



REPORT No.: SZ22100099W02

# TEST REPORT

**APPLICANT** : Shanghai BroadMobi Communication  
Technology Co., Ltd.

**PRODUCT NAME** : RX50

**MODEL NAME** : RX50

**BRAND NAME** : BroadMobi

**FCC ID** : 2AON8RX50

**STANDARD(S)** : 47 CFR Part 2  
47 CFR Part 24, Subpart E  
47 CFR Part 27, Subpart H&L&M

**RECEIPT DATE** : 2022-11-21

**TEST DATE** : 2022-11-21 to 2023-01-04

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| Change History |            |                   |
|----------------|------------|-------------------|
| Version        | Date       | Reason for change |
| 1.0            | 2023-01-11 | First edition     |
|                |            |                   |



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| <b>Applicant:</b>            | Shanghai BroadMobi Communication Technology Co., Ltd.       |
| <b>Applicant Address:</b>    | 15F,Building 9,No. 99,Tianzhou Rd.,Xuhui District, Shanghai |
| <b>Manufacturer:</b>         | Shanghai BroadMobi Communication Technology Co., Ltd.       |
| <b>Manufacturer Address:</b> | 15F,Building 9,No. 99,Tianzhou Rd.,Xuhui District, Shanghai |

## 1.2. Equipment Under Test (EUT) Description

|                             |                          |                                         |
|-----------------------------|--------------------------|-----------------------------------------|
| <b>Product Name:</b>        | RX50                     |                                         |
| <b>Sample No.:</b>          | 9#                       |                                         |
| <b>Hardware Version:</b>    | RX50A_MB_V4.0            |                                         |
| <b>Software Version:</b>    | 1.01                     |                                         |
| <b>Modulation Type:</b>     | QPSK, 16QAM, 64QAM       |                                         |
| <b>Carrier Aggregation:</b> | Not Support              |                                         |
| <b>Operation Band:</b>      | Band 2 / 4 / 7 / 12 / 66 |                                         |
| <b>Frequency Range:</b>     | LTE Band 2               | Tx: 1850MHz–1910MHz                     |
|                             |                          | Rx: 1930MHz–1990MHz                     |
|                             | LTE Band 4               | Tx: 1710MHz–1755MHz                     |
|                             |                          | Rx: 2110MHz–2155MHz                     |
|                             | LTE Band 7               | Tx: 2500MHz–2570MHz                     |
|                             |                          | Rx: 2620MHz–2690MHz                     |
|                             | LTE Band 12              | Tx: 699MHz - 716MHz                     |
|                             |                          | Rx: 729MHz – 746MHz                     |
|                             | LTE Band 66              | Tx: 1710MHz –1780MHz                    |
|                             |                          | Rx: 2110MHz –2200MHz                    |
| <b>Channel Bandwidth:</b>   | LTE Band 2               | 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz |
|                             | LTE Band 4               | 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz |
|                             | LTE Band 7               | 5 MHz, 10MHz, 15MHz, 20MHz              |
|                             | LTE Band 12              | 1.4MHz, 3 MHz, 5 MHz, 10MHz             |
|                             | LTE Band 66              | 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz |



|                               |                        |                                    |
|-------------------------------|------------------------|------------------------------------|
| <b>Antenna Type:</b>          | Fixed Internal Antenna |                                    |
| <b>Antenna Gain:</b>          | LTE Band 2             | 4.48dBi                            |
|                               | LTE Band 4             | 3.46dBi                            |
|                               | LTE Band 7             | 3.29dBi                            |
|                               | LTE Band 12            | 1.28dBi                            |
|                               | LTE Band 66            | 4.23dBi                            |
| <b>Accessory Information:</b> | AC Adapter             |                                    |
|                               | Brand Name:            | GuRong Electronics                 |
|                               | Model No.:             | GQ24-120200-AU                     |
|                               | Serial No.:            | N/A                                |
|                               | Rated Output:          | 12V $\Rightarrow$ 2A               |
|                               | Rated Input:           | 100-240V $\sim$ 50/60Hz, 1A        |
|                               | Manufacturer:          | DONGGUAN GANGQI ELECTRONIC CO.,LTD |

