



## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** Telit Communications S.p.A.  
Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste, Italy

**Manufacturer:** Telit Wireless Solutions. Co. Ltd.  
13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,  
Yeongdeungpo-gu, Seoul, 07330, South Korea

**Product Name:** 5G Radio Module

**Brand Name:** Telit Cinterion or

**Model No.:** FE910C04-WW

**Family Model No.:** FE910C04-WWD

**Model Difference:** FE910C04-WW and FE910C04-WWD are the same, except for that FE910C04-WWD is Data only module obtained by different SW configuration.

**Report Number:** TERF2503001152ER

**FCC ID** RI7FE910C04WW

**Date of EUT Received:** March 25, 2025

**Date of Test:** March 26, 2025~June 4, 2025

**Issue Date:** July 2, 2025

**Approved By**

**Jim Chang**

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 96.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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## Revision History

| Report Number    | Revision | Description         | Issue Date    | Revised By | Remark |
|------------------|----------|---------------------|---------------|------------|--------|
| TERF2503001152ER | 00       | Original            | June 19, 2025 | Susan Lin  |        |
| TERF2503001152ER | 01       | Update section 13.4 | July 2, 2025  | Susan Lin  | *      |
|                  |          |                     |               |            |        |
|                  |          |                     |               |            |        |
|                  |          |                     |               |            |        |
|                  |          |                     |               |            |        |
|                  |          |                     |               |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

|                                  |   |
|----------------------------------|---|
| Product Name:                    | 5G Radio Module   |
| Brand Name:                      | Telit Cinterion or                                 |
| Model No.:                       | FE910C04-WW   |
| Family Model No.:                | FE910C04-WWD  |
| Model Difference:                | FE910C04-WW and FE910C04-WWD are the same, except for that FE910C04-WWD is Data only module obtained by different SW configuration. |
| Hardware Version:                | 1.00  |
| Firmware Version:                | M0V.031001  |
| EUT Series No.:                  | 355781700005719, 355781700007690  |
| Power Supply:                    | 3.8Vdc  |
| Test Software<br>(Name/Version): | Connected with Callbox  |

### 1.2 Antenna Designation

| Antenna Type  | Antenna Model No. |
|---|-------------------|
| Monopole  | TG.55.8113        |
| <b>Note:</b> Transmission frequencies in this test report are only available by the above antenna(s). |                   |

| LTE Band    | Frequency (MHz) | Antenna Gain (dBi) | Insertion Loss (dB) | Final Gain (dBi) |
|-------------|-----------------|--------------------|---------------------|------------------|
| LTE Band 42 | 3400 ~ 3600     | 1.51               | 1.1                 | 0.41             |
| LTE Band 43 | 3600 ~ 3800     | 1.51               | 1.1                 | 0.41             |
| LTE Band 48 | 3550 ~ 3700     | 1.51               | 1.1                 | 0.41             |

| 5G NR Band | Frequency (MHz) | Antenna Gain (dBi) | Insertion Loss (dB) | Final Gain (dBi) |
|------------|-----------------|--------------------|---------------------|------------------|
| n48        | 3550 ~ 3700     | 1.51               | 1.1                 | 0.41             |

**Note:** The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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### 1.3 Operation Frequencies

| LTE Band 42 Part 96 |                           |   |        |
|---------------------|---------------------------|---|--------|
| BW (MHz)            | Operation Frequency (MHz) |   |        |
| 5                   | 3552.5                    | - | 3597.5 |
| 10                  | 3555.0                    | - | 3595.0 |
| 15                  | 35575.0                   | - | 3592.5 |
| 20                  | 3560.0                    | - | 3590.0 |

| LTE Band 43 Part 96 |                           |   |        |
|---------------------|---------------------------|---|--------|
| BW (MHz)            | Operation Frequency (MHz) |   |        |
| 5                   | 3602.5                    | - | 3697.5 |
| 10                  | 3605.0                    | - | 3695.0 |
| 15                  | 3607.5                    | - | 3692.5 |
| 20                  | 3610.0                    | - | 3690.0 |

| LTE Band 48 |                           |   |        |
|-------------|---------------------------|---|--------|
| BW (MHz)    | Operation Frequency (MHz) |   |        |
| 5           | 3552.5                    | - | 3697.5 |
| 10          | 3555.0                    | - | 3695.0 |
| 15          | 3557.5                    | - | 3692.5 |
| 20          | 3560.0                    | - | 3690.0 |

| NR Band 48 |                           |   |        |
|------------|---------------------------|---|--------|
| BW (MHz)   | Operation Frequency (MHz) |   |        |
| 10         | 3555.0                    | - | 3695.0 |
| 15         | 3557.5                    | - | 3692.5 |
| 20         | 3560.0                    | - | 3690.0 |

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## 1.4 Maximum ERP/EIRP

| LTE Band | BW | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%     | Type of Emission |
|----------|----|-----------|--------|------------|------------------|------|-------|---------|------------------|
| 48       | 5  | 3552.5    | 3697.5 | QPSK       | 21.80            | EIRP | 0.151 | 4.4996  | 4M50G7D          |
|          |    |           |        | 16QAM      | 21.11            | EIRP | 0.129 | 4.4912  | 4M49D7W          |
|          |    |           |        | 64QAM      | 19.92            | EIRP | 0.098 | 4.4933  | 4M49D7W          |
|          |    |           |        | 256QAM     | 16.69            | EIRP | 0.047 | 4.4983  | 4M50D7W          |
| 48       | 10 | 3555.0    | 3695.0 | QPSK       | 21.86            | EIRP | 0.153 | 8.9872  | 8M99G7D          |
|          |    |           |        | 16QAM      | 21.15            | EIRP | 0.130 | 8.9973  | 9M00D7W          |
|          |    |           |        | 64QAM      | 19.95            | EIRP | 0.099 | 8.9685  | 8M97D7W          |
|          |    |           |        | 256QAM     | 16.71            | EIRP | 0.047 | 8.9918  | 8M99D7W          |
| 48       | 15 | 3557.5    | 3692.5 | QPSK       | 21.95            | EIRP | 0.157 | 13.4590 | 13M5G7D          |
|          |    |           |        | 16QAM      | 21.13            | EIRP | 0.130 | 13.4430 | 13M4D7W          |
|          |    |           |        | 64QAM      | 20.06            | EIRP | 0.101 | 13.4630 | 13M5D7W          |
|          |    |           |        | 256QAM     | 16.74            | EIRP | 0.047 | 13.4420 | 13M4D7W          |
| 48       | 20 | 3560.0    | 3690.0 | QPSK       | 21.99            | EIRP | 0.158 | 17.9240 | 17M9G7D          |
|          |    |           |        | 16QAM      | 21.16            | EIRP | 0.131 | 17.9310 | 17M9D7W          |
|          |    |           |        | 64QAM      | 20.07            | EIRP | 0.102 | 17.9310 | 17M9D7W          |
|          |    |           |        | 256QAM     | 16.64            | EIRP | 0.046 | 17.9060 | 17M9D7W          |

## with 10MHz

| LTE Band | BW | Frequency |        | Modulation | ERP / EIRP (dBm/10MHz) |      | (W)   | 99%     | Type of Emission |
|----------|----|-----------|--------|------------|------------------------|------|-------|---------|------------------|
| 48       | 5  | 3552.5    | 3697.5 | QPSK       | 21.80                  | EIRP | 0.151 | 4.4996  | 4M50G7D          |
|          |    |           |        | 16QAM      | 21.11                  | EIRP | 0.129 | 4.4912  | 4M49D7W          |
|          |    |           |        | 64QAM      | 19.92                  | EIRP | 0.098 | 4.4933  | 4M49D7W          |
|          |    |           |        | 256QAM     | 16.69                  | EIRP | 0.047 | 4.4983  | 4M50D7W          |
| 48       | 10 | 3555.0    | 3695.0 | QPSK       | 21.86                  | EIRP | 0.153 | 8.9872  | 8M99G7D          |
|          |    |           |        | 16QAM      | 21.15                  | EIRP | 0.130 | 8.9973  | 9M00D7W          |
|          |    |           |        | 64QAM      | 19.95                  | EIRP | 0.099 | 8.9685  | 8M97D7W          |
|          |    |           |        | 256QAM     | 16.71                  | EIRP | 0.047 | 8.9918  | 8M99D7W          |
| 48       | 15 | 3557.5    | 3692.5 | QPSK       | 20.19                  | EIRP | 0.104 | 13.4590 | 13M5G7D          |
|          |    |           |        | 16QAM      | 19.37                  | EIRP | 0.086 | 13.4430 | 13M4D7W          |
|          |    |           |        | 64QAM      | 18.30                  | EIRP | 0.068 | 13.4630 | 13M5D7W          |
|          |    |           |        | 256QAM     | 14.98                  | EIRP | 0.031 | 13.4420 | 13M4D7W          |
| 48       | 20 | 3560.0    | 3690.0 | QPSK       | 18.98                  | EIRP | 0.079 | 17.9240 | 17M9G7D          |
|          |    |           |        | 16QAM      | 18.15                  | EIRP | 0.065 | 17.9310 | 17M9D7W          |
|          |    |           |        | 64QAM      | 17.06                  | EIRP | 0.051 | 17.9310 | 17M9D7W          |
|          |    |           |        | 256QAM     | 13.63                  | EIRP | 0.023 | 17.9060 | 17M9D7W          |

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5G NR Band n48\_Part96\_Uplink frequency band : 3550 to 3700 MHz

| Bandwidth (MHz) | Low Frequency (MHz) | Upper Frequency (MHz) | Modulation      | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (MHz) | 99% BW (kHz) | Type of Emission |
|-----------------|---------------------|-----------------------|-----------------|-------------------------|--------------------|------------------|--------------|--------------|------------------|
| 10              | 3555                | 3694.98               | DFT-s PI/2 BPSK | 22.53                   | 22.94              | 0.197            | 8.6427       | 8642.7       | 8M64G7W          |
|                 |                     |                       | DFT-s QPSK      | 22.49                   | 22.90              | 0.195            | 8.6305       | 8630.5       | 8M63G7W          |
|                 |                     |                       | DFT-s QAM       | 21.41                   | 21.82              | 0.152            | 8.6386       | 8638.6       | 8M64D7W          |
|                 |                     |                       | CP QPSK         | 20.94                   | 21.35              | 0.136            | 8.6305       | 8630.5       | 8M63G7W          |
|                 |                     |                       | CP QAM          | 20.29                   | 20.70              | 0.117            | 8.6386       | 8638.6       | 8M64D7W          |
| 15              | 3557.52             | 3692.49               | DFT-s PI/2 BPSK | 22.44                   | 22.85              | 0.193            | 12.937       | 12937.0      | 12M9G7W          |
|                 |                     |                       | DFT-s QPSK      | 22.34                   | 22.75              | 0.188            | 12.93        | 12930.0      | 12M9G7W          |
|                 |                     |                       | DFT-s QAM       | 21.43                   | 21.84              | 0.153            | 12.986       | 12986.0      | 13M0D7W          |
|                 |                     |                       | CP QPSK         | 20.89                   | 21.30              | 0.135            | 12.93        | 12930.0      | 12M9G7W          |
|                 |                     |                       | CP QAM          | 20.24                   | 20.65              | 0.116            | 12.986       | 12986.0      | 13M0D7W          |
| 20              | 3560.01             | 3690                  | DFT-s PI/2 BPSK | 22.54                   | 22.95              | 0.197            | 17.914       | 17914.0      | 17M9G7W          |
|                 |                     |                       | DFT-s QPSK      | 22.34                   | 22.75              | 0.188            | 17.977       | 17977.0      | 18M0G7W          |
|                 |                     |                       | DFT-s QAM       | 21.47                   | 21.88              | 0.154            | 18.025       | 18025.0      | 18M0D7W          |
|                 |                     |                       | CP QPSK         | 20.94                   | 21.35              | 0.136            | 17.977       | 17977.0      | 18M0G7W          |
|                 |                     |                       | CP QAM          | 20.47                   | 20.88              | 0.122            | 18.025       | 18025.0      | 18M0D7W          |

with 10MHz

5G NR Band n48\_Part96\_Uplink frequency band : 3550 to 3700 MHz

| Bandwidth (MHz) | Low Frequency (MHz) | Upper Frequency (MHz) | Modulation      | Conducted Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | EIRP Average (W) | 99% BW (MHz) | 99% BW (kHz) | Type of Emission |
|-----------------|---------------------|-----------------------|-----------------|-------------------------------|--------------------------|------------------|--------------|--------------|------------------|
| 10              | 3555                | 3694.98               | DFT-s PI/2 BPSK | 22.53                         | 22.94                    | 0.197            | 8.6427       | 8642.7       | 8M64G7W          |
|                 |                     |                       | DFT-s QPSK      | 22.49                         | 22.90                    | 0.195            | 8.6305       | 8630.5       | 8M63G7W          |
|                 |                     |                       | DFT-s QAM       | 21.41                         | 21.82                    | 0.152            | 8.6386       | 8638.6       | 8M64D7W          |
|                 |                     |                       | CP QPSK         | 20.94                         | 21.35                    | 0.136            | 8.6305       | 8630.5       | 8M63G7W          |
|                 |                     |                       | CP QAM          | 20.29                         | 20.70                    | 0.117            | 8.6386       | 8638.6       | 8M64D7W          |
| 15              | 3557.52             | 3692.49               | DFT-s PI/2 BPSK | 20.68                         | 21.09                    | 0.129            | 12.937       | 12937.0      | 12M9G7W          |
|                 |                     |                       | DFT-s QPSK      | 20.58                         | 20.99                    | 0.126            | 12.93        | 12930.0      | 12M9G7W          |
|                 |                     |                       | DFT-s QAM       | 19.67                         | 20.08                    | 0.102            | 12.986       | 12986.0      | 13M0D7W          |
|                 |                     |                       | CP QPSK         | 19.13                         | 19.54                    | 0.090            | 12.93        | 12930.0      | 12M9G7W          |
|                 |                     |                       | CP QAM          | 18.48                         | 18.89                    | 0.077            | 12.986       | 12986.0      | 13M0D7W          |
| 20              | 3560.01             | 3690                  | DFT-s PI/2 BPSK | 19.53                         | 19.94                    | 0.099            | 17.914       | 17914.0      | 17M9G7W          |
|                 |                     |                       | DFT-s QPSK      | 19.33                         | 19.74                    | 0.094            | 17.977       | 17977.0      | 18M0G7W          |
|                 |                     |                       | DFT-s QAM       | 18.46                         | 18.87                    | 0.077            | 18.025       | 18025.0      | 18M0D7W          |
|                 |                     |                       | CP QPSK         | 17.93                         | 18.34                    | 0.068            | 17.977       | 17977.0      | 18M0G7W          |
|                 |                     |                       | CP QAM          | 17.46                         | 17.87                    | 0.061            | 18.025       | 18025.0      | 18M0D7W          |

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## 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, Part 96E

ANSI C63.26-2015

ANSI/ITA C603-E.2016

KDB 971168 D01 Power Meas license Digital System v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

KDB 412172 D01 Determining ERP and EIRP V01r01

## 1.6 Test Facility

| Laboratory  | Test Site Address   | Test Site Name   | FCC Designation number | IC CAB identifier |
|---|---|--|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1<br>SAC 2<br>SAC 3<br>Conduction 1<br>Conducted 1<br>Conducted 2<br>Conducted 3<br>Conducted 4<br>Conducted 5<br>Conducted 6                | TW0027                 |                   |
|   | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C<br>SAC C<br>SAC D<br>SAC G<br>Conducted A<br>Conducted B<br>Conducted C<br>Conducted D<br>Conducted E<br>Conducted F<br>Conducted G | TW0028                 | TW3702            |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

## 1.7 Special Accessories

No special accessories were used during testing.

