

FCC TEST REPORT

Product Name: Tablet



Trade Mark:

Model No.: C10

Report Number: 200405001RFM-3

Test Standards: FCC 47 CFR Part 90 Subpart R

FCC ID: 2AUOUC10

Test Result: PASS

Date of Issue: July 20, 2020

Prepared for:

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UTTR-RF-FCCPART90R-V1.0

Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| V1.0 | July 20, 2020 | Original |

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

| | |
|---------------------------------|--|
| Applicant: | Rhino Mobility LLC |
| Address of Applicant: | 16400 NW 2nd Ave Suite # 201 Miami,FL 33169,US |
| Manufacturer: | Rhino Mobility LLC |
| Address of Manufacturer: | 16400 NW 2nd Ave Suite # 201 Miami,FL 33169,US |

1.2 EUT INFORMATION

1.2.1 General Description of EUT

| | | |
|-------------------------------|---|--|
| Product Name: | Tablet | |
| Model No.: | C10 | |
| Trade Mark: |  | |
| DUT Stage: | Identical Prototype | |
| EUT Supports Function: | GSM Bands: | GSM850/1900 |
| | UTRA Bands: | Band II/ Band IV/ Band V |
| | E-UTRA Bands: | FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ Band 14/ Band 17/Band 25/ Band 26/ Band 30/Band 66/ Band 71 |
| | | TDD Band 41 |
| | 2.4 GHz ISM Band: | IEEE 802.11b/g/n |
| | | Bluetooth 5.0 |
| | 5 GHz U-NII Bands: | 5 150 MHz to 5 250 MHz IEEE 802.11a/n 5 250 MHz to 5 350 MHz IEEE 802.11a/n 5 470 MHz to 5 725 MHz IEEE 802.11a/n 5 725 MHz to 5 850 MHz IEEE 802.11a/n |
| | RNSS Bands: | 1559 MHz to 1610 MHz GPS/ GNSS/ GLONASS/ BDS |
| | NFC: | 13.553 MHz to 13.567 MHz |
| Sample Received Date: | April 5, 2020 | |
| Sample Tested Date: | April 5, 2020 to June 30, 2020 | |

1.2.2 Description of Accessories

| Adapter | |
|----------------------|--|
| Model No.: | TPA-10120150UU |
| Input: | 100-240 V~50/60 Hz 0.6A Max |
| Output: | 3.6-6.0V == 3.0A 18.0W/6.0-9.0V == 2.0A 18.0W /9.0-12.0V == 1.5A |
| DC Cable: | 1.0 Meter, Unshielded without ferrite |
| Manufacturer: | SHENZHEN TIANYIN ELECTRONICS CO., LTD |

| Battery | |
|--------------------------------|--|
| Model No.: | BPC10 |
| Battery Type: | Lithium-ion Polymer Rechargeable Battery |
| Rated Voltage: | 3.8 Vdc |
| Limited Charge Voltage: | 4.35 Vdc |
| Rated Capacity: | 7500 mAh |
| Manufacturer: | SHENZHENKEHUAXINELECTRONICSCO.,LTD. |

| Cable | |
|---------------------|----------------------------|
| Description: | USB Type-C Plug Cable |
| Cable Type: | Unshielded without ferrite |
| Length: | 1.0 Meter |

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

| | | | |
|----------------------------------|--|---------------------------|------------------------|
| Support Networks: | LTE | | |
| Type of Modulation: | LTE Band 14: | | UL:QPSK, 16QAM |
| | | | DL: QPSK, 16QAM, 64QAM |
| Frequency Range: | LTE Band 14 (Channel Bandwidth: 5 MHz): | | 790.5-795.5 MHz |
| | LTE Band 14 (Channel Bandwidth: 10 MHz): | | 793 MHz |
| Max RF Output Power: | LTE Band 14 (Channel Bandwidth: 5 MHz): | | 23.12dBm |
| | LTE Band 14 (Channel Bandwidth: 10 MHz): | | 22.54dBm |
| Type of Emission: | LTE Band 14 QPSK | Channel Bandwidth: 5 MHz | 4M51G7D |
| | | Channel Bandwidth: 10 MHz | 9M00G7D |
| | LTE Band 14 16QAM | Channel Bandwidth: 5 MHz | 4M51W7D |
| | | Channel Bandwidth: 10 MHz | 8M97W7D |
| Antenna Type: | FPCB Antenna | | |
| Antenna Gain: | 0.8 dBi | | |
| Normal Test Voltage: | 3.8 Vdc | | |
| Extreme Test Voltage: | 3.5 to 4.2Vdc | | |
| Extreme Test Temperature: | -20 °C to +55 °C | | |

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

| Description | Manufacturer | Model No. | Serial Number | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| Notebook | Lenovo | E450 | SL10G10780 | UnionTrust |

2) Support Cable

| Cable No. | Description | Connector | Length | Supplied by |
|-----------|---------------|-----------|------------|-------------|
| 1 | Antenna Cable | SMA | 0.30 Meter | UnionTrust |

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109

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1.6 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. 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.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

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1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item | Measurement Uncertainty |
|-----|---|--------------------------|
| 1 | Conducted emission 9KHz-150KHz | ±3.2 dB |
| 2 | Conducted emission 150KHz-30MHz | ±2.7 dB |
| 3 | Radiated spurious emissions 30MHz-1GHz | ± 4.9 dB |
| 4 | Radiated spurious emissions 1GHz-18GHz | ± 4.8 dB |
| 5 | Radiated spurious emissions 18GHz-40GHz | ± 5.1 dB |
| 6 | Occupied Bandwidth | ± 1.86 % |
| 7 | DC Supply Voltages | ± 0.68 % |
| 8 | Temperature | ± 0.62 °C |
| 9 | Humidity | ± 3.9 % |
| 10 | Conducted spurious emissions | ± 2.7 dB |
| 11 | DC Supply Voltages | ± 0.68 % |
| 12 | AC Supply Voltages | ± 1.2 % |
| 13 | Radio Frequency | ± 6.5 x 10 ⁻⁸ |
| 14 | RF Power, Conducted | ± 0.9 dB |

2. TEST SUMMARY

| FCC 47 CFR Part 90 Subpart R Test Cases | | | |
|--|---|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Effective Radiated Power (ERP) | FCC 47 CFR Part 2.1046 & FCC 47 CFR Part 90.542(a)(7) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Emission Mask | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 90.543 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 90.539 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average power ratio (PAPR) | N/A | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |

3. EQUIPMENT LIST

| Radiated Emission Test Equipment List | | | | | | |
|---------------------------------------|-----------------------------------|--------------|------------|----------------------------|-------------------------|-----------------------------|
| Used | Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| <input checked="" type="checkbox"/> | 3M Chamber & Accessory Equipment | ETS-LINDGREN | 3M | N/A | Dec. 03, 2018 | Dec. 03, 2021 |
| <input checked="" type="checkbox"/> | Receiver | R&S | ESIB26 | 100114 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Broadband Antenna | ETS-LINDGREN | 3142E | 00201566 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input checked="" type="checkbox"/> | 6dB Attenuator | Talent | RA6A5-N-18 | 18103001 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input checked="" type="checkbox"/> | Preamplifier | HP | 8447F | 2805A02960 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Broadband Antenna (Pre-amplifier) | ETS-LINDGREN | 3142E-PA | 00201891 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | 6dB Attenuator | Talent | RA6A5-N-18 | 18103002 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Horn Antenna | ETS-LINDGREN | 3117 | 00164202 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input checked="" type="checkbox"/> | Horn Antenna (Pre-amplifier) | ETS-LINDGREN | 3117-PA | 00201874 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input checked="" type="checkbox"/> | Multi device Controller | ETS-LINDGREN | 7006-001 | 00160105 | N/A | N/A |
| <input checked="" type="checkbox"/> | Test Software | Audix | e3 | Software Version: 9.160323 | | |

| RF Test Equipment List | | | | | | |
|-------------------------------------|-------------------------------------|--------------|---------------|------------------------|-------------------------|-----------------------------|
| Used | Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| <input checked="" type="checkbox"/> | Receiver | R&S | ESR7 | 1316.3003K07-101181-K3 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY51440197 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Wideband Radio Communication Tester | R&S | CMW500 | 120932 | Jul. 19, 2019 | Jul. 19, 2020 |
| <input type="checkbox"/> | Wideband Radio Communication Tester | R&S | CMW500 | 119583 | Jul. 31, 2019 | Jul. 31, 2020 |
| <input checked="" type="checkbox"/> | DC Source | KIKUSUI | PWR400L | LK003024 | Sep. 09, 2019 | Sep. 08, 2020 |
| <input type="checkbox"/> | Temp & Humidity chamber | Espec | GL(U)04K A(W) | 16921H201P3 | Sep. 09, 2019 | Sep. 08, 2020 |
| <input checked="" type="checkbox"/> | Temp & Humidity chamber | Votisch | VT4002 | 58566133290020 | Sep. 09, 2019 | Sep. 08, 2020 |

