong | |
| Manufacturer: | HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED | |
| Address of Manufacturer: | Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong | |

3.2 Test Location

| Company: | SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. | |
|----------------|--|--|
| Address: | 1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China | |
| Post code: | 710086 | |
| Test engineer: | Leah Chen, Weichao Tang | |

3.3 Test Facility

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

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

| EUT Description: | Revolutionary Intelligent KeyChain | | | | |
|------------------------|--|---------|------------------------------|-------------------------------|--|
| Model No.: | GLMT23A01 | | | | |
| Trade Mark: | GlocalMe | | | | |
| Hardware Version: | P020_V3 | | | | |
| Software Version: | T10_HTSV1.0.001.0 | 002.230 | 0601 | | |
| INACI. | RF Conducted | 35368 | 32680004486 | | |
| IMEI: | RSE | 35368 | 32680004411 | | |
| Antenna Type: | ☐ External, ⊠ Inte | grated | | | |
| | LTE Band 2: | 1.98d | Bi | | |
| | LTE Band 5: -0.99dBi | | | | |
| | LTE Band 12: -8.58dBi | | | | |
| | LTE Band 13: -0.96dBi | | | | |
| Antenna Gain: | LTE Band 17: -8.58dBi | | | | |
| | LTE Band 25: 1.98dBi | | | | |
| | LTE Band 26: -0.99dBi | | | | |
| | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | | | | |
| | 9kHz ~ 30MHz (0.3dB) | | 30MHz ~ 1000MHz (0.6dB) | 1000MHz ~ 2000MHz (0.8dB) | |
| RF Cable: | 2000MHz ~ 4000MHz (1.2dB) | | 4000MHz ~ 6000MHz (1.2dB) | 6000MHz ~ 12750MHz (2.6dB) | |
| Above 12750MHz (3.5dB) | | | | | |
| | | | | | |

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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3.5 Test Mode

| Test Mode | Test Modes Description | | | | |
|--|------------------------------|--|--|--|--|
| LTE/TM1 | LTE system, QPSK modulation | | | | |
| LTE/TM2 | LTE system, 16QAM modulation | | | | |
| Remark: The test mode(s) are selected according to relevant radio technology specifications. | | | | | |

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3.6 Test Environment

| Environment Parameter | | 96~98 kPa Selected Values During Tests | | | |
|----------------------------|----------|--|-----------------------------------|--|--|
| Relative Humidity | | 40-60 % RH Ambient | | | |
| Value | | Temperature(°C) | Voltage(V) | | |
| NTNV | | 22~25 | 3.85 | | |
| LTLV | | -30 | 3.47 | | |
| LTHV | | -30 | 4.24 | | |
| HTLV | | 50 | 3.47 | | |
| HTHV | | 50 | 4.24 | | |
| Remark: | | | | | |
| NV: Normal Voltage LV: Low | | xtreme Test Voltage | HV: High Extreme Test Voltage | | |
| NT: Normal Temperature L | : Low Ex | xtreme Test Temperature | HT: High Extreme Test Temperature | | |

3.7 Description of Support Units

The EUT has been tested as an independent unit.