## 1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

## 1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*9m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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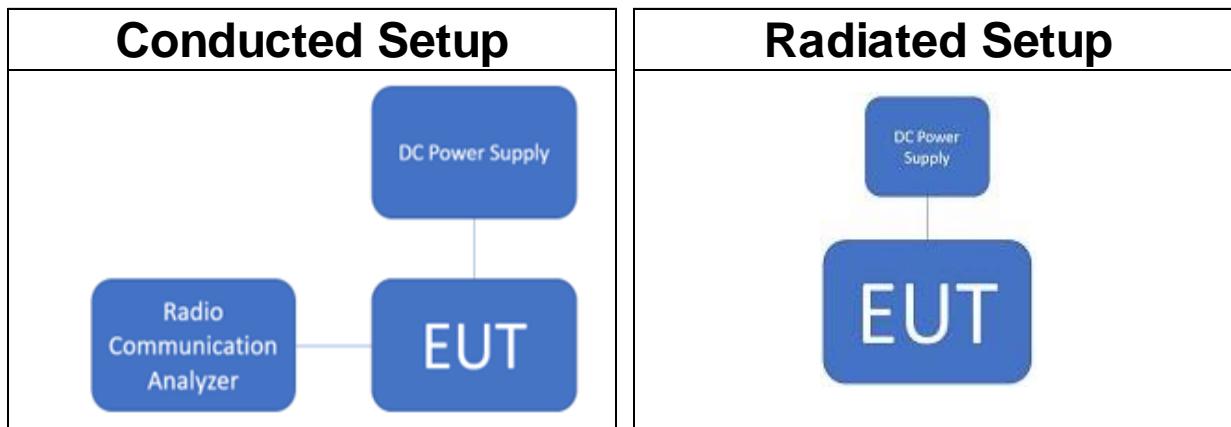
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## 2.5 Final Amplifier Voltage and Current Information:

| LTE Band 48          |                |                 |
|----------------------|----------------|-----------------|
| Test Mode            | DC voltage (V) | DC current (mA) |
| LTE Band 48_20M QPSK | 3.8            | 320             |

| 5G NR BAND n48 Part96      |                |                 |
|----------------------------|----------------|-----------------|
| CP-OFDM_SCS 30 kHz         |                |                 |
| Test mode                  | DC voltage (V) | DC current (mA) |
| Bandwidth:10MHz Mod:256QAM | 3.8            | 167             |
| Bandwidth:15MHz Mod:256QAM | 3.8            | 171             |
| Bandwidth:20MHz Mod:256QAM | 3.8            | 165             |

## 2.6 Test Configuration



**Note:** Radio Communication Analyzer is placed in remote side for radiated test.

## 2.7 Control Unit(s)

N/A

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules               | Description Of Test                     | Result    |
|-------------------------|---|-----------|
| §2.1046(a)<br>§96.41(b) | Maximum Power Output                    | Compliant |
| §2.1046,<br>§96.41(b)   | Maximum Power Density                   | Compliant |
| §2.1053,<br>§96.41(e)   | Field Strength Of Spurious<br>Radiation | Compliant |
| §2.1051<br>§96.41(e)    | Out Of Band Emission At<br>Antenna      | Compliant |
| §2.1049,(h)             | Occupied Bandwidth                      | Compliant |
| §2.1055(a)              | Frequency Stability                     | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

### 4.2 Measurement Configuration

#### LTE

| Test Items |              |   | Max. Output Power   |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
|------------|--------------|---|---------------------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--|
| Band       | Test Channel |   |                     | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |  |
|            | L            | M | H                   | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |  |
| 48         | v            | v | v                   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    |  |
| Test Items |              |   | Frequency Stability |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
| 48         | -            | v | -                   | -               | - | - | v  | -  | -  | v          | -     | -     | -      | -    | -    | v    |  |

| Test Items |              |   | 26dB and 99% Bandwidth |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
|------------|--------------|---|------------------------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--|
| Band       | Test Channel |   |                        | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |  |
|            | L            | M | H                      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |  |
| 48         | v            | v | v                      | -               | - | v | v  | v  | v  | v          | v     | v     | v      | -    | -    | v    |  |
| Test Items |              |   | Peak-to-Average Ratio  |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
| 48         | v            | v | v                      | -               | - | v | v  | v  | v  | -          | -     | -     | v      | -    | -    | v    |  |

| Test Items |              |   | Band Edge          |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
|------------|--------------|---|--------------------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--|
| Band       | Test Channel |   |                    | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |  |
|            | L            | M | H                  | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |  |
| 48         | v            | - | v                  | -               | - | v | v  | v  | v  | v          | -     | -     | -      | v    | -    | v    |  |
| Test Items |              |   | Conducted Emission |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
| 48         | v            | v | v                  | -               | - | - | -  | -  | v  | v          | -     | -     | -      | v    | -    | -    |  |

| Test Items |              |   | Radiated Emission |                 |   |   |    |    |    |            |       |       |        |      |      |      |  |
|------------|--------------|---|-------------------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--|
| Band       | Test Channel |   |                   | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |  |
|            | L            | M | H                 | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |  |
| 48         | v            | v | v                 | -               | - |   |    |    | v  | v          |       |       |        | v    |      |      |  |

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| Test Items          | Band        | Test Channel |   |   | Bandwidth (MHz) |    |    |    |    |    |    |    |    |    |    |    | Modulation DFT-s-OFDM |     |      |      | Modulation CP-OFDM |        |         |      | RB #   |        |         |               |                |                |                 |            |            |  |  |
|---------------------|-------------|--------------|---|---|-----------------|----|----|----|----|----|----|----|----|----|----|----|-----------------------|-----|------|------|--------------------|--------|---------|------|--------|--------|---------|---------------|----------------|----------------|-----------------|------------|------------|--|--|
|                     |             | L            | M | H | 5               | 10 | 15 | 20 | 25 | 30 | 40 | 45 | 50 | 60 | 70 | 80 | 90                    | 100 | BPSK | QPSK | 16 QAM             | 64 QAM | 256 QAM | OPSK | 16 QAM | 64 QAM | 256 QAM | Edge 1RB_Left | Edge 1RB_Right | Inner 1RB_Left | Inner 1RB_Right | Inner Full | Outer Full |  |  |
| Conducted Power     | 48 (part96) | v            | v | v |                 | v  | v  | v  |    |    |    |    |    |    |    |    |                       |     | v    | v    | v                  | v      | v       | v    | v      | v      | v       | v             | v              | v              | v               |            |            |  |  |
| Frequency Stability |             |              | v |   |                 |    |    | v  |    |    |    |    |    |    |    |    |                       |     |      | v    |                    |        |         |      |        |        |         |               |                | v              |                 | v          |            |  |  |
| Occupied Bandwidth  |             | v            | v | v |                 | v  | v  | v  |    |    |    |    |    |    |    |    |                       |     | v    | v    | v                  | v      | v       |      |        |        |         |               |                | v              |                 | v          |            |  |  |
| Bandedge            |             | v            |   | v |                 | v  | v  | v  |    |    |    |    |    |    |    |    |                       |     | v    |      |                    |        | v       |      |        |        | v       | v             |                |                | v               |            | v          |  |  |
| Mask                |             |              |   |   |                 |    |    |    |    |    |    |    |    |    |    |    |                       |     |      |      |                    |        |         |      |        |        |         |               |                |                |                 |            |            |  |  |
| Conducted Emission  |             | v            | v | v |                 | v  | v  | v  |    |    |    |    |    |    |    |    |                       |     | v    |      |                    |        |         |      |        |        |         |               | v              |                |                 |            |            |  |  |
| CCDF                |             | v            | v | v |                 | v  | v  | v  |    |    |    |    |    |    |    |    |                       |     |      | v    |                    |        |         |      |        |        |         |               |                |                |                 | v          |            |  |  |
| Radiated Emission   |             | v            | v | v |                 |    | v  |    |    |    |    |    |    |    |    |    |                       |     | v    |      |                    |        |         |      |        |        |         |               |                | v              |                 |            |            |  |  |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items   | Uncertainty |
|--|-------------|
| Power Density  | +/- 0.61 dB |
| Output Power measurement                                 | +/- 0.97 dB |
| ERP/ EIRP measurement                                    | +/- 2.16 dB |
|  | +/- 2.16 dB |
| Emission Bandwidth                                       | +/- 1.38 Hz |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 0.77 dB |
| Peak to Average Ratio                                    | +/- 0.97 dB |
| Frequency Stability vs. Temperature                      | +/- 1.48 Hz |
| Frequency Stability vs. Voltage                          | +/- 1.48 Hz |
| Temperature  | +/- 0.6 °C  |
| Humidity   | +/- 3 %     |
| DC / AC Power Source                                     | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |             |                 |
|--|-------------|-----------------|
| Polarization: Vertical                             | +/- 1.89 dB | 9kHz~30MHz      |
|  | +/- 4.1 dB  | 30MHz - 1000MHz |
|  | +/- 3.37 dB | 1GHz - 18GHz    |
|  | +/- 3.83 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- 1.89 dB | 9kHz~30MHz      |
|  | +/- 4.1 dB  | 30MHz - 1000MHz |
|  | +/- 3.37 dB | 1GHz - 18GHz    |
|  | +/- 3.83 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- 2 dB    | 33GHz-50GHz     |
|  | +/- 1.59 dB | 50GHz-60GHz     |
|  | +/- 1.71 dB | 60GHz-90GHz     |
|  | +/- 1.64 dB | 90GHz-140GHz    |
|  | +/- 3.84 dB | 140GHz-220GHz   |

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

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Conducted Measurement

#### LTE

| Conducted Emission Test Site: Conducted 3 |               |                     |                |                           |                          |
|---|---------------|---------------------|----------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER        | SERIAL NUMBER  | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Attenuator                                | Mini-Circuits | BW-S10W2+           | 12             | 12/11/2024                | 12/10/2025               |
| DC Block                                  | Mini-Circuits | BLK-18-S+           | 12             | 12/11/2024                | 12/10/2025               |
| DC Power Supply                           | Gwinstek      | SPS-3610            | GEV856761      | 09/13/2024                | 09/12/2025               |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B              | MY60240503     | 12/16/2024                | 12/15/2025               |
| PXA Spectrum Analyzer                     | Agilent       | N9030A              | MY53120760     | 04/25/2025                | 04/24/2026               |
| Radio Communication Analyzer              | Anritsu       | MT8821C             | 6262044751     | 11/04/2024                | 11/03/2025               |
| Splitter                                  | RF-Lambda     | RFLT2W1G18G         | 11-JSPF412-017 | 12/11/2024                | 12/10/2025               |
| Temperature Chamber                       | Giant Force   | GTH-150-40-CP-AR    | MAA0512-018    | 06/05/2024                | 06/04/2025               |
| Test Software                             | SGS           | Radio Test Software | Ver. 21        | N.C.R                     | N.C.R                    |

#### NR

| Conducted Emission Test Site: Conducted 3 |               |                     |                |                           |                          |
|---|---------------|---------------------|----------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER        | SERIAL NUMBER  | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Attenuator                                | Mini-Circuits | BW-S10W2+           | 12             | 12/11/2024                | 12/10/2025               |
| DC Block                                  | Mini-Circuits | BLK-18-S+           | 12             | 12/11/2024                | 12/10/2025               |
| DC Power Supply                           | Gwinstek      | SPS-3610            | GEV856761      | 09/13/2024                | 09/12/2025               |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B              | MY60240503     | 12/16/2024                | 12/15/2025               |
| PXA Spectrum Analyzer                     | Agilent       | N9030A              | MY53120760     | 04/25/2025                | 04/24/2026               |
| PXA Spectrum Analyzer                     | Keysight      | N9030B              | MY61330494     | 04/16/2025                | 04/15/2026               |
| Radio Communication Analyzer              | KEYSIGHT      | E7515B              | MY59321566     | 02/12/2025                | 02/11/2026               |
| Splitter                                  | RF-Lambda     | RFLT2W1G18G         | 11-JSPF412-017 | 12/11/2024                | 12/10/2025               |
| Temperature Chamber                       | Giant Force   | GTH-150-40-CP-AR    | MAA0512-018    | 06/05/2024                | 06/04/2025               |
| Test Software                             | SGS           | Radio Test Software | Ver. 21        | N.C.R                     | N.C.R                    |

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## 6.2 Radiated Measurement

### LTE

| Radiated Emission Test Site: SAC 1 |              |                                     |  |                           |                          |
|------------------------------------|--------------|-------------------------------------|--|---------------------------|--------------------------|
| EQUIPMENT TYPE                     | MFR          | MODEL NUMBER                        | SERIAL NUMBER                            | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| 1.3G High Pass Filter              | Woken        | WHKX10-1066                         | 19                                       | 12/11/2024                | 12/10/2025               |
| Band Reject Filter 635-920         | Titan        | T04N63592050S01                     | 23040703-4                               | 12/11/2024                | 12/10/2025               |
| Bi-log Antenna                     | SCHWARZBECK  | VULB9168                            | 1208                                     | 07/17/2024                | 07/16/2025               |
| Bi-log Antenna                     | TESEO        | CBL 6112D                           | 35242 & AT-N0555                         | 12/09/2024                | 12/08/2025               |
| Coaxial Cable                      | EMCI         | EMC104-SM-SM-8000+EMC106-SM-SM-7600 | RX Cable 9K-18G(160125+150817)           | 08/30/2024                | 08/29/2025               |
| Coaxial Cables                     | Huber Suhner | SUCOFLEX 102                        | RX Cable 18G-40G MY2630/2+805062/2       | 08/30/2024                | 08/29/2025               |
| Coaxial Cables                     | Huber Suhner | SUCOFLEX 102+SUCOFLEX 106           | TX Cable 30M-40G 23051/2+76096/6+22962/2 | 08/30/2024                | 08/29/2025               |
| DC Power Supply                    | HILA         | DP-3003N                            | 11233K1019035                            | 03/24/2025                | 03/23/2026               |
| EXA Spectrum Analyzer              | KEYSIGHT     | N9010B                              | MY60242081                               | 10/23/2024                | 10/22/2025               |
| Horn Antenna                       | RF SPIN      | DRH0844                             | LE2D05A0844                              | 07/10/2024                | 07/09/2025               |
| Horn Antenna                       | SCHWARZBECK  | BBHA9120D                           | 603                                      | 05/20/2025                | 05/19/2026               |
| Horn Antenna                       | SCHWARZBECK  | BBHA9120D                           | D803                                     | 01/09/2025                | 01/08/2026               |
| Horn Antenna                       | SCHWARZBECK  | BBHA9170                            | 184                                      | 12/20/2024                | 12/19/2025               |
| Network Analyzer                   | Anritsu      | MS4644A                             | 1216312                                  | 12/25/2024                | 12/24/2025               |
| Pre-Amplifier                      | EMCI         | EMC118A45SEE                        | 980933                                   | 08/30/2024                | 08/29/2025               |
| Pre-Amplifier                      | EMCI         | EMC184045SEE                        | 9080939                                  | 08/30/2024                | 08/29/2025               |
| Pre-Amplifier                      | HP           | 8447D                               | 2944A09469                               | 08/30/2024                | 08/29/2025               |
| Radio Communication Analyzer       | Anritsu      | MT8821C                             | 6261786084                               | 12/31/2024                | 12/30/2025               |
| Site Cal                           | SGS          | SAC 1                               | N/A                                      | 08/30/2024                | 08/29/2025               |
| Test Software                      | Audix        | e3                                  | Ver. 9.210616                            | N.C.R                     | N.C.R                    |

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NR

| Radiated Emission Test Site: SAC 2 |              |   |   |                        |                       |
|------------------------------------|--------------|---|---|------------------------|-----------------------|
| EQUIPMENT TYPE                     | MFR          | MODEL NUMBER  | SERIAL NUMBER                                 | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| 4G High Pass Filter                | WI           | WHKX4.0   | 23  | 12/11/2024             | 12/10/2025            |
| 6G High Pass Filter                | WI           | WHKX6.0   | 54  | 12/11/2024             | 12/10/2025            |
| Band Reject Filter 2240-2700       | Titan        | T04N2240270050S01   | 23040703-12                                   | 12/11/2024             | 12/10/2025            |
| Band Reject Filter 3300-3900       | WI           | WRCGV3400/3800-3300/3900-40/12SS  | 1   | 12/11/2024             | 12/10/2025            |
| Bi-log Antenna                     | SCHWARZBECK  | VULB9168  | 1208  | 07/17/2024             | 07/16/2025            |
| Bi-log Antenna                     | SCHWARZBECK  | VULB9168  | 9168-1278                                     | 03/10/2025             | 03/09/2026            |
| Coaxial Cables                     | EMCI         | EMC104-SM-SM-600<br>+EMC105-SM-SM-2000<br>+EMC105-SM-SM-1500<br>+EMC105-SM-SM-10000 | RX Cable 9K-18G (220237+220909+220906+240801) | 08/30/2024             | 08/29/2025            |
| Coaxial Cables                     | Huber Suhner | SUCOFLEX 102  | RX Cable 18G-40G MY2630/2+805062/2            | 08/30/2024             | 08/29/2025            |
| Coaxial Cables                     | Huber Suhner | SUCOFLEX 102+SUCOFLEX 106   | TX Cable 30M-40G 23051/2+76096/6+22962/2      | 08/30/2024             | 08/29/2025            |
| DC Power Supply                    | HILA         | DP-3003N  | 11233K1019035                                 | 03/24/2025             | 03/23/2026            |
| EXA Spectrum Analyzer              | KEYSIGHT     | N9010B  | MY60242392                                    | 12/24/2024             | 12/23/2025            |
| Horn Antenna                       | SCHWARZBECK  | BBHA9120D   | 603   | 05/20/2025             | 05/19/2026            |
| Horn Antenna                       | RF SPIN      | DRH0844   | LE2D05A0844                                   | 07/10/2024             | 07/09/2025            |
| Horn Antenna                       | RF SPIN      | DRH18-E   | 210303A18-ES                                  | 02/20/2025             | 02/19/2026            |
| Horn Antenna                       | SCHWARZBECK  | BBHA9170  | 184   | 12/20/2024             | 12/19/2025            |
| Network Analyzer                   | Anritsu      | MS4644A   | 1216312                                       | 12/25/2024             | 12/24/2025            |
| Pre-Amplifier                      | EMCI         | EMC118A45SEE  | 980867  | 08/30/2024             | 08/29/2025            |
| Pre-Amplifier                      | EMCI         | EMC184045SEE  | 9080939                                       | 08/30/2024             | 08/29/2025            |
| Pre-Amplifier                      | EMCI         | EMC330N   | 980826  | 08/30/2024             | 08/29/2025            |
| Radio Communication Analyzer       | KEYSIGHT     | E7515B  | MY59321561                                    | 07/11/2024             | 07/10/2025            |
| Site Cal                           | SGS          | SAC 2   | N/A   | 08/30/2024             | 08/29/2025            |
| Test Software                      | Audix        | e3  | Ver. 9.210616                                 | N.C.R                  | N.C.R                 |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 MAXIMUM OUTPUT POWER MEASUREMENT

### 7.1 Standard Applicable

FCC §2.1046 & 96.41

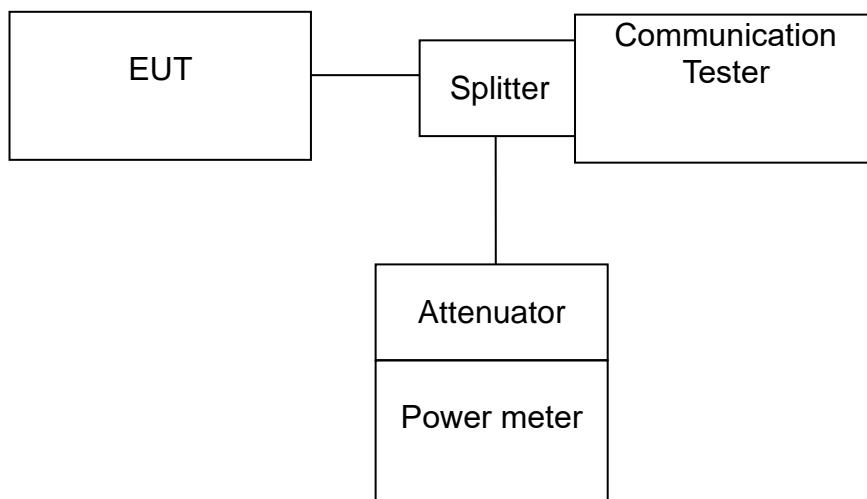
(a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.

