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FCC REPORT

Report Reference No.....: CHTEW19110062 Report verification:

Project No.....: SHT1908062702EW

FCC ID.....:: **2AIGUDOKIPAL**

Applicant's name.....: **DOKI TECHNOLOGIES LIMITED**

Address....: Unit 601,6/F,Tower One,Silvercord, 30 Canton Road,TST,

Kowloon

Manufacturer....: **DOKI TECHNOLOGIES LIMITED**

Address....: Unit 601,6/F,Tower One,Silvercord, 30 Canton

Road, TST, Kowloon

Test item description: dokiPal

Trade Mark: doki

Model/Type reference.....: dokiPal

Listed Model(s): dokiPal-1001

FCC CFR Title 47 Part 2 Standard::

> FCC CFR Title 47 Part 24 FCC CFR Title 47 Part 27

Date of receipt of test sample.....: May 06, 2019

May 07, 2019- Nov 05, 2019 Date of testing.....:

Date of issue....: Nov 06, 2019

Result.....: Pass

Testing Laboratory Name:

Compiled by

(position+printedname+signature)...: File administrators Silvia Li

Supervised by

(position+printedname+signature)....: Project Engineer Aaron Fang Silvia Li Aaron.Fang

Approved by

(position+printedname+signature)....: Manager Hans Hu

Shenzhen Huatongwei International Inspection Co., Ltd.

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Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

Report No.: CHTEW1911006202 Page: 2 of 36 Issued: 2019-11-06

Contents

| <u>1.</u> | TEST STANDARDS AND REPORT VERSION | 3 |
|-----------|--|----|
| | | |
| 1.1. | Applicable Standards | 3 |
| 1.2. | Report version information | 3 |
| | · | |
| <u>2.</u> | TEST DESCRIPTION | 4 |
| 2 | CUMMARY | E |
| <u>3.</u> | SUMMARY | 5 |
| 3.1. | Client Information | 5 |
| 3.2. | Product Description | 5 |
| 3.3. | Operation state | 6 |
| 3.4. | EUT operation mode | 7 |
| 3.5. | EUT configuration | 8 |
| 3.6. | Modifications | 8 |
| <u>4.</u> | TEST ENVIRONMENT | 9 |
| | | |
| 4.1. | Address of the test laboratory | 9 |
| 4.2. | Test Facility | 9 |
| 4.3. | Equipments Used during the Test | 10 |
| 4.4. | Environmental conditions | 11 |
| 4.5. | Statement of the measurement uncertainty | 11 |
| <u>5.</u> | TEST CONDITIONS AND RESULTS | 12 |
| 5.1. | Conducted Output Power | 12 |
| 5.2. | Peak-to-Average Ratio | 13 |
| 5.3. | 99% Occupied Bandwidth & 26 dB Bandwidth | 14 |
| 5.4. | Band Edge | 15 |
| 5.5. | Conducted Spurious Emissions | 16 |
| 5.6. | Frequency stability VS Temperature measurement | 17 |
| 5.7. | Frequency stability VS Voltage measurement | 18 |
| 5.8. | ERP and EIRP | 19 |
| 5.9. | Radiated Spurious Emission | 26 |
| <u>6.</u> | TEST SETUP PHOTOS OF THE EUT | 36 |
| <u>J.</u> | ies servi inordo di ine edi | 30 |
| <u>7.</u> | EXTERNAL AND INTERNAL PHOTOS OF THE EUT | 36 |
| <u>8.</u> | APPENDIX REPORT | 36 |

Report No.: CHTEW1911006202 Page: 3 of 36 Issued: 2019-11-06

1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

<u>FCC Rules Part 2:</u> FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

FCC Rules Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

ANSI C63.26: 2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

| Revision No. | Date of issue | Description |
|--------------|---------------|---|
| N/A | 2019-11-06 | Add some components to charging circuit,make difference test on Radiated Spurious Emission, others are the same as report No. CHTEW19060017 |
| | | |
| | | |
| | | |
| | | |

Report No.: CHTEW1911006202 Page: 4 of 36 Issued: 2019-11-06

2. Test Description

| Test Item | Section in CFR 47 | Result | Test Engineer | |
|--|----------------------|--------|-----------------|--|
| | Part 2.1046 | | | |
| Conducted Output Power | Part 24.232(c) | Pass | Jiongsheng Feng | |
| | Part 27.50 | | | |
| Dook to Average Petio | Part 24.232 | Pass | liongobong Fong | |
| Peak-to-Average Ratio | Part 27.50 | Pass | Jiongsheng Feng | |
| 000/ 0 | Part 2.1049 | | | |
| 99% Occupied Bandwidth & 26 dB Bandwidth | Part 24.238(b) | Pass | Jiongsheng Feng | |
| Bandwidth | Part 27.53 | | | |
| | Part 2.1051 | | | |
| Band Edge | Part 24.238 | Pass | Jiongsheng Feng | |
| | Part 27.53 | | | |
| | Part 2.1051 | | | |
| Conducted Spurious Emissions | Part 24.238 | Pass | Jiongsheng Feng | |
| | Part 27.53 | | | |
| | Part 2.1055(a)(1)(b) | | | |
| Frequency stability VS Temperature | Part 24.235 | Pass | Jiongsheng Feng | |
| | Part 27.54 | | | |
| | Part 2.1055(d)(1)(2) | | | |
| Frequency stability VS Voltage | Part 24.235 | Pass | Jiongsheng Feng | |
| | Part 27.54 | | | |
| EDD and EIDD | Part 24.232(b) | Door | Shower Dei | |
| ERP and EIRP | Part 27.50 | Pass | Shower Dai | |
| | Part 2.1053 | | | |
| Radiated Spurious Emissions | Part 24.238 | Pass | Pan Xie | |
| | Part 27.53 | | | |

Note: The measurement uncertainty is not included in the test result.

Report No.: CHTEW1911006202 Page: 5 of 36 Issued: 2019-11-06

3. **SUMMARY**

3.1. Client Information

| Applicant: | DOKI TECHNOLOGIES LIMITED |
|---|---|
| Address: | Unit 601,6/F,Tower One,Silvercord, 30 Canton Road,TST,Kowloon |
| Manufacturer: DOKI TECHNOLOGIES LIMITED | |
| Address: | Unit 601,6/F,Tower One,Silvercord, 30 Canton Road,TST,Kowloon |

3.2. Product Description

| Name of EUT: | dokiPal | | | | | |
|---------------------|---|-------------------------------------|------------------------|--|--|--|
| Trade Mark: | doki | | | | | |
| Model No.: | dokiPal | dokiPal | | | | |
| Listed Model(s): | dokiPal-1001 | | | | | |
| SIM Information: | Support One SIM Card | d | | | | |
| Power supply: | DC 3.85V | | | | | |
| Hardware version: | BRT Version V0 | | | | | |
| Software version: | 0.1.5-alpha | 0.1.5-alpha | | | | |
| 4G | | | | | | |
| Operation Band: | ☐ FDD Band 2 | ☐ FDD Band 4 | ⊠ FDD Band 7 | | | |
| | FDD Band 2: | FDD Band 2: 1850.7 MHz – 1909.3 MHz | | | | |
| Transmit frequency: | FDD Band 4: | 1710.7 MHz – 1754.3 | MHz | | | |
| | FDD Band 7: | FDD Band 7: 2502.5 MHz – 2567.5 MHz | | | | |
| | FDD Band 2: | 1930.7 MHz – 1989.3 | MHz | | | |
| Receive frequency: | FDD Band 4: | 2110.7 MHz – 2154.3 | MHz | | | |
| | FDD Band 7: | 2622.5 MHz – 2687.5 | MHz | | | |
| | FDD Band 2: | 1.4MHz, 3MHz, 5MHz | z, 10MHz, 15MHz, 20MHz | | | |
| Channel bandwidth: | FDD Band 4: | 1.4MHz, 3MHz, 5MHz | z, 10MHz, 15MHz, 20MHz | | | |
| | FDD Band 7: | 5MHz, 10MHz, 15MH | z, 20MHz | | | |
| Power Class: | Class 3 | | | | | |
| Modulation type: | QPSK, 16QAM | | | | | |
| Antenna type | Internal Antenna | | | | | |
| Antenna Gain | Band2:-6.0dBi Band4:-6.0dBi Band7:-6.0dBi | | | | | |