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3.8 Technical Specification

| Characteristics | Description | | | | | | | |
|--|----------------------------------|-----|----------|----------|---------|-------------|----------------|----------|
| Radio System Type | □ LTE | | | | | | | |
| | Band | | TX | | | | RX | |
| | LTE Band 2 | | 1850 to | 191 | 10 MHz | | 1930 to | 1990 MHz |
| | LTE Band 5 | | 824 to 8 | 349 | MHz | | 869 to 8 | 94 MHz |
| | LTE Band 12 | | 699 to 7 | '16 | MHz | | 729 to 7 | 46 MHz |
| | LTE Band 13 | | 777 to 7 | 787 | MHz | | 746 to 7 | 56 MHz |
| Supported Frequency Range | LTE Band 17 | | 704 to 7 | '16 | MHz | | 734 to 7 | 46 MHz |
| | LTE Band 25 | | 1850 to | 191 | 15MHz | | 1930 to | 1995 MHz |
| | LTE Band 26 (814 to 824 MHz) | | 814 to 8 | 324 | МНz | | 859 to 80 | 69 MHz |
| | LTE Band 26 (824 to 849 MHz) | | 824 to 8 | 349 | MHz | | 869 to 894 MHz | |
| | 1.TE D 10 | | ⊠1.4 M | Hz | ⊠3 MHz | | 5 MHz | ⊠10 MHz |
| | LTE Band 2 | | ⊠15 MF | łz | ⊠20 MHz | | | |
| | LTE Band 5 | | ⊠1.4 MI | Hz | ⊠3 MHz | | 5 MHz | ⊠10 MHz |
| | LTE Band 12 | | ⊠1.4 M | Hz | ⊠3 MHz | \boxtimes | 5 MHz | ⊠10 MHz |
| | LTE Band 13 | | ⊠5 MHz | <u> </u> | ⊠10 MHz | | | |
| Supported Channel Bandwidth | LTE Band 17 | | ⊠5 MHz | <u> </u> | ⊠10 MHz | | | |
| | LTE Band 25 | | ⊠1.4 M | Hz | ⊠3 MHz | \boxtimes | 5 MHz | ⊠10 MHz |
| | LTE Ballu 25 | | ⊠15 MH | Ιz | ⊠20 MHz | | | |
| | LTE Band 26(814-824 |) | ⊠1.4 MI | Hz | ⊠3 MHz | \boxtimes | 5 MHz | ⊠10 MHz |
| | LTE Band 26(824-849 | ١ | ⊠1.4 MI | Hz | ⊠3 MHz | \boxtimes | 5 MHz | ⊠10 MHz |
| | LTE Band 20(024-043 | , | ⊠15 MF | Ηz | | | | |
| Characteristics | Description | | | | | | | |
| Designation of Emissions | E-UTRA: | QP | SK | 16 | 6QAM | | | |
| (Remark: the necessary | | 1M | 10G7D | 11 | //11W7D | | | |
| bandwidth of which is the worst value from the | | 2M | 69G7D | 21 | /169W7D | | | |
| measured occupied | LTE Band 2 | 4M | 47G7D | 41 | //46W7D | | | |
| bandwidths for each type of channel bandwidth | | 8M | 91G7D | 4 | //94W7D | | | |
| configuration.) | | 131 | M6G7D | 61 | /104W7D | | | |



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| | T | 1 | , , , , , , , , , , , , , , , , , , , | | | |
|--|---|---------|---|--|--|--|
| | | 18M0G7D | 6M30W7D | | | |
| | | 1M10G7D | 1M11W7D | | | |
| | LTE Band 5 | 2M69G7D | 2M69W7D | | | |
| | LIL Balla 3 | 4M47G7D | 4M46W7D | | | |
| | | 8M90G7D | 4M93W7D | | | |
| | | 1M10G7D | 1M11W7D | | | |
| | LTE Dand 40 | 2M68G7D | 2M68W7D | | | |
| | LTE Band 12 | 4M46G7D | 4M46W7D | | | |
| | | 8M90G7D | 4M93W7D | | | |
| | LTE Day 140 | 4M46G7D | 4M46W7D | | | |
| | LTE Band13 | 8M88G7D | 4M91W7D | | | |
| | LTE David 47 | 4M46G7D | 4M46W7D | | | |
| | LTE Band 17 | 8M91G7D | 4M94W7D | | | |
| | LTE Band 25 | 1M10G7D | 1M11W7D | | | |
| | | 2M69G7D | 2M69W7D | | | |
| | | 4M47G7D | 4M46W7D | | | |
| | | 8M90G7D | 4M95W7D | | | |
| | | 13M6G7D | 6M10W7D | | | |
| | | 18M0G7D | 6M66W7D | | | |
| | | 1M10G7D | 1M11W7D | | | |
| | LTE Band 26 | 2M68G7D | 2M68W7D | | | |
| | (814-824) | 4M47G7D | 4M46W7D | | | |
| | | 8M89G7D | 4M95W7D | | | |
| | | 1M10G7D | 1M11W7D | | | |
| | | 2M69G7D | 2M69W7D | | | |
| | LTE Band 26 | 4M47G7D | 4M46W7D | | | |
| | (824-849) | 8M90G7D | 4M94W7D | | | |
| | | 13M6G7D | 5M92W7D | | | |
| | Note1:Only 27 Resource Blocks for 10MHz/15MHz/20MHz when the modulation is 16QAM. | | | | | |
| | modulation is roughly. | | | | | |