(b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

| Device                       | Maximum EIRP (dBm/10 MHz) |
|------------------------------|---------------------------|
| End User Device              | 23                        |
| Category A CBSD              | 30                        |
| Category B CBSD <sup>1</sup> | 47                        |

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

### 7.2 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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### 7.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

#### Determining ERP and/or EIRP from conducted RF output power measurements

$$\text{ERP/EIRP} = \text{PMes} + \text{GT-LC}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMes, typically dBW or dBm);

PMes = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB. 2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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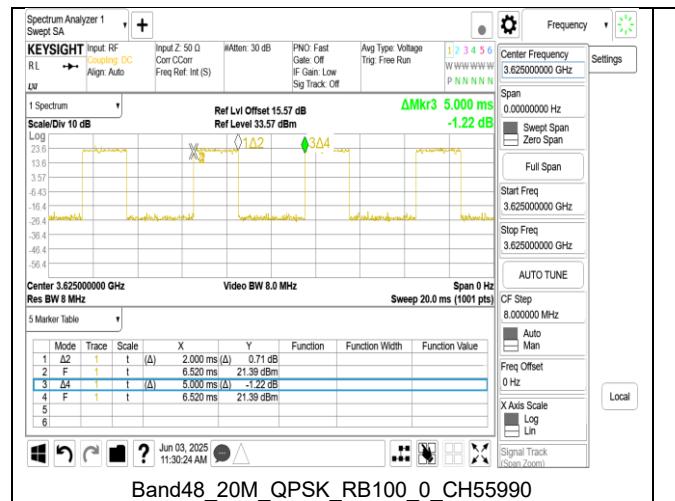
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## 7.4 Measurement Result:

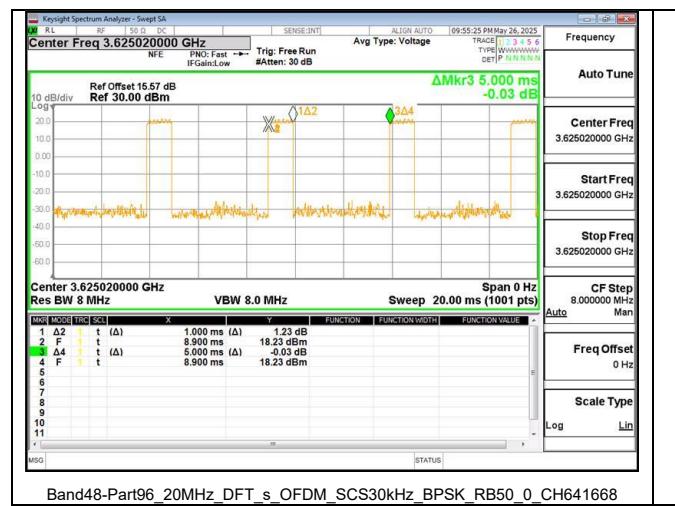
### LTE

| Mode                       | Duty Cycle (%)<br>=Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) |
|----------------------------|-------------------------------------|--|
| (TDD)LTE_Band48_20MHz_QPSK | 40.00                               | 3.98   |



### NR

| Mode        | Duty Cycle (%)<br>=Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) |
|-------------|-------------------------------------|--|
| (TDD)NR_n48 | 20.00                               | 6.99   |



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| Antenna gain (dBi) |            | LTE Band 48_Uplink frequency band : 3550 to 3700 MHz |            |         |           |                         |                    |
|--------------------|------------|--|------------|---------|-----------|-------------------------|--------------------|
| BW (MHz)           | UL Channel | Frequency (MHz)                                      | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) |
| 5                  | 55265      | 3552.5   | QPSK       | 1       | 0         | 21.39                   | 21.80              |
|                    |            |  |            | 1       | 24        | 21.38                   | 21.79              |
|                    |            |  |            | 12      | 6         | 20.45                   | 20.86              |
|                    |            |  |            | 25      | 0         | 20.43                   | 20.84              |
|                    | 55990      | 3625   | QPSK       | 1       | 0         | 21.26                   | 21.67              |
|                    |            |  |            | 1       | 24        | 21.21                   | 21.62              |
|                    |            |  |            | 12      | 6         | 20.27                   | 20.68              |
|                    |            |  |            | 25      | 0         | 20.25                   | 20.66              |
|                    | 56715      | 3697.5   | QPSK       | 1       | 0         | 21.36                   | 21.77              |
|                    |            |  |            | 1       | 24        | 21.37                   | 21.78              |
|                    |            |  |            | 12      | 6         | 20.34                   | 20.75              |
|                    |            |  |            | 25      | 0         | 20.36                   | 20.77              |
| 5                  | 55265      | 3552.5   | 16QAM      | 1       | 0         | 20.70                   | 21.11              |
|                    |            |  |            | 1       | 24        | 20.67                   | 21.08              |
|                    |            |  |            | 12      | 6         | 19.49                   | 19.90              |
|                    |            |  |            | 25      | 0         | 19.45                   | 19.86              |
|                    | 55990      | 3625   | 16QAM      | 1       | 0         | 20.39                   | 20.80              |
|                    |            |  |            | 1       | 24        | 20.39                   | 20.80              |
|                    |            |  |            | 12      | 6         | 19.30                   | 19.71              |
|                    |            |  |            | 25      | 0         | 19.30                   | 19.71              |
|                    | 56715      | 3697.5   | 16QAM      | 1       | 0         | 20.57                   | 20.98              |
|                    |            |  |            | 1       | 24        | 20.68                   | 21.09              |
|                    |            |  |            | 12      | 6         | 19.38                   | 19.79              |
|                    |            |  |            | 25      | 0         | 19.37                   | 19.78              |
| 5                  | 55265      | 3552.5   | 64QAM      | 1       | 0         | 19.51                   | 19.92              |
|                    |            |  |            | 1       | 24        | 19.49                   | 19.90              |
|                    |            |  |            | 12      | 6         | 18.46                   | 18.87              |
|                    |            |  |            | 25      | 0         | 18.47                   | 18.88              |
|                    | 55990      | 3625   | 64QAM      | 1       | 0         | 19.39                   | 19.80              |
|                    |            |  |            | 1       | 24        | 19.36                   | 19.77              |
|                    |            |  |            | 12      | 6         | 18.25                   | 18.66              |
|                    |            |  |            | 25      | 0         | 18.32                   | 18.73              |
|                    | 56715      | 3697.5   | 64QAM      | 1       | 0         | 19.38                   | 19.79              |
|                    |            |  |            | 1       | 24        | 19.36                   | 19.77              |
|                    |            |  |            | 12      | 6         | 18.40                   | 18.81              |
|                    |            |  |            | 25      | 0         | 18.40                   | 18.81              |
| 5                  | 55265      | 3552.5   | 256QAM     | 1       | 0         | 16.28                   | 16.69              |
|                    |            |  |            | 1       | 24        | 16.26                   | 16.67              |
|                    |            |  |            | 12      | 6         | 16.22                   | 16.63              |
|                    |            |  |            | 25      | 0         | 16.19                   | 16.60              |
|                    | 55990      | 3625   | 256QAM     | 1       | 0         | 16.13                   | 16.54              |
|                    |            |  |            | 1       | 24        | 16.12                   | 16.53              |
|                    |            |  |            | 12      | 6         | 16.12                   | 16.53              |
|                    |            |  |            | 25      | 0         | 16.04                   | 16.45              |
|                    | 56715      | 3697.5   | 256QAM     | 1       | 0         | 16.21                   | 16.62              |
|                    |            |  |            | 1       | 24        | 16.22                   | 16.63              |
|                    |            |  |            | 12      | 6         | 16.17                   | 16.58              |
|                    |            |  |            | 25      | 0         | 16.14                   | 16.55              |

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| Antenna gain (dBi)  | 0.41       |                 |            |         |           |                         |                    |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|
| <b>LTE Band 48_Uplink frequency band : 3550 to 3700 MHz</b> |            |                 |            |         |           |                         |                    |
| BW (MHz)  | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) |
| 10  | 55290      | 3555            | QPSK       | 1       | 0         | 21.45                   | <b>21.86</b>       |
|   |            |                 |            | 1       | 49        | 21.44                   | 21.85              |
|   |            |                 |            | 25      | 12        | 20.36                   | 20.77              |
|   |            |                 |            | 50      | 0         | 20.45                   | 20.86              |
|   | 55990      | 3625            | QPSK       | 1       | 0         | 21.27                   | 21.68              |
|   |            |                 |            | 1       | 49        | 21.20                   | 21.61              |
|   |            |                 |            | 25      | 12        | 20.17                   | 20.58              |
|   |            |                 |            | 50      | 0         | 20.25                   | 20.66              |
|   | 56690      | 3695            | QPSK       | 1       | 0         | 21.24                   | 21.65              |
|   |            |                 |            | 1       | 49        | 21.33                   | 21.74              |
|   |            |                 |            | 25      | 12        | 20.32                   | 20.73              |
|   |            |                 |            | 50      | 0         | 20.39                   | 20.80              |
| 10  | 55290      | 3555            | 16QAM      | 1       | 0         | 20.74                   | <b>21.15</b>       |
|   |            |                 |            | 1       | 49        | 20.58                   | 20.99              |
|   |            |                 |            | 25      | 12        | 19.33                   | 19.74              |
|   |            |                 |            | 50      | 0         | 19.42                   | 19.83              |
|   | 55990      | 3625            | 16QAM      | 1       | 0         | 20.57                   | 20.98              |
|   |            |                 |            | 1       | 49        | 20.49                   | 20.90              |
|   |            |                 |            | 25      | 12        | 19.17                   | 19.58              |
|   |            |                 |            | 50      | 0         | 19.28                   | 19.69              |
|   | 56690      | 3695            | 16QAM      | 1       | 0         | 20.50                   | 20.91              |
|   |            |                 |            | 1       | 49        | 20.70                   | 21.11              |
|   |            |                 |            | 25      | 12        | 19.30                   | 19.71              |
|   |            |                 |            | 50      | 0         | 19.43                   | 19.84              |
| 10  | 55290      | 3555            | 64QAM      | 1       | 0         | 19.54                   | <b>19.95</b>       |
|   |            |                 |            | 1       | 49        | 19.48                   | 19.89              |
|   |            |                 |            | 25      | 12        | 18.39                   | 18.80              |
|   |            |                 |            | 50      | 0         | 18.44                   | 18.85              |
|   | 55990      | 3625            | 64QAM      | 1       | 0         | 19.49                   | 19.90              |
|   |            |                 |            | 1       | 49        | 19.50                   | 19.91              |
|   |            |                 |            | 25      | 12        | 18.15                   | 18.56              |
|   |            |                 |            | 50      | 0         | 18.24                   | 18.65              |
|   | 56690      | 3695            | 64QAM      | 1       | 0         | 19.49                   | 19.90              |
|   |            |                 |            | 1       | 49        | 19.53                   | 19.94              |
|   |            |                 |            | 25      | 12        | 18.29                   | 18.70              |
|   |            |                 |            | 50      | 0         | 18.37                   | 18.78              |
| 10  | 55290      | 3555            | 256QAM     | 1       | 0         | 16.30                   | <b>16.71</b>       |
|   |            |                 |            | 1       | 49        | 16.23                   | 16.64              |
|   |            |                 |            | 25      | 12        | 16.23                   | 16.64              |
|   |            |                 |            | 50      | 0         | 16.18                   | 16.59              |
|   | 55990      | 3625            | 256QAM     | 1       | 0         | 16.18                   | 16.59              |
|   |            |                 |            | 1       | 49        | 16.19                   | 16.60              |
|   |            |                 |            | 25      | 12        | 16.14                   | 16.55              |
|   |            |                 |            | 50      | 0         | 16.10                   | 16.51              |
|   | 56690      | 3695            | 256QAM     | 1       | 0         | 16.15                   | 16.56              |
|   |            |                 |            | 1       | 49        | 16.27                   | 16.68              |
|   |            |                 |            | 25      | 12        | 16.23                   | 16.64              |
|   |            |                 |            | 50      | 0         | 16.14                   | 16.55              |

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| Antenna gain (dBi)  | 0.41       |                 |            |         |           |                         |                    |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|
| <b>LTE Band 48_Uplink frequency band : 3550 to 3700 MHz</b> |            |                 |            |         |           |                         |                    |
| BW (MHz)  | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) |
| 15  | 55315      | 3557.5          | QPSK       | 1       | 0         | 21.54                   | <b>21.95</b>       |
|   |            |                 |            | 1       | 74        | 21.52                   | 21.93              |
|   |            |                 |            | 36      | 18        | 20.31                   | 20.72              |
|   |            |                 |            | 75      | 0         | 20.41                   | 20.82              |
|   | 55990      | 3625            | QPSK       | 1       | 0         | 21.40                   | 21.81              |
|   |            |                 |            | 1       | 74        | 21.31                   | 21.72              |
|   |            |                 |            | 36      | 18        | 20.08                   | 20.49              |
|   |            |                 |            | 75      | 0         | 20.23                   | 20.64              |
|   | 56665      | 3692.5          | QPSK       | 1       | 0         | 21.35                   | 21.76              |
|   |            |                 |            | 1       | 74        | 21.45                   | 21.86              |
|   |            |                 |            | 36      | 18        | 20.17                   | 20.58              |
|   |            |                 |            | 75      | 0         | 20.30                   | 20.71              |
| 15  | 55315      | 3557.5          | 16QAM      | 1       | 0         | 20.72                   | <b>21.13</b>       |
|   |            |                 |            | 1       | 74        | 20.65                   | 21.06              |
|   |            |                 |            | 36      | 18        | 19.30                   | 19.71              |
|   |            |                 |            | 75      | 0         | 19.42                   | 19.83              |
|   | 55990      | 3625            | 16QAM      | 1       | 0         | 20.44                   | 20.85              |
|   |            |                 |            | 1       | 74        | 20.30                   | 20.71              |
|   |            |                 |            | 36      | 18        | 19.19                   | 19.60              |
|   |            |                 |            | 75      | 0         | 19.26                   | 19.67              |
|   | 56665      | 3692.5          | 16QAM      | 1       | 0         | 20.64                   | 21.05              |
|   |            |                 |            | 1       | 74        | 20.65                   | 21.06              |
|   |            |                 |            | 36      | 18        | 19.10                   | 19.51              |
|   |            |                 |            | 75      | 0         | 19.30                   | 19.71              |
| 15  | 55315      | 3557.5          | 64QAM      | 1       | 0         | 19.65                   | <b>20.06</b>       |
|   |            |                 |            | 1       | 74        | 19.53                   | 19.94              |
|   |            |                 |            | 36      | 18        | 18.23                   | 18.64              |
|   |            |                 |            | 75      | 0         | 18.42                   | 18.83              |
|   | 55990      | 3625            | 64QAM      | 1       | 0         | 19.47                   | 19.88              |
|   |            |                 |            | 1       | 74        | 19.49                   | 19.90              |
|   |            |                 |            | 36      | 18        | 18.16                   | 18.57              |
|   |            |                 |            | 75      | 0         | 18.23                   | 18.64              |
|   | 56665      | 3692.5          | 64QAM      | 1       | 0         | 19.39                   | 19.80              |
|   |            |                 |            | 1       | 74        | 19.45                   | 19.86              |
|   |            |                 |            | 36      | 18        | 18.18                   | 18.59              |
|   |            |                 |            | 75      | 0         | 18.29                   | 18.70              |
| 15  | 55315      | 3557.5          | 256QAM     | 1       | 0         | 16.33                   | <b>16.74</b>       |
|   |            |                 |            | 1       | 74        | 16.15                   | 16.56              |
|   |            |                 |            | 36      | 18        | 16.18                   | 16.59              |
|   |            |                 |            | 75      | 0         | 16.22                   | 16.63              |
|   | 55990      | 3625            | 256QAM     | 1       | 0         | 16.16                   | 16.57              |
|   |            |                 |            | 1       | 74        | 16.10                   | 16.51              |
|   |            |                 |            | 36      | 18        | 16.10                   | 16.51              |
|   |            |                 |            | 75      | 0         | 16.10                   | 16.51              |
|   | 56665      | 3692.5          | 256QAM     | 1       | 0         | 16.16                   | 16.57              |
|   |            |                 |            | 1       | 74        | 16.13                   | 16.54              |
|   |            |                 |            | 36      | 18        | 16.10                   | 16.51              |
|   |            |                 |            | 75      | 0         | 16.10                   | 16.51              |