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

| Test Environment | Selected Values During Tests | | |
|------------------|------------------------------|-------------|-----------------------|
| Test Condition | Ambient | | |
| | Temperature (°C) | Voltage (V) | Relative Humidity (%) |
| TN/VN | +15 to +35 | 3.8 | 20 to 75 |
| TL/VL | -20 | 3.5 | 20 to 75 |
| TH/VL | +55 | 3.5 | 20 to 75 |
| TL/VH | -20 | 4.2 | 20 to 75 |
| TH/VH | +55 | 4.2 | 20 to 75 |

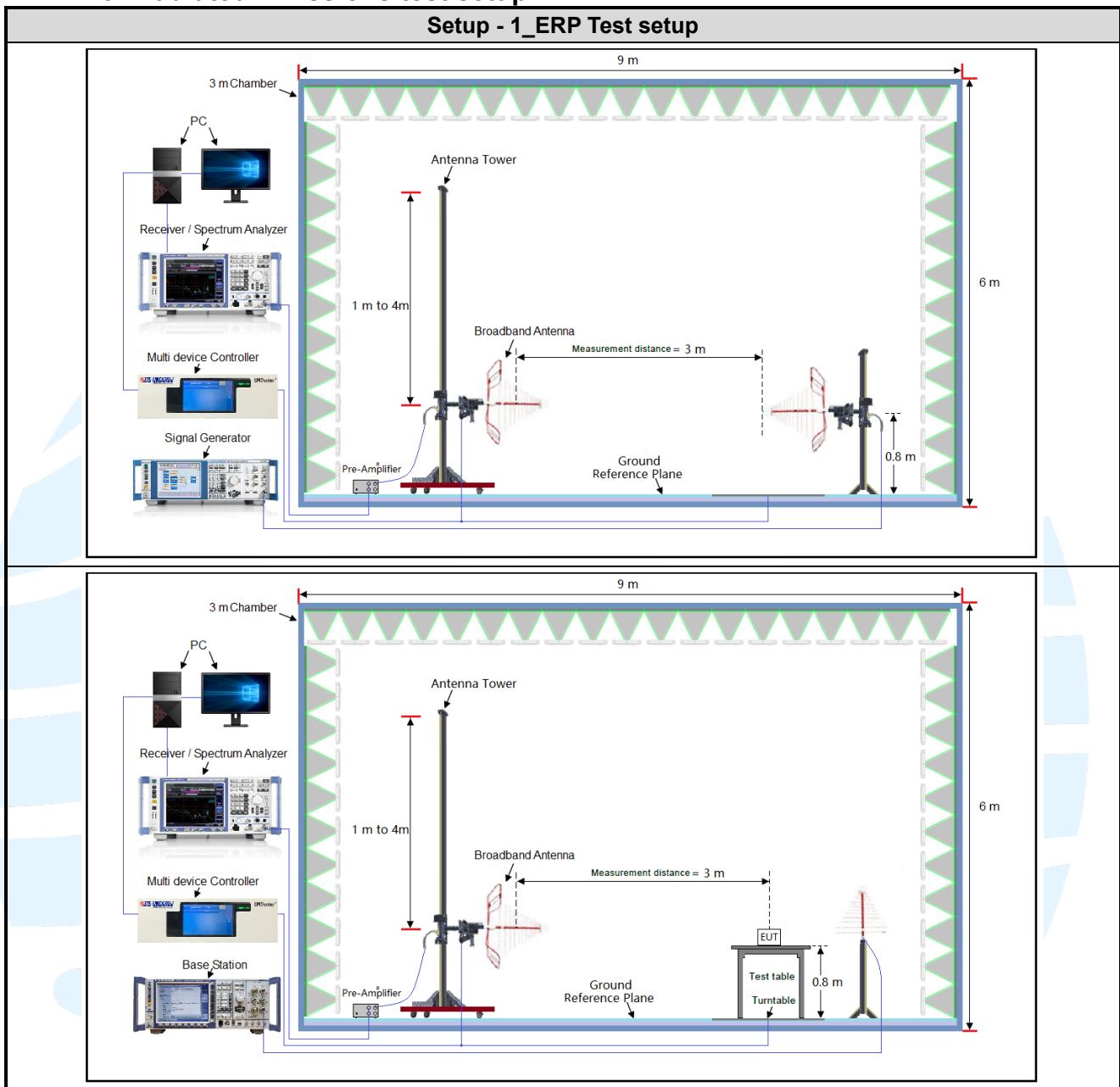
Remark:

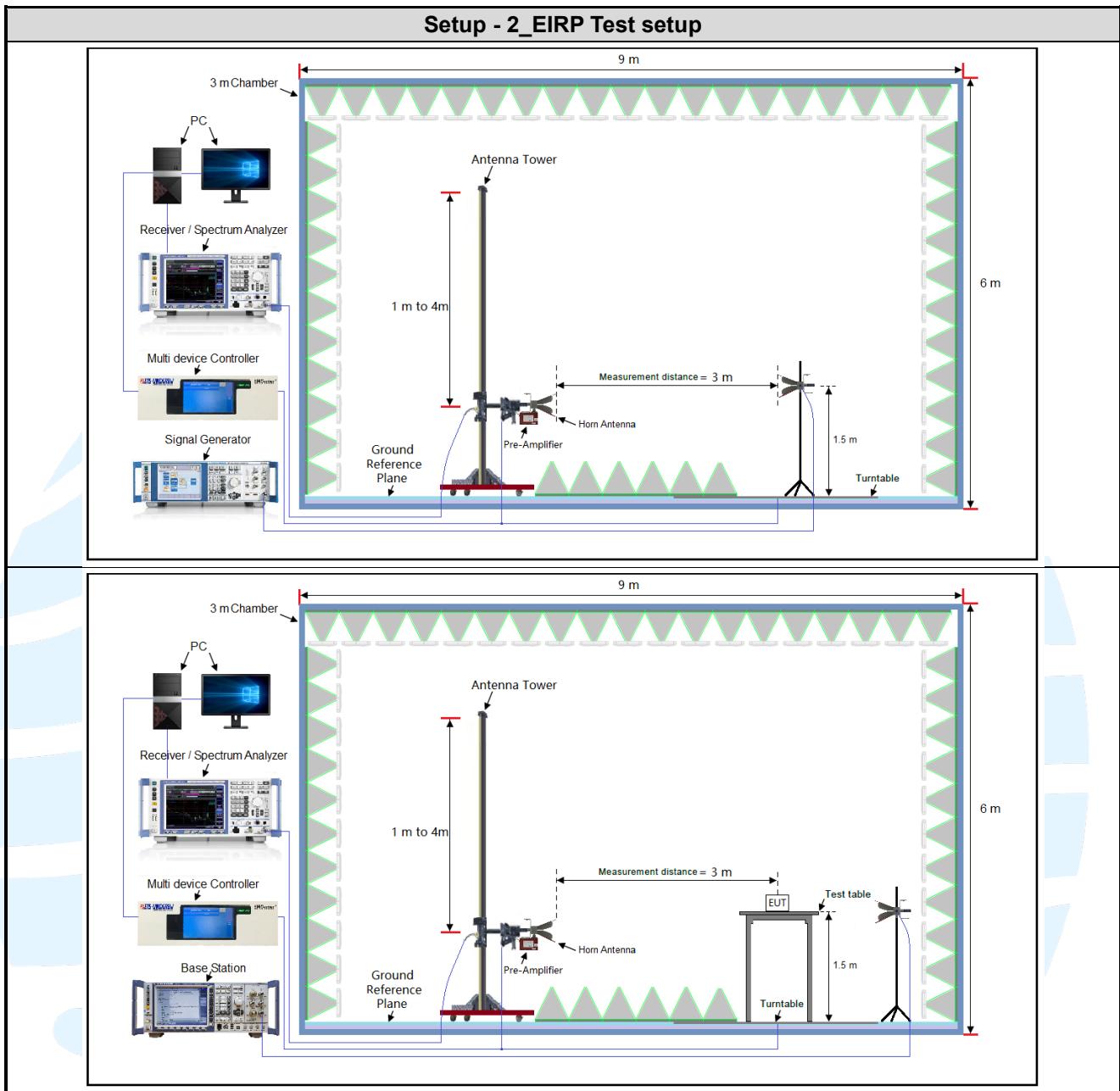
1) The EUT just work in such extreme temperature of -20 °C to +55 °C and the extreme voltage of 3.5 V to 4.2 V, so here the EUT is tested in the temperature of -20 °C to +55 °C and the voltage of 3.5 V to 4.2 V;

2) VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

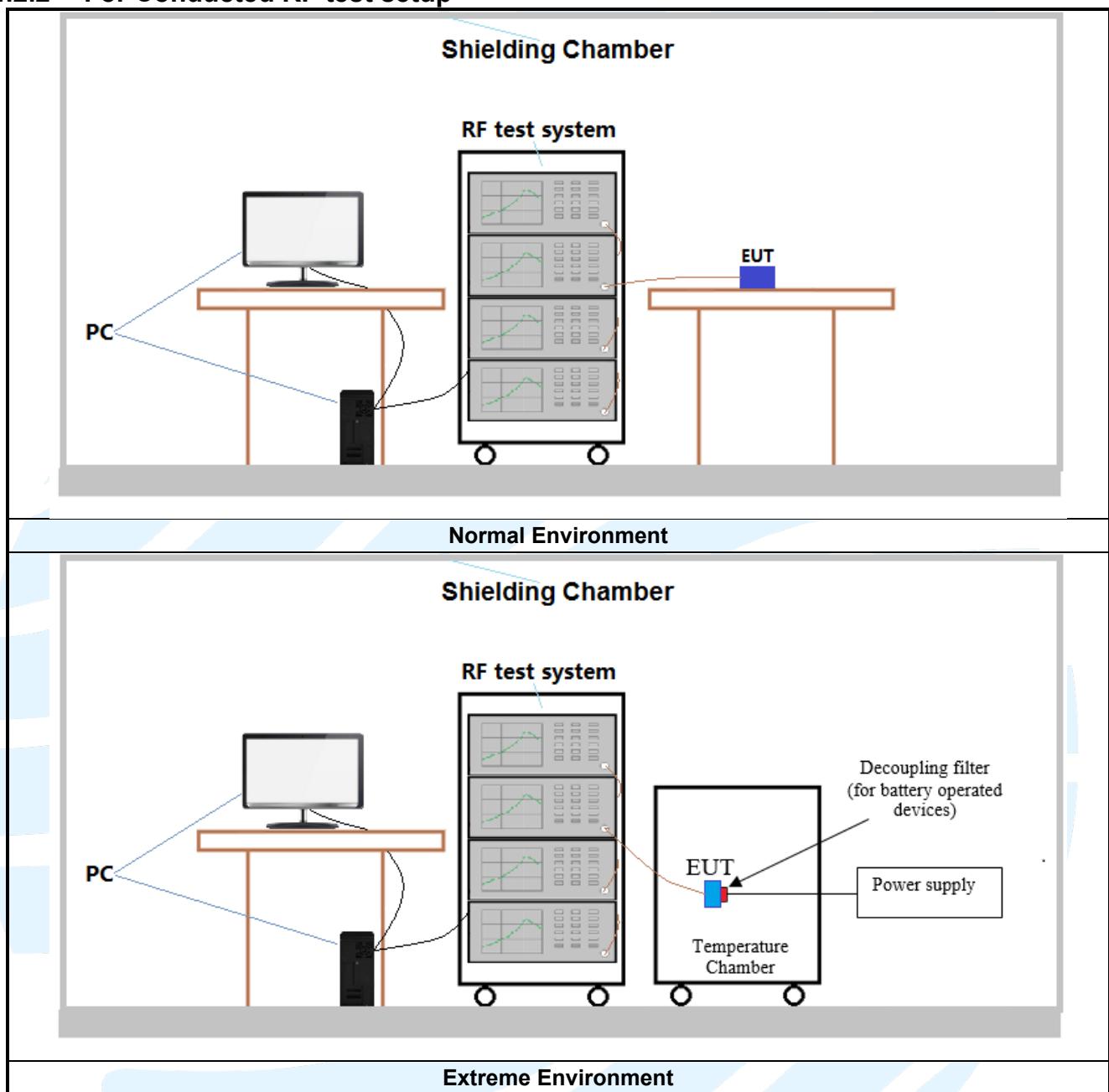
4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup





4.2.2 For Conducted RF test setup



4.3 TEST CHANNELS

| Band | Test Frequency ID | Bandwidth (MHz) | Number [UL] | Frequency of Uplink (MHz) |
|------------------------|-------------------|-----------------|-------------|---------------------------|
| TX: 814 MHz to 824 MHz | Low Range | 5 | 23305 | 790.5 |
| | | 10 | 23330 | 793 |
| | Middle Range | 5/10 | 23330 | 793 |
| | | 5 | 23355 | 795.5 |
| | High Range | 10 | 23330 | 793 |
| | | | | |

4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.8V battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

The worst case was found when positioned as the table below.

| Band | Mode | Antenna Port | Worst-case axis positioning |
|-------------|------|--------------|-----------------------------|
| LTE Band 14 | 1TX | Chain 0 | Y axis |

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5PRE-SCAN

| Modulation | LTE Band 14 Maximum Average Power (dBm) | | | | | | | | | |
|--------------------------|---|--------|--------------|-------|---------------------------|------|--------|--------------|-------|------|
| | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | | |
| QPSK | 1 | 0 | 24.21 | 24.13 | 24.20 | 1 | 0 | / | 24.15 | / |
| | 1 | 12 | 24.39 | 24.42 | 24.47 | 1 | 24 | / | 24.42 | / |
| | 1 | 24 | 24.19 | 24.15 | 24.22 | 1 | 49 | / | 24.19 | / |
| | 12 | 0 | 23.31 | 23.27 | 23.29 | 25 | 0 | / | 23.22 | / |
| | 12 | 6 | 23.31 | 23.35 | 23.35 | 25 | 12 | / | 23.25 | / |
| | 12 | 13 | 23.25 | 23.28 | 23.21 | 25 | 25 | / | 23.18 | / |
| | 25 | 0 | 23.29 | 23.27 | 23.23 | 50 | 0 | / | 23.21 | / |
| 16QAM | 1 | 0 | 23.36 | 23.63 | 23.20 | 1 | 0 | / | 23.45 | / |
| | 1 | 12 | 23.55 | 23.89 | 23.50 | 1 | 24 | / | 23.60 | / |
| | 1 | 24 | 23.32 | 23.64 | 23.26 | 1 | 49 | / | 23.51 | / |
| | 12 | 0 | 22.37 | 22.37 | 22.30 | 25 | 0 | / | 22.24 | / |
| | 12 | 6 | 22.38 | 22.44 | 22.33 | 25 | 12 | / | 22.23 | / |
| | 12 | 13 | 22.32 | 22.38 | 22.21 | 25 | 25 | / | 22.19 | / |
| | 25 | 0 | 22.33 | 22.35 | 22.19 | 50 | 0 | / | 22.17 | / |

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the LTE worse case mode applicability and tested channel detail as below:

| Item | Channel Bandwidth(MHz) | | | | | | Modulation | | | RB # | | | Test | | |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| LTE Band 14 | | | | | | | | | | | | | | | |
| EIRP | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Conducted output power | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Peak-to-average ratio | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 99%&26dB Bandwidth | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Band Edge at antenna terminals | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Spurious emissions at antenna terminals | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Field strength of spurious radiation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Frequency stability | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Remark: | | | | | | | | | | | | | | | |
| The mark “ <input checked="" type="checkbox"/> ” means is chosen for testing; | | | | | | | | | | | | | | | |
| The mark “ <input type="checkbox"/> ” means is not chosen for testing; | | | | | | | | | | | | | | | |
| The mark “--” means is not supported bandwidth. | | | | | | | | | | | | | | | |

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

| No. | Identity | Document Title |
|-----|--------------------|---|
| 1 | FCC 47 CFR Part 2 | Frequency allocations and radio treaty matters; general rules and regulations |
| 2 | FCC 47 CFR Part 90 | Private Land Mobile Radio Services |
| 3 | ANSI C63.26-2015 | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services |
| 5 | KDB 971168 D01 | KDB 971168 D01 Power Meas License Digital Systems v03r01 |

5.2 EFFECTIVE RADIATED POWER (ERP)

Test Requirement: FCC 47 CFR Part 2.1046 & FCC 47 CFR Part 90.542(a)(7)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

Test Procedure:

Test procedure as below:

- 1) The EUT was powered ON and placed on a 0.8/1.5m high table at a 3 meter semi/fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

$$\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBD)}$$

$$\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

$$\text{EIRP}=\text{ERP}+2.15\text{dB}$$

where:

Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel, the middle channel the Highest channel
- 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, and found the 错误!未找到引用源. positioning which it is worse case.
- 12) Repeat above procedures until all frequencies measured was complete.

| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
|-----------------|------------|----------|--------|--------|--------|
| | 30MHz-1GHz | Peak | 100kHz | 300kHz | Peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |

Test Setup: Refer to section 4.2.1 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

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Test Data:

See table below

| LTE Band 14 Maximum ERP (dBm) | | | | | |
|---------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 23.04 | 22.20 | / | 34.77 | Pass |
| Middle | 23.07 | 22.54 | / | 34.77 | Pass |
| Highest | 23.12 | 22.15 | / | 34.77 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Middle | 23.07 | 22.25 | / | 34.77 | Pass |



5.3 CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 2.1046

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

No Limit

Test Procedure:

The EUT was set up for the maximum power with CMW500, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: The full result refer to section 4.5 for details.