Report No.: CHTEW1911006202 Page: 6 of 36 Issued: 2019-11-06

3.3. Operation state

> Test frequency list

| EDD D 10 | | | | | | |
|------------|-----------------------------------|---|------------------------|------------------------------|-----------------|-----------------------------------|
| FDD Band 2 | Test Frequency ID | Bandwidth [MHz] | N _{UL} | Frequency of Uplink [MHz] | N _{DL} | Frequency of Downlink [MHz] |
| | | 1.4 | 18607 | 1850.7 | 607 | 1930.7 |
| | | 3 | 18615 | 1851.5 | 615 | 1931.5 |
| | | 5 | 18625 | 1852.5 | 625 | 1932.5 |
| | Low Range | 10 | 18650 | 1855 | 650 | 1932.5 |
| | | 15 [1] | 18675 | 1857.5 | 675 | 1937.5 |
| | | 20 [1] | 18700 | 1860 | 700 | 1940 |
| | Mid Range | 1.4/3/5/10 15 ^[1] /20 ^[1] | 18900 | 1880 | 900 | 1960 |
| | | 1.4 | 19193 | 1909.3 | 1193 | 1989.3 |
| | | 3 | 19185 | 1908.5 | 1185 | 1988.5 |
| | | 5 | 19175 | 1907.5 | 1175 | 1987.5 |
| | High Range | 10 | 19150 | 1905 | 1150 | 1985 |
| | | 15 [1] | 19125 | 1902.5 | 1125 | 1982.5 |
| | | 20 [1] | 19100 | 1900 | 1100 | 1980 |
| | NOTE 1: Bandwidth 36.101 [2 | for which a relaxation of the following for the | on of the spe owed. | cified UE receiver s | sensitivity red | quirement (TS |
| FDD Band 4 | Test Frequency ID | Bandwidth [MHz] | NuL | Frequency of Uplink [MHz] | N _{DL} | Frequency of Downlink [MHz] |
| | | 1.4 | 19957 | 1710.7 | 1957 | 2110.7 |
| | 11 | 3 | 19965 | 1711.5 | 1965 | 2111.5 |
| | 11 | 5 | 19975 | 1712.5 | 1975 | 2112.5 |
| | Low Range | 10 | 20000 | 1715 | 2000 | 2115 |
| | | 15 | 20025 | 1717.5 | 2025 | 2117.5 |
| | | 20 | 20050 | 1720 | 2050 | 2120 |
| | Mid Range | 1.4/3/5/10/15/20 | 20175 | 1732.5 | 2175 | 2132.5 |
| | | 1.4 | 20393 | 1754.3 | 2393 | 2154.3 |
| | | 3 | 20385 | 1753.5 | 2385 | 2153.5 |
| | UE-t-D | 5 | 20375 | 1752.5 | 2375 | 2152.5 |
| | High Range | 10 | 20350 | 1750 | 2350 | 2150 |
| | 1 ' | 15 | 20325 | 1747.5 | 2325 | 2147.5 |
| | | 20 | 20300 | 1745 | 2300 | 2145 |
| | | | | | | |
| FDD Band 7 | Test Frequency ID | Bandwidth [MHz] | N _{UL} | Frequency of Uplink [MHz] | N _{DL} | Frequency of Downlink [MHz] |
| | | 5 | 20775 | 2502.5 | 2775 | 2622.5 |
| | Low Dong- | 10 | 20800 | 2505 | 2800 | 2625 |
| | Low Range | 15 | 20825 | 2507.5 | 2825 | 2627.5 |
| | | 20 [1] | 20850 | 2510 | 2850 | 2630 |
| | Mid Range | 5/10/15 20 ^[1] | 21100 | 2535 | 3100 | 2655 |
| | | 5 | 21425 | 2567.5 | 3425 | 2687.5 |
| | High Dang- | 10 | 21400 | 2565 | 3400 | 2685 |
| | High Range | 15 | 21375 | 2562.5 | 3375 | 2682.5 |
| | | 20 [1] | 21350 | 2560 | 3350 | 2680 |
| | NOTE 1: Bandwidth 1 36.101 [27 | or which a relaxation Clause 7.3) is allow | | fied UE receiver ser | nsitivity requi | rement (TS |

Report No.: CHTEW1911006202 Page: 7 of 36 Issued: 2019-11-06

3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. Testing was performed by configuring EUT to maximum output power status.

| Test Henry | Daniel | | | Bandwid | Ith (MHz) | | | Modulation | | RB# | | |
|-------------------------------|---|-----|---|---------|-----------|----|----|------------|-------|-----|------|------|
| Test Items | Band | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 1 | Half | Full |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Conducted Output Power | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Power | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Deals to Assessed | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| Peak-to-Average Ratio | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 710.10 | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 99% Occupied | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| Bandwidth & 26 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| dB Bandwidth | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| Band Edge | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| O and sate d | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| Conducted Spurious Emission | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| F | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| Frequency Stability | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| ERP and EIRP | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| | 7 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| Dadiated Couriers | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | - | - |
| Radiated Spurious Emission | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | - | • |
| | 7 | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | - | - |
| Remark | The mark " o"means that this configuration is chosenfor testing The mark "-"means that this bandwidth is not test. | | | | | | | | | | | |

Report No.: CHTEW1911006202 Page: 8 of 36 Issued: 2019-11-06

3.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

supplied by the manufacturer

| | | • | |
|---|------------|--------|-----|
| 0 | - supplied | by the | lab |

| | / | Manufacturer: | / |
|---|-----|---------------|---|
| 0 | 0 / | Model No.: | / |
| | | Manufacturer: | / |
| 0 | | Model No.: | 1 |

3.6. Modifications

No modifications were implemented to meet testing criteria.