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| Antenna gain (dBi)  | 0.41       |                 |            |         |           |                         |                    |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|
| <b>LTE Band 48_Uplink frequency band : 3550 to 3700 MHz</b> |            |                 |            |         |           |                         |                    |
| BW (MHz)  | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) |
| 20  | 55340      | 3560            | QPSK       | 1       | 0         | 21.58                   | <b>21.99</b>       |
|   |            |                 |            | 1       | 99        | 21.56                   | 21.97              |
|   |            |                 |            | 50      | 25        | 20.48                   | 20.89              |
|   |            |                 |            | 100     | 0         | 20.38                   | 20.79              |
|   | 55990      | 3625            | QPSK       | 1       | 0         | 21.39                   | 21.80              |
|   |            |                 |            | 1       | 99        | 21.32                   | 21.73              |
|   |            |                 |            | 50      | 25        | 20.29                   | 20.70              |
|   |            |                 |            | 100     | 0         | 20.23                   | 20.64              |
|   | 56640      | 3690            | QPSK       | 1       | 0         | 21.42                   | 21.83              |
|   |            |                 |            | 1       | 99        | 21.53                   | 21.94              |
|   |            |                 |            | 50      | 25        | 20.35                   | 20.76              |
|   |            |                 |            | 100     | 0         | 20.26                   | 20.67              |
| 20  | 55340      | 3560            | 16QAM      | 1       | 0         | 20.75                   | <b>21.16</b>       |
|   |            |                 |            | 1       | 99        | 20.59                   | 21.00              |
|   |            |                 |            | 50      | 25        | 19.50                   | 19.91              |
|   |            |                 |            | 100     | 0         | 19.43                   | 19.84              |
|   | 55990      | 3625            | 16QAM      | 1       | 0         | 20.44                   | 20.85              |
|   |            |                 |            | 1       | 99        | 20.39                   | 20.80              |
|   |            |                 |            | 50      | 25        | 19.31                   | 19.72              |
|   |            |                 |            | 100     | 0         | 19.20                   | 19.61              |
|   | 56640      | 3690            | 16QAM      | 1       | 0         | 20.58                   | 20.99              |
|   |            |                 |            | 1       | 99        | 20.72                   | 21.13              |
|   |            |                 |            | 50      | 25        | 19.38                   | 19.79              |
|   |            |                 |            | 100     | 0         | 19.27                   | 19.68              |
| 20  | 55340      | 3560            | 64QAM      | 1       | 0         | 19.56                   | 19.97              |
|   |            |                 |            | 1       | 99        | 19.57                   | 19.98              |
|   |            |                 |            | 50      | 25        | 18.53                   | 18.94              |
|   |            |                 |            | 100     | 0         | 18.34                   | 18.75              |
|   | 55990      | 3625            | 64QAM      | 1       | 0         | 19.45                   | 19.86              |
|   |            |                 |            | 1       | 99        | 19.31                   | 19.72              |
|   |            |                 |            | 50      | 25        | 18.32                   | 18.73              |
|   |            |                 |            | 100     | 0         | 18.20                   | 18.61              |
|   | 56640      | 3690            | 64QAM      | 1       | 0         | 19.66                   | <b>20.07</b>       |
|   |            |                 |            | 1       | 99        | 19.58                   | 19.99              |
|   |            |                 |            | 50      | 25        | 18.33                   | 18.74              |
|   |            |                 |            | 100     | 0         | 18.21                   | 18.62              |
| 20  | 55340      | 3560            | 256QAM     | 1       | 0         | 16.23                   | <b>16.64</b>       |
|   |            |                 |            | 1       | 99        | 16.12                   | 16.53              |
|   |            |                 |            | 50      | 25        | 16.12                   | 16.53              |
|   |            |                 |            | 100     | 0         | 16.19                   | 16.60              |
|   | 55990      | 3625            | 256QAM     | 1       | 0         | 16.14                   | 16.55              |
|   |            |                 |            | 1       | 99        | 16.06                   | 16.47              |
|   |            |                 |            | 50      | 25        | 16.11                   | 16.52              |
|   |            |                 |            | 100     | 0         | 16.04                   | 16.45              |
|   | 56640      | 3690            | 256QAM     | 1       | 0         | 16.10                   | 16.51              |
|   |            |                 |            | 1       | 99        | 16.17                   | 16.58              |
|   |            |                 |            | 50      | 25        | 16.05                   | 16.46              |
|   |            |                 |            | 100     | 0         | 16.03                   | 16.44              |

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LTE with 10MHz

| LTE Band 48_Uplink frequency band : 3550 to 3700 MHz |            |                 |            |         |           |                               |                          |                        |                    |
|--|------------|-----------------|------------|---------|-----------|-------------------------------|--------------------------|------------------------|--------------------|
| BW (MHz)   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | EIRP Limit (dBm/10MHz) | Margin (dBm/10MHz) |
| 5  | 55265      | 3552.5          | QPSK       | 1       | 0         | 21.39                         | 21.80                    | 23                     | -1.2               |
|  |            |                 |            | 1       | 24        | 21.38                         | 21.79                    | 23                     | -1.21              |
|  |            |                 |            | 12      | 6         | 20.45                         | 20.86                    | 23                     | -2.14              |
|  |            |                 |            | 25      | 0         | 20.43                         | 20.84                    | 23                     | -2.16              |
|  | 55990      | 3625            | QPSK       | 1       | 0         | 21.26                         | 21.67                    | 23                     | -1.33              |
|  |            |                 |            | 1       | 24        | 21.21                         | 21.62                    | 23                     | -1.38              |
|  |            |                 |            | 12      | 6         | 20.27                         | 20.68                    | 23                     | -2.32              |
|  |            |                 |            | 25      | 0         | 20.25                         | 20.66                    | 23                     | -2.34              |
|  | 56715      | 3697.5          | QPSK       | 1       | 0         | 21.36                         | 21.77                    | 23                     | -1.23              |
|  |            |                 |            | 1       | 24        | 21.37                         | 21.78                    | 23                     | -1.22              |
|  |            |                 |            | 12      | 6         | 20.34                         | 20.75                    | 23                     | -2.25              |
|  |            |                 |            | 25      | 0         | 20.36                         | 20.77                    | 23                     | -2.23              |
| 5  | 55265      | 3552.5          | 16QAM      | 1       | 0         | 20.70                         | 21.11                    | 23                     | -1.89              |
|  |            |                 |            | 1       | 24        | 20.67                         | 21.08                    | 23                     | -1.92              |
|  |            |                 |            | 12      | 6         | 19.49                         | 19.90                    | 23                     | -3.1               |
|  |            |                 |            | 25      | 0         | 19.45                         | 19.86                    | 23                     | -3.14              |
|  | 55990      | 3625            | 16QAM      | 1       | 0         | 20.39                         | 20.80                    | 23                     | -2.2               |
|  |            |                 |            | 1       | 24        | 20.39                         | 20.80                    | 23                     | -2.2               |
|  |            |                 |            | 12      | 6         | 19.30                         | 19.71                    | 23                     | -3.29              |
|  |            |                 |            | 25      | 0         | 19.30                         | 19.71                    | 23                     | -3.29              |
|  | 56715      | 3697.5          | 16QAM      | 1       | 0         | 20.57                         | 20.98                    | 23                     | -2.02              |
|  |            |                 |            | 1       | 24        | 20.68                         | 21.09                    | 23                     | -1.91              |
|  |            |                 |            | 12      | 6         | 19.38                         | 19.79                    | 23                     | -3.21              |
|  |            |                 |            | 25      | 0         | 19.37                         | 19.78                    | 23                     | -3.22              |
| 5  | 55265      | 3552.5          | 64QAM      | 1       | 0         | 19.51                         | 19.92                    | 23                     | -3.08              |
|  |            |                 |            | 1       | 24        | 19.49                         | 19.90                    | 23                     | -3.1               |
|  |            |                 |            | 12      | 6         | 18.46                         | 18.87                    | 23                     | -4.13              |
|  |            |                 |            | 25      | 0         | 18.47                         | 18.88                    | 23                     | -4.12              |
|  | 55990      | 3625            | 64QAM      | 1       | 0         | 19.39                         | 19.80                    | 23                     | -3.2               |
|  |            |                 |            | 1       | 24        | 19.36                         | 19.77                    | 23                     | -3.23              |
|  |            |                 |            | 12      | 6         | 18.25                         | 18.66                    | 23                     | -4.34              |
|  |            |                 |            | 25      | 0         | 18.32                         | 18.73                    | 23                     | -4.27              |
|  | 56715      | 3697.5          | 64QAM      | 1       | 0         | 19.38                         | 19.79                    | 23                     | -3.21              |
|  |            |                 |            | 1       | 24        | 19.36                         | 19.77                    | 23                     | -3.23              |
|  |            |                 |            | 12      | 6         | 18.40                         | 18.81                    | 23                     | -4.19              |
|  |            |                 |            | 25      | 0         | 18.40                         | 18.81                    | 23                     | -4.19              |
| 5  | 55265      | 3552.5          | 256QAM     | 1       | 0         | 16.28                         | 16.69                    | 23                     | -6.31              |
|  |            |                 |            | 1       | 24        | 16.26                         | 16.67                    | 23                     | -6.33              |
|  |            |                 |            | 12      | 6         | 16.22                         | 16.63                    | 23                     | -6.37              |
|  |            |                 |            | 25      | 0         | 16.19                         | 16.60                    | 23                     | -6.4               |
|  | 55990      | 3625            | 256QAM     | 1       | 0         | 16.13                         | 16.54                    | 23                     | -6.46              |
|  |            |                 |            | 1       | 24        | 16.12                         | 16.53                    | 23                     | -6.47              |
|  |            |                 |            | 12      | 6         | 16.12                         | 16.53                    | 23                     | -6.47              |
|  |            |                 |            | 25      | 0         | 16.04                         | 16.45                    | 23                     | -6.55              |
|  | 56715      | 3697.5          | 256QAM     | 1       | 0         | 16.21                         | 16.62                    | 23                     | -6.38              |
|  |            |                 |            | 1       | 24        | 16.22                         | 16.63                    | 23                     | -6.37              |
|  |            |                 |            | 12      | 6         | 16.17                         | 16.58                    | 23                     | -6.42              |
|  |            |                 |            | 25      | 0         | 16.14                         | 16.55                    | 23                     | -6.45              |

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| Antenna gain (dBi)  | 0.41       |                 |            |         |           |                               |                          |                        |
|---|------------|-----------------|------------|---------|-----------|-------------------------------|--------------------------|------------------------|
| <b>LTE Band 48_Uplink frequency band : 3550 to 3700 MHz</b> |            |                 |            |         |           |                               |                          |                        |
| BW (MHz)  | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | EIRP Limit (dBm/10MHz) |
| 10  | 55290      | 3555            | QPSK       | 1       | 0         | 21.45                         | <b>21.86</b>             | 23                     |
|   |            |                 |            | 1       | 49        | 21.44                         | 21.85                    | 23                     |
|   |            |                 |            | 25      | 12        | 20.36                         | 20.77                    | 23                     |
|   |            |                 |            | 50      | 0         | 20.45                         | 20.86                    | 23                     |
|   | 55990      | 3625            | QPSK       | 1       | 0         | 21.27                         | 21.68                    | 23                     |
|   |            |                 |            | 1       | 49        | 21.20                         | 21.61                    | 23                     |
|   |            |                 |            | 25      | 12        | 20.17                         | 20.58                    | 23                     |
|   |            |                 |            | 50      | 0         | 20.25                         | 20.66                    | 23                     |
|   | 56690      | 3695            | QPSK       | 1       | 0         | 21.24                         | 21.65                    | 23                     |
|   |            |                 |            | 1       | 49        | 21.33                         | 21.74                    | 23                     |
|   |            |                 |            | 25      | 12        | 20.32                         | 20.73                    | 23                     |
|   |            |                 |            | 50      | 0         | 20.39                         | 20.80                    | 23                     |
| 10  | 55290      | 3555            | 16QAM      | 1       | 0         | 20.74                         | <b>21.15</b>             | 23                     |
|   |            |                 |            | 1       | 49        | 20.58                         | 20.99                    | 23                     |
|   |            |                 |            | 25      | 12        | 19.33                         | 19.74                    | 23                     |
|   |            |                 |            | 50      | 0         | 19.42                         | 19.83                    | 23                     |
|   | 55990      | 3625            | 16QAM      | 1       | 0         | 20.57                         | 20.98                    | 23                     |
|   |            |                 |            | 1       | 49        | 20.49                         | 20.90                    | 23                     |
|   |            |                 |            | 25      | 12        | 19.17                         | 19.58                    | 23                     |
|   |            |                 |            | 50      | 0         | 19.28                         | 19.69                    | 23                     |
|   | 56690      | 3695            | 16QAM      | 1       | 0         | 20.50                         | 20.91                    | 23                     |
|   |            |                 |            | 1       | 49        | 20.70                         | 21.11                    | 23                     |
|   |            |                 |            | 25      | 12        | 19.30                         | 19.71                    | 23                     |
|   |            |                 |            | 50      | 0         | 19.43                         | 19.84                    | 23                     |
| 10  | 55290      | 3555            | 64QAM      | 1       | 0         | 19.54                         | <b>19.95</b>             | 23                     |
|   |            |                 |            | 1       | 49        | 19.48                         | 19.89                    | 23                     |
|   |            |                 |            | 25      | 12        | 18.39                         | 18.80                    | 23                     |
|   |            |                 |            | 50      | 0         | 18.44                         | 18.85                    | 23                     |
|   | 55990      | 3625            | 64QAM      | 1       | 0         | 19.49                         | 19.90                    | 23                     |
|   |            |                 |            | 1       | 49        | 19.50                         | 19.91                    | 23                     |
|   |            |                 |            | 25      | 12        | 18.15                         | 18.56                    | 23                     |
|   |            |                 |            | 50      | 0         | 18.24                         | 18.65                    | 23                     |
|   | 56690      | 3695            | 64QAM      | 1       | 0         | 19.49                         | 19.90                    | 23                     |
|   |            |                 |            | 1       | 49        | 19.53                         | 19.94                    | 23                     |
|   |            |                 |            | 25      | 12        | 18.29                         | 18.70                    | 23                     |
|   |            |                 |            | 50      | 0         | 18.37                         | 18.78                    | 23                     |
| 10  | 55290      | 3555            | 256QAM     | 1       | 0         | 16.30                         | <b>16.71</b>             | 23                     |
|   |            |                 |            | 1       | 49        | 16.23                         | 16.64                    | 23                     |
|   |            |                 |            | 25      | 12        | 16.23                         | 16.64                    | 23                     |
|   |            |                 |            | 50      | 0         | 16.18                         | 16.59                    | 23                     |
|   | 55990      | 3625            | 256QAM     | 1       | 0         | 16.18                         | 16.59                    | 23                     |
|   |            |                 |            | 1       | 49        | 16.19                         | 16.60                    | 23                     |
|   |            |                 |            | 25      | 12        | 16.14                         | 16.55                    | 23                     |
|   |            |                 |            | 50      | 0         | 16.10                         | 16.51                    | 23                     |
|   | 56690      | 3695            | 256QAM     | 1       | 0         | 16.15                         | 16.56                    | 23                     |
|   |            |                 |            | 1       | 49        | 16.27                         | 16.68                    | 23                     |
|   |            |                 |            | 25      | 12        | 16.23                         | 16.64                    | 23                     |
|   |            |                 |            | 50      | 0         | 16.14                         | 16.55                    | 23                     |

