# FCC TEST REPORT

# (PART 96)

| | |
|---|---|
| Applicant: | Xiaomi Communications Co., Ltd. |
| Address: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |

| | |
|---|---|
| Manufacturer or Supplier: | Xiaomi Communications Co., Ltd. |
| Address: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |
| Product: | Mobile Phone |
| Brand Name: | POCO |
| Model Name: | 2409FPCC4G |
| FCC ID: | 2AFZZPCC4G |
| Date of tests: | Jul. 12, 2024 ~ Aug. 05, 2024 |

The tests have been carried out according to the requirements of the following standard:

☒ **47 CFR FCC Part 96**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| Prepared by Simon Wang<br>Engineer / Mobile Department | Approved by Luke Lu<br>Manager / Mobile Department |
|---|---|
| Simon Wang<br>Date: Aug. 05, 2024 | Luke Lu<br>Date: Aug. 05, 2024 |

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# RELEASE CONTROL RECORD

| ISSUE NO. | DESCRIPTION | DATE ISSUED |
|---|---|---|
| W7L-240618W002RF11 | Original release | Aug. 05, 2024 |

# 1 SUMMARY OF TEST RESULTS

| 47 CFR FCC PART 96 | | |
|---|---|---|
| **FCC CLAUSE** | **TEST ITEM** | **RESULT** |
| 2.1046<br>96.41(b) | Maximum Peak Output Power and Maximum EIRP | Compliance |
| 2.1051<br>96.41(e) | Conducted Band Edge | Compliance |
| 2.1049 | Occupied Bandwidth | Compliance |
| 2.1055 | Frequency Stability | Compliance |
| 2.1051<br>96.41(e) | Conducted Spurious Emissions | Compliance |
| 2.1053<br>96.41(e) | Radiated Spurious Emissions | Compliance |
| 96.41(g) | Peak-to-Average Power Ratio | Compliance |

**Note：**

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and 16QAM were observed as the worst mode to LTE bands respectively and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, and 64QAM modulations, and tests other than output power are performed only in worse-case QPSK and 16QAM modulations.
3. For Band Edge and ACLR: All BW combinations were tested.Combination pairs of the same BW are considered generally equivalent. The RB combinations were selected such that the signal is active closest to the band limit, as this is the worst case.
4. For Out of Band Emissions: All combination was tested. The highest power RB combination was selected as worst case.
5. This report refers to the data of W7L-240618W001RF11(FCC ID: 2AFZZRAD4G), the difference of 24094RAD4G and 2409FPCC4G is model, FCC ID, brand name and 2409FPCC4G remove one camera. This report verify power and RSE worse case. The verified power is similar as the original report. So this report only update the RSE worse case(LTE Band 48 20M CH55340), other data of spot-Check Please Refer to folder the naming (xiaomi O17p Spot-check).
6. List of the verified results (worse case) in the test item as follows：

| **Test Item / Report No.** | W7L-240618W001RF11 | W7L-240618W002RF11 |
|---|---|---|
| Radiated Emission Test | LTE Band 48 20M CH55340<br>Margin:-3.18Db | LTE Band 48 20M CH55340<br>Margin:-4.84Db |
| Remark: All validation data are within 3dB variation or better, the new result is better than the original data. | | |

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | UNCERTAINTY |
|---|---|
| Maximum Peak Output Power | ±2.06dB |
| Frequency Stability | ±76.97Hz |
| Radiated emissions (9KHz~30MHz) | ±2.68dB |
| Radiated emissions (30MHz~1GHz) | ±4.98dB |
| Radiated emissions (1GHz ~6GHz) | ±4.70dB |
| Radiated emissions (6GHz ~18GHz) | ±4.60dB |
| Radiated emissions (18GHz ~40GHz) | ±4.12dB |
| Conducted emissions | ±4.01dB |
| Occupied Channel Bandwidth | ±43.58KHz |
| Band Edge Measurements | ±4.70dB |
| Peak to average ratio | ±0.76dB |

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

## 1.2 TEST SITE AND INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| MXE EMI Receiver | KEYSIGHT | N9038A-544 | MY54450026 | Mar. 28,24 | Mar. 27,25 |
| EXA Signal Analyzer | KEYSIGHT | N9010A-544 | MY54510355 | May.10,24 | May.09,25 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 00173 | Sep.03,23 | Sep.02,24 |
| Bilog Antenna | ETS-LINDGREN | 3143B | 00161965 | Feb. 18,24 | Feb. 17,25 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00168692 | Feb. 18,24 | Feb. 17,25 |
| Horn Antenna (18GHz-40GHz) | N/A | QWH-SL-18-40-K-SG/QMS-00361 | 15433 | Sep.04, 23 | Sep.03, 24 |
| Radio Communication Analyzer | ANRITSU | MT8820C | 6201465426 | Feb. 14,24 | Feb. 13,25 |
| Signal Pre-Amplifier | EMSI | EMC 9135 | 980249 | May. 06,24 | May. 05,25 |
| Signal Pre-Amplifier | EMSI | EMC 012645B | 980257 | May.10,24 | May.09,25 |
| Signal Pre-Amplifier | EMSI | EMC 184045B | 980259 | Feb. 17,24 | Feb.16,25 |
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m | Euroshieldpn-CT0001143-1216 | Nov. 14,23 | Nov. 13,26 |
| Test Software | E3 | V 9.160323 | N/A | N/A | N/A |
| Test Software | JS1120 | 3.1.36 | N/A | N/A | N/A |
| 10dB Attenuator | JFW/USA | 50HF-010-SMA | 50HF-010-SMA | May. 06,24 | May. 05,25 |
| Power Meter | Anritsu | ML2495A | 1506002 | Feb. 14,24 | Feb. 13,25 |
| Power Sensor | Anritsu | MA2411B | 1339352 | Feb. 14,24 | Feb. 13,25 |
| Temperature Chamber | ESPEC | SH-242 | 93000855 | May. 06,24 | May. 05,25 |
| MXG Analog Microvave Signal Generator | KEYSIGHT | N5183A | MY50143024 | Feb. 14,24 | Feb. 13,25 |
| Base station R&S CMW500 | Rohde&Schwarz | CMW500 | 153085 | May.10,24 | May.09,25 |
| DC Source | Kikusui/JP | PMX18-5A | N/A | Aug. 11,23 | Aug. 10,24 |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.

3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

# 2 GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

| | | |
|---|---|---|
| **PRODUCT** | Mobile Phone | |
| **BRAND NAME** | POCO | |
| **MODEL NAME** | 2409FPCC4G | |
| **NOMINAL VOLTAGE** | 5/5~11Vdc(adapter or host equipment)<br>3.91Vdc (Li-ion, battery) | |
| **MODULATION TECHNOLOGY** | **LTE** | QPSK, 16QAM, 64QAM |
| **FREQUENCY RANGE** | **LTE Band 42<br>Channel Bandwidth: 5MHz** | 3552.5 MHz ~ 3597.5MHz |
| | **LTE Band 42<br>Channel Bandwidth: 10MHz** | 3555MHz ~ 3595MHz |
| | **LTE Band 42<br>Channel Bandwidth: 15MHz** | 3557.5MHz ~ 3592.5MHz |
| | **LTE Band 42<br>Channel Bandwidth: 20MHz** | 3560MHz ~ 3590MHz |
| | **LTE Band 48<br>Channel Bandwidth: 5MHz** | 3552.5MHz ~ 3697.5MHz |
| | **LTE Band 48<br>Channel Bandwidth: 10MHz** | 3555MHz ~ 3695MHz |
| | **LTE Band 48<br>Channel Bandwidth: 15MHz** | 3557.5MHz ~ 3692.5MHz |
| | **LTE Band 48<br>Channel Bandwidth: 20MHz** | 3560MHz ~ 3690MHz |
| **EMISSION DESIGNATOR** | **LTE Band 48<br>Channel Bandwidth: 5MHz** | QPSK: 4M52G7D |
| | | 16QAM: 4M49W7D |
| | **LTE Band 48<br>Channel Bandwidth: 10MHz** | QPSK: 8M99G7D |
| | | 16QAM: 8M97W7D |
| | **LTE Band 48<br>Channel Bandwidth: 15MHz** | QPSK: 13M5G7D |
| | | 16QAM: 13M5W7D |
| | **LTE Band 48<br>Channel Bandwidth: 20MHz** | QPSK: 18M0G7D |
| | | 16QAM: 18M0W7D |
| **MAX. EIRP POWER** | **LTE Band 42<br>Channel Bandwidth: 5MHz** | 246.04mW |
| | **LTE Band 42<br>Channel Bandwidth: 10MHz** | 245.47mW |
| | **LTE Band 42<br>Channel Bandwidth: 15MHz** | 246.6mW |
| | **LTE Band 42<br>Channel Bandwidth: 20MHz** | 254.1mW |
| | **LTE Band 48<br>Channel Bandwidth: 5MHz** | 229.61mW |

| | | |
|---|---|---|
| | **LTE Band 48<br>Channel Bandwidth: 10MHz** | 230.67mW |
| | **LTE Band 48<br>Channel Bandwidth: 15MHz** | 231.74mW |
| | **LTE Band 48<br>Channel Bandwidth: 20MHz** | 233.88mW |
| **ANTENNA GAIN** | ANT 2(UP):<br>PIFA Antenna with -2dBi gain for LTE B42<br>PIFA Antenna with -2dBi gain for LTE B48<br>ANT 3(UP):<br>PIFA Antenna with -2.1dBi gain for LTE B42<br>PIFA Antenna with -5.7dBi gain for LTE B48<br>ANT 5(UP):<br>PIFA Antenna with -0.2dBi gain for LTE B42<br>PIFA Antenna with -0.2dBi gain for LTE B48<br>ANT 7(UP):<br>PIFA Antenna with -0.1dBi gain for LTE B42<br>PIFA Antenna with -0.1dBi gain for LTE B48 | |
| **HW Version** | 13510O17P | |
| **SW Version** | Xiaomi HyperOS 1.0 | |
| **IMEI** | 861781070039865 | |
| **I/O PORTS** | Refer to user's manual | |
| **DATA CABLE** | USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter<br>USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter | |
| **EXTREME TEMPERATURE** | 0-40 ℃ | |
| **EXTREME VOLTAGE** | 3.7V - 4.3V | |