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3.9 Test Frequencies

| Test Mode | Dondwidth | TV / DV | | RF Channel | |
|-------------|-----------|---------|---------------|---------------|---------------|
| rest Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 18607 | Channel 18900 | Channel 19193 |
| | | TX | 1850.7 MHz | 1880 MHz | 1909.3 MHz |
| | 1.4MHz | RX | Channel 607 | Channel 900 | Channel 1193 |
| | | KA. | 1930.7 MHz | 1960 MHz | 1989.3 MHz |
| | | | Channel 18615 | Channel 18900 | Channel 19185 |
| | | TX | 1851.5 MHz | 1880 MHz | 1908.5 MHz |
| | 3MHz | RX | Channel 615 | Channel 900 | Channel 1185 |
| | | KA. | 1931.5 MHz | 1960 MHz | 1988.5 MHz |
| | | | Channel 18625 | Channel 18900 | Channel 19175 |
| | 5MHz | TX | 1852.5 MHz | 1880 MHz | 1907.5 MHz |
| | | RX | Channel 625 | Channel 900 | Channel1175 |
| LTE Band 2 | | | 1932.5 MHz | 1960 MHz | 1987.5 MHz |
| LIE Dallu Z | 10MHz | | Channel 18650 | Channel 18900 | Channel 19150 |
| | | TX | 1855 MHz | 1880 MHz | 1905 MHz |
| | | RX | Channel 650 | Channel 900 | Channel 1150 |
| | | | 1935 MHz | 1960 MHz | 1985 MHz |
| | | | Channel 18675 | Channel 18900 | Channel 19125 |
| | | TX | 1857.5 MHz | 1880 MHz | 1902.5 MHz |
| | 15MHz | RX | Channel 675 | Channel 900 | Channel 1125 |
| | | KA. | 1937.5 MHz | 1960 MHz | 1982.5 MHz |
| | | | Channel 18700 | Channel 18900 | Channel 19100 |
| | | TX | 1860 MHz | 1880 MHz | 1900 MHz |
| | 20MHz | DV | Channel 700 | Channel 900 | Channel 1100 |
| | | RX | | 1960 MHz | 1980 MHz |

| Toot Mode | Danduidth | TV / DV | RF Channel | | |
|------------|-----------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 20407 | Channel 20525 | Channel 20643 |
| | | TX | 824.7 MHz | 836.5 MHz | 848.3 MHz |
| | 1.4MHz | RX | Channel 2407 | Channel 2525 | Channel 2643 |
| | | KA. | 869.7 MHz | 881.5 MHz | 893.3 MHz |
| | | | Channel 20415 | Channel 20525 | Channel 20635 |
| | 3MHz | TX | 825.5 MHz | 836.5 MHz | 847.5 MHz |
| | | RX | Channel 2415 | Channel 2525 | Channel 2635 |
| LTE Day 15 | | | 870.5 MHz | 881.5 MHz | 892.5 MHz |
| LTE Band 5 | | TX | Channel 20425 | Channel 20525 | Channel 20625 |
| | | | 826.5 MHz | 836.5 MHz | 846.5 MHz |
| | 5MHz | RX | Channel 2425 | Channel 2525 | Channel 2625 |
| | | KA. | 871.5 MHz | 881.5 MHz | 891.5 MHz |
| | | | Channel 20450 | Channel 20525 | Channel 20600 |
| | | TX | 829 MHz | 836.5 MHz | 844 MHz |
| | 10MHz | DV | Channel 2450 | Channel 2525 | Channel 2600 |
| | | RX | 874 MHz | 881.5 MHz | 889 MHz |