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| Antenna gain (dBi)                                   | 0.41       |                 |            |         |           |                               |                          |                        |       |
|--|------------|-----------------|------------|---------|-----------|-------------------------------|--------------------------|------------------------|-------|
| LTE Band 48_Uplink frequency band : 3550 to 3700 MHz |            |                 |            |         |           |                               |                          |                        |       |
| BW (MHz)   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | EIRP Limit (dBm/10MHz) |       |
| 15   | 55315      | 3557.5          | QPSK       | 1       | 0         | 19.78                         | 20.19                    | 23                     | -2.81 |
|  |            |                 |            | 1       | 74        | 19.76                         | 20.17                    | 23                     | -2.83 |
|  |            |                 |            | 36      | 18        | 18.55                         | 18.96                    | 23                     | -4.04 |
|  |            |                 |            | 75      | 0         | 18.65                         | 19.06                    | 23                     | -3.94 |
|  | 55990      | 3625            | QPSK       | 1       | 0         | 19.64                         | 20.05                    | 23                     | -2.95 |
|  |            |                 |            | 1       | 74        | 19.55                         | 19.96                    | 23                     | -3.04 |
|  |            |                 |            | 36      | 18        | 18.32                         | 18.73                    | 23                     | -4.27 |
|  |            |                 |            | 75      | 0         | 18.47                         | 18.88                    | 23                     | -4.12 |
|  | 56665      | 3692.5          | QPSK       | 1       | 0         | 19.59                         | 20.00                    | 23                     | -3.00 |
|  |            |                 |            | 1       | 74        | 19.69                         | 20.10                    | 23                     | -2.90 |
|  |            |                 |            | 36      | 18        | 18.41                         | 18.82                    | 23                     | -4.18 |
|  |            |                 |            | 75      | 0         | 18.54                         | 18.95                    | 23                     | -4.05 |
| 15   | 55315      | 3557.5          | 16QAM      | 1       | 0         | 18.96                         | 19.37                    | 23                     | -3.63 |
|  |            |                 |            | 1       | 74        | 18.89                         | 19.30                    | 23                     | -3.70 |
|  |            |                 |            | 36      | 18        | 17.54                         | 17.95                    | 23                     | -5.05 |
|  |            |                 |            | 75      | 0         | 17.66                         | 18.07                    | 23                     | -4.93 |
|  | 55990      | 3625            | 16QAM      | 1       | 0         | 18.68                         | 19.09                    | 23                     | -3.91 |
|  |            |                 |            | 1       | 74        | 18.54                         | 18.95                    | 23                     | -4.05 |
|  |            |                 |            | 36      | 18        | 17.43                         | 17.84                    | 23                     | -5.16 |
|  |            |                 |            | 75      | 0         | 17.50                         | 17.91                    | 23                     | -5.09 |
|  | 56665      | 3692.5          | 16QAM      | 1       | 0         | 18.88                         | 19.29                    | 23                     | -3.71 |
|  |            |                 |            | 1       | 74        | 18.89                         | 19.30                    | 23                     | -3.70 |
|  |            |                 |            | 36      | 18        | 17.34                         | 17.75                    | 23                     | -5.25 |
|  |            |                 |            | 75      | 0         | 17.54                         | 17.95                    | 23                     | -5.05 |
| 15   | 55315      | 3557.5          | 64QAM      | 1       | 0         | 17.89                         | 18.30                    | 23                     | -4.70 |
|  |            |                 |            | 1       | 74        | 17.77                         | 18.18                    | 23                     | -4.82 |
|  |            |                 |            | 36      | 18        | 16.47                         | 16.88                    | 23                     | -6.12 |
|  |            |                 |            | 75      | 0         | 16.66                         | 17.07                    | 23                     | -5.93 |
|  | 55990      | 3625            | 64QAM      | 1       | 0         | 17.71                         | 18.12                    | 23                     | -4.88 |
|  |            |                 |            | 1       | 74        | 17.73                         | 18.14                    | 23                     | -4.86 |
|  |            |                 |            | 36      | 18        | 16.40                         | 16.81                    | 23                     | -6.19 |
|  |            |                 |            | 75      | 0         | 16.47                         | 16.88                    | 23                     | -6.12 |
|  | 56665      | 3692.5          | 64QAM      | 1       | 0         | 17.63                         | 18.04                    | 23                     | -4.96 |
|  |            |                 |            | 1       | 74        | 17.69                         | 18.10                    | 23                     | -4.90 |
|  |            |                 |            | 36      | 18        | 16.42                         | 16.83                    | 23                     | -6.17 |
|  |            |                 |            | 75      | 0         | 16.53                         | 16.94                    | 23                     | -6.06 |
| 15   | 55315      | 3557.5          | 256QAM     | 1       | 0         | 14.57                         | 14.98                    | 23                     | -8.02 |
|  |            |                 |            | 1       | 74        | 14.39                         | 14.80                    | 23                     | -8.20 |
|  |            |                 |            | 36      | 18        | 14.42                         | 14.83                    | 23                     | -8.17 |
|  |            |                 |            | 75      | 0         | 14.46                         | 14.87                    | 23                     | -8.13 |
|  | 55990      | 3625            | 256QAM     | 1       | 0         | 14.40                         | 14.81                    | 23                     | -8.19 |
|  |            |                 |            | 1       | 74        | 14.34                         | 14.75                    | 23                     | -8.25 |
|  |            |                 |            | 36      | 18        | 14.34                         | 14.75                    | 23                     | -8.25 |
|  |            |                 |            | 75      | 0         | 14.34                         | 14.75                    | 23                     | -8.25 |
|  | 56665      | 3692.5          | 256QAM     | 1       | 0         | 14.40                         | 14.81                    | 23                     | -8.19 |
|  |            |                 |            | 1       | 74        | 14.37                         | 14.78                    | 23                     | -8.22 |
|  |            |                 |            | 36      | 18        | 14.34                         | 14.75                    | 23                     | -8.25 |
|  |            |                 |            | 75      | 0         | 14.34                         | 14.75                    | 23                     | -8.25 |

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| LTE Band 48_Uplink frequency band : 3550 to 3700 MHz |            |                 |            |         |           |                               |                          |                        |                    |
|--|------------|-----------------|------------|---------|-----------|-------------------------------|--------------------------|------------------------|--------------------|
| BW (MHz)   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | EIRP Limit (dBm/10MHz) | Margin (dBm/10MHz) |
| 20   | 55340      | 3560            | QPSK       | 1       | 0         | 18.57                         | 18.98                    | 23                     | -4.02              |
|  |            |                 |            | 1       | 99        | 18.55                         | 18.96                    | 23                     | -4.04              |
|  |            |                 |            | 50      | 25        | 17.47                         | 17.88                    | 23                     | -5.12              |
|  |            |                 |            | 100     | 0         | 17.37                         | 17.78                    | 23                     | -5.22              |
|  | 55990      | 3625            | QPSK       | 1       | 0         | 18.38                         | 18.79                    | 23                     | -4.21              |
|  |            |                 |            | 1       | 99        | 18.31                         | 18.72                    | 23                     | -4.28              |
|  |            |                 |            | 50      | 25        | 17.28                         | 17.69                    | 23                     | -5.31              |
|  |            |                 |            | 100     | 0         | 17.22                         | 17.63                    | 23                     | -5.37              |
|  | 56640      | 3690            | QPSK       | 1       | 0         | 18.41                         | 18.82                    | 23                     | -4.18              |
|  |            |                 |            | 1       | 99        | 18.52                         | 18.93                    | 23                     | -4.07              |
|  |            |                 |            | 50      | 25        | 17.34                         | 17.75                    | 23                     | -5.25              |
|  |            |                 |            | 100     | 0         | 17.25                         | 17.66                    | 23                     | -5.34              |
| 20   | 55340      | 3560            | 16QAM      | 1       | 0         | 17.74                         | 18.15                    | 23                     | -4.85              |
|  |            |                 |            | 1       | 99        | 17.58                         | 17.99                    | 23                     | -5.01              |
|  |            |                 |            | 50      | 25        | 16.49                         | 16.90                    | 23                     | -6.10              |
|  |            |                 |            | 100     | 0         | 16.42                         | 16.83                    | 23                     | -6.17              |
|  | 55990      | 3625            | 16QAM      | 1       | 0         | 17.43                         | 17.84                    | 23                     | -5.16              |
|  |            |                 |            | 1       | 99        | 17.38                         | 17.79                    | 23                     | -5.21              |
|  |            |                 |            | 50      | 25        | 16.30                         | 16.71                    | 23                     | -6.29              |
|  |            |                 |            | 100     | 0         | 16.19                         | 16.60                    | 23                     | -6.40              |
|  | 56640      | 3690            | 16QAM      | 1       | 0         | 17.57                         | 17.98                    | 23                     | -5.02              |
|  |            |                 |            | 1       | 99        | 17.71                         | 18.12                    | 23                     | -4.88              |
|  |            |                 |            | 50      | 25        | 16.37                         | 16.78                    | 23                     | -6.22              |
|  |            |                 |            | 100     | 0         | 16.26                         | 16.67                    | 23                     | -6.33              |
| 20   | 55340      | 3560            | 64QAM      | 1       | 0         | 16.55                         | 16.96                    | 23                     | -6.04              |
|  |            |                 |            | 1       | 99        | 16.56                         | 16.97                    | 23                     | -6.03              |
|  |            |                 |            | 50      | 25        | 15.52                         | 15.93                    | 23                     | -7.07              |
|  |            |                 |            | 100     | 0         | 15.33                         | 15.74                    | 23                     | -7.26              |
|  | 55990      | 3625            | 64QAM      | 1       | 0         | 16.44                         | 16.85                    | 23                     | -6.15              |
|  |            |                 |            | 1       | 99        | 16.30                         | 16.71                    | 23                     | -6.29              |
|  |            |                 |            | 50      | 25        | 15.31                         | 15.72                    | 23                     | -7.28              |
|  |            |                 |            | 100     | 0         | 15.19                         | 15.60                    | 23                     | -7.40              |
|  | 56640      | 3690            | 64QAM      | 1       | 0         | 16.65                         | 17.06                    | 23                     | -5.94              |
|  |            |                 |            | 1       | 99        | 16.57                         | 16.98                    | 23                     | -6.02              |
|  |            |                 |            | 50      | 25        | 15.32                         | 15.73                    | 23                     | -7.27              |
|  |            |                 |            | 100     | 0         | 15.20                         | 15.61                    | 23                     | -7.39              |
| 20   | 55340      | 3560            | 256QAM     | 1       | 0         | 13.22                         | 13.63                    | 23                     | -9.37              |
|  |            |                 |            | 1       | 99        | 13.11                         | 13.52                    | 23                     | -9.48              |
|  |            |                 |            | 50      | 25        | 13.11                         | 13.52                    | 23                     | -9.48              |
|  |            |                 |            | 100     | 0         | 13.18                         | 13.59                    | 23                     | -9.41              |
|  | 55990      | 3625            | 256QAM     | 1       | 0         | 13.13                         | 13.54                    | 23                     | -9.46              |
|  |            |                 |            | 1       | 99        | 13.05                         | 13.46                    | 23                     | -9.54              |
|  |            |                 |            | 50      | 25        | 13.10                         | 13.51                    | 23                     | -9.49              |
|  |            |                 |            | 100     | 0         | 13.03                         | 13.44                    | 23                     | -9.56              |
|  | 56640      | 3690            | 256QAM     | 1       | 0         | 13.09                         | 13.50                    | 23                     | -9.50              |
|  |            |                 |            | 1       | 99        | 13.16                         | 13.57                    | 23                     | -9.43              |
|  |            |                 |            | 50      | 25        | 13.04                         | 13.45                    | 23                     | -9.55              |
|  |            |                 |            | 100     | 0         | 13.02                         | 13.43                    | 23                     | -9.57              |

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NR

| 5G NR Band n48_part96: 3550 to 3700 MHz |           |                 |               |           | Conducted Average (dBm)         |         |         | EIRP (dBm)                      |              |         |  |
|---|-----------|-----------------|---------------|-----------|---------------------------------|---------|---------|---------------------------------|--------------|---------|--|
| Antenna Gain(dBi)                       |           |                 | 0.41          |           | Channel (ARFCH)/ Frequency(MHz) |         |         | Channel (ARFCH)/ Frequency(MHz) |              |         |  |
|   |           |                 |               |           | Low                             | Mid     | High    | Low                             | Mid          | High    |  |
| BW (MHz)                                | SCS (kHz) | Modulation      | RB Allocation | RB Offset | 637000                          | 641668  | 646332  | 637000                          | 641668       | 646332  |  |
|   |           |                 |               |           | 3555                            | 3625.02 | 3694.98 | 3555                            | 3625.02      | 3694.98 |  |
| 10                                      | 30        | DFT-s PI/2 BPSK | 1             | 1         | 22.35                           | 22.41   | 22.32   | 22.76                           | 22.82        | 22.73   |  |
|   |           |                 | 1             | 22        | 22.39                           | 22.32   | 22.23   | 22.80                           | 22.73        | 22.64   |  |
|   |           |                 | 12            | 6         | 22.53                           | 22.27   | 22.23   | <b>22.94</b>                    | 22.68        | 22.64   |  |
|   |           |                 | 24            | 0         | 22.03                           | 21.90   | 21.67   | 22.44                           | 22.31        | 22.08   |  |
|   |           | DFT-s QPSK      | 1             | 1         | 22.44                           | 22.41   | 22.15   | 22.85                           | 22.82        | 22.56   |  |
|   |           |                 | 1             | 22        | 22.07                           | 22.20   | 22.43   | 22.48                           | 22.61        | 22.84   |  |
|   |           |                 | 12            | 6         | 22.49                           | 22.23   | 22.19   | <b>22.90</b>                    | 22.64        | 22.60   |  |
|   |           |                 | 24            | 0         | 21.48                           | 21.37   | 21.09   | 21.89                           | 21.78        | 21.50   |  |
|   |           | DFT-s 16QAM     | 12            | 6         | 21.41                           | 21.35   | 20.99   | <b>21.82</b>                    | 21.76        | 21.40   |  |
|   |           | DFT-s 64QAM     | 12            | 6         | 19.65                           | 19.56   | 19.46   | 20.06                           | 19.97        | 19.87   |  |
|   |           | DFT-s 256QAM    | 12            | 6         | 18.28                           | 18.16   | 17.34   | 18.69                           | 18.57        | 17.75   |  |
|   |           | CP QPSK         | 12            | 6         | 20.94                           | 20.76   | 20.62   | <b>21.35</b>                    | 21.17        | 21.03   |  |
|   |           | CP 16QAM        | 12            | 6         | 20.29                           | 20.09   | 20.02   | <b>20.70</b>                    | 20.50        | 20.43   |  |
|   |           | CP 64QAM        | 12            | 6         | 18.65                           | 18.67   | 18.34   | 19.06                           | 19.08        | 18.75   |  |
|   |           | CP 256QAM       | 12            | 6         | 16.39                           | 16.48   | 15.73   | 16.80                           | 16.89        | 16.14   |  |
| 5G NR Band n48_part96: 3550 to 3700 MHz |           |                 |               |           | Conducted Average (dBm)         |         |         | EIRP (dBm)                      |              |         |  |
| Antenna Gain(dBi)                       |           |                 | 0.41          |           | Channel (ARFCH)/ Frequency(MHz) |         |         | Channel (ARFCH)/ Frequency(MHz) |              |         |  |
|   |           |                 |               |           | Low                             | Mid     | High    | Low                             | Mid          | High    |  |
| BW (MHz)                                | SCS (kHz) | Modulation      | RB Allocation | RB Offset | 637168                          | 641668  | 646166  | 637168                          | 641668       | 646166  |  |
|   |           |                 |               |           | 3557.52                         | 3625.02 | 3692.49 | 3557.52                         | 3625.02      | 3692.49 |  |
| 15                                      | 30        | DFT-s PI/2 BPSK | 1             | 1         | 22.42                           | 22.16   | 21.91   | 22.83                           | 22.57        | 22.32   |  |
|   |           |                 | 1             | 36        | 22.44                           | 22.35   | 22.16   | <b>22.85</b>                    | 22.76        | 22.57   |  |
|   |           |                 | 18            | 9         | 22.37                           | 22.35   | 22.15   | 22.78                           | 22.76        | 22.56   |  |
|   |           |                 | 36            | 0         | 21.86                           | 21.78   | 21.65   | 22.27                           | 22.19        | 22.06   |  |
|   |           | DFT-s QPSK      | 1             | 1         | 22.26                           | 22.25   | 21.94   | 22.67                           | 22.66        | 22.35   |  |
|   |           |                 | 1             | 36        | 22.22                           | 22.18   | 22.12   | <b>22.63</b>                    | 22.59        | 22.53   |  |
|   |           |                 | 18            | 9         | 22.34                           | 22.33   | 22.16   | <b>22.75</b>                    | 22.74        | 22.57   |  |
|   |           |                 | 36            | 0         | 21.35                           | 21.37   | 21.06   | 21.76                           | 21.78        | 21.47   |  |
|   |           | DFT-s 16QAM     | 1             | 36        | 21.07                           | 21.43   | 21.28   | 21.48                           | <b>21.84</b> | 21.69   |  |
|   |           | DFT-s 64QAM     | 1             | 36        | 19.37                           | 20.19   | 19.89   | 19.78                           | 20.60        | 20.30   |  |
|   |           | DFT-s 256QAM    | 1             | 36        | 17.57                           | 18.08   | 17.73   | 17.98                           | 18.49        | 18.14   |  |
|   |           | CP QPSK         | 1             | 36        | 20.89                           | 20.47   | 20.75   | <b>21.30</b>                    | 20.88        | 21.16   |  |
|   |           | CP 16QAM        | 1             | 36        | 20.24                           | 20.23   | 19.96   | <b>20.65</b>                    | 20.64        | 20.37   |  |
|   |           | CP 64QAM        | 1             | 36        | 18.23                           | 19.45   | 18.57   | 18.64                           | 19.86        | 18.98   |  |
|   |           | CP 256QAM       | 1             | 36        | 15.88                           | 15.89   | 15.34   | 16.29                           | 16.30        | 15.75   |  |