5.499%&26DB BANDWIDTH**Test Requirement:** FCC 47 CFR Part 2.1049**Test Method:** ANSI C63.26-2015 & KDB 971168 D01v03r01**Limit:** No Limit**Test Procedure:**

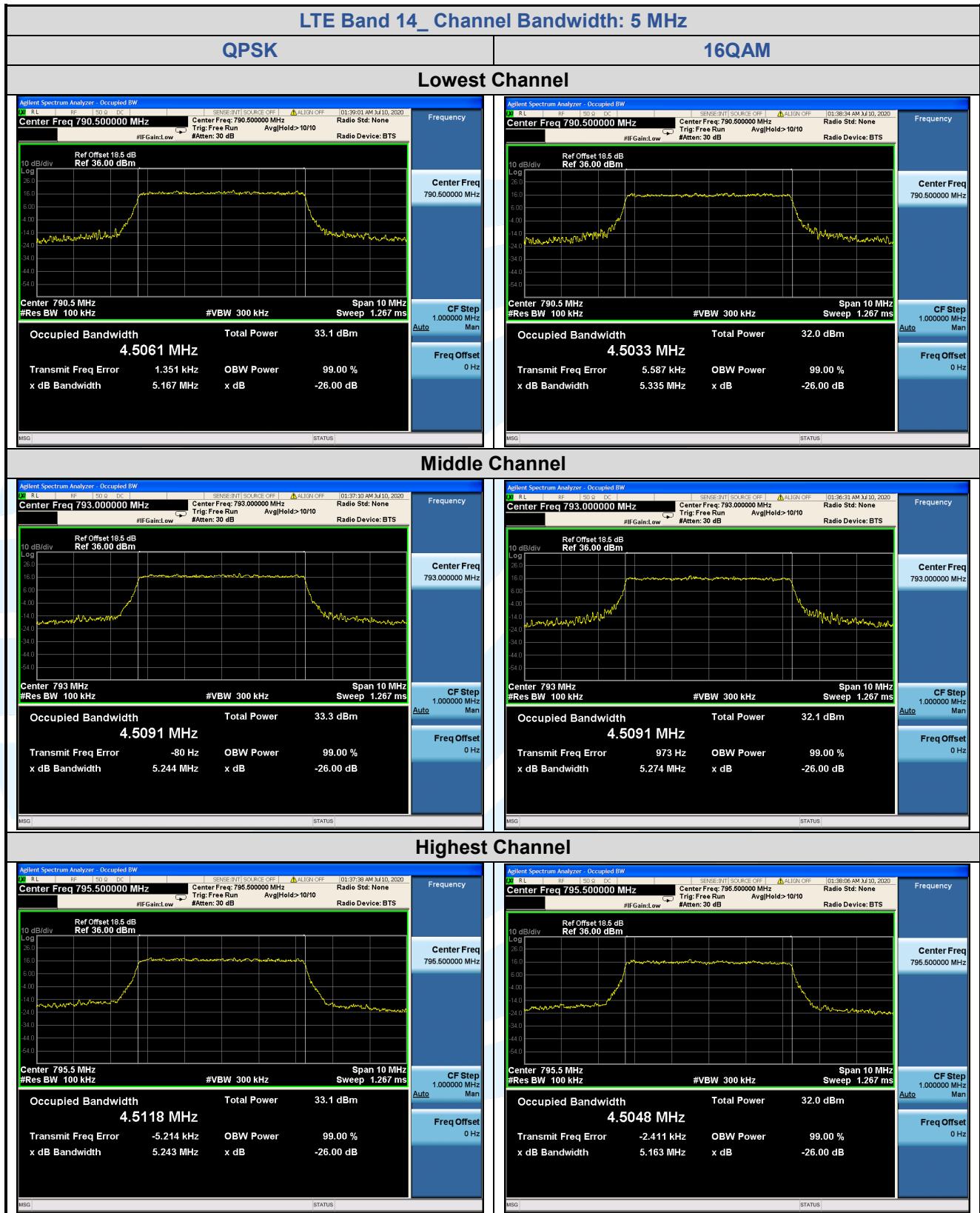
The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

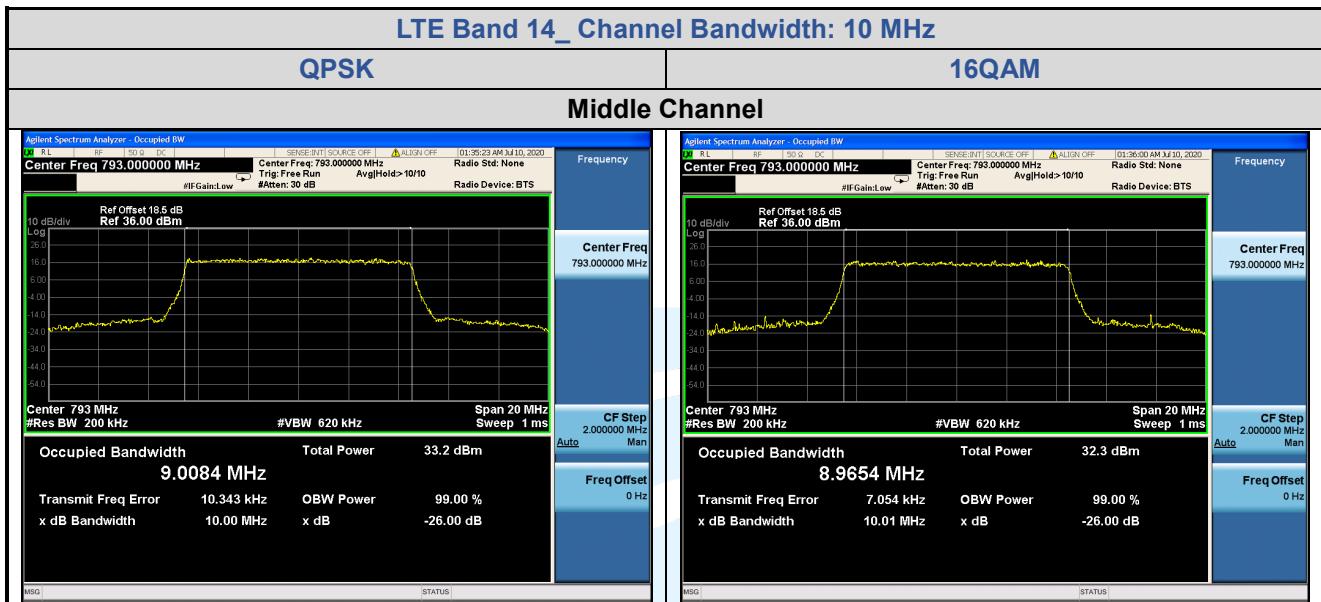
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.**Instruments Used:** Refer to section 3 for details**Test Mode:** Link mode**Test Results:** Pass

| LTE Band 14 | | | | | | | | |
|---------------------------|------------------|--------|----------------|-------|-------|--------------|--------|-------|
| Channel | RB Configuration | | 26 dB BW (MHz) | | | 99% BW (MHz) | | |
| | Size | Offset | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Channel Bandwidth: 5 MHz | | | | | | | | |
| Lowest | 25 | 0 | 5.167 | 5.335 | / | 4.5061 | 4.5033 | / |
| Middle | 25 | 0 | 5.244 | 5.274 | / | 4.5091 | 4.5091 | / |
| Highest | 25 | 0 | 5.243 | 5.163 | / | 4.5118 | 4.5048 | / |
| Channel Bandwidth: 10 MHz | | | | | | | | |
| Middle | 50 | 0 | 10.00 | 10.01 | / | 9.0084 | 8.9654 | / |

The test plot as follows:





5.5 EMISSION MASK

Test Requirement: FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the low or high channels.
- 2) Set the emissions mask of low or high channels.
- 3) Set resolution bandwidth to at least 1% of emission bandwidth and the VBW set 3 times of RBW.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