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| Toot Made | Danduidth | TV / DV | RF Channel | | | |
|-------------|-----------|---------|---------------|---------------|---------------|--|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) | |
| | | | Channel 23017 | Channel 23095 | Channel 23173 | |
| | | TX | 699.7 MHz | 707.5 MHz | 715.3 MHz | |
| | 1.4MHz | RX | Channel 5017 | Channel 5095 | Channel 5173 | |
| | | ĽΛ | 729.7 MHz | 737.5 MHz | 745.3 MHz | |
| | | | Channel 23025 | Channel 23095 | Channel 23165 | |
| | 3MHz | TX | 700.5 MHz | 707.5 MHz | 714.5 MHz | |
| | | RX | Channel 5025 | Channel 5095 | Channel 5165 | |
| LTE D | | | 730.5 MHz | 737.5 MHz | 744.5 MHz | |
| LTE Band 12 | | TX | Channel 23035 | Channel 23095 | Channel 23155 | |
| | | | 701.5 MHz | 707.5 MHz | 713.5 MHz | |
| | 5MHz | RX | Channel 5035 | Channel 5095 | Channel 5155 | |
| | | | 731.5 MHz | 737.5 MHz | 743.5 MHz | |
| | | | Channel 23060 | Channel 23095 | Channel 23130 | |
| | | TX | 704 MHz | 707.5 MHz | 711 MHz | |
| | 10MHz | RX | Channel 5060 | Channel 5095 | Channel 5130 | |
| | | INΛ | 734 MHz | 737.5 MHz | 741 MHz | |

| Test Mode | Bandwidth | n TX / RX | RF Channel | | |
|--------------|-----------------------|-----------|---------------|---------------|---------------|
| rest Mode | rest wode Bandwidth | IA/KA | Low (L) | Middle (M) | High (H) |
| | | | Channel 23025 | Channel 23230 | Channel 23255 |
| | | TX | 779.5 MHz | 782 MHz | 784.5 MHz |
| | 5MHz | RX | Channel 5205 | Channel 5230 | Channel 5255 |
| LTE Band 13 | | | 748.5 MHz | 751 MHz | 753.5 MHz |
| LIE Dallu 13 | 10MHz | TX | Channel 23230 | Channel 23230 | Channel 23230 |
| | | | 782 MHz | 782 MHz | 782 MHz |
| | | RX | Channel 5230 | Channel 5230 | Channel 5230 |
| | | KA. | 751 MHz | 751 MHz | 751 MHz |

| Toot Mode | Bandwidth | TX / RX | RF Channel | | |
|-------------|---------------------|---------|---------------|---------------|---------------|
| i est Mode | Test Mode Bandwidth | IA/KA | Low (L) | Middle (M) | High (H) |
| | | | Channel 23755 | Channel 23790 | Channel 23825 |
| | | TX | 706.5 MHz | 710 MHz | 713.5 MHz |
| | 5MHz | RX | Channel 5755 | Channel 5790 | Channel 5825 |
| LTE Band 17 | | | 736.5 MHz | 740 MHz | 743.5 MHz |
| LIE Danu II | | TX | Channel 23780 | Channel 23790 | Channel 23800 |
| | 10MHz | | 709 MHz | 710 MHz | 711 MHz |
| | | DV | Channel 5780 | Channel 5790 | Channel 5800 |
| | | RX | 739 MHz | 740 MHz | 741 MHz |