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| 5G NR Band n48_part96: 3550 to 3700 MHz |           |                 |               | Conducted Average (dBm) |                                 |         | EIRP (dBm) |                                 |         |        |
|---|-----------|-----------------|---------------|-------------------------|---------------------------------|---------|------------|---------------------------------|---------|--------|
| Antenna Gain(dBi)                       |           |                 | 0.41          |                         | Channel (ARFCH)/ Frequency(MHz) |         |            | Channel (ARFCH)/ Frequency(MHz) |         |        |
|   |           |                 |               |                         | Low                             | Mid     | High       | Low                             | Mid     |        |
| BW (MHz)                                | SCS (kHz) | Modulation      | RB Allocation | RB Offset               | 637334                          | 641668  | 646000     | 637334                          | 641668  | 646000 |
|   |           |                 |               |                         | 3560.01                         | 3625.02 | 3690       | 3560.01                         | 3625.02 | 3690   |
| 20                                      | 30        | DFT-s PI/2 BPSK | 1             | 1                       | 22.54                           | 22.29   | 21.97      | 22.95                           | 22.70   | 22.38  |
|   |           |                 | 1             | 49                      | 22.38                           | 22.08   | 22.10      | 22.79                           | 22.49   | 22.51  |
|   |           |                 | 25            | 12                      | 22.29                           | 22.24   | 22.05      | 22.70                           | 22.65   | 22.46  |
|   |           |                 | 50            | 0                       | 21.86                           | 21.78   | 21.43      | 22.27                           | 22.19   | 21.84  |
|   |           | DFT-s QPSK      | 1             | 1                       | 22.18                           | 22.24   | 22.05      | 22.59                           | 22.65   | 22.46  |
|   |           |                 | 1             | 49                      | 22.31                           | 22.16   | 22.12      | 22.72                           | 22.57   | 22.53  |
|   |           |                 | 25            | 12                      | 22.34                           | 22.21   | 21.93      | 22.75                           | 22.62   | 22.34  |
|   |           |                 | 50            | 0                       | 21.34                           | 21.26   | 21.07      | 21.75                           | 21.67   | 21.48  |
|   |           | DFT-s 16QAM     | 1             | 1                       | 21.47                           | 21.17   | 21.09      | 21.88                           | 21.58   | 21.50  |
|   |           | DFT-s 64QAM     | 1             | 1                       | 19.99                           | 19.75   | 20.06      | 20.40                           | 20.16   | 20.47  |
|   |           | DFT-s 256QAM    | 1             | 1                       | 17.83                           | 17.59   | 17.52      | 18.24                           | 18.00   | 17.93  |
|   |           | CP QPSK         | 1             | 1                       | 20.94                           | 20.75   | 20.43      | 21.35                           | 21.16   | 20.84  |
|   |           | CP 16QAM        | 1             | 1                       | 20.47                           | 20.13   | 20.02      | 20.88                           | 20.54   | 20.43  |
|   |           | CP 64QAM        | 1             | 1                       | 18.96                           | 18.76   | 18.84      | 19.37                           | 19.17   | 19.25  |
|   |           | CP 256QAM       | 1             | 1                       | 15.94                           | 15.73   | 15.55      | 16.35                           | 16.14   | 15.96  |

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NR with 10MHz

| 5G NR Band n48_part96: 3550 to 3700 MHz |           |                 |               |           | Conducted Average (dBm/10MHz)   |         |         | EIRP (dBm/10MHz)                |         |         |  |
|---|-----------|-----------------|---------------|-----------|---------------------------------|---------|---------|---------------------------------|---------|---------|--|
| Antenna Gain(dBi)                       |           |                 | 0.41          |           | Channel (ARFCH)/ Frequency(MHz) |         |         | Channel (ARFCH)/ Frequency(MHz) |         |         |  |
| EIRP Limit (dBm)                        |           |                 | 23dBm/10MHz   |           | Low                             | Mid     | High    | Low                             | Mid     | High    |  |
| BW (MHz)                                | SCS (kHz) | Modulation      | RB Allocation | RB Offset | 637000                          | 641668  | 646332  | 637000                          | 641668  | 646332  |  |
|   |           |                 |               |           | 3555                            | 3625.02 | 3694.98 | 3555                            | 3625.02 | 3694.98 |  |
| 10                                      | 30        | DFT-s PI/2 BPSK | 1             | 1         | 22.35                           | 22.41   | 22.32   | 22.76                           | 22.82   | 22.73   |  |
|   |           |                 | 1             | 22        | 22.39                           | 22.32   | 22.23   | 22.80                           | 22.73   | 22.64   |  |
|   |           |                 | 12            | 6         | 22.53                           | 22.27   | 22.23   | 22.94                           | 22.68   | 22.64   |  |
|   |           |                 | 24            | 0         | 22.03                           | 21.90   | 21.67   | 22.44                           | 22.31   | 22.08   |  |
|   |           | DFT-s QPSK      | 1             | 1         | 22.44                           | 22.41   | 22.15   | 22.85                           | 22.82   | 22.56   |  |
|   |           |                 | 1             | 22        | 22.07                           | 22.20   | 22.43   | 22.48                           | 22.61   | 22.84   |  |
|   |           |                 | 12            | 6         | 22.49                           | 22.23   | 22.19   | 22.90                           | 22.64   | 22.60   |  |
|   |           |                 | 24            | 0         | 21.48                           | 21.37   | 21.09   | 21.89                           | 21.78   | 21.50   |  |
|   |           | DFT-s 16QAM     | 12            | 6         | 21.41                           | 21.35   | 20.99   | 21.82                           | 21.76   | 21.40   |  |
|   |           | DFT-s 64QAM     | 12            | 6         | 19.65                           | 19.56   | 19.46   | 20.06                           | 19.97   | 19.87   |  |
|   |           | DFT-s 256QAM    | 12            | 6         | 18.28                           | 18.16   | 17.34   | 18.69                           | 18.57   | 17.75   |  |
|   |           | CP QPSK         | 12            | 6         | 20.94                           | 20.76   | 20.62   | 21.35                           | 21.17   | 21.03   |  |
|   |           | CP 16QAM        | 12            | 6         | 20.29                           | 20.09   | 20.02   | 20.70                           | 20.50   | 20.43   |  |
|   |           | CP 64QAM        | 12            | 6         | 18.65                           | 18.67   | 18.34   | 19.06                           | 19.08   | 18.75   |  |
|   |           | CP 256QAM       | 12            | 6         | 16.39                           | 16.48   | 15.73   | 16.80                           | 16.89   | 16.14   |  |
| 5G NR Band n48_part96: 3550 to 3700 MHz |           |                 |               |           | Conducted Average (dBm/10MHz)   |         |         | EIRP (dBm/10MHz)                |         |         |  |
| Antenna Gain(dBi)                       |           |                 | 0.41          |           | Channel (ARFCH)/ Frequency(MHz) |         |         | Channel (ARFCH)/ Frequency(MHz) |         |         |  |
| EIRP Limit (dBm)                        |           |                 | 23dBm/10MHz   |           | Low                             | Mid     | High    | Low                             | Mid     | High    |  |
| BW (MHz)                                | SCS (kHz) | Modulation      | RB Allocation | RB Offset | 637168                          | 641668  | 646166  | 637168                          | 641668  | 646166  |  |
|   |           |                 |               |           | 3557.52                         | 3625.02 | 3692.49 | 3557.52                         | 3625.02 | 3692.49 |  |
| 15                                      | 30        | DFT-s PI/2 BPSK | 1             | 1         | 20.66                           | 20.40   | 20.15   | 21.07                           | 20.81   | 20.56   |  |
|   |           |                 | 1             | 36        | 20.68                           | 20.59   | 20.40   | 21.09                           | 21.00   | 20.81   |  |
|   |           |                 | 18            | 9         | 20.61                           | 20.59   | 20.39   | 21.02                           | 21.00   | 20.80   |  |
|   |           |                 | 36            | 0         | 20.10                           | 20.02   | 19.89   | 20.51                           | 20.43   | 20.30   |  |
|   |           | DFT-s QPSK      | 1             | 1         | 20.50                           | 20.49   | 20.18   | 20.91                           | 20.90   | 20.59   |  |
|   |           |                 | 1             | 36        | 20.46                           | 20.42   | 20.36   | 20.87                           | 20.83   | 20.77   |  |
|   |           |                 | 18            | 9         | 20.58                           | 20.57   | 20.40   | 20.99                           | 20.98   | 20.81   |  |
|   |           |                 | 36            | 0         | 19.59                           | 19.61   | 19.30   | 20.00                           | 20.02   | 19.71   |  |
|   |           | DFT-s 16QAM     | 1             | 36        | 19.31                           | 19.67   | 19.52   | 19.72                           | 20.08   | 19.93   |  |
|   |           | DFT-s 64QAM     | 1             | 36        | 17.61                           | 18.43   | 18.13   | 18.02                           | 18.84   | 18.54   |  |
|   |           | DFT-s 256QAM    | 1             | 36        | 15.81                           | 16.32   | 15.97   | 16.22                           | 16.73   | 16.38   |  |
|   |           | CP QPSK         | 1             | 36        | 19.13                           | 18.71   | 18.99   | 19.54                           | 19.12   | 19.40   |  |
|   |           | CP 16QAM        | 1             | 36        | 18.48                           | 18.47   | 18.20   | 18.89                           | 18.88   | 18.61   |  |
|   |           | CP 64QAM        | 1             | 36        | 16.47                           | 17.69   | 16.81   | 16.88                           | 18.10   | 17.22   |  |
|   |           | CP 256QAM       | 1             | 36        | 14.12                           | 14.13   | 13.58   | 14.53                           | 14.54   | 13.99   |  |

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| 5G NR Band n48_part96: 3550 to 3700 MHz |           |                 |               |           | Conducted Average (dBm/10MHz)   |         |        | EIRP (dBm/10MHz)                |         |        |
|---|-----------|-----------------|---------------|-----------|---------------------------------|---------|--------|---------------------------------|---------|--------|
| Antenna Gain(dBi)                       |           |                 | 0.41          |           | Channel (ARFCH)/ Frequency(MHz) |         |        | Channel (ARFCH)/ Frequency(MHz) |         |        |
| EIRP Limit (dBm)                        |           |                 | 23dBm/10MHz   |           | Low                             | Mid     | High   | Low                             | Mid     | High   |
| BW (MHz)                                | SCS (kHz) | Modulation      | RB Allocation | RB Offset | 637334                          | 641668  | 646000 | 637334                          | 641668  | 646000 |
|   |           |                 |               |           | 3560.01                         | 3625.02 | 3690   | 3560.01                         | 3625.02 | 3690   |
| 20                                      | 30        | DFT-s PI/2 BPSK | 1             | 1         | 19.53                           | 19.28   | 18.96  | <b>19.94</b>                    | 19.69   | 19.37  |
|   |           |                 | 1             | 49        | 19.37                           | 19.07   | 19.09  | 19.78                           | 19.48   | 19.50  |
|   |           |                 | 25            | 12        | 19.28                           | 19.23   | 19.04  | 19.69                           | 19.64   | 19.45  |
|   |           |                 | 50            | 0         | 18.85                           | 18.77   | 18.42  | 19.26                           | 19.18   | 18.83  |
|   |           | DFT-s QPSK      | 1             | 1         | 19.17                           | 19.23   | 19.04  | 19.58                           | 19.64   | 19.45  |
|   |           |                 | 1             | 49        | 19.30                           | 19.15   | 19.11  | 19.71                           | 19.56   | 19.52  |
|   |           |                 | 25            | 12        | 19.33                           | 19.20   | 18.92  | <b>19.74</b>                    | 19.61   | 19.33  |
|   |           |                 | 50            | 0         | 18.33                           | 18.25   | 18.06  | 18.74                           | 18.66   | 18.47  |
|   |           | DFT-s 16QAM     | 1             | 1         | 18.46                           | 18.16   | 18.08  | <b>18.87</b>                    | 18.57   | 18.49  |
|   |           | DFT-s 64QAM     | 1             | 1         | 16.98                           | 16.74   | 17.05  | 17.39                           | 17.15   | 17.46  |
|   |           | DFT-s 256QAM    | 1             | 1         | 14.82                           | 14.58   | 14.51  | 15.23                           | 14.99   | 14.92  |
|   |           | CP QPSK         | 1             | 1         | 17.93                           | 17.74   | 17.42  | <b>18.34</b>                    | 18.15   | 17.83  |
|   |           | CP 16QAM        | 1             | 1         | 17.46                           | 17.12   | 17.01  | <b>17.87</b>                    | 17.53   | 17.42  |
|   |           | CP 64QAM        | 1             | 1         | 15.95                           | 15.75   | 15.83  | 16.36                           | 16.16   | 16.24  |
|   |           | CP 256QAM       | 1             | 1         | 12.93                           | 12.72   | 12.54  | 13.34                           | 13.13   | 12.95  |

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## 8 MAXIMUM POWER DENSITY MEASUREMENT

### 8.1 Standard Applicable

FCC §2.1046 & 96.41

(a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.

(b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

| Device                       | Maximum PSD (dBm/MHz) |
|------------------------------|-----------------------|
| End User Device              | n/a                   |
| Category A CBSD              | 20                    |
| Category B CBSD <sup>1</sup> | 37                    |

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

(c) Power management. CBSDs and End User Devices shall limit their operating power to the minimum necessary for successful operations

(1) CBSDs must support transmit power control capability and the capability to limit their maximum EIRP and the maximum EIRP of associated End User Devices in response to instructions from an SAS.

(2) End User Devices shall include transmit power control capability and the capability to limit their maximum EIRP in response to instructions from their associated CBSDs.

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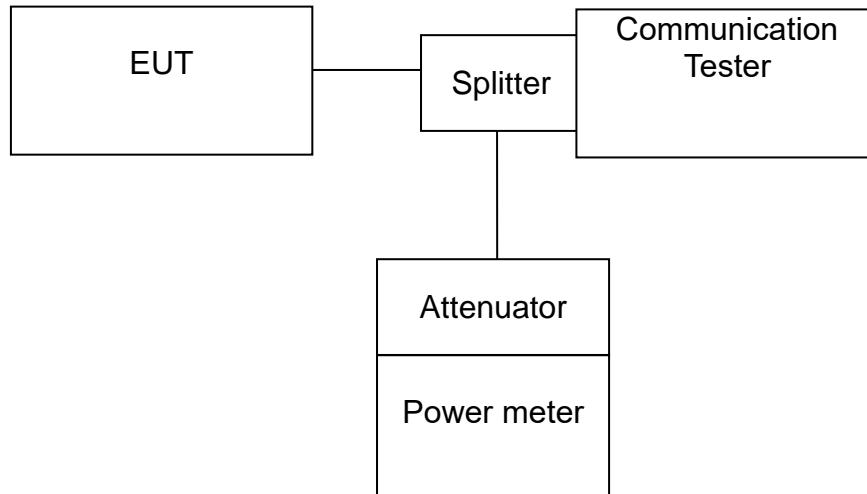
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## 8.2 Test Set-up



*Note: Measurement setup for testing on Antenna connector*

## 8.3 Measurement Procedure

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW  $\geq 3 \times$  RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

## 8.4 Measurement Result

### Peak Power Density Results:

N/A, this is an End user device.

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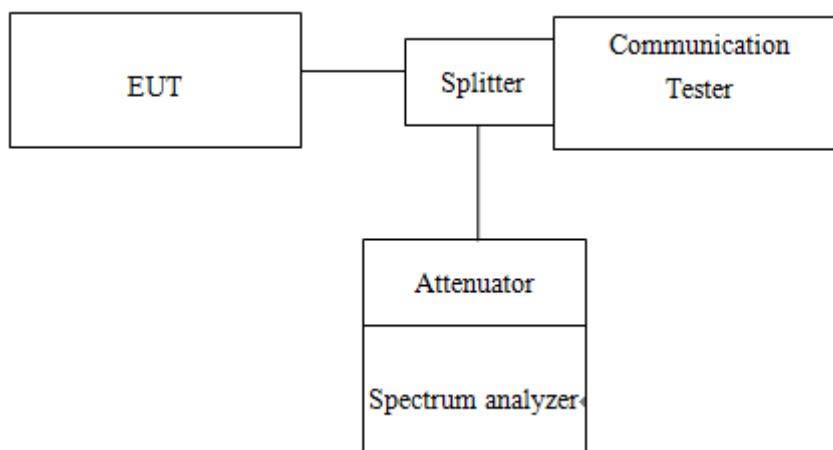
## 9 OCCUPIED BANDWIDTH MEASUREMENT

### 9.1 Standard Applicable

FCC Part 2.1049(h)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 9.2 Test Set-up



### 9.3 Measurement Procedure

#### 99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW  $\geq$  3 RBW, with span  $>$  2 \* Signal BW, set % Power = 99%.