**NOTE**:

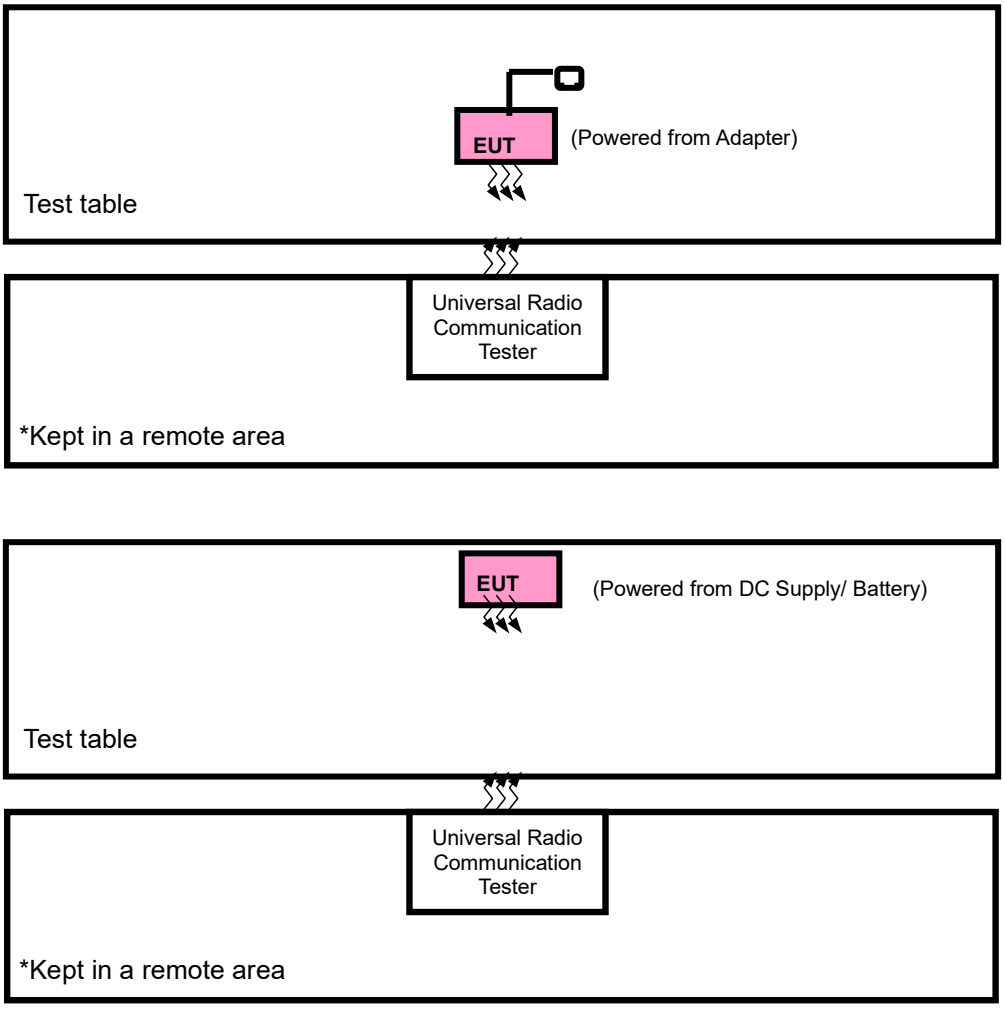
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Physically, the EUT provides two completed transmitter and two receiver.

| MODULATION MODE | TX FUNCTION |
|---|---|
| LTE | SISO 2TX |

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION TEST



## 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|---|---|---|---|---|---|
| 1 | DC source | LONG WEI | PS-6403D | 010934269 | N/A |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|---|---|
| 1 | DC Line: Unshielded, Detachable 1.8m |

## 2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION |
|---|---|
| A | EUT + Adapter with LTE link |
| B | EUT + DC Supply with LTE link |

**LTE band 42**

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|---|---|---|---|---|---|---|
| A | EIRP | 43115 to 43565 | 43115 (3552.5MHz), 43340 (3575.0MHz), 43565 (3597.5MHz) | 5MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
| | | 43140 to 43540 | 43140 (3555.0MHz), 43340 (3575.0MHz), 43540 (3595.0MHz) | 10MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
| | | 43165 to 43515 | 43165 (3557.50MHz), 43340 (3575.0MHz), 43515 (3592.5MHz) | 15MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
| | | 43190 to 43490 | 43190 (3560.0MHz), 43340 (3575.0MHz), 43490 (3590.0MHz) | 20MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |

**Note:** 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 42 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48

**LTE BAND 48 MODE**

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|---|---|---|---|---|---|---|
| A | EIRP | 55265 to 56715 | 55265, 55990, 56715 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
| | | 55290 to 56690 | 55290, 55990, 56690 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB / 0RB Offset |
| | | 55315 to 56665 | 55315, 55990, 56665 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
| | | 55340 to 56640 | 55340, 55990, 56640 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB / 0 RB Offset |
| B | FREQUENCY STABILITY | 55290 to 56690 | 55290, 55990, 56690 | 10MHz | QPSK, 16QAM | 50 RB / 0 RB Offset |
| A | OCCUPIED BANDWIDTH | 55265 to 56715 | 55265, 55990, 56715 | 5MHz | QPSK, 16QAM | 25 RB / 0 RB Offset |
| | | 55290 to 56690 | 55290, 55990, 56690 | 10MHz | QPSK, 16QAM | 50 RB / 0 RB Offset |
| | | 55315 to 56665 | 55315, 55990, 56665 | 15MHz | QPSK, 16QAM | 75 RB / 0 RB Offset |
| | | 55340 to 56640 | 55340, 55990, 56640 | 20MHz | QPSK, 16QAM | 100 RB / 0 RB Offset |
| A | PEAK TO AVERAGE RATIO | 55340 to 56640 | 55340, 55990, 56640 | 20MHz | QPSK, 16QAM | 1 RB / 0 RB Offset<br>100 RB / 0 RB Offset |
| A | BAND EDGE | 55265 to 56715 | 55265 | 5MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| | | | | | | 25 RB / 0 RB Offset |
| | | | 56715 | 5MHz | QPSK, 16QAM | 1 RB / 24 RB Offset |
| | | | | | | 25 RB / 0 RB Offset |
| | | 55290 to 56690 | 55290 | 10MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| | | | | | | 50 RB / 0 RB Offset |
| | | | 56690 | 10MHz | QPSK, 16QAM | 1 RB / 49 RB Offset |
| | | | | | | 50 RB / 0 RB Offset |
| | | 55315 to 56665 | 55315 | 15MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| | | | | | | 75 RB / 0 RB Offset |
| | | | 56665 | 15MHz | QPSK, 16QAM | 1 RB / 74 RB Offset |
| | | | | | | 75 RB / 0 RB Offset |
| | | 55340 to 56640 | 55340 | 20MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| | | | | | | 100 RB / 0 RB Offset |
| | | | 56640 | 20MHz | QPSK, 16QAM | 1 RB / 99 RB Offset |
| | | | | | | 100 RB / 0 RB Offset |
| A | CONDUCTED EMISSION | 55265 to 56715 | 55265, 55990, 56715 | 5MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| | | 55290 to 56690 | 55290, 55990, 56690 | 10MHz | QPSK, 16QAM | 1 RB / 0RB Offset |
| | | 55315 to 56665 | 55315, 55990, 56665 | 15MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 55340 to 56640 | 55340, 55990, 56640 | 20MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| A | RADIATED EMISSION | 55265 to 56715 | 55990 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | | 55290 to 56690 | 55990 | 10MHz | QPSK | 1 RB / 0RB Offset |
| | | 55315 to 56665 | 55990 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | | 55340 to 56640 | 55340, 55990, 56640 | 20MHz | QPSK | 1 RB / 0 RB Offset |
| A | ACLR | 55265 to 56715 | 55265 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | | | | | | 25 RB / 0 RB Offset |
| | | | 56715 | 5MHz | QPSK | 1 RB / 24 RB Offset |
| | | | | | | 25 RB / 0 RB Offset |
| | | 55290 to 56690 | 55290 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | | | | | | 50 RB / 0 RB Offset |
| | | | 56690 | 10MHz | QPSK | 1 RB / 49 RB Offset |
| | | | | | | 50 RB / 0 RB Offset |
| | | 55315 to 56665 | 55315 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | | | | | | 75 RB / 0 RB Offset |
| | | | 56665 | 15MHz | QPSK | 1 RB / 74 RB Offset |
| | | | | | | 75 RB / 0 RB Offset |
| | | 55340 to 56640 | 55340 | 20MHz | QPSK | 1 RB / 0 RB Offset |
| | | | | | | 100 RB / 0 RB Offset |
| | | | 56640 | 20MHz | QPSK | 1 RB / 99 RB Offset |
| | | | | | | 100 RB / 0 RB Offset |