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| Task Made | Dan do dalla | TV / DV | | RF Channel | |
|-------------|--------------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 26047 | Channel 26365 | Channel 26683 |
| | | TX | 1850.7 MHz | 1882.5 MHz | 1914.3 MHz |
| | 1.4MHz | DV | Channel 8047 | Channel 8365 | Channel 8683 |
| | | RX | 1930.7 MHz | 1962.5 MHz | 1994.3 MHz |
| | | | Channel 26055 | Channel 26365 | Channel 26675 |
| | | TX | 1851.5 MHz | 1882.5 MHz | 1913.5 MHz |
| | 3MHz | RX | Channel 8055 | Channel 8365 | Channel 8675 |
| | | KA | 1931.5 MHz | 1962.5 MHz | 1993.5 MHz |
| | | | Channel 26065 | Channel 26365 | Channel 26665 |
| | 5MHz | TX | 1852.5 MHz | 1882.5 MHz | 1912.5 MHz |
| | | RX | Channel 8065 | Channel 8365 | Channel 8665 |
| LTC Dand OF | | | 1932.5 MHz | 1962.5 MHz | 1992.5 MHz |
| LTE Band 25 | 10MHz | TX | Channel 26090 | Channel 26365 | Channel 26640 |
| | | | 1855 MHz | 1882.5 MHz | 1910 MHz |
| | | RX | Channel 8090 | Channel 8365 | Channel 8640 |
| | | | 1935 MHz | 1962.5 MHz | 1990 MHz |
| | | | Channel 26115 | Channel 26365 | Channel 26615 |
| | | TX | 1857.5 MHz | 1882.5 MHz | 1907.5 MHz |
| | 15MHz | RX | Channel 8115 | Channel 8365 | Channel 8615 |
| | | 100 | 1937.5 MHz | 1962.5 MHz | 1987.5 MHz |
| | | | Channel 26140 | Channel 26365 | Channel 26590 |
| | | TX | 1860 MHz | 1882.5 MHz | 1905 MHz |
| | 20MHz | RX | Channel 8140 | Channel 8365 | Channel 8590 |
| | | ΓΛ | 1940 MHz | 1962.5 MHz | 1985 MHz |

| Test Mode | Donalysidth | TV / DV | | RF Channel | |
|-------------|-------------|---------|---------------|---------------|---------------|
| rest Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 26697 | Channel 26740 | Channel 26783 |
| | | TX | 814.7 MHz | 819 MHz | 823.3 MHz |
| | 1.4MHz | RX | Channel 8697 | Channel 8740 | Channel 8783 |
| | | KA | 859.7 MHz | 864MHz | 868.3 MHz |
| | | | Channel 26705 | Channel 26740 | Channel 26775 |
| | 3MHz | TX | 815.5 MHz | 819 MHz | 822.5 MHz |
| | | RX | Channel 8705 | Channel 8740 | Channel 8775 |
| LTE Band 26 | | | 860.5 MHz | 864MHz | 867.5 MHz |
| (814-824) | | TX | Channel 26715 | Channel 26740 | Channel 26765 |
| (00=.) | | | 816.5 MHz | 819 MHz | 821.5 MHz |
| | 5MHz | DV | Channel 8715 | Channel 8740 | Channel 8755 |
| | | RX | 861.5 MHz | 864MHz | 866.5 MHz |
| | | , | Channel 26740 | Channel 26740 | Channel 26740 |
| | | TX | 819 MHz | 819 MHz | 819 MHz |
| | 10MHz | RX | Channel 8740 | Channel 8740 | Channel 8740 |
| | | IXX | 864MHz | 864MHz | 864MHz |