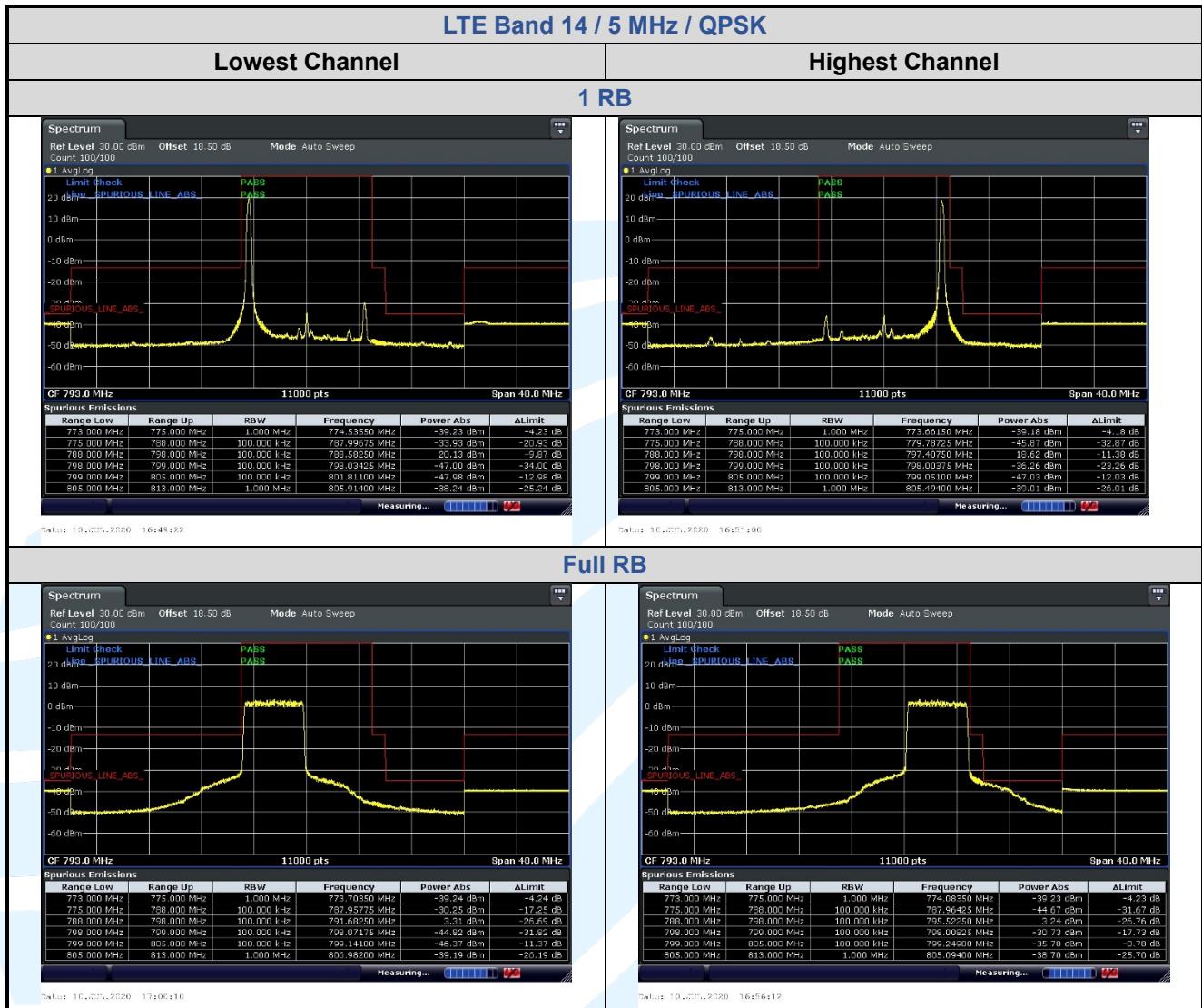
Test Setup: Refer to section 4.2.2 for details.

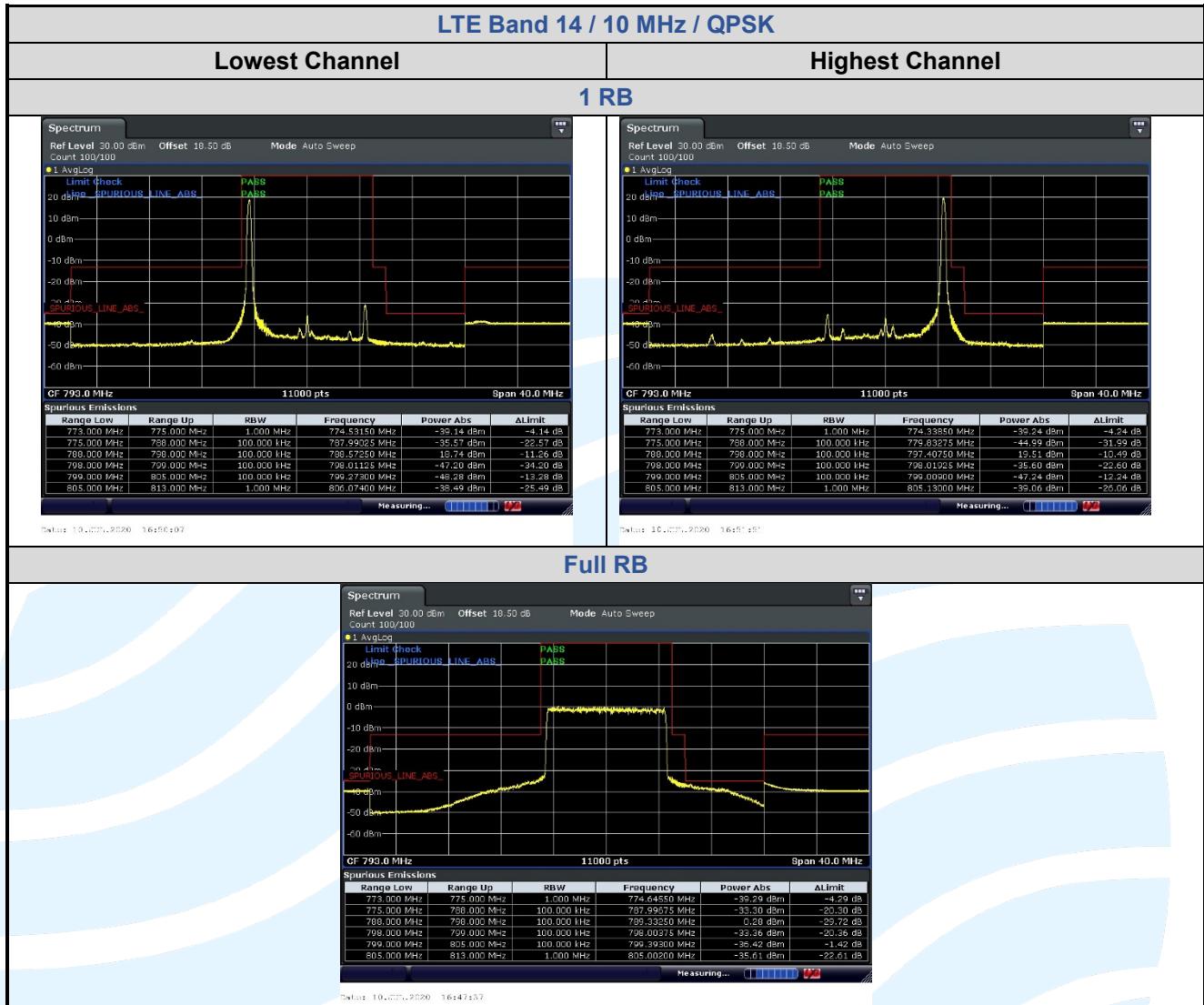
Instruments Used: Refer to section 3 for details