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## 9.4 Measurement Result

### LTE

| LTE BAND 48 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |      |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |      |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM | QPSK | 16QAM | 64QAM | 256QAM |
| 3552.5                              | 55265 | 4.4996       | 4.4912 | 4.4933 | 4.4983 | 5.091          | 5.287 | 4.990 | 5.139  |      |       |       |        |
| 3625.0                              | 55990 | 4.4777       | 4.4576 | 4.4890 | 4.4900 | 4.862          | 4.903 | 4.996 | 4.911  |      |       |       |        |
| 3697.5                              | 56715 | 4.4881       | 4.4825 | 4.4576 | 4.4548 | 4.937          | 4.871 | 4.924 | 4.899  |      |       |       |        |

| LTE BAND 48 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |        |        |      |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|--------|--------|------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |        |        |      |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM  | 256QAM | QPSK | 16QAM | 64QAM | 256QAM |
| 3555.0                               | 55290 | 8.9872       | 8.9973 | 8.9685 | 8.9481 | 9.878          | 9.906 | 10.630 | 10.180 |      |       |       |        |
| 3625.0                               | 55990 | 8.9320       | 8.8812 | 8.9518 | 8.9918 | 9.537          | 9.481 | 9.667  | 9.647  |      |       |       |        |
| 3695.0                               | 56690 | 8.8993       | 8.9056 | 8.9273 | 8.9552 | 9.384          | 9.490 | 9.549  | 9.664  |      |       |       |        |

| LTE BAND 48 Channel bandwidth: 20MHz |       |              |         |         |         |                |        |        |        |      |       |       |        |
|--------------------------------------|-------|--------------|---------|---------|---------|----------------|--------|--------|--------|------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |         |         |         | 26 dB BW (MHz) |        |        |        |      |       |       |        |
|                                      |       | QPSK         | 16QAM   | 64QAM   | 256QAM  | QPSK           | 16QAM  | 64QAM  | 256QAM | QPSK | 16QAM | 64QAM | 256QAM |
| 3650.0                               | 55340 | 17.8960      | 17.8920 | 17.9200 | 17.9060 | 20.070         | 19.660 | 19.570 | 19.510 |      |       |       |        |
| 3625.0                               | 55990 | 17.9240      | 17.9310 | 17.8230 | 17.8560 | 18.650         | 18.690 | 18.890 | 18.950 |      |       |       |        |
| 3690.0                               | 56640 | 17.8150      | 17.8410 | 17.9310 | 17.8930 | 19.100         | 18.800 | 19.370 | 19.380 |      |       |       |        |

### NR

| 5G NR BAND n48_Part96 Channel bandwidth: 10MHz(3550 to 3700 MHz) |        |              |        |        |        |        |                |        |         |        |        |
|--|--------|--------------|--------|--------|--------|--------|----------------|--------|---------|--------|--------|
| DFT-S-OFDM_SCS 30 kHz  |        |              |        |        |        |        |                |        |         |        |        |
| Freq.<br>(MHz)   | CH     | 99% BW (MHz) |        |        |        |        | 26 dB BW (MHz) |        |         |        |        |
|  |        | BPSK         | QPSK   | 16QAM  | 64QAM  | 256QAM | BPSK           | QPSK   | 16QAM   | 64QAM  | 256QAM |
| 3555   | 637000 | 8.5724       | 8.6305 | 8.6205 | 8.6189 | 8.6079 | 9.6250         | 9.8120 | 10.0300 | 9.9230 | 9.6890 |
| 3625.02  | 641668 | 8.6427       | 8.5210 | 8.5973 | 8.6005 | 8.5983 | 9.1220         | 9.3790 | 9.4250  | 9.4590 | 9.2730 |
| 3694.98  | 646332 | 8.6359       | 8.6144 | 8.5952 | 8.5530 | 8.6386 | 9.8210         | 9.0620 | 9.2380  | 9.4440 | 9.7970 |

| 5G NR BAND n48_Part96 Channel bandwidth: 15MHz(3550 to 3700 MHz) |        |              |         |         |         |         |                |         |         |         |         |
|--|--------|--------------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|
| DFT-S-OFDM_SCS 30 kHz  |        |              |         |         |         |         |                |         |         |         |         |
| Freq.<br>(MHz)   | CH     | 99% BW (MHz) |         |         |         |         | 26 dB BW (MHz) |         |         |         |         |
|  |        | BPSK         | QPSK    | 16QAM   | 64QAM   | 256QAM  | BPSK           | QPSK    | 16QAM   | 64QAM   | 256QAM  |
| 3557.52  | 637168 | 12.8590      | 12.9300 | 12.9860 | 12.9330 | 12.9010 | 14.0000        | 14.1900 | 14.4500 | 14.1000 | 14.1200 |
| 3625.02  | 641668 | 12.8040      | 12.8400 | 12.8180 | 12.8880 | 12.7560 | 13.6400        | 13.5600 | 13.6700 | 13.7600 | 13.6900 |
| 3692.49  | 646166 | 12.9370      | 12.7710 | 12.9110 | 12.8930 | 12.9010 | 13.4600        | 13.7200 | 13.9000 | 13.7900 | 13.7100 |

| 5G NR BAND n48_Part96 Channel bandwidth: 20MHz(3550 to 3700 MHz) |        |              |         |         |         |         |                |         |         |         |         |
|--|--------|--------------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|
| DFT-S-OFDM_SCS 30 kHz  |        |              |         |         |         |         |                |         |         |         |         |
| Freq.<br>(MHz)   | CH     | 99% BW (MHz) |         |         |         |         | 26 dB BW (MHz) |         |         |         |         |
|  |        | BPSK         | QPSK    | 16QAM   | 64QAM   | 256QAM  | BPSK           | QPSK    | 16QAM   | 64QAM   | 256QAM  |
| 3560.01  | 637334 | 17.8710      | 17.9370 | 17.9140 | 17.8430 | 17.8300 | 19.3300        | 19.6800 | 19.5500 | 19.3700 | 19.4600 |
| 3625.02  | 641668 | 17.9140      | 17.9770 | 17.8280 | 17.9590 | 18.0250 | 18.6800        | 18.5800 | 18.6500 | 18.8600 | 19.0500 |
| 3690   | 646000 | 17.8460      | 17.8630 | 17.8560 | 17.6470 | 17.8540 | 18.7200        | 18.9200 | 18.9400 | 18.7100 | 18.5900 |

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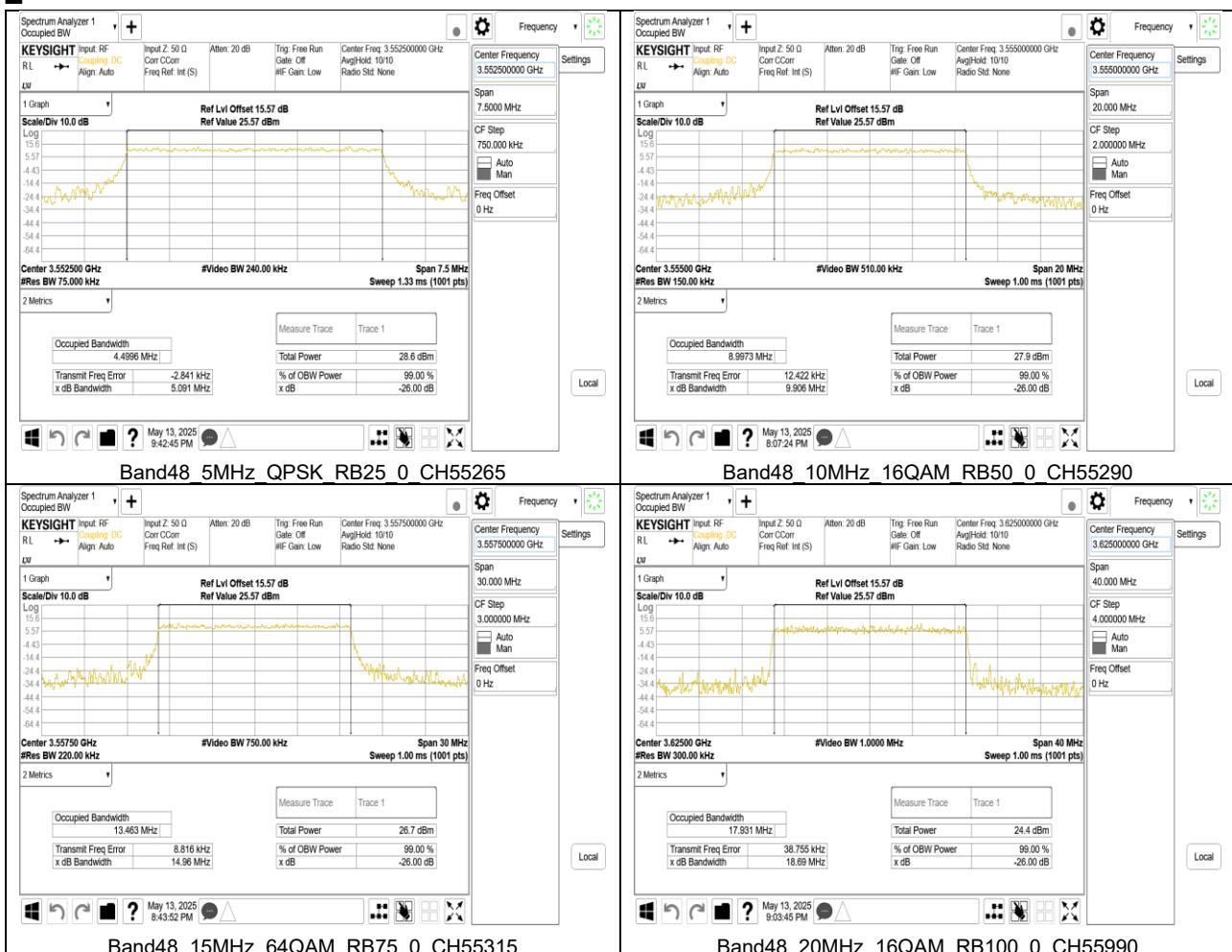
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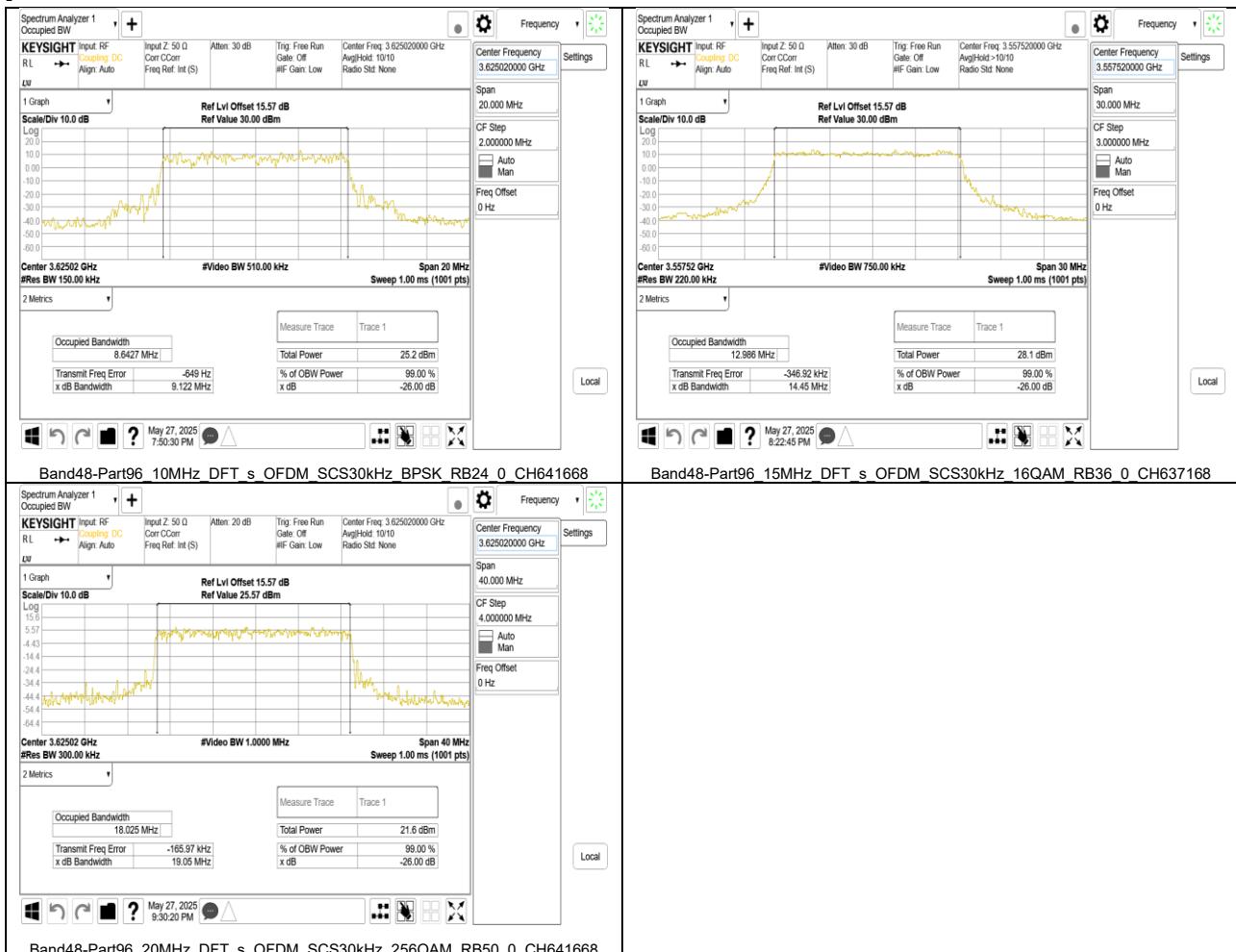
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## 10 OUT OF BAND EMISSION AT ANTENNA TERMINALS

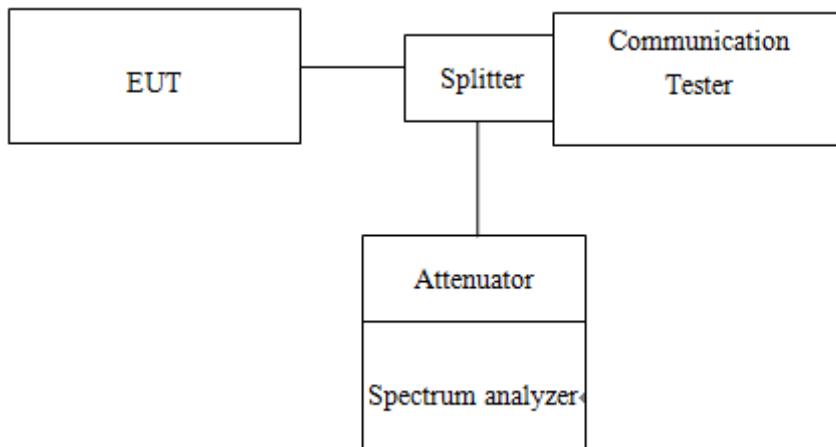
### 10.1 Standard Applicable

FCC Part 2.1051, Part 96.41 , C63.26 Clause 5.7.

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed  $-13$  dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed  $-25$  dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed  $-25$  dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed  $-40$  dBm/MHz.

### 10.2 Test SET-UP



### 10.3 Measurement Procedure

#### 10.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

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### 10.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW  $\geq 1\% \text{ EBW}$ .
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

### 10.4 Test Results:

Refer to next page for test plots.

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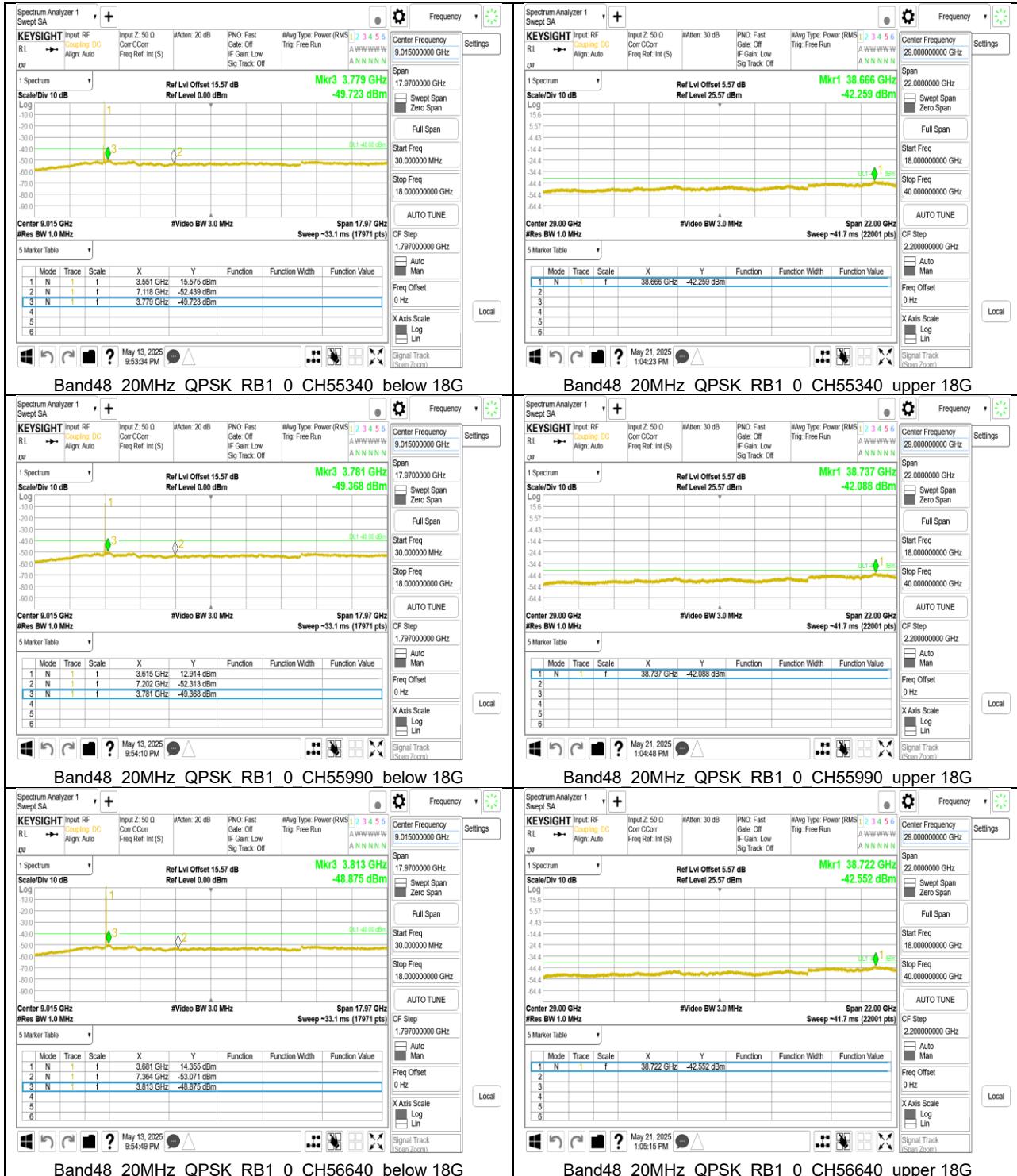
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## 10.4.1 Unwanted Emission