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

## TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|---|---|---|---|
| ERP&EIRP | 23deg. C, 70%RH | DC 5/5~11V By Adapter | Jace Hu |
| FREQUENCY STABILITY | 23deg. C, 70%RH | DC 3.7/3.91/4.3 By DC Source | James Fu |
| OCCUPIED BANDWIDTH | 23deg. C, 70%RH | DC 5/5~11V By Adapter | James Fu |
| BAND EDGE | 23deg. C, 70%RH | DC 5/5~11V By Adapter | James Fu |
| CONDUCTED EMISSION | 23deg. C, 70%RH | DC 5/5~11V By Adapter | James Fu |
| RADIATED EMISSION | 23deg. C, 70%RH | DC 5/5~11V By Adapter | Jace Hu |
| PEAK TO AVERAGE RATIO | 23deg. C, 70%RH | DC 5/5~11V By Adapter | James Fu |

## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 96**

**KDB 971168 D02 Power Meas License Digital Systems v02r02**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

**NOTE:** All test items have been performed and recorded as per the above standards.

# 3 TEST TYPES AND RESULTS

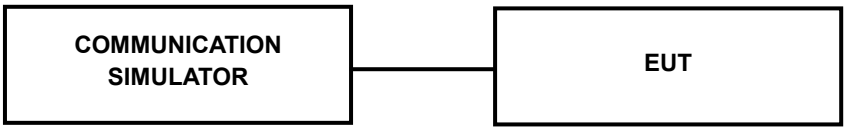
## 3.1 MAXIMUM EIRP MEASUREMENT

### 3.1.1 LIMITS OF MAXIMUM EIRP MEASUREMENT

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

### 3.1.2 TEST SETUP

**CONDUCTED POWER MEASUREMENT:**




For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 3.1.3 TEST PROCEDURES

**EIRP MEASUREMENT:**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = $P_{Meas} + G_T – L_C$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as $P_{Meas}$, typically dBW or dBm);

$P_{Meas}$ = measured transmitter output power or PSD, in dBm or dBW;

$G_T$ = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_C$ = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

**CONDUCTED POWER MEASUREMENT:**

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

## 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

## 3.1.5 TEST RESULTS

**CONDUCTED OUTPUT POWER (dBm)**

**ANT 2(UP):**

LTE band 42:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43115) Frequency (3552.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43565) Frequency (3597.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 5 | QPSK | 1 | 0 | 20.84 | 20.78 | 20.64 |
| | | 1 | 12 | 20.86 | 20.91 | 20.76 |
| | | 1 | 24 | 20.75 | 20.67 | 20.58 |
| | | 12 | 0 | 19.93 | 19.97 | 19.71 |
| | | 12 | 6 | 19.96 | 19.95 | 19.68 |
| | | 12 | 13 | 20.00 | 19.78 | 19.70 |
| | | 25 | 0 | 19.89 | 19.82 | 19.74 |
| | 16QAM | 1 | 0 | 20.01 | 20.04 | 19.77 |
| | | 1 | 12 | 19.90 | 19.92 | 19.87 |
| | | 1 | 24 | 19.95 | 19.75 | 19.72 |
| | | 12 | 0 | 18.84 | 18.94 | 18.73 |
| | | 12 | 6 | 18.94 | 18.84 | 18.87 |
| | | 12 | 13 | 18.92 | 18.80 | 18.73 |
| | | 25 | 0 | 18.99 | 18.88 | 18.73 |
| | 64QAM | 1 | 0 | 18.57 | 18.46 | 18.32 |
| | | 1 | 12 | 18.57 | 18.54 | 18.33 |
| | | 1 | 24 | 18.39 | 18.20 | 18.35 |
| | | 12 | 0 | 17.91 | 17.97 | 17.68 |
| | | 12 | 6 | 17.81 | 17.90 | 17.60 |
| | | 12 | 13 | 17.93 | 17.78 | 17.62 |
| | | 25 | 0 | 17.90 | 17.78 | 17.66 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43140) Frequency (3555)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43540) Frequency (3595)MHz |
|---|---|---|---|---|---|---|
| 42/ 10 | QPSK | 1 | 0 | 20.95 | 20.76 | 20.73 |
| | | 1 | 24 | 20.97 | 20.89 | 20.72 |
| | | 1 | 49 | 20.77 | 20.64 | 20.61 |
| | | 25 | 0 | 20.00 | 19.98 | 19.68 |
| | | 25 | 12 | 19.93 | 19.83 | 19.70 |
| | | 25 | 25 | 19.89 | 19.74 | 19.69 |
| | | 50 | 0 | 19.87 | 19.90 | 19.67 |
| | 16QAM | 1 | 0 | 19.93 | 19.93 | 19.82 |
| | | 1 | 24 | 19.93 | 19.88 | 19.81 |
| | | 1 | 49 | 19.86 | 19.85 | 19.63 |
| | | 25 | 0 | 18.79 | 18.90 | 18.69 |
| | | 25 | 12 | 18.81 | 18.88 | 18.75 |
| | | 25 | 25 | 18.91 | 18.84 | 18.73 |
| | | 50 | 0 | 18.92 | 18.87 | 18.72 |
| | 64QAM | 1 | 0 | 18.58 | 18.51 | 18.32 |
| | | 1 | 24 | 18.58 | 18.56 | 18.38 |
| | | 1 | 49 | 18.51 | 18.16 | 18.39 |
| | | 25 | 0 | 17.93 | 17.86 | 17.70 |
| | | 25 | 12 | 17.79 | 17.81 | 17.71 |
| | | 25 | 25 | 17.85 | 17.80 | 17.58 |
| | | 50 | 0 | 17.81 | 17.81 | 17.76 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43165) Frequency (3557.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43515) Frequency (3592.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 15 | QPSK | 1 | 0 | 20.87 | 20.72 | 20.64 |
| | | 1 | 37 | 20.83 | 20.79 | 20.79 |
| | | 1 | 74 | 20.87 | 20.60 | 20.49 |
| | | 36 | 0 | 19.98 | 19.93 | 19.69 |
| | | 36 | 19 | 19.98 | 19.91 | 19.74 |
| | | 36 | 39 | 19.95 | 19.78 | 19.65 |
| | | 75 | 0 | 19.84 | 19.82 | 19.69 |
| | 16QAM | 1 | 0 | 19.96 | 19.95 | 19.84 |
| | | 1 | 37 | 19.97 | 19.89 | 19.91 |
| | | 1 | 74 | 19.98 | 19.85 | 19.69 |
| | | 36 | 0 | 18.81 | 18.94 | 18.69 |
| | | 36 | 19 | 18.84 | 18.90 | 18.79 |
| | | 36 | 39 | 19.02 | 18.84 | 18.62 |
| | | 75 | 0 | 18.95 | 18.93 | 18.70 |
| | 64QAM | 1 | 0 | 18.50 | 18.43 | 18.41 |
| | | 1 | 37 | 18.52 | 18.49 | 18.39 |
| | | 1 | 74 | 18.40 | 18.26 | 18.39 |
| | | 36 | 0 | 17.92 | 17.90 | 17.72 |
| | | 36 | 19 | 17.87 | 17.93 | 17.59 |
| | | 36 | 39 | 17.82 | 17.85 | 17.63 |
| | | 75 | 0 | 17.94 | 17.80 | 17.71 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43190) Frequency (3560)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43490) Frequency (3590)MHz |
|---|---|---|---|---|---|---|
| 42/ 20 | QPSK | 1 | 0 | 20.96 | 20.87 | 20.77 |
| | | 1 | 50 | **20.98** | 20.93 | 20.82 |
| | | 1 | 99 | 20.88 | 20.74 | 20.62 |
| | | 50 | 0 | 20.02 | 19.99 | 19.82 |
| | | 50 | 25 | 20.00 | 19.98 | 19.81 |
| | | 50 | 50 | 20.01 | 19.88 | 19.72 |
| | | 100 | 0 | 19.93 | 19.91 | 19.77 |
| | 16QAM | 1 | 0 | 20.03 | 20.05 | 19.90 |
| | | 1 | 50 | 19.98 | 19.95 | 19.96 |
| | | 1 | 99 | 20.00 | 19.86 | 19.74 |
| | | 50 | 0 | 18.94 | 18.96 | 18.79 |
| | | 50 | 25 | 18.95 | 18.94 | 18.88 |
| | | 50 | 50 | 19.05 | 18.91 | 18.76 |
| | | 100 | 0 | 19.01 | 18.94 | 18.81 |
| | 64QAM | 1 | 0 | 18.60 | 18.52 | 18.47 |
| | | 1 | 50 | 18.59 | 18.59 | 18.41 |
| | | 1 | 99 | 18.52 | 18.27 | 18.41 |
| | | 50 | 0 | 17.94 | 17.98 | 17.82 |
| | | 50 | 25 | 17.93 | 17.94 | 17.73 |
| | | 50 | 50 | 17.95 | 17.87 | 17.73 |
| | | 100 | 0 | 17.96 | 17.89 | 17.80 |