Report No.: CHTEW1911006202 Page: 9 of 36 Issued: 2019-11-06

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

Report No.: CHTEW1911006202 Page: 10 of 36 Issued: 2019-11-06

4.3. Equipments Used during the Test

| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|------------------------------|--------------|-----------------|------------|------------------------------|------------------------------|
| • | Signal and spectrum Analyzer | R&S | FSV40 | 100048 | 2018/10/28 | 2019/10/27 |
| • | Spectrum Analyzer | Agilent | N9020A | MY50510187 | 2018/09/29 | 2019/09/28 |
| • | Radio communication tester | R&S | CMW500 | 137688-Lv | 2018/09/29 | 2019/09/28 |
| • | Test software | Tonscend | JS1120-1(LTE) | N/A | N/A | N/A |
| • | Test software | Tonscend | JS1120-2(WIFI) | N/A | N/A | N/A |
| • | Test software | Tonscend | JS1120-3(WCDMA) | N/A | N/A | N/A |
| • | Test software | Tonscend | JS1120-4(GSM) | N/A | N/A | N/A |

| • | Radiated Spurious Emission | | | | | | | |
|------|----------------------------|--------------------|-------------|------------|------------------------------|------------------------------|--|--|
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) | | |
| • | Semi-Anechoic Chamber | Albatross projects | SAC-3m-01 | N/A | 2018/09/30 | 2021/09/29 | | |
| • | Spectrum Analyzer | R&S | FSP40 | 100597 | 2019/10/26 | 2020/10/25 | | |
| • | Loop Antenna | R&S | HFH2-Z2 | 100020 | 2017/11/20 | 2020/11/19 | | |
| • | Ultra-Broadband Antenna | SCHWARZBECK | VULB9163 | 538 | 2017/04/05 | 2020/04/04 | | |
| • | Horn Antenna | SCHWARZBECK | 9120D | 1011 | 2017/04/01 | 2020/03/31 | | |
| 0 | Horn Antenna | SCHWARZBECK | BBHA9170 | 25841 | 2017/03/27 | 2020/03/26 | | |
| 0 | Pre-amplifier | BONN | BLWA0160-2M | 1811887 | 2018/11/14 | 2019/11/13 | | |
| • | Pre-amplifier | CD | PAP-0102 | 12004 | 2018/11/14 | 2019/11/13 | | |
| • | Broadband Preamplifier | SCHWARZBECK | BBV 9718 | 9718-248 | 2019/04/26 | 2020/04/25 | | |
| • | RF Connection Cable | HUBER+SUHNER | RE-7-FH | N/A | 2018/11/15 | 2019/11/14 | | |
| • | RF Connection Cable | HUBER+SUHNER | RE-7-FL | N/A | 2018/11/15 | 2019/11/14 | | |
| • | EMI Test Software | Audix | E3 | N/A | N/A | N/A | | |
| • | Turntable | MATURO | TT2.0 | N/A | N/A | N/A | | |
| • | Antenna Mast | MATURO | TAM-4.0-P | N/A | N/A | N/A | | |

Report No.: CHTEW1911006202 Page: 11 of 36 Issued: 2019-11-06

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | VN=Nominal Voltage | DC 3.85V | | | |
|--------------|-----------------------|-------------------------------|--|--|--|
| Voltage | VL=Lower Voltage | DC 3.60V | | | |
| | VH=Higher Voltage | DC 4.40V | | | |
| Tomporoturo | TN=Normal Temperature | 25 °C | | | |
| Temperature | Extreme Temperature | From −30° to + 50° centigrade | | | |
| Humidity | 30~60 % | | | | |
| Air Pressure | 950-1050 hPa | | | | |

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

| Test Items | Measurement Uncertainty | Notes |
|---|--------------------------------------|-------|
| Transmitter power conducted | 0.63 dB | (1) |
| Transmitter power Radiated | 2.38dB for <1GHz 3.45dB for >1GHz | (1) |
| Conducted spurious emissions 9kHz~40GHz | 0.63 dB | (1) |
| Radiated spurious emissions | 2.38dB for <1GHz | (1) |
| Tradicted opariode emissions | 3.45dB for >1GHz | (1) |
| Occupied Pandwidth | 18Hz for <1GHz | (1) |
| Occupied Bandwidth | 69Hz for >1GHz | (1) |
| Fraguency orrer | 18Hz for <1GHz | (1) |
| Frequency error | 69Hz for >1GHz | (1) |

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No.: CHTEW1911006202 Page: 12 of 36 Issued: 2019-11-06

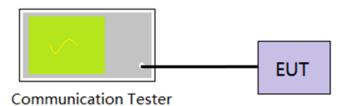
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix A on the section 8 appendix report

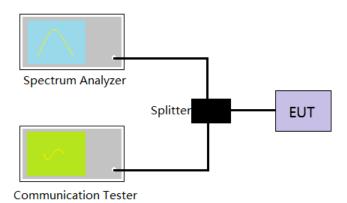
Report No.: CHTEW1911006202 Page: 13 of 36 Issued: 2019-11-06

5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > 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.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced 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 whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix B on the section 8 appendix report

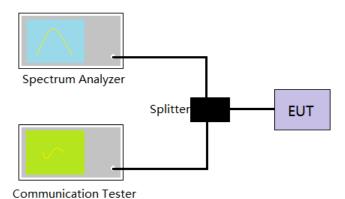
Report No.: CHTEW1911006202 Page: 14 of 36 Issued: 2019-11-06

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of the anticipated OBW, VBW= 3 * RBW, Detector=Peak,

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix C on the section 8 appendix report

Report No.: CHTEW1911006202 Page: 15 of 36 Issued: 2019-11-06

5.4. Band Edge

LIMIT

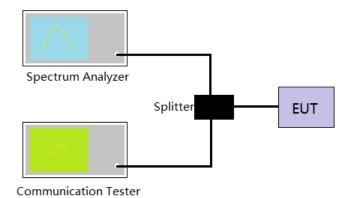
Part 24.238 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit <-25 dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
- Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix D on the section 8 appendix report

Report No.: CHTEW1911006202 Page: 16 of 36 Issued: 2019-11-06

5.5. Conducted Spurious Emissions

LIMIT

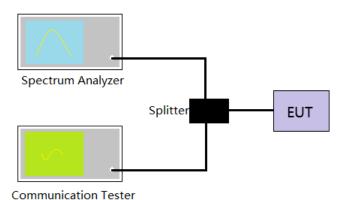
Part 24.238 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit <-25 dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.

4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix E on the section 8 appendix report

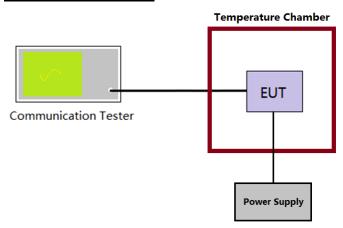
Report No.: CHTEW1911006202 Page: 17 of 36 Issued: 2019-11-06

5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

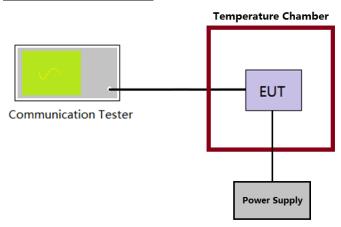
Report No.: CHTEW1911006202 Page: 18 of 36 Issued: 2019-11-06

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

oxedown Passed oxedown Not Applicable

Refer to appendix F on the section 8 appendix report

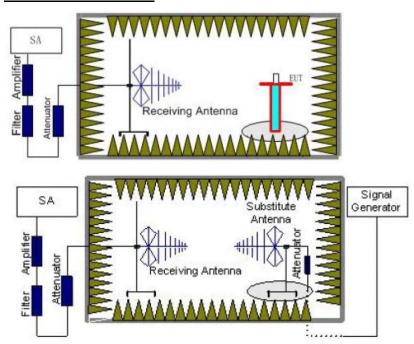
Report No.: CHTEW1911006202 Page: 19 of 36 Issued: 2019-11-06