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| Took Mode | D do - i - dala | TV / DV | RF Channel | | | |
|------------|-----------------|----------|---------------|---------------|---------------|--|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) | |
| | | | Channel 26797 | Channel 26915 | Channel 27033 | |
| | | TX | 824.7 MHz | 836.5 MHz | 848.3 MHz | |
| | 1.4MHz | RX | Channel 8697 | Channel 8915 | Channel 9033 | |
| | | IXX | 859.7 MHz | 881.5 MHz | 893.3 MHz | |
| | | | Channel 26805 | Channel 26915 | Channel 27025 | |
| | 0.44.1 | TX | 825.5 MHz | 836.5 MHz | 847.5 MHz | |
| | 3MHz | RX | Channel 8805 | Channel 8915 | Channel 9025 | |
| | | IXX | 860.5 MHz | 881.5 MHz | 892.5 MHz | |
| | 5MHz | TX RX | Channel 26815 | Channel 26915 | Channel 27015 | |
| LTE Band26 | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| (824-849) | | | Channel 8815 | Channel 8915 | Channel 9015 | |
| | | | 871.5 MHz | 881.5 MHz | 891.5 MHz | |
| | | TX | Channel 26840 | Channel 26915 | Channel 26990 | |
| | | | 829 MHz | 836.5 MHz | 844 MHz | |
| | 10MHz | RX | Channel 8840 | Channel 8915 | Channel 8990 | |
| | | IXX | 874 MHz | 881.5 MHz | 889 MHz | |
| | | | Channel 26865 | Channel 26915 | Channel 26965 | |
| | | TX | 831.5 MHz | 836.5 MHz | 841.5 MHz | |
| | 15MHz | RX | Channel 8865 | Channel 8915 | Channel 8965 | |
| | | | 876.5 MHz | 881.5 MHz | 886.5 MHz | |



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4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



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4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- 4. Detector = Peak
- Trace mode = max hold
- Sweep = auto couple
- The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7



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4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

Remark: Reference test setup 1

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- VBW > 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize



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4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

- 1. Start frequency was set to 9kHz and stop frequency was set to at least 10* the fundamental frequency(Separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings



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4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

E (dB μ V/m) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dB μ V/m) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Remark: Reference test setup 2

Remark

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



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4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; Section 9

- . The frequency stability of the transmitter is measured by:
- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



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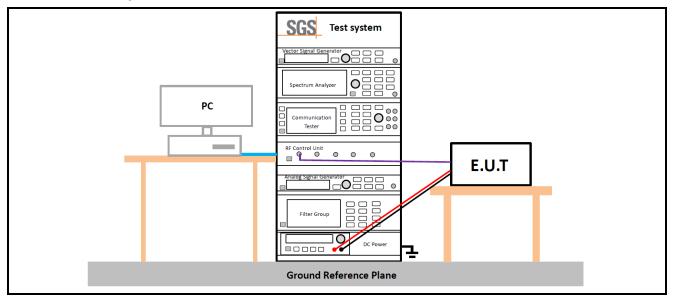
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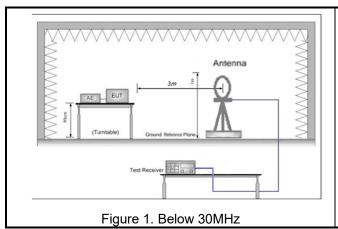
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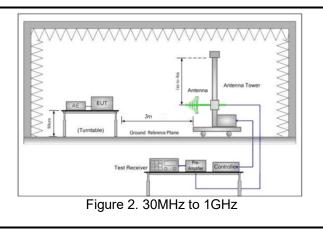
4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2