LTE band 48:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55265) Frequency (3552.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56715) Frequency (3697.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 5 | QPSK | 1 | 0 | 20.89 | 20.56 | 20.21 |
| | | 1 | 12 | 20.88 | 20.51 | 20.39 |
| | | 1 | 24 | 20.81 | 20.41 | 20.16 |
| | | 12 | 0 | 19.91 | 19.56 | 19.41 |
| | | 12 | 6 | 19.89 | 19.67 | 19.39 |
| | | 12 | 13 | 19.89 | 19.66 | 19.28 |
| | | 25 | 0 | 19.93 | 19.50 | 19.22 |
| | 16QAM | 1 | 0 | 19.92 | 19.68 | 19.25 |
| | | 1 | 12 | 19.91 | 19.73 | 19.21 |
| | | 1 | 24 | 19.86 | 19.57 | 19.20 |
| | | 12 | 0 | 18.83 | 18.54 | 18.42 |
| | | 12 | 6 | 18.80 | 18.51 | 18.40 |
| | | 12 | 13 | 18.88 | 18.64 | 18.23 |
| | | 25 | 0 | 18.81 | 18.61 | 18.38 |
| | 64QAM | 1 | 0 | 18.41 | 18.26 | 18.41 |
| | | 1 | 12 | 18.68 | 18.30 | 18.24 |
| | | 1 | 24 | 18.51 | 18.17 | 18.11 |
| | | 12 | 0 | 17.95 | 17.55 | 17.34 |
| | | 12 | 6 | 17.87 | 17.58 | 17.28 |
| | | 12 | 13 | 17.83 | 17.45 | 17.23 |
| | | 25 | 0 | 17.86 | 17.53 | 17.19 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55290) Frequency (3555)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56690) Frequency (3695)MHz |
|---|---|---|---|---|---|---|
| 48/ 10 | QPSK | 1 | 0 | 20.80 | 20.78 | 20.31 |
| | | 1 | 24 | 20.85 | 20.84 | 20.27 |
| | | 1 | 49 | 20.81 | 20.86 | 20.09 |
| | | 25 | 0 | 19.90 | 19.85 | 19.36 |
| | | 25 | 12 | 19.84 | 19.92 | 19.51 |
| | | 25 | 25 | 19.81 | 19.82 | 19.32 |
| | | 50 | 0 | 19.87 | 19.81 | 19.29 |
| | 16QAM | 1 | 0 | 19.88 | 19.98 | 19.34 |
| | | 1 | 24 | 19.98 | 19.95 | 19.34 |
| | | 1 | 49 | 19.88 | 19.86 | 19.19 |
| | | 25 | 0 | 18.95 | 18.90 | 18.51 |
| | | 25 | 12 | 18.85 | 18.84 | 18.34 |
| | | 25 | 25 | 18.87 | 18.86 | 18.32 |
| | | 50 | 0 | 18.82 | 18.83 | 18.30 |
| | 64QAM | 1 | 0 | 18.46 | 18.55 | 18.46 |
| | | 1 | 24 | 18.59 | 18.60 | 18.23 |
| | | 1 | 49 | 18.45 | 18.48 | 18.14 |
| | | 25 | 0 | 17.94 | 17.97 | 17.43 |
| | | 25 | 12 | 18.00 | 17.87 | 17.34 |
| | | 25 | 25 | 17.85 | 17.73 | 17.21 |
| | | 50 | 0 | 17.86 | 17.94 | 17.19 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55315) Frequency (3557.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56665) Frequency (3692.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 15 | QPSK | 1 | 0 | 20.77 | 20.57 | 20.23 |
| | | 1 | 37 | 20.87 | 20.63 | 20.30 |
| | | 1 | 74 | 20.86 | 20.39 | 20.22 |
| | | 36 | 0 | 19.93 | 19.48 | 19.35 |
| | | 36 | 19 | 19.96 | 19.69 | 19.47 |
| | | 36 | 39 | 19.89 | 19.59 | 19.31 |
| | | 75 | 0 | 19.89 | 19.51 | 19.19 |
| | 16QAM | 1 | 0 | 20.02 | 19.68 | 19.33 |
| | | 1 | 37 | 19.90 | 19.68 | 19.24 |
| | | 1 | 74 | 19.80 | 19.62 | 19.25 |
| | | 36 | 0 | 18.94 | 18.56 | 18.42 |
| | | 36 | 19 | 18.80 | 18.51 | 18.37 |
| | | 36 | 39 | 18.88 | 18.70 | 18.27 |
| | | 75 | 0 | 18.89 | 18.59 | 18.32 |
| | 64QAM | 1 | 0 | 18.52 | 18.31 | 18.37 |
| | | 1 | 37 | 18.66 | 18.25 | 18.26 |
| | | 1 | 74 | 18.39 | 18.17 | 18.06 |
| | | 36 | 0 | 17.96 | 17.65 | 17.36 |
| | | 36 | 19 | 17.95 | 17.60 | 17.31 |
| | | 36 | 39 | 17.83 | 17.45 | 17.24 |
| | | 75 | 0 | 17.93 | 17.49 | 17.16 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55340) Frequency (3560)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56640) Frequency (3690)MHz |
|---|---|---|---|---|---|---|
| 48/ 20 | QPSK | 1 | 0 | 20.91 | 20.77 | 20.35 |
| | | 1 | 50 | **20.95** | 20.87 | 20.42 |
| | | 1 | 99 | 20.89 | 20.74 | 20.23 |
| | | 50 | 0 | 19.94 | 19.89 | 19.43 |
| | | 50 | 25 | 19.98 | 19.90 | 19.53 |
| | | 50 | 50 | 19.91 | 19.87 | 19.40 |
| | | 100 | 0 | 19.95 | 19.91 | 19.33 |
| | 16QAM | 1 | 0 | 20.03 | 19.93 | 19.37 |
| | | 1 | 50 | 20.00 | 19.94 | 19.36 |
| | | 1 | 99 | 19.91 | 19.87 | 19.27 |
| | | 50 | 0 | 18.98 | 18.88 | 18.53 |
| | | 50 | 25 | 18.95 | 18.85 | 18.48 |
| | | 50 | 50 | 18.99 | 18.94 | 18.37 |
| | | 100 | 0 | 18.90 | 18.89 | 18.43 |
| | 64QAM | 1 | 0 | 18.56 | 18.53 | 18.49 |
| | | 1 | 50 | 18.69 | 18.59 | 18.37 |
| | | 1 | 99 | 18.53 | 18.38 | 18.20 |
| | | 50 | 0 | 17.99 | 17.85 | 17.47 |
| | | 50 | 25 | 18.02 | 17.94 | 17.40 |
| | | 50 | 50 | 17.86 | 17.77 | 17.29 |
| | | 100 | 0 | 17.98 | 17.96 | 17.29 |