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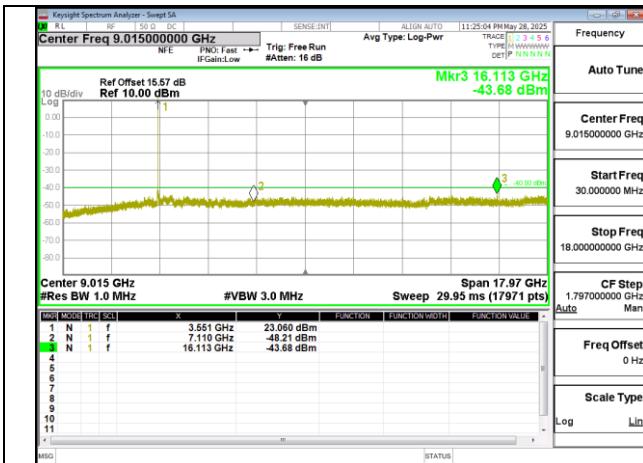
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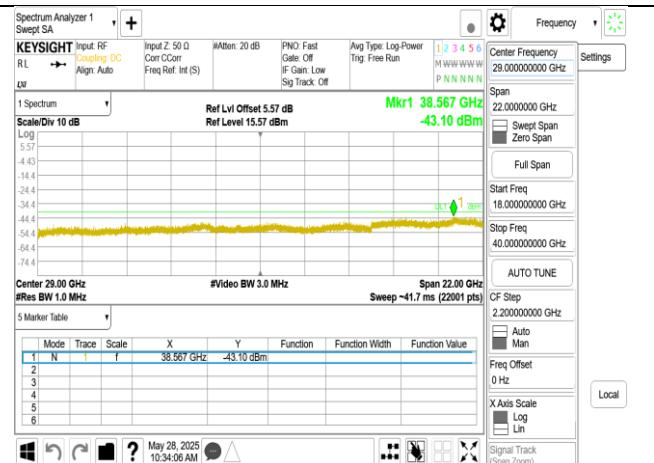
Band48-Part06 10MHz DFT s OFDM SCS30kHz BPSK RB1 1 CH637000 below 18G



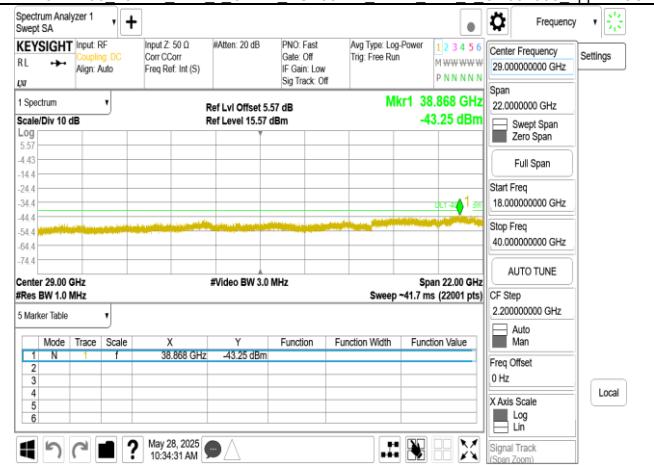
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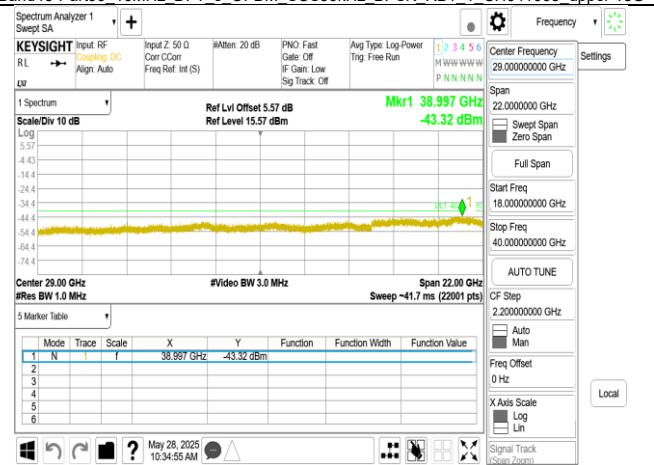
Band48-Part06 10MHz DFT s OFDM SCS30kHz BPSK RB1 1 CH646332 below 18G



Band48-Part06 10MHz DFT s OFDM SCS30kHz BPSK RB1 1 CH637000 upper 18G



Band48-Part06 10MHz DFT s OFDM SCS30kHz BPSK RB1 1 CH646332 upper 18G



Band48-Part06 10MHz DFT s OFDM SCS30kHz BPSK RB1 1 CH646332 upper 18G

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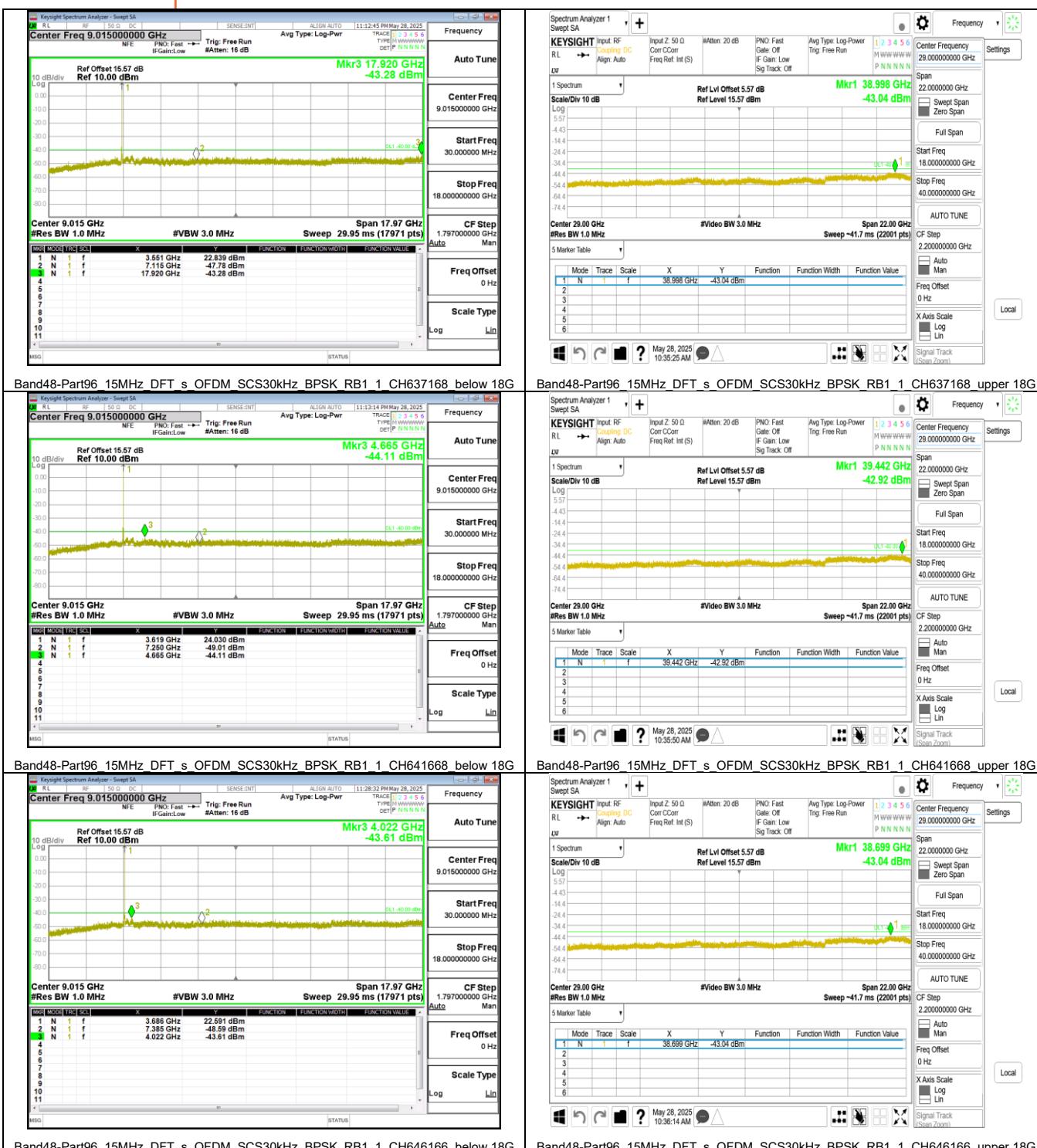
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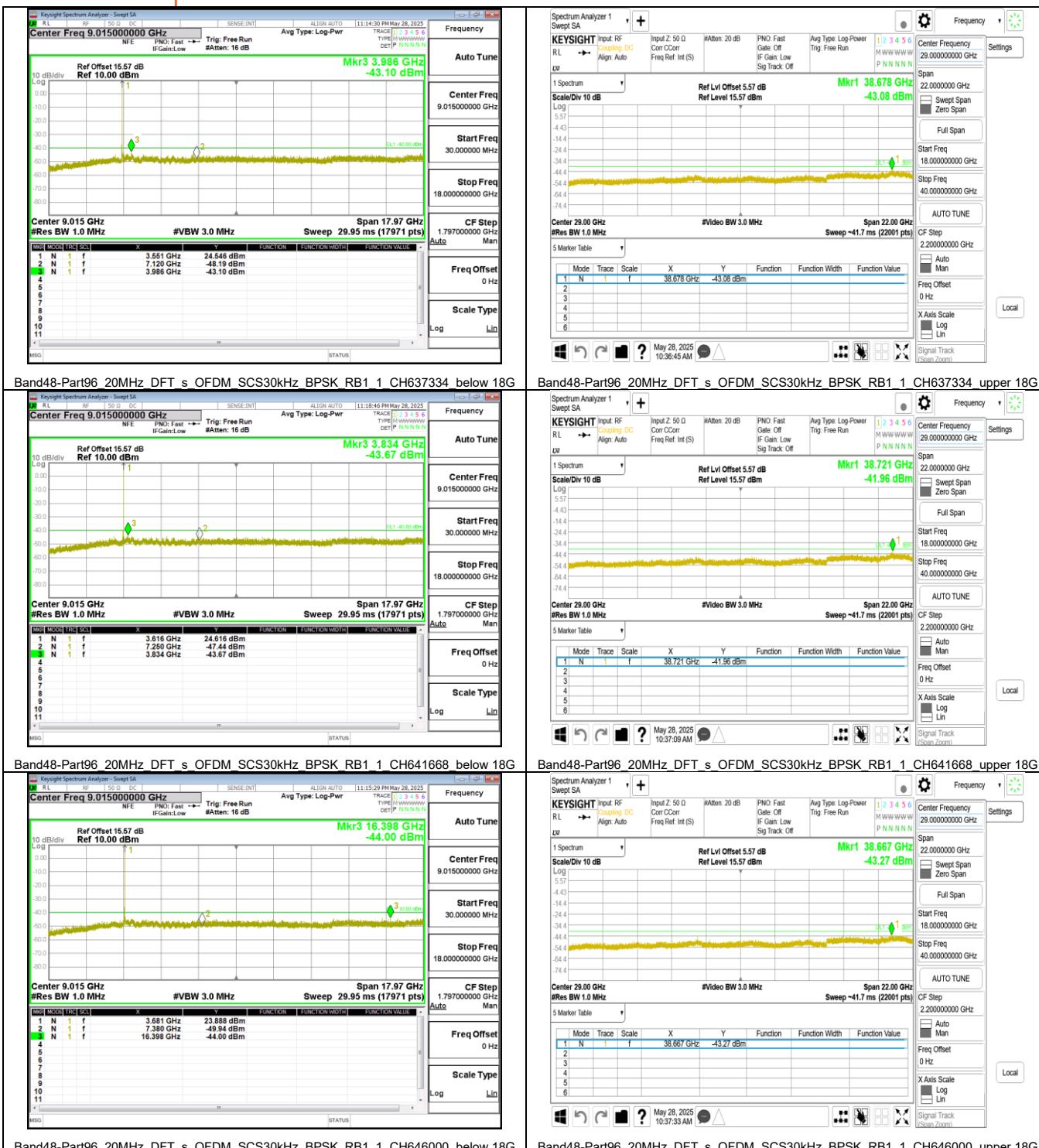
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## 10.4.2 Band Edge

LTE



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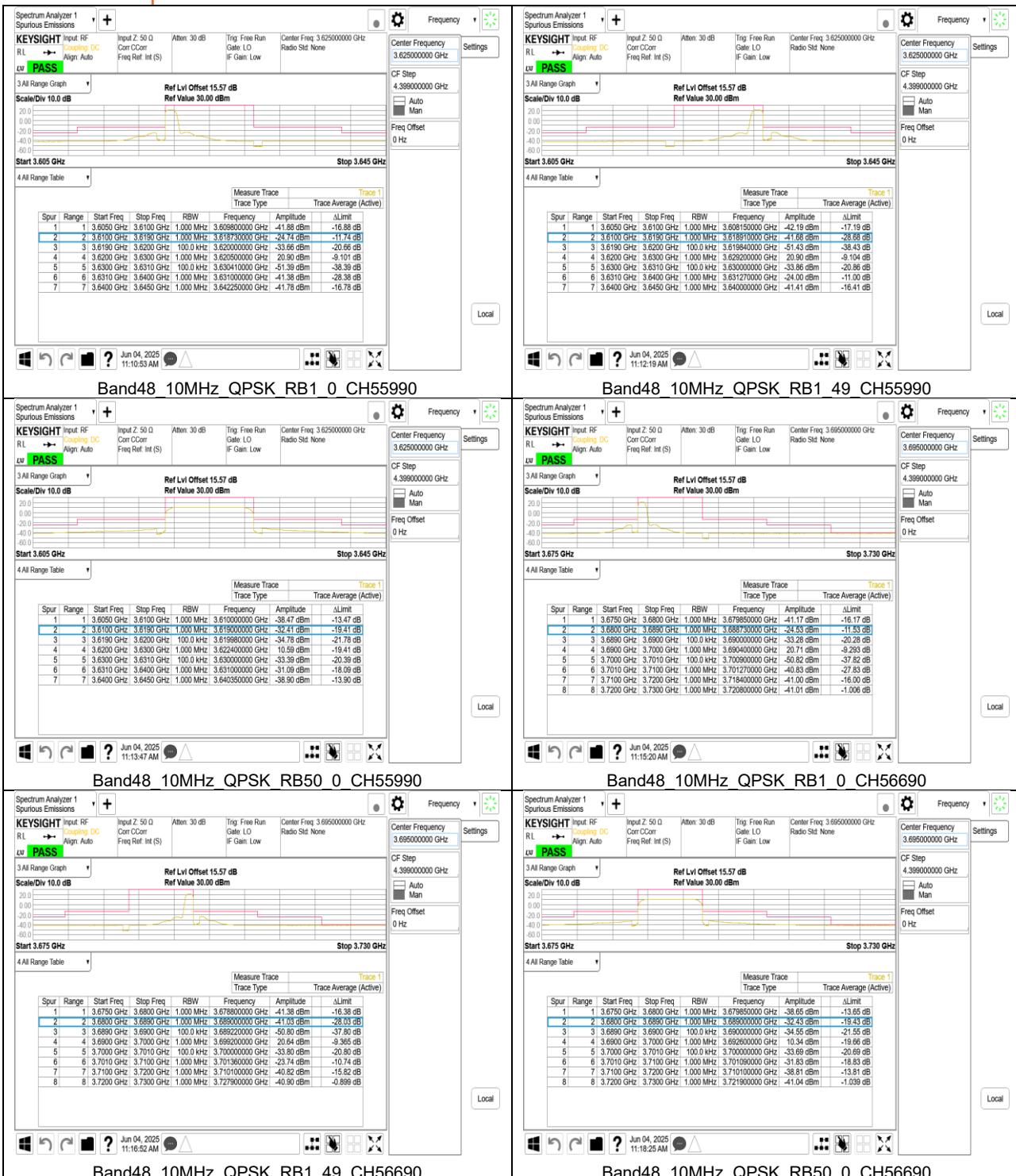
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