5.8. ERP and EIRP

LIMIT

LTE Band 2/7: 2W(33dBm) EIRP LTE Band 4: 1W(30dBm) EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 0.8 meter for below 1GHz and 1.5 meter for above 1GHz high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz,, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- The measurement results are obtained as described below: Power(EIRP)=PMea- PAg - Pcl + Ga

Report No.: CHTEW1911006202 Page: 20 of 36 Issued: 2019-11-06

We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below: Power(EIRP)=PMea- Pcl + Ga

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

Please refer to the clause 3.3

TEST RESULTS

| □ Passed | Not Applicable |
|----------|----------------|

Report No.: CHTEW1911006202 Page: 21 of 36 Issued: 2019-11-06

| LTE Band 2-1.4MHz | | | | | | |
|-------------------|---------|----------|------------|-------------|--------|--|
| Modulation | Channel | EIRP | EIRP (dBm) | | Daguit | |
| iviodulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | |
| | Low | 15.06 | 13.54 | <33.00 | | |
| QPSK | Mid | 15.31 | 13.47 | | PASS | |
| | High | 15.05 | 13.54 | | | |
| | Low | 13.43 | 12.10 | | | |
| 16QAM | Mid | 13.74 | 12.20 | | PASS | |
| | High | 13.40 | 12.35 | | | |

| LTE Band 2-3MHz | | | | | | |
|-----------------|----------|----------|------------|------------------|--------|--|
| Modulation | Channel | EIRP | EIRP (dBm) | | Result | |
| Modulation | Chamilei | Vertical | Horizontal | Limit (dBm) | Nesuit | |
| | Low | 14.86 | 13.16 | - - <33.00 | | |
| QPSK | Mid | 15.18 | 13.46 | | PASS | |
| | High | 14.84 | 13.39 | | | |
| | Low | 13.97 | 12.65 | | | |
| 16QAM | Mid | 14.03 | 12.48 | | PASS | |
| | High | 13.42 | 12.47 | | | |

| LTE Band 2-5MHz | | | | | | |
|-----------------|---------|----------|------------|-------------|--------|--|
| Modulation | Channel | EIRP | (dBm) | Limit (dPm) | Result | |
| iviodulation | Chamei | Vertical | Horizontal | Limit (dBm) | | |
| | Low | 15.73 | 13.99 | | | |
| QPSK | Mid | 15.97 | 13.84 | | PASS | |
| | High | 15.85 | 13.96 | -22.00 | | |
| | Low | 14.18 | 12.53 | <33.00 | | |
| 16QAM | Mid | 14.38 | 12.59 | | PASS | |
| | High | 14.00 | 12.70 | | | |

| LTE Band 2-10MHz | | | | | | |
|------------------|---------|----------|------------|-------------|--------|--|
| Modulation | Channel | EIRP | | Limit (-ID) | Result | |
| iviodulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | |
| | Low | 15.70 | 14.06 | <33.00 | | |
| QPSK | Mid | 15.93 | 13.92 | | PASS | |
| | High | 15.81 | 14.11 | | | |
| | Low | 14.15 | 12.64 | | | |
| 16QAM | Mid | 14.35 | 12.76 | | PASS | |
| | High | 13.97 | 12.82 | | | |

Report No.: CHTEW1911006202 Page: 22 of 36 Issued: 2019-11-06

| LTE Band 2-15MHz | | | | | | |
|------------------|---------|----------|------------|-------------|--------|--|
| Modulation | Channel | EIRP | EIRP (dBm) | | D !! | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | |
| | Low | 15.42 | 13.62 | 22.00 | | |
| QPSK | Mid | 15.72 | 13.85 | | PASS | |
| | High | 15.50 | 13.89 | | | |
| | Low | 14.59 | 13.12 | <33.00 | | |
| 16QAM | Mid | 14.56 | 12.97 | | PASS | |
| | High | 13.92 | 12.88 | | | |

| | LTE Band 2-20MHz | | | | | | |
|------------|------------------|----------|------------|-------------|--------|--|--|
| Modulation | EIRP (| | (dBm) | Limit (dPm) | Decult | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | | |
| | Low | 15.57 | 13.75 | 22.00 | | | |
| QPSK | Mid | 15.95 | 14.03 | | PASS | | |
| | High | 15.74 | 14.04 | | | | |
| | Low | 14.81 | 13.43 | <33.00 | | | |
| 16QAM | Mid | 14.75 | 13.12 | | PASS | | |
| | High | 14.09 | 12.95 | | | | |

Report No.: CHTEW1911006202 Page: 23 of 36 Issued: 2019-11-06

| LTE Band 4-1.4MHz | | | | | | |
|-------------------|---------|----------|------------|-------------|--------|--|
| Modulation | Channel | EIRP | EIRP (dBm) | | Danill | |
| iviodulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | |
| | Low | 16.26 | 14.46 | <30.00 | | |
| QPSK | Mid | 16.71 | 14.85 | | PASS | |
| | High | 16.75 | 14.53 | | | |
| | Low | 14.10 | 12.87 | | | |
| 16QAM | Mid | 14.50 | 13.30 | | PASS | |
| | High | 14.42 | 13.11 | | | |

| LTE Band 4-3MHz | | | | | | |
|-----------------|---------|------------|------------|-------------|--------|--|
| Modulation | Channel | EIRP (dBm) | | Limit (dPm) | Pocult | |
| Modulation | Chamei | Vertical | Horizontal | Limit (dBm) | Result | |
| | Low | 16.66 | 14.45 | 20.00 | | |
| QPSK | Mid | 16.63 | 14.61 | | PASS | |
| | High | 16.45 | 14.38 | | | |
| | Low | 14.37 | 13.29 | <30.00 | | |
| 16QAM | Mid | 14.70 | 12.81 | | PASS | |
| | High | 14.71 | 13.31 | | | |

| | LTE Band 4-5MHz | | | | | | |
|------------|-----------------|----------|------------|-------------|--------|--|--|
| Modulation | Channel | EIRP | EIRP (dBm) | | D !! | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | | |
| | Low | 17.24 | 14.97 | <30.00 | | | |
| QPSK | Mid | 17.51 | 15.34 | | PASS | | |
| | High | 17.52 | 15.06 | | | | |
| | Low | 14.83 | 13.23 | | | | |
| 16QAM | Mid | 15.14 | 14.16 | | PASS | | |
| | High | 14.96 | 13.39 | | | | |

| LTE Band 4-10MHz | | | | | | | |
|------------------|---------|----------|------------|--------------|--------|--|--|
| Modulation | Channel | EIRP | (dBm) | Limit (dBm) | Result | | |
| Modulation | Chamei | Vertical | Horizontal | Limit (dbin) | | | |
| | Low | 16.82 | 14.82 | <30.00 | | | |
| QPSK | Mid | 17.17 | 15.18 | | PASS | | |
| | High | 17.19 | 14.86 | | | | |
| | Low | 14.52 | 13.15 | | | | |
| 16QAM | Mid | 14.87 | 13.55 | | PASS | | |
| | High | 14.73 | 13.32 | | | | |