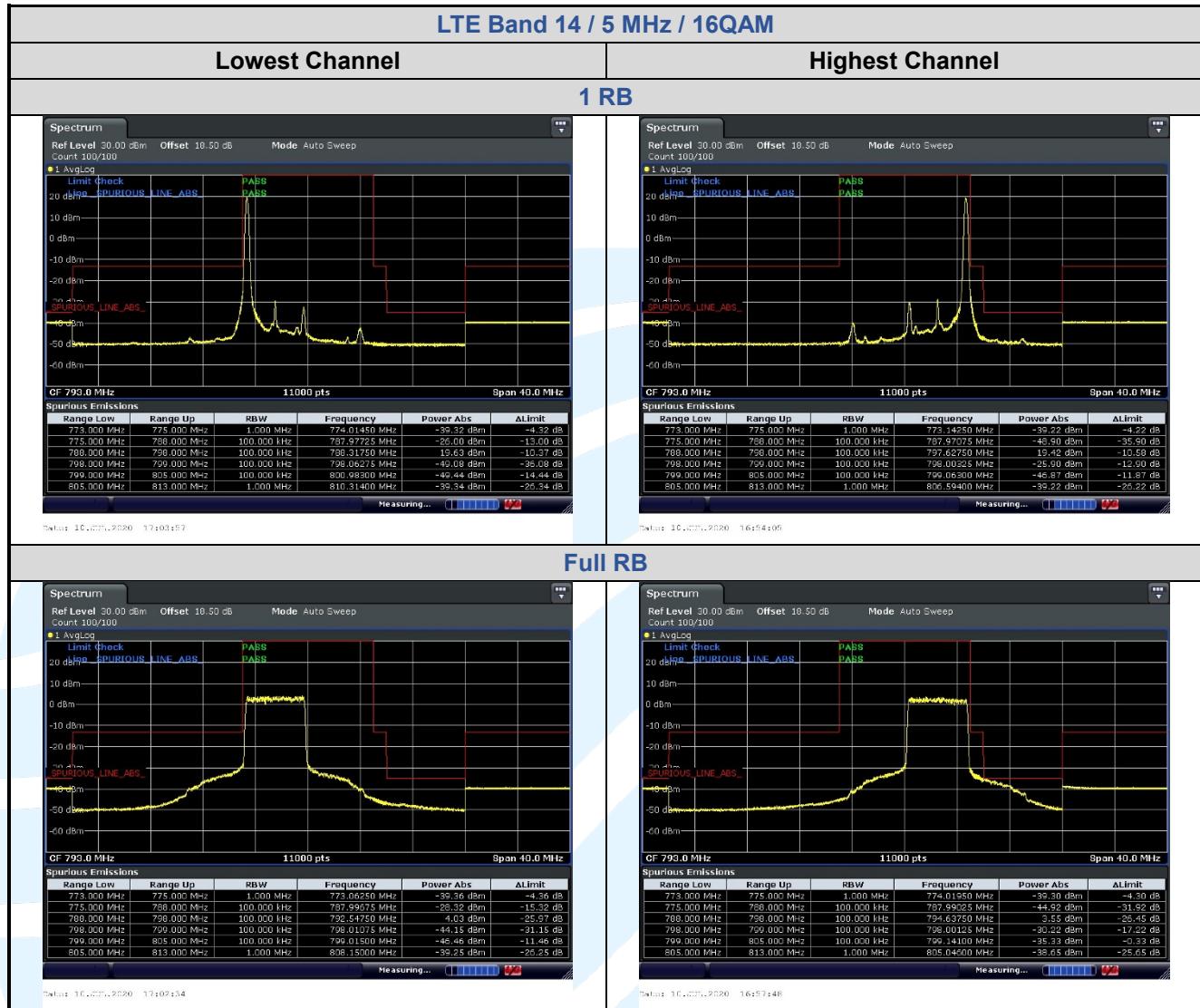
Test Mode: Link mode

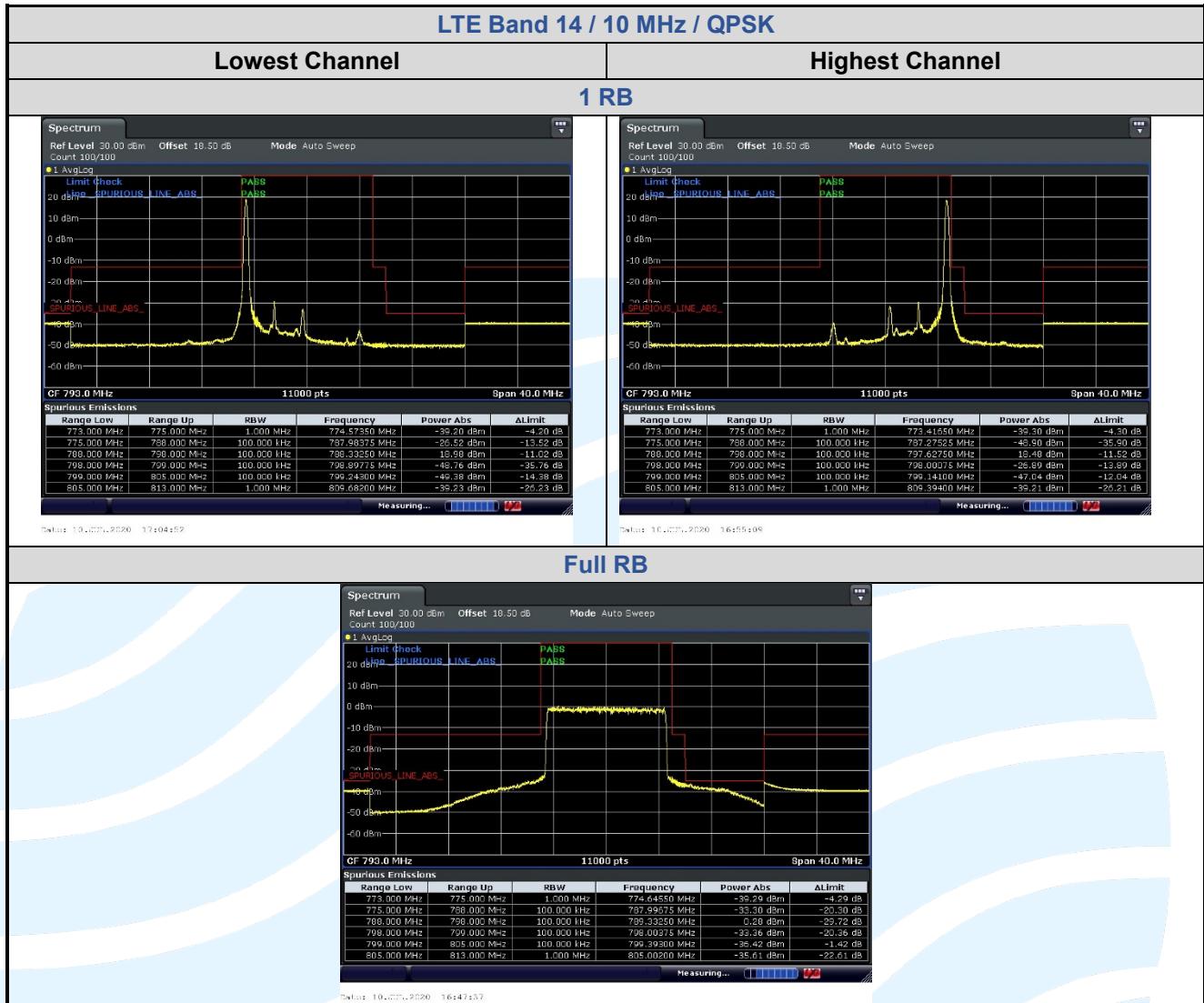
Test Results: Pass

The test plot as follows:









5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log(P)$ dB where transmitting power (P) in Watts.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

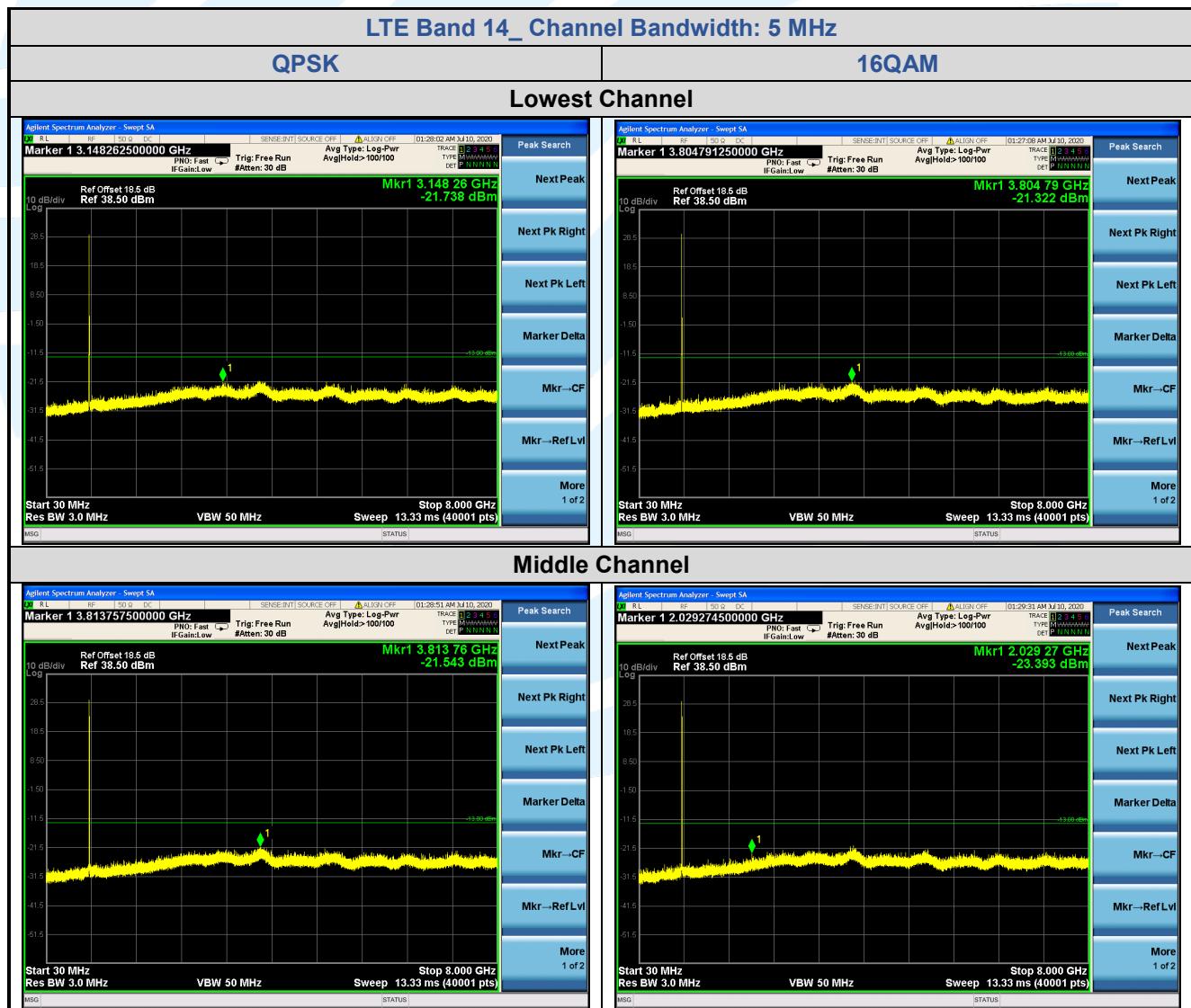
Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