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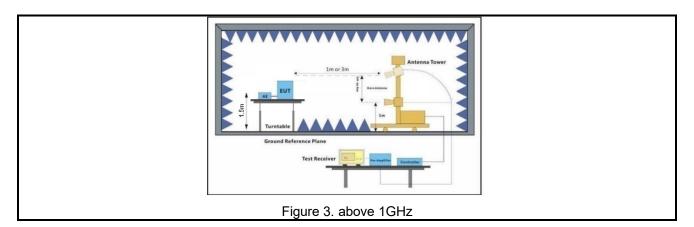
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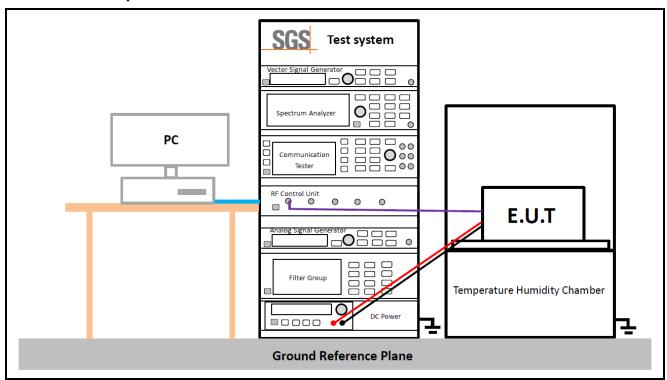
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4.9.3 Test Setup 3





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4.10Test Conditions

| Transmit Output Power Data - Average Power, Total | | | | |
|---|---|--|--|--|
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | | |
| Test Mode | LTE/TM1;LTE/TM2 | | | |
| | Peak-to-Average Ratio | | | |
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | | |
| Test Mode | LTE/TM1;LTE/TM2 | | | |
| Modulation Characteristics | | | | |
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | M (M= middle channel) | | | |
| Test Mode | LTE/TM1;LTE/TM2 | | | |
| | Bandwidth - Occupied Bandwidth | | | |
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | | |
| Test Mode | LTE/TM1;LTE/TM2 | | | |
| Bandwidth - Emission Bandwidth | | | | |
| Test Case | | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | | |



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| Test Mode | LTE/TM1;LTE/TM2 | | | |
|--------------------------------------|---|--|--|--|
| T COL MOGO | LTC/110/1,212/110/2 | | | |
| Band Edges Compliance | | | | |
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | L, H (L= low channel, H= high channel) | | | |
| Test Mode | LTE/TM1 | | | |
| | Spurious Emission at Antenna Terminals | | | |
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 1 | | | |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | | |
| Test Mode | Test Mode LTE/TM1 | | | |
| Field Strength of Spurious Radiation | | | | |
| Test Case | Test Conditions | | | |
| Test Environment | Ambient Climate & Rated Voltage | | | |
| Test Setup | Test Setup 2 | | | |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | | |
| Test Mode | LTE/TM1 Remark: All bandwidth and modulation of LTE have been pre tested, and only the worst results are reflected in the report. | | | |
| | Frequency Stability | | | |
| Test Case | Test Conditions | | | |
| Test Environment | (1) -30 °C to +50 °C with step 10 °C at Rated Voltage | | | |
| TEST ETIMIONIMENT | (2) VL, VN and VH of Rated Voltage at Ambient Climate. | | | |
| Test Setup | Test Setup 3 | | | |
| RF Channels (TX) | M (M= middle channel) | | | |
| Test Mode | LTE/TM1 | | | |
| | The report only show the bandwidth with the worst case. | | | |



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5 Main Test Instruments

| RF Test System | | | | | |
|--------------------------------|-------------------|--------------------|---------------|---------------------------|------------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Radio communication analyzer | ROHDE &SCHWARZ | CMW 500 | XAW01-03-07 | 2022/09/08 | 2023/09/07 |
| Spectrum Analyzer | ROHDE &SCHWARZ | FSV3044 | XAW01-13-05 | 2023/05/15 | 2024/05/14 |
| power supply | Angilent | 66311B | XAW01-17-01 | 2023/02/16 | 2024/02/15 |
| temperature chamber | Votsch | VT4002 | XAW01-18-01 | 2023/02/16 | 2024/02/15 |
| RF Control Unit | Tonscend | JS0806-1 | XAW03-37-02 | NCR | NCR |
| Temperature and humidity meter | MingGao | T809 | XAW01-01-04 | 2022/09/18 | 2023/09/17 |
| Measurement Software | Tonscend | JS1120 (3.1.46) | XAW02-15-01 | NCR | NCR |