Report No.: CHTEW1911006202 Page: 24 of 36 Issued: 2019-11-06

| LTE Band 4-15MHz | | | | | | | |
|------------------|---------|----------|------------|-------------|--------|--|--|
| Modulation | Channel | EIRP | (dBm) | Limit (dDm) | Result | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | | | |
| | Low | 17.25 | 14.76 | | | | |
| QPSK | Mid | 17.11 | 14.90 | 20.00 | PASS | | |
| | High | 16.91 | 14.70 | | | | |
| | Low | 14.81 | 13.51 | <30.00 | | | |
| 16QAM | Mid | 15.09 | 13.33 | | PASS | | |
| | High | 15.03 | 13.48 | | | | |

| | LTE Band 4-20MHz | | | | | | | |
|------------|------------------|----------|------------|------------------|--------|--|--|--|
| Modulation | Channel | EIRP | (dBm) | Limit (dPm) | Result | | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | | | | |
| | Low | 17.31 | 14.81 | 20.00 | | | | |
| QPSK | Mid | 17.34 | 15.01 | | PASS | | | |
| | High | 17.11 | 14.75 | | | | | |
| | Low | 14.79 | 13.58 | - - - - | | | | |
| 16QAM | Mid | 15.30 | 13.27 | | PASS | | | |
| | High | 15.27 | 13.63 | | | | | |

Report No.: CHTEW1911006202 Page: 25 of 36 Issued: 2019-11-06

| LTE Band 7-5MHz | | | | | | | |
|-----------------|---------|----------|------------|---------------|--------|--|--|
| Madulation | Channal | EIRP | (dBm) | | Result | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | | | |
| | Low | 15.27 | 14.42 | 22.00 | PASS | | |
| QPSK | Mid | 15.43 | 14.41 | | | | |
| | High | 15.30 | 14.04 | | | | |
| | Low | 13.53 | 13.74 | - <33.00 - | | | |
| 16QAM | Mid | 13.71 | 13.68 | | PASS | | |
| | High | 13.60 | 13.67 | | | | |

| | LTE Band 7-10MHz | | | | | | | |
|------------|------------------|----------|------------|-------------|--------|--|--|--|
| Modulation | Channel | EIRP | (dBm) | Limit (dPm) | Dogult | | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | Result | | | |
| | Low | 15.14 | 14.19 | | | | | |
| QPSK | Mid | 15.22 | 14.01 | 22.00 | PASS | | | |
| | High | 15.11 | 14.00 | | | | | |
| | Low | 13.94 | 13.83 | <33.00 | | | | |
| 16QAM | Mid | 13.91 | 13.58 | | PASS | | | |
| | High | 13.85 | 13.47 | | | | | |

| | LTE Band 7-15MHz | | | | | | | |
|------------|------------------|----------|------------|-------------|--------|--|--|--|
| Modulation | Channel | EIRP | (dBm) | Limit (dDm) | Result | | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | | | | |
| | Low | 15.14 | 14.26 | <33.00 | PASS | | | |
| QPSK | Mid | 15.29 | 14.40 | | | | | |
| | High | 15.15 | 14.27 | | | | | |
| | Low | 13.67 | 13.53 | | | | | |
| 16QAM | Mid | 13.82 | 13.44 | | PASS | | | |
| | High | 13.71 | 13.44 | | | | | |

| | LTE Band 7-20MHz | | | | | | | |
|------------|------------------|----------|------------|-------------|--------|--|--|--|
| Modulation | Channal | EIRP | (dBm) | Limit (dDm) | Result | | | |
| Modulation | Channel | Vertical | Horizontal | Limit (dBm) | | | | |
| | Low | 15.10 | 14.35 | 22.00 | | | | |
| QPSK | Mid | 15.18 | 14.17 | | PASS | | | |
| | High | 15.07 | 14.17 | | | | | |
| | Low | 14.01 | 13.92 | <33.00 | | | | |
| 16QAM | Mid | 14.25 | 14.02 | | PASS | | | |
| | High | 14.06 | 13.98 | | | | | |

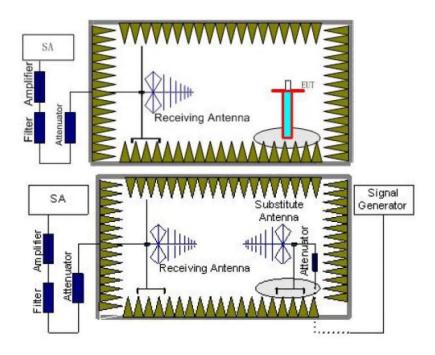
Report No.: CHTEW1911006202 Page: 26 of 36 Issued: 2019-11-06

5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4: -13dBm; LTE Band 7: -25dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 0.8 meter for below 1GHz and 1.5 meter for above 1GHz high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.

Report No.: CHTEW1911006202 Page: 27 of 36 Issued: 2019-11-06

6. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

- We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below: Power(EIRP)=PMea- Pcl + Ga
- 7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
 - ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

| ⊠ Passed | ☐ Not Applicable |
|----------|------------------|
|----------|------------------|

Report No.: CHTEW1911006202 Page: 28 of 36 Issued: 2019-11-06

| LTE Band 2-1.4MHz | | | | | | | |
|-------------------|-----------|--------------|-------------|-------------|--------|--|--|
| Channel | Frequency | Spurious | Emission | Limit (dDm) | Dogult | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3701.40 | Vertical | -36.11 | | | | |
| | 5552.10 | V | -39.87 | <-13.00 | Pass | | |
| Low | 7402.80 | V | -40.78 | | | | |
| LOW | 3701.40 | Horizontal | -36.97 | | | | |
| | 5552.10 | Н | -40.68 | <-13.00 | Pass | | |
| | 7402.80 | Н | -41.47 | | | | |
| | 3760.00 | Vertical | -35.46 | | Pass | | |
| | 5640.00 | V | -39.26 | <-13.00 | | | |
| Mid | 7520.00 | V | -40.21 | | | | |
| IVIIU | 3760.00 | Horizontal | -36.18 | | Pass | | |
| | 5640.00 | Н | -40.04 | <-13.00 | | | |
| | 7520.00 | Н | -40.86 | | | | |
| | 3818.60 | Vertical | -34.35 | | | | |
| | 5727.90 | V | -38.25 | <-13.00 | Pass | | |
| Lligh | 7637.20 | V | -39.25 | | | | |
| High | 3818.60 | Horizontal | -35.79 | | | | |
| | 5727.90 | Н | -39.68 | <-13.00 | Pass | | |
| | 7637.20 | Н | -40.55 | | | | |

| LTE Band 2-3MHz | | | | | | | |
|-----------------|-----------|--------------|-------------|---------------|--------------|--|--|
| Channal | Frequency | Spurious | Emission | Lineit (dDne) | D 1 | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3703.00 | Vertical | -33.64 | | | | |
| | 5554.50 | V | -36.23 | <-13.00 | Pass | | |
| Low | 7406.00 | V | -37.78 | | | | |
| LOW | 3703.00 | Horizontal | -34.04 | | | | |
| | 5554.50 | Н | -37.60 | <-13.00 | Pass | | |
| | 7406.00 | Н | -39.46 | | | | |
| | 3760.00 | Vertical | -31.66 | <-13.00 | | | |
| | 5640.00 | V | -34.36 | | Pass Pass | | |
| Mid | 7520.00 | V | -35.74 | | | | |
| iviid | 3760.00 | Horizontal | -32.39 | | | | |
| | 5640.00 | Н | -36.44 | <-13.00 | | | |
| | 7520.00 | Н | -38.13 | | | | |
| | 3817.00 | Vertical | -29.85 | | | | |
| | 5725.50 | V | -33.05 | <-13.00 | Pass | | |
| High | 7634.00 | V | -34.88 | | | | |
| riigii | 3817.00 | Horizontal | -30.65 | | | | |
| | 5725.50 | Н | -35.12 | <-13.00 | Pass | | |
| | 7634.00 | Н | -35.80 | | | | |