**ANT 3(UP):**

LTE band 42:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43115) Frequency (3552.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43565) Frequency (3597.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 5 | QPSK | 1 | 0 | 18.20 | 18.25 | 18.21 |
| | | 1 | 12 | 18.34 | 18.29 | 18.35 |
| | | 1 | 24 | 18.13 | 18.10 | 18.35 |
| | | 12 | 0 | 17.47 | 17.23 | 17.18 |
| | | 12 | 6 | 17.27 | 17.24 | 17.33 |
| | | 12 | 13 | 17.22 | 17.34 | 17.19 |
| | | 25 | 0 | 17.31 | 17.32 | 17.33 |
| | 16QAM | 1 | 0 | 17.20 | 17.29 | 17.24 |
| | | 1 | 12 | 17.38 | 17.28 | 17.34 |
| | | 1 | 24 | 17.16 | 17.27 | 17.29 |
| | | 12 | 0 | 16.32 | 16.29 | 16.15 |
| | | 12 | 6 | 16.46 | 16.21 | 16.15 |
| | | 12 | 13 | 16.34 | 16.22 | 16.33 |
| | | 25 | 0 | 16.42 | 16.32 | 16.44 |
| | 64QAM | 1 | 0 | 16.25 | 16.20 | 16.10 |
| | | 1 | 12 | 16.26 | 16.34 | 16.33 |
| | | 1 | 24 | 16.20 | 16.32 | 16.29 |
| | | 12 | 0 | 15.32 | 15.25 | 15.14 |
| | | 12 | 6 | 15.25 | 15.30 | 15.21 |
| | | 12 | 13 | 15.24 | 15.11 | 15.20 |
| | | 25 | 0 | 15.32 | 15.21 | 15.34 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43140) Frequency (3555)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43540) Frequency (3595)MHz |
|---|---|---|---|---|---|---|
| 42/ 10 | QPSK | 1 | 0 | 18.23 | 18.36 | 18.24 |
| | | 1 | 24 | 18.40 | 18.33 | 18.29 |
| | | 1 | 49 | 18.16 | 18.14 | 18.33 |
| | | 25 | 0 | 17.40 | 17.35 | 17.20 |
| | | 25 | 12 | 17.38 | 17.28 | 17.21 |
| | | 25 | 25 | 17.23 | 17.34 | 17.15 |
| | | 50 | 0 | 17.43 | 17.28 | 17.33 |
| | 16QAM | 1 | 0 | 17.27 | 17.31 | 17.24 |
| | | 1 | 24 | 17.44 | 17.26 | 17.39 |
| | | 1 | 49 | 17.24 | 17.32 | 17.35 |
| | | 25 | 0 | 16.31 | 16.31 | 16.25 |
| | | 25 | 12 | 16.36 | 16.30 | 16.25 |
| | | 25 | 25 | 16.28 | 16.31 | 16.38 |
| | | 50 | 0 | 16.31 | 16.34 | 16.34 |
| | 64QAM | 1 | 0 | 16.25 | 16.21 | 16.10 |
| | | 1 | 24 | 16.19 | 16.36 | 16.28 |
| | | 1 | 49 | 16.27 | 16.37 | 16.16 |
| | | 25 | 0 | 15.29 | 15.19 | 15.20 |
| | | 25 | 12 | 15.22 | 15.29 | 15.18 |
| | | 25 | 25 | 15.27 | 15.19 | 15.14 |
| | | 50 | 0 | 15.32 | 15.30 | 15.28 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43165) Frequency (3557.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43515) Frequency (3592.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 15 | QPSK | 1 | 0 | 18.34 | 18.36 | 18.18 |
| | | 1 | 37 | 18.33 | 18.23 | 18.34 |
| | | 1 | 74 | 18.18 | 18.16 | 18.35 |
| | | 36 | 0 | 17.48 | 17.34 | 17.28 |
| | | 36 | 19 | 17.26 | 17.19 | 17.34 |
| | | 36 | 39 | 17.22 | 17.30 | 17.23 |
| | | 75 | 0 | 17.32 | 17.33 | 17.32 |
| | 16QAM | 1 | 0 | 17.33 | 17.29 | 17.19 |
| | | 1 | 37 | 17.40 | 17.38 | 17.42 |
| | | 1 | 74 | 17.16 | 17.27 | 17.34 |
| | | 36 | 0 | 16.29 | 16.29 | 16.24 |
| | | 36 | 19 | 16.45 | 16.32 | 16.20 |
| | | 36 | 39 | 16.37 | 16.30 | 16.30 |
| | | 75 | 0 | 16.38 | 16.36 | 16.36 |
| | 64QAM | 1 | 0 | 16.21 | 16.28 | 16.08 |
| | | 1 | 37 | 16.26 | 16.25 | 16.21 |
| | | 1 | 74 | 16.19 | 16.26 | 16.23 |
| | | 36 | 0 | 15.32 | 15.15 | 15.16 |
| | | 36 | 19 | 15.36 | 15.30 | 15.30 |
| | | 36 | 39 | 15.35 | 15.10 | 15.18 |
| | | 75 | 0 | 15.36 | 15.24 | 15.24 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43190) Frequency (3560)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43490) Frequency (3590)MHz |
|---|---|---|---|---|---|---|
| 42/ 20 | QPSK | 1 | 0 | 18.35 | 18.39 | 18.25 |
| | | 1 | 50 | **18.46** | 18.38 | 18.40 |
| | | 1 | 99 | 18.23 | 18.23 | 18.38 |
| | | 50 | 0 | 17.49 | 17.38 | 17.33 |
| | | 50 | 25 | 17.41 | 17.29 | 17.36 |
| | | 50 | 50 | 17.34 | 17.37 | 17.28 |
| | | 100 | 0 | 17.45 | 17.34 | 17.37 |
| | 16QAM | 1 | 0 | 17.35 | 17.42 | 17.28 |
| | | 1 | 50 | 17.49 | 17.41 | 17.43 |
| | | 1 | 99 | 17.29 | 17.39 | 17.39 |
| | | 50 | 0 | 16.42 | 16.41 | 16.28 |
| | | 50 | 25 | 16.48 | 16.35 | 16.27 |
| | | 50 | 50 | 16.42 | 16.32 | 16.42 |
| | | 100 | 0 | 16.46 | 16.37 | 16.46 |
| | 64QAM | 1 | 0 | 16.35 | 16.32 | 16.22 |
| | | 1 | 50 | 16.30 | 16.38 | 16.36 |
| | | 1 | 99 | 16.30 | 16.39 | 16.31 |
| | | 50 | 0 | 15.42 | 15.29 | 15.21 |
| | | 50 | 25 | 15.37 | 15.35 | 15.32 |
| | | 50 | 50 | 15.36 | 15.23 | 15.26 |
| | | 100 | 0 | 15.40 | 15.33 | 15.35 |

LTE band 48:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55265) Frequency (3552.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56715) Frequency (3697.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 5 | QPSK | 1 | 0 | 18.14 | 18.24 | 18.16 |
| | | 1 | 12 | 18.23 | 18.27 | 18.43 |
| | | 1 | 24 | 18.24 | 18.21 | 18.41 |
| | | 12 | 0 | 17.07 | 17.16 | 17.22 |
| | | 12 | 6 | 17.19 | 17.34 | 17.34 |
| | | 12 | 13 | 17.18 | 17.19 | 17.37 |
| | | 25 | 0 | 17.18 | 17.32 | 17.23 |
| | 16QAM | 1 | 0 | 17.11 | 17.09 | 17.22 |
| | | 1 | 12 | 17.31 | 17.39 | 17.44 |
| | | 1 | 24 | 17.15 | 17.26 | 17.37 |
| | | 12 | 0 | 16.27 | 16.35 | 16.23 |
| | | 12 | 6 | 16.20 | 16.24 | 16.43 |
| | | 12 | 13 | 16.17 | 16.38 | 16.45 |
| | | 25 | 0 | 16.17 | 16.28 | 16.25 |
| | 64QAM | 1 | 0 | 16.14 | 16.15 | 16.19 |
| | | 1 | 12 | 16.27 | 16.39 | 16.38 |
| | | 1 | 24 | 16.19 | 16.27 | 16.32 |
| | | 12 | 0 | 15.22 | 15.22 | 15.06 |
| | | 12 | 6 | 15.22 | 15.16 | 15.17 |
| | | 12 | 13 | 15.10 | 15.35 | 15.26 |
| | | 25 | 0 | 15.11 | 15.25 | 15.19 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55290) Frequency (3555)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56690) Frequency (3695)MHz |
|---|---|---|---|---|---|---|
| 48/ 10 | QPSK | 1 | 0 | 18.13 | 18.10 | 18.13 |
| | | 1 | 24 | 18.31 | 18.35 | 18.42 |
| | | 1 | 49 | 18.12 | 18.32 | 18.31 |
| | | 25 | 0 | 17.11 | 17.13 | 17.15 |
| | | 25 | 12 | 17.20 | 17.39 | 17.38 |
| | | 25 | 25 | 17.27 | 17.27 | 17.35 |
| | | 50 | 0 | 17.15 | 17.17 | 17.16 |
| | 16QAM | 1 | 0 | 17.17 | 17.14 | 17.15 |
| | | 1 | 24 | 17.24 | 17.36 | 17.44 |
| | | 1 | 49 | 17.04 | 17.39 | 17.37 |
| | | 25 | 0 | 16.30 | 16.28 | 16.30 |
| | | 25 | 12 | 16.21 | 16.42 | 16.42 |
| | | 25 | 25 | 16.26 | 16.42 | 16.42 |
| | | 50 | 0 | 16.03 | 16.15 | 16.19 |
| | 64QAM | 1 | 0 | 16.14 | 16.22 | 16.16 |
| | | 1 | 24 | 16.18 | 16.40 | 16.28 |
| | | 1 | 49 | 16.14 | 16.27 | 16.26 |
| | | 25 | 0 | 15.15 | 15.15 | 15.19 |
| | | 25 | 12 | 15.26 | 15.21 | 15.19 |
| | | 25 | 25 | 15.14 | 15.31 | 15.25 |
| | | 50 | 0 | 15.20 | 15.28 | 15.19 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55315) Frequency (3557.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56665) Frequency (3692.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 15 | QPSK | 1 | 0 | 18.12 | 18.34 | 18.10 |
| | | 1 | 37 | 18.26 | 18.47 | 18.42 |
| | | 1 | 74 | 18.21 | 18.33 | 18.34 |
| | | 36 | 0 | 17.06 | 17.42 | 17.14 |
| | | 36 | 19 | 17.25 | 17.44 | 17.41 |
| | | 36 | 39 | 17.23 | 17.30 | 17.26 |
| | | 75 | 0 | 17.21 | 17.37 | 17.21 |
| | 16QAM | 1 | 0 | 17.21 | 17.31 | 17.22 |
| | | 1 | 37 | 17.31 | 17.42 | 17.44 |
| | | 1 | 74 | 17.17 | 17.29 | 17.43 |
| | | 36 | 0 | 16.26 | 16.38 | 16.28 |
| | | 36 | 19 | 16.25 | 16.48 | 16.34 |
| | | 36 | 39 | 16.26 | 16.31 | 16.40 |
| | | 75 | 0 | 16.04 | 16.44 | 16.26 |
| | 64QAM | 1 | 0 | 16.18 | 16.37 | 16.15 |
| | | 1 | 37 | 16.29 | 16.42 | 16.28 |
| | | 1 | 74 | 16.16 | 16.34 | 16.38 |
| | | 36 | 0 | 15.26 | 15.30 | 15.14 |
| | | 36 | 19 | 15.31 | 15.41 | 15.17 |
| | | 36 | 39 | 15.14 | 15.43 | 15.32 |
| | | 75 | 0 | 15.17 | 15.26 | 15.21 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55340) Frequency (3560)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56640) Frequency (3690)MHz |
|---|---|---|---|---|---|---|
| 48/ 20 | QPSK | 1 | 0 | 18.22 | 18.28 | 18.23 |
| | | 1 | 50 | 18.33 | **18.51** | 18.47 |
| | | 1 | 99 | 18.27 | 18.31 | 18.44 |
| | | 50 | 0 | 17.20 | 17.31 | 17.23 |
| | | 50 | 25 | 17.33 | 17.35 | 17.44 |
| | | 50 | 50 | 17.28 | 17.33 | 17.41 |
| | | 100 | 0 | 17.25 | 17.42 | 17.29 |
| | 16QAM | 1 | 0 | 17.22 | 17.32 | 17.26 |
| | | 1 | 50 | 17.33 | 17.42 | 17.48 |
| | | 1 | 99 | 17.19 | 17.37 | 17.47 |
| | | 50 | 0 | 16.34 | 16.30 | 16.32 |
| | | 50 | 25 | 16.26 | 16.37 | 16.45 |
| | | 50 | 50 | 16.31 | 16.34 | 16.51 |
| | | 100 | 0 | 16.18 | 16.46 | 16.30 |
| | 64QAM | 1 | 0 | 16.19 | 16.26 | 16.23 |
| | | 1 | 50 | 16.32 | 16.37 | 16.43 |
| | | 1 | 99 | 16.20 | 16.30 | 16.41 |
| | | 50 | 0 | 15.30 | 15.39 | 15.21 |
| | | 50 | 25 | 15.32 | 15.40 | 15.29 |
| | | 50 | 50 | 15.23 | 15.47 | 15.34 |
| | | 100 | 0 | 15.22 | 15.26 | 15.32 |