The test plot as follows:



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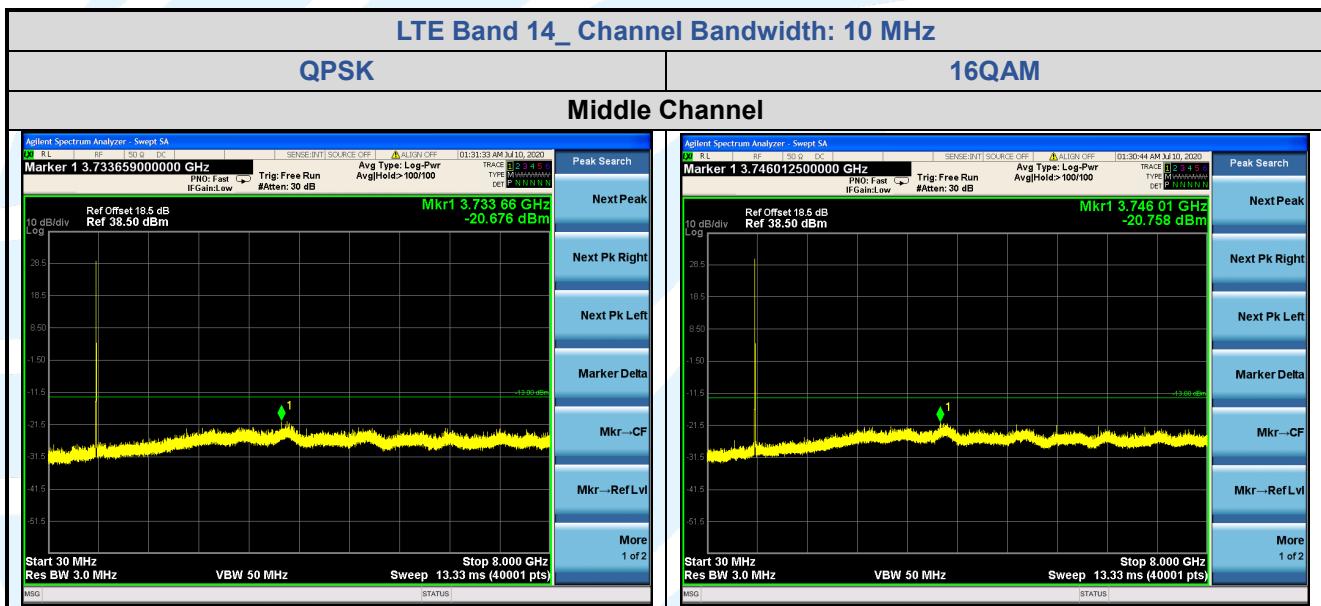
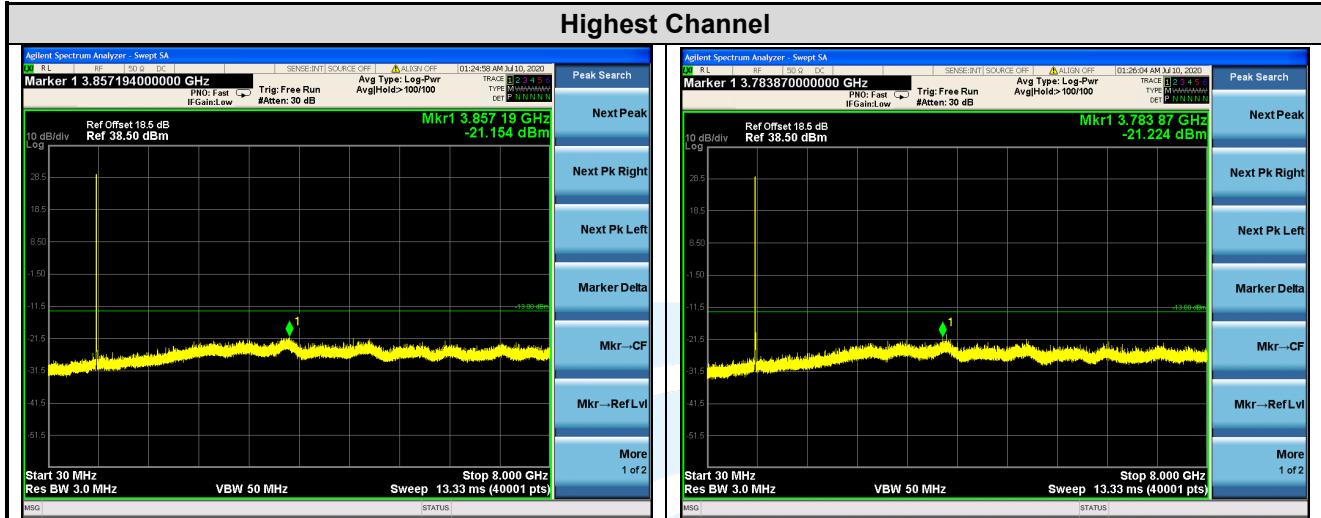
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5.7 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.543

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

(e) (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures:

1. Scan up to 10th harmonic, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a 0.8/1.5m high table at a 3 meter semi/fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

$$\begin{aligned} \text{ERP(dBm)} &= Pg(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBD)} \\ \text{EIRP(dBm)} &= Pg(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBi)} \\ \text{EIRP} &= \text{ERP} + 2.15\text{dB} \end{aligned}$$

where:

Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel, the middle channel the Highest channel
- 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, and found the Y positioning which it is worse case.

- 1) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

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| LTE Band 14 / 10 MHz / QPSK_ Middle Channel | | | | | | | |
|--|-----------------|---------------|--------------------------|--------------|-------------|-------------|------------|
| No. | Frequency (MHz) | Reading (dBm) | Correction factor (dB/m) | Result (dBm) | Limit (dBm) | Margin (dB) | Ant. Pol. |
| 1 | 32.640 | -87.40 | 31.14 | -56.26 | -13.00 | -43.26 | Horizontal |
| 2 | 274.446 | -88.85 | 30.02 | -58.83 | -13.00 | -45.83 | Horizontal |
| 3 | 979.139 | -86.51 | 43.58 | -42.93 | -13.00 | -29.93 | Horizontal |
| 4 | 1586.000 | -50.59 | 2.49 | -48.10 | -40.00 | -8.10 | Horizontal |
| 5 | 2379.000 | -59.13 | 11.04 | -48.09 | -13.00 | -35.09 | Horizontal |
| 6 | 30.425 | -92.09 | 32.56 | -59.53 | -13.00 | -46.53 | Vertical |
| 7 | 554.171 | -88.62 | 37.51 | -51.11 | -13.00 | -38.11 | Vertical |
| 8 | 979.139 | -86.39 | 42.70 | -43.69 | -13.00 | -30.69 | Vertical |
| 9 | 1586.000 | -50.44 | 2.62 | -47.82 | -40.00 | -7.82 | Vertical |
| 10 | 2379.000 | -66.42 | 10.84 | -55.58 | -13.00 | -42.58 | Vertical |

Remark:

- 1) All the above radiation data, the fundamental frequency is not marked, it may exceed the limit, please ignore it.

5.8 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055, FCC 47 CFR Part 90.539

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

1) Use CMW 500 with Frequency Error measurement capability.

a) Temp. = -30° to +50°C

b) Voltage = low voltage, 3.5 Vdc, Normal, 3.8 Vdc and High voltage, 4.2 Vdc.