Report No.: CHTEW1911006202 Page: 29 of 36 Issued: 2019-11-06

| | LTE Band 2-5MHz | | | | | | | |
|---------|-----------------|--------------|-------------|---------------|--------|--|--|--|
| Channal | Frequency | Spurious I | Emission | Lineit (dDne) | | | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | | |
| | 3705.00 | Vertical | -27.90 | | | | | |
| | 5557.50 | V | -30.10 | <-13.00 | Pass | | | |
| Low | 7410.00 | V | -32.66 | | | | | |
| LOW | 3705.00 | Horizontal | -32.13 | | | | | |
| | 5557.50 | Н | -37.76 | <-13.00 | Pass | | | |
| | 7410.00 | Н | -37.09 | | | | | |
| | 3760.00 | Vertical | -28.85 | | | | | |
| | 5640.00 | V | -31.87 | <-13.00 | Pass | | | |
| Mid | 7520.00 | V | -34.19 | | | | | |
| iviid | 3760.00 | Horizontal | -34.33 | | Pass | | | |
| | 5640.00 | Н | -39.25 | <-13.00 | | | | |
| | 7520.00 | Н | -38.23 | | | | | |
| | 3815.00 | Vertical | -31.25 | | | | | |
| | 5722.50 | V | -33.58 | <-13.00 | Pass | | | |
| ∐iah | 7630.00 | V | -35.66 | | | | | |
| High | 3815.00 | Horizontal | -36.05 | | | | | |
| | 5722.50 | Н | -40.85 | <-13.00 | Pass | | | |
| | 7630.00 | Н | -39.44 | | | | | |

| LTE Band 2-10MHz | | | | | | | |
|------------------|-----------|--------------|-------------|----------------|--------|--|--|
| Oh ara a l | Frequency | Spurious I | Emission | Lineit (-IDne) | Danish | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3710.00 | Vertical | -29.65 | | | | |
| | 5565.00 | V | -32.72 | <-13.00 | Pass | | |
| Low | 7420.00 | V | -34.62 | | | | |
| LOW | 3710.00 | Horizontal | -38.49 | | | | |
| | 5565.00 | Н | -42.52 | <-13.00 | Pass | | |
| | 7420.00 | Н | -41.36 | | | | |
| | 3760.00 | Vertical | -31.54 | <-13.00 | | | |
| | 5640.00 | V | -34.30 | | Pass | | |
| Mid | 7520.00 | V | -36.53 | | | | |
| iviiu | 3760.00 | Horizontal | -39.74 | | | | |
| | 5640.00 | Н | -44.38 | <-13.00 | Pass | | |
| | 7520.00 | Н | -42.83 | | | | |
| | 3810.00 | Vertical | -32.24 | | | | |
| | 5715.00 | V | -35.88 | <-13.00 | Pass | | |
| l limb | 7620.00 | V | -38.36 | | | | |
| High | 3810.00 | Horizontal | -38.23 | | | | |
| | 5715.00 | Н | -43.50 | <-13.00 | Pass | | |
| | 7620.00 | Н | -41.66 | | | | |

Report No.: CHTEW1911006202 30 of 36 Issued: 2019-11-06 Page:

| LTE Band 2-15MHz | | | | | | | |
|------------------|-----------|--------------|-------------|--------------|--------|--|--|
| Observal | Frequency | Spurious | Emission | Limit (dDms) | D II | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3715.00 | Vertical | -30.96 | | | | |
| | 5572.50 | V | -34.72 | <-13.00 | Pass | | |
| Low | 7430.00 | V | -37.12 | | | | |
| LOW | 3715.00 | Horizontal | -39.45 | | | | |
| | 5572.50 | Н | -44.64 | <-13.00 | Pass | | |
| | 7430.00 | Н | -42.63 | | | | |
| | 3760.00 | Vertical | -31.87 | | Pass | | |
| | 5640.00 | V | -35.58 | <-13.00 | | | |
| Mid | 7520.00 | V | -37.93 | | | | |
| iviid | 3760.00 | Horizontal | -38.30 | | | | |
| | 5640.00 | Н | -43.44 | <-13.00 | Pass | | |
| | 7520.00 | Н | -41.95 | | | | |
| | 3805.00 | Vertical | -30.92 | | | | |
| | 5707.50 | V | -33.80 | <-13.00 | Pass | | |
| ∐iah | 7610.00 | V | -36.16 | | | | |
| High | 3805.00 | Horizontal | -39.81 | | | | |
| | 5707.50 | Н | -45.89 | <-13.00 | Pass | | |
| | 7610.00 | Н | -44.47 | | | | |

| LTE Band 2-20MHz | | | | | | | |
|------------------|-----------|--------------|-------------|-------------|--------|--|--|
| Channal | Frequency | Spurious | Emission | Limit (dDm) | Daguit | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3720.00 | Vertical | -32.42 | | | | |
| | 5580.00 | V | -35.50 | <-13.00 | Pass | | |
| Low | 7440.00 | V | -37.45 | | | | |
| LOW | 3720.00 | Horizontal | -40.25 | | | | |
| | 5580.00 | Н | -46.31 | <-13.00 | Pass | | |
| | 7440.00 | Н | -44.82 | | | | |
| | 3760.00 | Vertical | -32.75 | | Pass | | |
| | 5640.00 | V | -35.81 | <-13.00 | | | |
| Mid | 7520.00 | V | -37.74 | | | | |
| iviid | 3760.00 | Horizontal | -40.54 | | | | |
| | 5640.00 | Н | -46.55 | <-13.00 | Pass | | |
| | 7520.00 | Н | -45.04 | | | | |
| | 3800.00 | Vertical | -31.66 | | | | |
| | 5700.00 | V | -34.34 | <-13.00 | Pass | | |
| High | 7600.00 | V | -36.68 |] | | | |
| High | 3800.00 | Horizontal | -40.85 | | | | |
| | 5700.00 | Н | -46.84 | <-13.00 | Pass | | |
| | 7600.00 | Н | -45.29 | | | | |

Remark:

- Remark"---" means that the emission level is too low to be measured The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Report No.: CHTEW1911006202 Page: 31 of 36 Issued: 2019-11-06

| LTE Band 4-1.4MHz | | | | | | | |
|-------------------|-----------|--------------|-------------|-------------|--------|--|--|
| Channal | Frequency | Spurious I | Emission | Limit (dDm) | Dogult | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3421.40 | Vertical | -33.58 | | | | |
| | 5132.10 | V | -38.92 | <-13.00 | Pass | | |
| Low | 6842.80 | V | -39.66 | | | | |
| LOW | 3421.40 | Horizontal | -34.73 | | | | |
| | 5132.10 | Н | -40.00 | <-13.00 | Pass | | |
| | 6842.80 | Н | -40.58 | | | | |
| | 3465.00 | Vertical | -32.72 | <-13.00 | Pass | | |
| | 5197.50 | V | -38.11 | | | | |
| Mid | 6930.00 | V | -38.90 | | | | |
| iviiu | 3465.00 | Horizontal | -33.68 | | | | |
| | 5197.50 | Н | -39.15 | <-13.00 | Pass | | |
| | 6930.00 | Н | -39.77 | | | | |
| | 3508.60 | Vertical | -31.25 | | | | |
| | 5262.90 | V | -36.77 | <-13.00 | Pass | | |
| ∐iah | 7017.20 | V | -37.63 | | | | |
| High | 3508.60 | Horizontal | -32.47 | | | | |
| | 5262.90 | Н | -38.00 | <-13.00 | Pass | | |
| | 7017.20 | Н | -38.68 | | | | |

| LTE Band 4-3MHz | | | | | | | |
|-----------------|-----------|--------------|-------------|---------------|--------|--|--|
| Channal | Frequency | Spurious I | Emission | Lineit (dDne) | Decult | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3423.00 | Vertical | -33.09 | | | | |
| | 5134.50 | V | -38.42 | <-13.00 | Pass | | |
| Low | 6846.00 | V | -39.26 | | | | |
| LOW | 3423.00 | Horizontal | -33.93 | | | | |
| | 5134.50 | Н | -40.32 | <-13.00 | Pass | | |
| | 6846.00 | Н | -40.45 | | | | |
| | 3465.00 | Vertical | -35.02 | | Pass | | |
| | 5197.50 | V | -40.35 | <-13.00 | | | |
| Mid | 6930.00 | V | -40.75 | | | | |
| IVIIU | 3465.00 | Horizontal | -37.63 | | | | |
| | 5197.50 | Н | -42.93 | <-13.00 | Pass | | |
| | 6930.00 | Н | -43.48 | | | | |
| | 3507.00 | Vertical | -36.32 | | | | |
| | 5260.50 | V | -41.53 | <-13.00 | Pass | | |
| Lliah | 7014.00 | V | -41.87 | | | | |
| High | 3507.00 | Horizontal | -39.42 | | | | |
| | 5260.50 | Н | -44.95 | <-13.00 | Pass | | |
| | 7014.00 | Н | -44.95 | | | | |

Report No.: CHTEW1911006202 Page: 32 of 36 Issued: 2019-11-06

| | LTE Band 4-5MHz | | | | | | | |
|---------|-----------------|--------------|-------------|---------------|--------|--|--|--|
| Channal | Frequency | Spurious I | Emission | Limeit (dDme) | D It | | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | | |
| | 3425.00 | Vertical | -38.69 | | | | | |
| | 5137.50 | V | -43.27 | <-13.00 | Pass | | | |
| Low | 6850.00 | V | -44.23 | | | | | |
| LOW | 3425.00 | Horizontal | -40.37 | | | | | |
| | 5137.50 | Н | -45.84 | <-13.00 | Pass | | | |
| | 6850.00 | Н | -45.71 | | | | | |
| | 3465.00 | Vertical | -39.40 | <-13.00 | Pass | | | |
| | 5197.50 | V | -43.94 | | | | | |
| Mid | 6930.00 | V | -44.86 | | | | | |
| iviid | 3465.00 | Horizontal | -41.20 | | Pass | | | |
| | 5197.50 | Н | -46.51 | <-13.00 | | | | |
| | 6930.00 | Н | -46.35 | | | | | |
| | 3505.00 | Vertical | -40.42 | | | | | |
| | 5257.50 | V | -44.87 | <-13.00 | Pass | | | |
| ∐iah | 7010.00 | V | -45.74 | | | | | |
| High | 3505.00 | Horizontal | -41.87 | | | | | |
| | 5257.50 | Н | -47.14 | <-13.00 | Pass | | | |
| | 7010.00 | Н | -46.88 | | | | | |

| | LTE Band 4-10MHz | | | | | | | |
|---------|------------------|--------------|-------------|-------------|--------|--|--|--|
| Channal | Frequency | Spurious | Emission | Limit (dDm) | Daguit | | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | | |
| | 3430.00 | Vertical | -42.23 | | | | | |
| | 5145.00 | V | -45.98 | <-13.00 | Pass | | | |
| Low | 6860.00 | V | -46.41 | | | | | |
| LOW | 3430.00 | Horizontal | -42.13 | | | | | |
| | 5145.00 | Н | -47.38 | <-13.00 | Pass | | | |
| | 6860.00 | Н | -47.09 | | | | | |
| | 3465.00 | Vertical | -42.42 | | Pass | | | |
| | 5197.50 | V | -46.16 | <-13.00 | | | | |
| Mid | 6930.00 | V | -46.94 | | | | | |
| IVIIU | 3465.00 | Horizontal | -42.34 | | | | | |
| | 5197.50 | Н | -47.55 | <-13.00 | Pass | | | |
| | 6930.00 | Н | -47.25 | | | | | |
| | 3500.00 | Vertical | -42.68 | | | | | |
| | 5250.00 | V | -46.40 | <-13.00 | Pass | | | |
| High | 7000.00 | V | -47.17 | | | | | |
| riigri | 3500.00 | Horizontal | -42.54 | | | | | |
| | 5250.00 | Н | -47.74 | <-13.00 | Pass | | | |
| | 7000.00 | Н | -47.41 | | | | | |

Report No.: CHTEW1911006202 Page: 33 of 36 Issued: 2019-11-06

| LTE Band 4-15MHz | | | | | | | |
|------------------|-----------|-------------------|-------------|--------------|--------|--|--|
| Ohamad | Frequency | Spurious Emission | | Limit (dDms) | | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 3435.00 | Vertical | -43.37 | | | | |
| | 5152.50 | V | -47.10 | <-13.00 | Pass | | |
| Low | 6870.00 | V | -47.72 | | | | |
| LOW | 3435.00 | Horizontal | -43.98 | | | | |
| | 5152.50 | Н | -49.10 | <-13.00 | Pass | | |
| | 6870.00 | Н | -49.92 | | | | |
| | 3465.00 | Vertical | -45.73 | | Pass | | |
| | 5197.50 | V | -49.32 | <-13.00 | | | |
| Mid | 6930.00 | V | -49.80 | | | | |
| iviiu | 3465.00 | Horizontal | -45.81 | | | | |
| | 5197.50 | Н | -50.59 | <-13.00 | Pass | | |
| | 6930.00 | Н | -51.33 | | | | |
| | 3495.00 | Vertical | -47.47 | | | | |
| | 5242.50 | V | -50.90 | <-13.00 | Pass | | |
| Lligh | 6990.00 | V | -51.30 | | | | |
| High | 3495.00 | Horizontal | -47.33 | | | | |
| | 5242.50 | Н | -52.02 | <-13.00 | Pass | | |
| | 6990.00 | Н | -53.98 | | | | |

| LTE Band 4-20MHz | | | | | | |
|------------------|-----------|--------------|-------------|---------------|--------|--|
| Channal | Frequency | Spurious | Emission | Limait (dDma) | Decult | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | |
| | 3440.00 | Vertical | -55.89 | | | |
| | 5160.00 | V | -52.82 | <-13.00 | Pass | |
| Low | 6880.00 | V | -52.93 | | | |
| LOW | 3440.00 | Horizontal | -48.98 | | | |
| | 5160.00 | Н | -59.12 | <-13.00 | Pass | |
| | 6880.00 | Н | -61.10 | | | |
| | 3465.00 | Vertical | -63.53 | | Pass | |
| | 5197.50 | V | -56.46 | <-13.00 | | |
| Mid | 6930.00 | V | -56.35 | | | |
| iviid | 3465.00 | Horizontal | -53.81 | | | |
| | 5197.50 | Н | -64.07 | <-13.00 | Pass | |
| | 6930.00 | Н | -63.76 | | | |
| | 3490.00 | Vertical | -65.71 | | | |
| | 5235.00 | V | -57.86 | <-13.00 | Pass | |
| High | 6980.00 | V | -57.62 | | | |
| High | 3490.00 | Horizontal | -55.02 | | | |
| | 5235.00 | Н | -65.22 | <-13.00 | Pass | |
| | 6980.00 | Н | -64.85 | | | |