**ANT 5(UP):**

LTE band 42:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43115) Frequency (3552.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43565) Frequency (3597.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 5 | QPSK | 1 | 0 | 22.34 | 22.21 | 22.38 |
| | | 1 | 12 | 22.29 | 22.40 | 22.41 |
| | | 1 | 24 | 22.18 | 22.26 | 22.23 |
| | | 12 | 0 | 21.42 | 21.50 | 21.50 |
| | | 12 | 6 | 21.43 | 21.45 | 21.49 |
| | | 12 | 13 | 21.30 | 21.19 | 21.40 |
| | | 25 | 0 | 21.33 | 21.29 | 21.41 |
| | 16QAM | 1 | 0 | 21.37 | 21.43 | 21.43 |
| | | 1 | 12 | 21.36 | 21.36 | 21.35 |
| | | 1 | 24 | 21.29 | 21.35 | 21.53 |
| | | 12 | 0 | 20.17 | 20.37 | 20.14 |
| | | 12 | 6 | 20.38 | 20.27 | 20.32 |
| | | 12 | 13 | 20.33 | 20.19 | 20.17 |
| | | 25 | 0 | 20.35 | 20.24 | 20.34 |
| | 64QAM | 1 | 0 | 20.04 | 20.26 | 20.24 |
| | | 1 | 12 | 20.16 | 20.06 | 20.07 |
| | | 1 | 24 | 20.10 | 20.26 | 20.35 |
| | | 12 | 0 | 19.87 | 19.23 | 19.14 |
| | | 12 | 6 | 19.37 | 19.39 | 19.35 |
| | | 12 | 13 | 19.35 | 19.36 | 19.28 |
| | | 25 | 0 | 19.31 | 19.25 | 19.34 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43140) Frequency (3555)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43540) Frequency (3595)MHz |
|---|---|---|---|---|---|---|
| 42/ 10 | QPSK | 1 | 0 | 22.35 | 22.24 | 22.36 |
| | | 1 | 24 | 22.20 | 22.31 | 22.40 |
| | | 1 | 49 | 22.24 | 22.26 | 22.26 |
| | | 25 | 0 | 21.39 | 21.48 | 21.54 |
| | | 25 | 12 | 21.44 | 21.37 | 21.37 |
| | | 25 | 25 | 21.22 | 21.31 | 21.47 |
| | | 50 | 0 | 21.43 | 21.40 | 21.34 |
| | 16QAM | 1 | 0 | 21.34 | 21.53 | 21.38 |
| | | 1 | 24 | 21.35 | 21.29 | 21.33 |
| | | 1 | 49 | 21.29 | 21.25 | 21.58 |
| | | 25 | 0 | 20.17 | 20.43 | 20.17 |
| | | 25 | 12 | 20.30 | 20.28 | 20.32 |
| | | 25 | 25 | 20.43 | 20.30 | 20.20 |
| | | 50 | 0 | 20.31 | 20.29 | 20.36 |
| | 64QAM | 1 | 0 | 20.10 | 20.15 | 20.28 |
| | | 1 | 24 | 20.28 | 20.07 | 20.17 |
| | | 1 | 49 | 20.04 | 20.23 | 20.43 |
| | | 25 | 0 | 19.84 | 19.15 | 19.20 |
| | | 25 | 12 | 19.29 | 19.35 | 19.32 |
| | | 25 | 25 | 19.21 | 19.29 | 19.26 |
| | | 50 | 0 | 19.42 | 19.29 | 19.36 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43165) Frequency (3557.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43515) Frequency (3592.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 15 | QPSK | 1 | 0 | 22.28 | 22.19 | 22.42 |
| | | 1 | 37 | 22.28 | 22.33 | 22.39 |
| | | 1 | 74 | 22.19 | 22.35 | 22.19 |
| | | 36 | 0 | 21.37 | 21.43 | 21.56 |
| | | 36 | 19 | 21.48 | 21.44 | 21.41 |
| | | 36 | 39 | 21.30 | 21.20 | 21.43 |
| | | 75 | 0 | 21.40 | 21.41 | 21.37 |
| | 16QAM | 1 | 0 | 21.46 | 21.46 | 21.44 |
| | | 1 | 37 | 21.36 | 21.37 | 21.24 |
| | | 1 | 74 | 21.40 | 21.36 | 21.46 |
| | | 36 | 0 | 20.23 | 20.32 | 20.23 |
| | | 36 | 19 | 20.27 | 20.20 | 20.45 |
| | | 36 | 39 | 20.42 | 20.29 | 20.18 |
| | | 75 | 0 | 20.38 | 20.19 | 20.30 |
| | 64QAM | 1 | 0 | 20.08 | 20.15 | 20.22 |
| | | 1 | 37 | 20.25 | 20.13 | 20.19 |
| | | 1 | 74 | 20.10 | 20.28 | 20.44 |
| | | 36 | 0 | 19.85 | 19.19 | 19.19 |
| | | 36 | 19 | 19.36 | 19.34 | 19.33 |
| | | 36 | 39 | 19.34 | 19.36 | 19.27 |
| | | 75 | 0 | 19.35 | 19.24 | 19.37 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43190) Frequency (3560)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43490) Frequency (3590)MHz |
|---|---|---|---|---|---|---|
| 42/ 20 | QPSK | 1 | 0 | 22.39 | 22.34 | 22.46 |
| | | 1 | 50 | 22.33 | 22.44 | **22.55** |
| | | 1 | 99 | 22.29 | 22.39 | 22.32 |
| | | 50 | 0 | 21.52 | 21.51 | 21.60 |
| | | 50 | 25 | 21.52 | 21.49 | 21.52 |
| | | 50 | 50 | 21.37 | 21.34 | 21.49 |
| | | 100 | 0 | 21.44 | 21.44 | 21.46 |
| | 16QAM | 1 | 0 | 21.48 | 21.54 | 21.45 |
| | | 1 | 50 | 21.47 | 21.43 | 21.37 |
| | | 1 | 99 | 21.41 | 21.37 | 21.60 |
| | | 50 | 0 | 20.30 | 20.46 | 20.25 |
| | | 50 | 25 | 20.39 | 20.31 | 20.46 |
| | | 50 | 50 | 20.45 | 20.34 | 20.31 |
| | | 100 | 0 | 20.40 | 20.31 | 20.37 |
| | 64QAM | 1 | 0 | 20.16 | 20.30 | 20.30 |
| | | 1 | 50 | 20.31 | 20.19 | 20.22 |
| | | 1 | 99 | 20.11 | 20.31 | 20.46 |
| | | 50 | 0 | 19.93 | 19.24 | 19.27 |
| | | 50 | 25 | 19.44 | 19.46 | 19.39 |
| | | 50 | 50 | 19.36 | 19.40 | 19.34 |
| | | 100 | 0 | 19.46 | 19.39 | 19.43 |