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| RE Test System | | | | | |
|--|-------------------|--------------|---------------|---------------------------|------------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | XAW03-35-01 | 2021/09/09 | 2024/09/08 |
| MXA signal analyzer | Keysight | N9020A | XAW01-06-01 | 2023/02/16 | 2024/02/15 |
| Spectrum Analyzer | ROHDE &SCHWARZ | FSV3044 | XAW01-13-05 | 2023/05/15 | 2024/05/14 |
| Test receiver | ROHDE &SCHWARZ | ESR | XAW01-08-01 | 2022/09/08 | 2023/09/07 |
| Receiving antenna (30MHz-3GHz) | Schwarzbeck | VULB 9163 | XAW01-09-01 | 2022/07/28 | 2024/07/27 |
| Receiving antenna (1GHz~18GHz) | Schwarzbeck | BBHA 9120D | XAW01-09-02 | 2022/07/28 | 2024/07/27 |
| Receiving antenna (15GHz~40GHz) | Schwarzbeck | BBHA 9170 | XAW01-09-03 | 2022/07/23 | 2024/07/22 |
| Directional antenna rack controller | Max-Full | MF-7802BS | XAW03-03-01 | NCR | NCR |
| High-speed antenna rack controller | Max-Full | MF-7802 | XAW03-04-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806-F | XAW03-05-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806s | XAW03-05-02 | NCR | NCR |
| Amplifier | Tonscend | TAP9K3G32 | XAW01-41-01 | 2023/05/15 | 2024/05/14 |
| Amplifier | Tonscend | TAP01018048 | XAW01-41-02 | 2022/09/14 | 2023/09/13 |
| Amplifier | Tonscend | TAP18040048 | XAW01-41-03 | 2022/09/14 | 2023/09/13 |
| Amplifier | Shanghai Steed | YX28980930 | XAW01-41-06 | 2022/09/14 | 2023/09/13 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-02 | 2022/09/18 | 2023/09/17 |
| Radio communication analyzer | ROHDE&SCH WARZ | CMW 500 | XAW01-03-02 | 2023/02/16 | 2024/02/15 |
| Measurement Software | Tonscend | TS+ V4.0.0.0 | XAW02-05-01 | NCR | NCR |
| Loop Antenna | Schwarzbeck | FMZB 1519B | XAW01-48-02 | 2022/05/26 | 2024/05/25 |



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6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in

accordance with the recommendations of ISO 17025 as following:

| No. | Item | Measurement Uncertainty | |
|-----|-------------------------------|------------------------------|--|
| 1 | Total RF power, conducted | ±0.65dB | |
| 2 | RF power density, conducted | ±1.25dB | |
| 3 | Spurious emissions, conducted | ±0.65dB | |
| 4 | Radio Frequency | ±9.01 x 10 ⁻⁸ GHz | |
| 5 | Duty Cycle | ±0.30% | |
| 6 | Occupied Bandwidth | ±9.01 x 10 ⁻⁸ GHz | |
| | | ± 4.6dB (9kHz to 30MHz) | |
| | | ± 4.9dB (30MHz to 1GHz) | |
| 7 | Radiated Emission | ± 4.9dB (1GHz to 6GHz) | |
| | | ± 4.7dB (6GHz to 18GHz) | |
| | | ± 5.26dB (Above 18GHz) | |

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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7 Appendixes

| Appendix A.3 | WWAN Setup Photos |
|--------------|----------------------|
| Appendix B.1 | LTE Band 2 |
| Appendix B.2 | LTE Band 5 |
| Appendix B.3 | LTE Band 12 |
| Appendix B.4 | LTE Band 13 |
| Appendix B.5 | LTE Band 17 |
| Appendix B.6 | LTE Band 25 |
| Appendix B.7 | LTE Band 26(814-824) |
| Appendix B.8 | LTE Band 26(824-849) |

---End of Report---



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