Remark:

- 1. Remark"---" means that the emission level is too low to be measured
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Report No.: CHTEW1911006202 Page: 34 of 36 Issued: 2019-11-06

| LTE Band 7-5MHz | | | | | | | |
|-----------------|-----------|--------------|-------------|-------------|--------|--|--|
| Channel | Frequency | Spurious | Emission | Limit (dDm) | Dooult | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 5005.00 | Vertical | -36.90 | | | | |
| | 7507.50 | V | -41.47 | <-25.00 | Pass | | |
| Low | 10010.00 | V | -41.91 | | | | |
| LOW | 5005.00 | Horizontal | -38.63 | | | | |
| | 7507.50 | Н | -43.59 | <-25.00 | Pass | | |
| | 10010.00 | Н | -43.16 | | | | |
| | 5070.00 | Vertical | -36.02 | | Pass | | |
| | 7605.00 | V | -40.18 | <-25.00 | | | |
| Mid | 10140.00 | V | -40.83 | | | | |
| IVIIG | 5070.00 | Horizontal | -36.25 | | | | |
| | 7605.00 | Н | -41.57 | <-25.00 | Pass | | |
| | 10140.00 | Н | -41.81 | | | | |
| | 5135.00 | Vertical | -33.56 | | | | |
| | 7702.50 | V | -37.94 | <-25.00 | Pass | | |
| High | 10270.00 | V | -38.71 | | | | |
| High | 5135.00 | Horizontal | -34.61 | | Pass | | |
| | 7702.50 | Н | -40.03 | <-25.00 | | | |
| | 10270.00 | Н | -40.50 | | | | |

| LTE Band 7-10MHz | | | | | | | |
|------------------|-----------|--------------|-------------|---------------|--------|--|--|
| Oh an a a l | Frequency | Spurious I | Emission | Lineit (dDas) | D 1 | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 5010.00 | Vertical | -32.45 | | | | |
| | 7515.00 | V | -37.00 | <-25.00 | Pass | | |
| Low | 10020.00 | V | -37.91 | | | | |
| LOW | 5010.00 | Horizontal | -35.53 | | | | |
| | 7515.00 | Н | -40.90 | <-25.00 | Pass | | |
| | 10020.00 | Н | -41.24 | | | | |
| | 5070.00 | Vertical | -33.14 | <-25.00 | Pass | | |
| | 7605.00 | V | -37.65 | | | | |
| Mid | 10140.00 | V | -38.52 | | | | |
| iviiu | 5070.00 | Horizontal | -36.65 | | | | |
| | 7605.00 | Н | -41.81 | <-25.00 | Pass | | |
| | 10140.00 | Н | -42.10 | | | | |
| | 5130.00 | Vertical | -34.28 | | | | |
| | 7695.00 | V | -38.68 | <-25.00 | Pass | | |
| Lliab | 10260.00 | V | -39.50 | | | | |
| High | 5130.00 | Horizontal | -37.39 | | | | |
| | 7695.00 | Н | -42.50 | <-25.00 | Pass | | |
| | 10260.00 | Н | -42.69 | | | | |

Report No.: CHTEW1911006202 Page: 35 of 36 Issued: 2019-11-06

| LTE Band 7-15MHz | | | | | | | |
|------------------|-----------|--------------|-------------|---------------|--------|--|--|
| Channal | Frequency | Spurious I | Emission | Lineit (dDne) | Dooult | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 5015.00 | Vertical | -33.28 | | | | |
| | 7522.50 | V | -37.83 | <-25.00 | Pass | | |
| Low | 10030.00 | V | -38.78 | | | | |
| LOW | 5015.00 | Horizontal | -38.94 | | | | |
| | 7522.50 | Н | -44.75 | <-25.00 | Pass | | |
| | 10030.00 | Н | -44.89 | | | | |
| | 5070.00 | Vertical | -35.39 | <-25.00 | Pass | | |
| | 7605.00 | V | -39.69 | | | | |
| Mid | 10140.00 | V | -40.14 | | | | |
| IVIIU | 5070.00 | Horizontal | -38.06 | | Pass | | |
| | 7605.00 | Н | -44.04 | <-25.00 | | | |
| | 10140.00 | Н | -44.21 | | | | |
| | 5125.00 | Vertical | -34.30 | | | | |
| | 7687.50 | V | -38.70 | <-25.00 | Pass | | |
| High | 10250.00 | V | -39.20 | | | | |
| riigii | 5125.00 | Horizontal | -37.34 | | | | |
| | 7687.50 | Н | -43.36 | <-25.00 | Pass | | |
| | 10250.00 | Н | -43.63 | | | | |

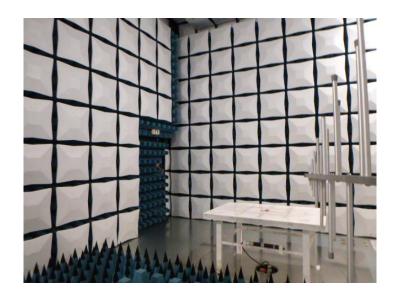
| LTE Band 7-20MHz | | | | | | | |
|------------------|-----------|--------------|-------------|---------------|--------|--|--|
| Channal | Frequency | Spurious I | Emission | Limeit (dDme) | Decult | | |
| Channel | (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | | |
| | 5020.00 | Vertical | -33.23 | | | | |
| | 7530.00 | V | -37.37 | <-25.00 | Pass | | |
| Low | 10040.00 | V | -38.07 | | | | |
| LOW | 5020.00 | Horizontal | -36.31 | | | | |
| | 7530.00 | Н | -42.39 | <-25.00 | Pass | | |
| | 10040.00 | Н | -42.81 | | | | |
| | 5070.00 | Vertical | -32.46 | | Pass | | |
| | 7605.00 | V | -36.64 | <-25.00 | | | |
| Mid | 10140.00 | V | -37.39 | | | | |
| IVIIU | 5070.00 | Horizontal | -34.97 | | | | |
| | 7605.00 | Н | -41.30 | <-25.00 | Pass | | |
| | 10140.00 | Н | -41.78 | | | | |
| | 5120.00 | Vertical | -31.51 | | | | |
| | 7680.00 | V | -35.78 | <-25.00 | Pass | | |
| High | 10240.00 | V | -36.57 | | | | |
| High | 5120.00 | Horizontal | -36.41 | | | | |
| | 7680.00 | Н | -42.65 | <-25.00 | Pass | | |
| | 10240.00 | Н | -42.93 | | | | |

Remark:

- 1. Remark"---" means that the emission level is too low to be measured
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Report No.: CHTEW1911006202 Page: 36 of 36 Issued: 2019-11-06

6. TEST SETUP PHOTOS OF THE EUT





7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refere to the test report No.: CHTEW19110062

8. APPENDIX REPORT