LTE band 48:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55265) Frequency (3552.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56715) Frequency (3697.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 5 | QPSK | 1 | 0 | 22.31 | 22.41 | 22.17 |
| | | 1 | 12 | 22.34 | 22.27 | 22.30 |
| | | 1 | 24 | 22.28 | 22.24 | 22.22 |
| | | 12 | 0 | 21.48 | 21.47 | 21.38 |
| | | 12 | 6 | 21.39 | 21.21 | 21.18 |
| | | 12 | 13 | 21.47 | 21.25 | 21.26 |
| | | 25 | 0 | 21.30 | 21.35 | 21.38 |
| | 16QAM | 1 | 0 | 21.36 | 21.12 | 21.15 |
| | | 1 | 12 | 21.17 | 21.29 | 21.13 |
| | | 1 | 24 | 21.36 | 21.19 | 21.32 |
| | | 12 | 0 | 20.51 | 20.53 | 20.33 |
| | | 12 | 6 | 20.34 | 20.12 | 20.18 |
| | | 12 | 13 | 20.40 | 20.30 | 20.15 |
| | | 25 | 0 | 20.17 | 20.36 | 20.15 |
| | 64QAM | 1 | 0 | 20.32 | 20.49 | 20.12 |
| | | 1 | 12 | 20.24 | 20.43 | 20.26 |
| | | 1 | 24 | 20.29 | 20.32 | 20.11 |
| | | 12 | 0 | 19.19 | 19.30 | 19.31 |
| | | 12 | 6 | 19.25 | 19.17 | 19.38 |
| | | 12 | 13 | 19.45 | 19.43 | 19.13 |
| | | 25 | 0 | 19.18 | 19.28 | 19.34 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55290) Frequency (3555)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56690) Frequency (3695)MHz |
|---|---|---|---|---|---|---|
| 48/ 10 | QPSK | 1 | 0 | 22.28 | 22.15 | 22.26 |
| | | 1 | 24 | 22.42 | 22.43 | 22.39 |
| | | 1 | 49 | 22.23 | 22.34 | 22.23 |
| | | 25 | 0 | 21.41 | 21.31 | 21.38 |
| | | 25 | 12 | 21.29 | 21.27 | 21.25 |
| | | 25 | 25 | 21.47 | 21.36 | 21.13 |
| | | 50 | 0 | 21.33 | 21.15 | 21.28 |
| | 16QAM | 1 | 0 | 21.32 | 21.55 | 21.18 |
| | | 1 | 24 | 21.25 | 21.42 | 21.11 |
| | | 1 | 49 | 21.32 | 21.18 | 21.38 |
| | | 25 | 0 | 20.53 | 20.18 | 20.26 |
| | | 25 | 12 | 20.32 | 20.23 | 20.17 |
| | | 25 | 25 | 20.42 | 20.29 | 20.16 |
| | | 50 | 0 | 20.17 | 20.25 | 20.13 |
| | 64QAM | 1 | 0 | 20.39 | 20.29 | 20.13 |
| | | 1 | 24 | 20.14 | 20.31 | 20.32 |
| | | 1 | 49 | 20.28 | 20.37 | 20.12 |
| | | 25 | 0 | 19.16 | 19.51 | 19.28 |
| | | 25 | 12 | 19.13 | 19.29 | 19.34 |
| | | 25 | 25 | 19.34 | 19.38 | 19.19 |
| | | 50 | 0 | 19.14 | 19.27 | 19.25 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55315) Frequency (3557.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56665) Frequency (3692.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 15 | QPSK | 1 | 0 | 22.38 | 22.25 | 22.23 |
| | | 1 | 37 | 22.45 | 22.40 | 22.36 |
| | | 1 | 74 | 22.34 | 22.32 | 22.25 |
| | | 36 | 0 | 21.41 | 21.30 | 21.41 |
| | | 36 | 19 | 21.42 | 21.25 | 21.13 |
| | | 36 | 39 | 21.41 | 21.39 | 21.19 |
| | | 75 | 0 | 21.38 | 21.26 | 21.25 |
| | 16QAM | 1 | 0 | 21.34 | 21.49 | 21.25 |
| | | 1 | 37 | 21.24 | 21.52 | 21.23 |
| | | 1 | 74 | 21.33 | 21.23 | 21.36 |
| | | 36 | 0 | 20.52 | 20.14 | 20.34 |
| | | 36 | 19 | 20.27 | 20.33 | 20.15 |
| | | 36 | 39 | 20.42 | 20.39 | 20.05 |
| | | 75 | 0 | 20.09 | 20.15 | 20.23 |
| | 64QAM | 1 | 0 | 20.37 | 20.34 | 20.19 |
| | | 1 | 37 | 20.17 | 20.31 | 20.22 |
| | | 1 | 74 | 20.22 | 20.37 | 20.23 |
| | | 36 | 0 | 19.19 | 19.52 | 19.35 |
| | | 36 | 19 | 19.13 | 19.26 | 19.36 |
| | | 36 | 39 | 19.41 | 19.35 | 19.22 |
| | | 75 | 0 | 19.16 | 19.30 | 19.28 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55340) Frequency (3560)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56640) Frequency (3690)MHz |
|---|---|---|---|---|---|---|
| 48/ 20 | QPSK | 1 | 0 | 22.40 | 22.39 | 22.30 |
| | | 1 | 50 | **22.49** | 22.23 | 22.41 |
| | | 1 | 99 | 22.38 | 22.27 | 22.28 |
| | | 50 | 0 | 21.53 | 21.47 | 21.42 |
| | | 50 | 25 | 21.43 | 21.21 | 21.28 |
| | | 50 | 50 | 21.51 | 21.26 | 21.28 |
| | | 100 | 0 | 21.42 | 21.37 | 21.39 |
| | 16QAM | 1 | 0 | 21.42 | 21.18 | 21.29 |
| | | 1 | 50 | 21.31 | 21.29 | 21.26 |
| | | 1 | 99 | 21.43 | 21.25 | 21.39 |
| | | 50 | 0 | 20.54 | 20.46 | 20.36 |
| | | 50 | 25 | 20.38 | 20.17 | 20.29 |
| | | 50 | 50 | 20.47 | 20.30 | 20.19 |
| | | 100 | 0 | 20.23 | 20.40 | 20.24 |
| | 64QAM | 1 | 0 | 20.40 | 20.46 | 20.20 |
| | | 1 | 50 | 20.29 | 20.46 | 20.33 |
| | | 1 | 99 | 20.31 | 20.29 | 20.24 |
| | | 50 | 0 | 19.31 | 19.34 | 19.41 |
| | | 50 | 25 | 19.28 | 19.13 | 19.43 |
| | | 50 | 50 | 19.46 | 19.41 | 19.28 |
| | | 100 | 0 | 19.25 | 19.24 | 19.35 |

**ANT 7(UP):**

LTE band 42:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43115) Frequency (3552.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43565) Frequency (3597.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 5 | QPSK | 1 | 0 | 20.99 | 20.92 | 20.81 |
| | | 1 | 12 | 20.85 | 20.95 | 20.64 |
| | | 1 | 24 | 20.81 | 20.71 | 20.64 |
| | | 12 | 0 | 19.93 | 19.82 | 19.74 |
| | | 12 | 6 | 19.96 | 19.85 | 19.73 |
| | | 12 | 13 | 20.05 | 19.84 | 19.73 |
| | | 25 | 0 | 19.96 | 19.80 | 19.77 |
| | 16QAM | 1 | 0 | 19.99 | 19.91 | 19.77 |
| | | 1 | 12 | 20.09 | 19.95 | 19.87 |
| | | 1 | 24 | 19.98 | 19.72 | 19.84 |
| | | 12 | 0 | 18.95 | 18.96 | 18.69 |
| | | 12 | 6 | 19.01 | 18.84 | 18.80 |
| | | 12 | 13 | 18.99 | 18.83 | 18.75 |
| | | 25 | 0 | 18.84 | 18.77 | 18.68 |
| | 64QAM | 1 | 0 | 18.81 | 18.88 | 18.65 |
| | | 1 | 12 | 18.92 | 18.75 | 18.70 |
| | | 1 | 24 | 18.80 | 18.60 | 18.60 |
| | | 12 | 0 | 17.97 | 17.79 | 17.66 |
| | | 12 | 6 | 18.04 | 17.78 | 17.67 |
| | | 12 | 13 | 17.90 | 17.80 | 17.66 |
| | | 25 | 0 | 17.96 | 17.72 | 17.76 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43140) Frequency (3555)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43540) Frequency (3595)MHz |
|---|---|---|---|---|---|---|
| 42/ 10 | QPSK | 1 | 0 | 20.97 | 20.93 | 20.85 |
| | | 1 | 24 | 20.94 | 20.92 | 20.64 |
| | | 1 | 49 | 20.85 | 20.69 | 20.57 |
| | | 25 | 0 | 19.95 | 19.89 | 19.72 |
| | | 25 | 12 | 19.99 | 19.92 | 19.79 |
| | | 25 | 25 | 20.08 | 19.84 | 19.80 |
| | | 50 | 0 | 19.92 | 19.83 | 19.79 |
| | 16QAM | 1 | 0 | 20.03 | 19.96 | 19.88 |
| | | 1 | 24 | 20.14 | 19.88 | 19.87 |
| | | 1 | 49 | 20.03 | 19.77 | 19.86 |
| | | 25 | 0 | 18.99 | 18.84 | 18.68 |
| | | 25 | 12 | 18.95 | 18.91 | 18.85 |
| | | 25 | 25 | 18.96 | 18.74 | 18.65 |
| | | 50 | 0 | 18.92 | 18.76 | 18.78 |
| | 64QAM | 1 | 0 | 18.92 | 18.94 | 18.73 |
| | | 1 | 24 | 18.91 | 18.86 | 18.66 |
| | | 1 | 49 | 18.82 | 18.57 | 18.67 |
| | | 25 | 0 | 18.00 | 17.75 | 17.74 |
| | | 25 | 12 | 17.93 | 17.72 | 17.67 |
| | | 25 | 25 | 17.83 | 17.70 | 17.68 |
| | | 50 | 0 | 17.96 | 17.75 | 17.75 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43165) Frequency (3557.5)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43515) Frequency (3592.5)MHz |
|---|---|---|---|---|---|---|
| 42/ 15 | QPSK | 1 | 0 | 21.10 | 21.01 | 20.87 |
| | | 1 | 37 | 20.83 | 20.98 | 20.69 |
| | | 1 | 74 | 20.79 | 20.74 | 20.67 |
| | | 36 | 0 | 19.95 | 19.87 | 19.70 |
| | | 36 | 19 | 20.06 | 19.97 | 19.75 |
| | | 36 | 39 | 20.03 | 19.86 | 19.72 |
| | | 75 | 0 | 19.90 | 19.81 | 19.81 |
| | 16QAM | 1 | 0 | 19.97 | 19.96 | 19.83 |
| | | 1 | 37 | 20.04 | 19.94 | 19.88 |
| | | 1 | 74 | 20.00 | 19.81 | 19.72 |
| | | 36 | 0 | 19.02 | 18.93 | 18.75 |
| | | 36 | 19 | 18.96 | 18.89 | 18.74 |
| | | 36 | 39 | 18.99 | 18.83 | 18.72 |
| | | 75 | 0 | 18.87 | 18.75 | 18.77 |
| | 64QAM | 1 | 0 | 18.81 | 19.00 | 18.62 |
| | | 1 | 37 | 18.92 | 18.87 | 18.74 |
| | | 1 | 74 | 18.83 | 18.55 | 18.68 |
| | | 36 | 0 | 17.98 | 17.88 | 17.64 |
| | | 36 | 19 | 17.95 | 17.77 | 17.72 |
| | | 36 | 39 | 17.88 | 17.70 | 17.66 |
| | | 75 | 0 | 17.90 | 17.73 | 17.84 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (43190) Frequency (3560)MHz | Mid CH (43340) Frequency (3575)MHz | High CH (43490) Frequency (3590)MHz |
|---|---|---|---|---|---|---|
| 42/ 20 | QPSK | 1 | 0 | **21.11** | 21.02 | 20.89 |
| | | 1 | 50 | 20.97 | 21.00 | 20.79 |
| | | 1 | 99 | 20.93 | 20.78 | 20.69 |
| | | 50 | 0 | 20.00 | 19.92 | 19.84 |
| | | 50 | 25 | 20.10 | 19.98 | 19.87 |
| | | 50 | 50 | 20.09 | 19.87 | 19.82 |
| | | 100 | 0 | 20.01 | 19.92 | 19.89 |
| | 16QAM | 1 | 0 | 20.11 | 20.06 | 19.90 |
| | | 1 | 50 | 20.16 | 19.98 | 19.91 |
| | | 1 | 99 | 20.07 | 19.85 | 19.87 |
| | | 50 | 0 | 19.07 | 18.99 | 18.82 |
| | | 50 | 25 | 19.04 | 18.96 | 18.88 |
| | | 50 | 50 | 19.06 | 18.88 | 18.79 |
| | | 100 | 0 | 18.99 | 18.90 | 18.81 |
| | 64QAM | 1 | 0 | 18.94 | 19.02 | 18.75 |
| | | 1 | 50 | 18.96 | 18.88 | 18.77 |
| | | 1 | 99 | 18.84 | 18.65 | 18.73 |
| | | 50 | 0 | 18.07 | 17.89 | 17.79 |
| | | 50 | 25 | 18.05 | 17.86 | 17.75 |
| | | 50 | 50 | 17.96 | 17.82 | 17.81 |
| | | 100 | 0 | 18.05 | 17.87 | 17.87 |