2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

| Modulation | Channel/ Frequency (MHz) | Voltage | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Pass/ Fail |
|--------------------------------------|--------------------------------|---------|---------------------|-------------------|--------------------|----------------|------------|
| | | (Vdc) | | | | | |
| LTE Band 14 / 10MHz / Full RB | | | | | | | |
| QPSK | 23330 / 793 | VL | TN | -31 | -0.0391 | ± 1.25 | Pass |
| | | VN | | -24 | -0.0303 | ± 1.25 | Pass |
| | | VH | | -23 | -0.0290 | ± 1.25 | Pass |
| | | 50 | 50 | -28 | -0.0353 | ± 1.25 | Pass |
| | | 40 | 40 | -26 | -0.0328 | ± 1.25 | Pass |
| | | 30 | 30 | -28 | -0.0353 | ± 1.25 | Pass |
| | | 20 | 20 | -33 | -0.0416 | ± 1.25 | Pass |
| | | 10 | 10 | -31 | -0.0391 | ± 1.25 | Pass |
| | | 0 | 0 | -27 | -0.0340 | ± 1.25 | Pass |
| | | -10 | -10 | -26 | -0.0328 | ± 1.25 | Pass |
| | | -20 | -20 | -31 | -0.0391 | ± 1.25 | Pass |
| | | -30 | -30 | -33 | -0.0416 | ± 1.25 | Pass |

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Pass/ Fail | |
|--------------------------------------|-----------------------|---------|-------------|-----------|-----------|---------|------------|------|
| | (MHz) | (Vdc) | (°C) | (Hz) | (ppm) | (ppm) | | |
| LTE Band 14 / 10MHz / Full RB | | | | | | | | |
| QPSK | 23330 / 793 | VN | VL | TN | -29 | -0.0366 | ± 5 | Pass |
| | | | VN | | -23 | -0.0290 | ± 5 | Pass |
| | | | VH | | -21 | -0.0265 | ± 5 | Pass |
| | | | 50 | 24 | -0.0303 | ± 5 | Pass | |
| | | | 40 | -26 | -0.0328 | ± 5 | Pass | |
| | | | 30 | -28 | -0.0353 | ± 5 | Pass | |
| | | | 20 | -33 | -0.0416 | ± 5 | Pass | |
| | | | 10 | -31 | -0.0391 | ± 5 | Pass | |
| | | | 0 | -23 | -0.0290 | ± 5 | Pass | |
| | | | -10 | -26 | -0.0328 | ± 5 | Pass | |
| | | | -20 | -28 | -0.0353 | ± 5 | Pass | |
| | | | -30 | -27 | -0.0340 | ± 5 | Pass | |

5.9 PEAK-TO-AVERAGE RATIO

Test Method: KDB 971168 D01v03r01

Limit: In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

- a) Set resolution/measurement bandwidth \geq signal's occupied bandwidth
- b) Set the number of counts to a value that stabilizes the measured CCDF curve
- c) Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

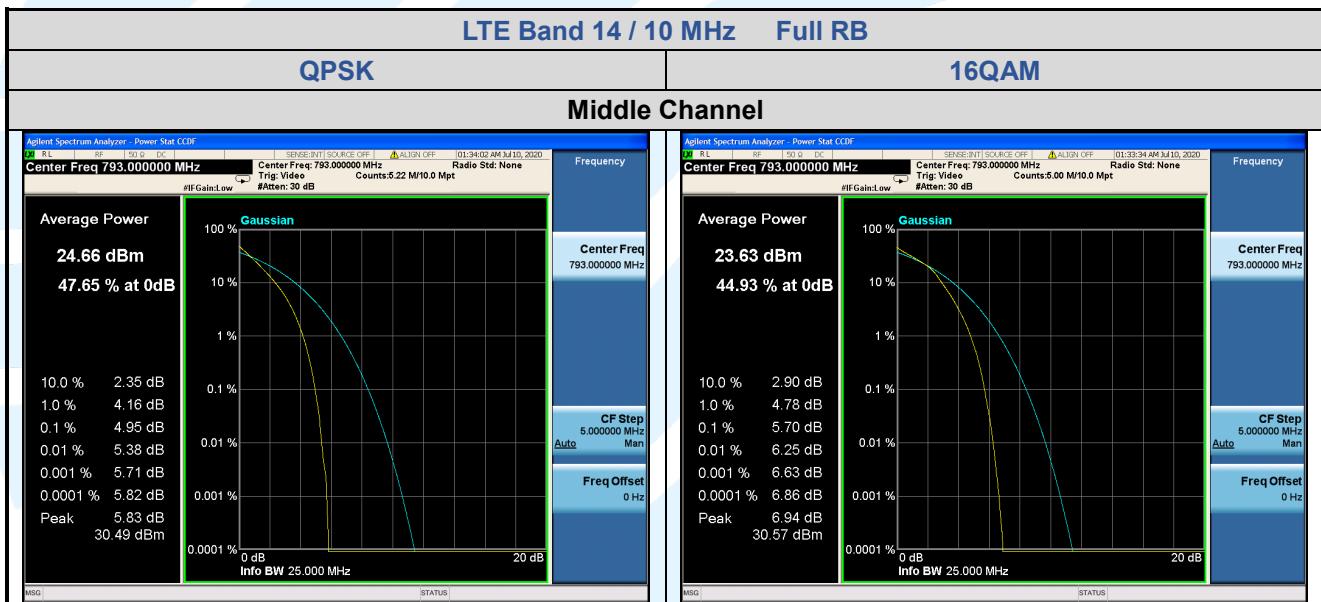
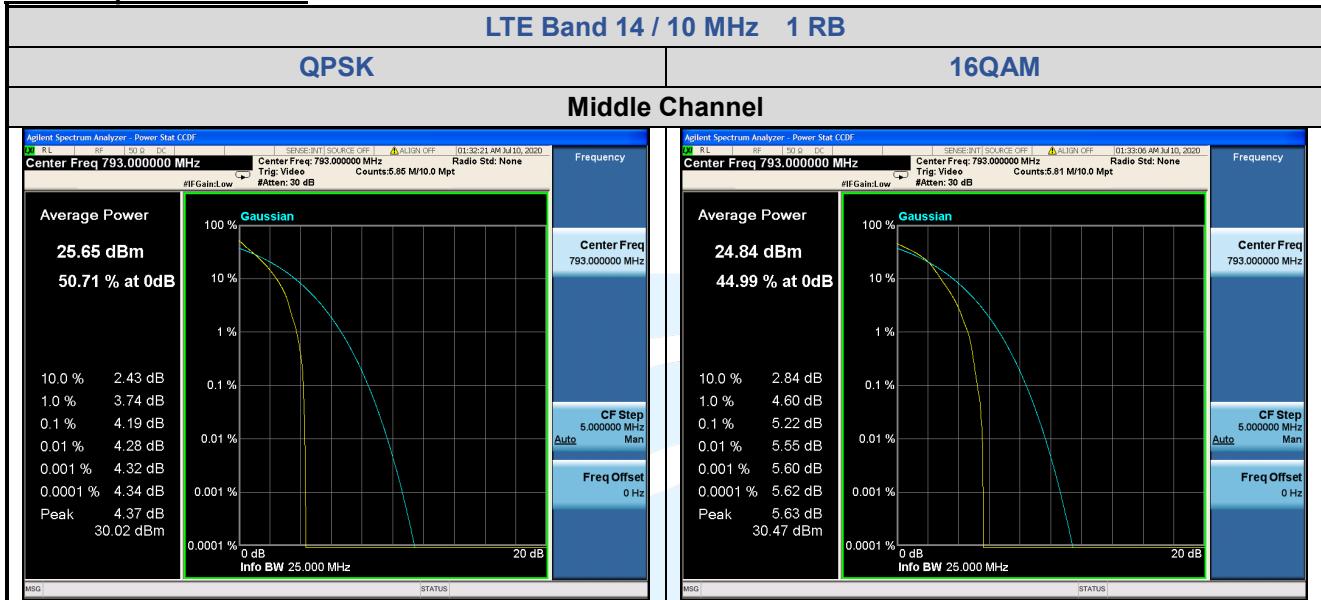
Test Mode: Link mode

Test Results: Pass

Test Data: See table below

| LTE Band 14 Peak-to-average ratio (dB) | | | | | | |
|--|------------------|---------------------------|-------|-------|------------|--------|
| Channel | RB Configuration | Channel Bandwidth: 10 MHz | | | Limit (dB) | Result |
| | | QPSK | 16QAM | 64QAM | | |
| Middle | 1 RB | 3.74 | 5.22 | / | 13 | Pass |
| Middle | Full RB | 4.95 | 5.70 | / | 13 | Pass |

The test plot as follows:



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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