LTE band 48:

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55265) Frequency (3552.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56715) Frequency (3697.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 5 | QPSK | 1 | 0 | 20.73 | 20.81 | 20.68 |
| | | 1 | 12 | 20.85 | 20.78 | 20.86 |
| | | 1 | 24 | 20.82 | 20.75 | 20.66 |
| | | 12 | 0 | 19.96 | 19.81 | 19.84 |
| | | 12 | 6 | 20.02 | 19.94 | 19.98 |
| | | 12 | 13 | 19.86 | 20.05 | 19.76 |
| | | 25 | 0 | 19.88 | 19.86 | 19.86 |
| | 16QAM | 1 | 0 | 19.96 | 19.78 | 19.81 |
| | | 1 | 12 | 19.93 | 19.82 | 19.79 |
| | | 1 | 24 | 19.77 | 19.72 | 19.74 |
| | | 12 | 0 | 18.92 | 18.83 | 18.83 |
| | | 12 | 6 | 18.97 | 18.89 | 18.92 |
| | | 12 | 13 | 18.91 | 19.00 | 18.77 |
| | | 25 | 0 | 18.88 | 18.80 | 18.88 |
| | 64QAM | 1 | 0 | 18.91 | 18.71 | 18.66 |
| | | 1 | 12 | 18.87 | 18.86 | 18.77 |
| | | 1 | 24 | 18.70 | 18.87 | 18.62 |
| | | 12 | 0 | 17.94 | 17.82 | 17.81 |
| | | 12 | 6 | 17.82 | 17.79 | 17.82 |
| | | 12 | 13 | 17.86 | 17.83 | 17.84 |
| | | 25 | 0 | 17.80 | 17.97 | 17.79 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55290) Frequency (3555)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56690) Frequency (3695)MHz |
|---|---|---|---|---|---|---|
| 48/ 10 | QPSK | 1 | 0 | 20.81 | 20.74 | 20.68 |
| | | 1 | 24 | 20.93 | 20.82 | 20.79 |
| | | 1 | 49 | 20.83 | 20.66 | 20.66 |
| | | 25 | 0 | 19.98 | 19.87 | 19.81 |
| | | 25 | 12 | 20.06 | 19.92 | 19.95 |
| | | 25 | 25 | 19.89 | 19.75 | 19.76 |
| | | 50 | 0 | 19.91 | 19.87 | 19.79 |
| | 16QAM | 1 | 0 | 20.03 | 19.73 | 19.83 |
| | | 1 | 24 | 20.04 | 19.80 | 19.89 |
| | | 1 | 49 | 19.85 | 19.73 | 19.63 |
| | | 25 | 0 | 18.99 | 18.80 | 18.74 |
| | | 25 | 12 | 18.98 | 18.80 | 18.81 |
| | | 25 | 25 | 18.78 | 18.74 | 18.79 |
| | | 50 | 0 | 18.92 | 18.80 | 18.82 |
| | 64QAM | 1 | 0 | 18.79 | 18.61 | 18.59 |
| | | 1 | 24 | 18.88 | 18.71 | 18.79 |
| | | 1 | 49 | 18.75 | 18.61 | 18.69 |
| | | 25 | 0 | 17.92 | 17.79 | 17.80 |
| | | 25 | 12 | 17.79 | 17.90 | 17.88 |
| | | 25 | 25 | 17.97 | 17.79 | 17.81 |
| | | 50 | 0 | 17.86 | 17.88 | 17.79 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55315) Frequency (3557.5)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56665) Frequency (3692.5)MHz |
|---|---|---|---|---|---|---|
| 48/ 15 | QPSK | 1 | 0 | 20.74 | 20.69 | 20.74 |
| | | 1 | 37 | 20.86 | 20.83 | 20.81 |
| | | 1 | 74 | 20.79 | 20.65 | 20.58 |
| | | 36 | 0 | 19.94 | 19.63 | 19.89 |
| | | 36 | 19 | 19.99 | 19.72 | 19.90 |
| | | 36 | 39 | 19.96 | 19.68 | 19.77 |
| | | 75 | 0 | 19.93 | 19.66 | 19.92 |
| | 16QAM | 1 | 0 | 20.01 | 19.57 | 19.70 |
| | | 1 | 37 | 19.94 | 19.82 | 19.87 |
| | | 1 | 74 | 19.77 | 19.71 | 19.74 |
| | | 36 | 0 | 18.87 | 18.71 | 18.74 |
| | | 36 | 19 | 18.85 | 18.76 | 18.90 |
| | | 36 | 39 | 18.88 | 18.87 | 18.84 |
| | | 75 | 0 | 18.92 | 18.60 | 18.80 |
| | 64QAM | 1 | 0 | 18.81 | 18.61 | 18.61 |
| | | 1 | 37 | 18.88 | 18.71 | 18.78 |
| | | 1 | 74 | 18.82 | 18.69 | 18.65 |
| | | 36 | 0 | 17.98 | 17.61 | 17.81 |
| | | 36 | 19 | 17.93 | 17.76 | 17.89 |
| | | 36 | 39 | 17.94 | 17.72 | 17.79 |
| | | 75 | 0 | 17.79 | 17.60 | 17.81 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH (55340) Frequency (3560)MHz | Mid CH (55990) Frequency (3625.0)MHz | High CH (56640) Frequency (3690)MHz |
|---|---|---|---|---|---|---|
| 48/ 20 | QPSK | 1 | 0 | 20.88 | 20.63 | 20.83 |
| | | 1 | 50 | **20.99** | 20.79 | 20.88 |
| | | 1 | 99 | 20.85 | 20.72 | 20.71 |
| | | 50 | 0 | 20.07 | 19.71 | 19.91 |
| | | 50 | 25 | 20.07 | 19.78 | 20.00 |
| | | 50 | 50 | 19.98 | 19.75 | 19.85 |
| | | 100 | 0 | 19.99 | 19.66 | 19.94 |
| | 16QAM | 1 | 0 | 20.05 | 19.65 | 19.84 |
| | | 1 | 50 | 20.08 | 19.77 | 19.94 |
| | | 1 | 99 | 19.92 | 19.67 | 19.77 |
| | | 50 | 0 | 19.00 | 18.74 | 18.86 |
| | | 50 | 25 | 18.99 | 18.68 | 18.93 |
| | | 50 | 50 | 18.93 | 18.76 | 18.87 |
| | | 100 | 0 | 18.94 | 18.70 | 18.94 |
| | 64QAM | 1 | 0 | 18.92 | 18.59 | 18.74 |
| | | 1 | 50 | 18.92 | 18.74 | 18.83 |
| | | 1 | 99 | 18.83 | 18.64 | 18.70 |
| | | 50 | 0 | 18.00 | 17.56 | 17.91 |
| | | 50 | 25 | 17.94 | 17.75 | 17.94 |
| | | 50 | 50 | 18.00 | 17.61 | 17.87 |
| | | 100 | 0 | 17.94 | 17.68 | 17.89 |