**Note 1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



### 1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

| LTE Band 2  | Maximum E.R.P./E.I.R.P. (W) |       |       | Emission Designator (99%OBW) |         |         |
|-------------|-----------------------------|-------|-------|------------------------------|---------|---------|
| BW(MHz)     | QPSK                        | 16QAM | 64QAM | QPSK                         | 16QAM   | 64QAM   |
| 20          | 0.417                       | 0.328 | 0.326 | 17M9G7D                      | 18M0W7D | 18M0W7D |
| 15          | 0.415                       | 0.336 | 0.327 | 13M5G7D                      | 13M5W7D | 13M5W7D |
| 10          | 0.411                       | 0.333 | 0.338 | 9M00G7D                      | 8M96W7D | 8M97W7D |
| 5           | 0.410                       | 0.332 | 0.338 | 4M51G7D                      | 4M51W7D | 4M51W7D |
| 3           | 0.410                       | 0.333 | 0.329 | 2M70G7D                      | 2M71W7D | 2M70W7D |
| 1.4         | 0.408                       | 0.330 | 0.325 | 1M09G7D                      | 1M10W7D | 1M10W7D |
| LTE Band 4  | Maximum E.R.P./E.I.R.P. (W) |       |       | Emission Designator (99%OBW) |         |         |
| BW(MHz)     | QPSK                        | 16QAM | 64QAM | QPSK                         | 16QAM   | 64QAM   |
| 20          | 0.327                       | 0.258 | 0.260 | 18M0G7D                      | 18M1W7D | 18M0W7D |
| 15          | 0.321                       | 0.262 | 0.260 | 13M5G7D                      | 13M5W7D | 13M5W7D |
| 10          | 0.322                       | 0.261 | 0.259 | 8M99G7D                      | 8M96W7D | 8M99W7D |
| 5           | 0.321                       | 0.260 | 0.257 | 4M51G7D                      | 4M51W7D | 4M51W7D |
| 3           | 0.321                       | 0.252 | 0.267 | 2M70G7D                      | 2M70W7D | 2M70W7D |
| 1.4         | 0.323                       | 0.259 | 0.262 | 1M09G7D                      | 1M10W7D | 1M10W7D |
| LTE Band 7  | Maximum E.R.P./E.I.R.P. (W) |       |       | Emission Designator (99%OBW) |         |         |
| BW(MHz)     | QPSK                        | 16QAM | 64QAM | QPSK                         | 16QAM   | 64QAM   |
| 20          | 0.802                       | 0.635 | 0.637 | 18M0G7D                      | 18M0W7D | 18M0W7D |
| 15          | 0.789                       | 0.653 | 0.643 | 13M5G7D                      | 13M5W7D | 13M5W7D |
| 10          | 0.791                       | 0.638 | 0.641 | 9M00G7D                      | 8M96W7D | 8M98W7D |
| 5           | 0.793                       | 0.646 | 0.641 | 4M50G7D                      | 4M51W7D | 4M51W7D |
| LTE Band 12 | Maximum E.R.P./E.I.R.P. (W) |       |       | Emission Designator (99%OBW) |         |         |
| BW(MHz)     | QPSK                        | 16QAM | 64QAM | QPSK                         | 16QAM   | 64QAM   |
| 10          | 0.194                       | 0.160 | 0.160 | 8M98G7D                      | 8M96W7D | 8M98W7D |
| 5           | 0.190                       | 0.159 | 0.153 | 4M50G7D                      | 4M51W7D | 4M51W7D |
| 3           | 0.192                       | 0.162 | 0.160 | 2M70G7D                      | 2M70W7D | 2M71W7D |
| 1.4         | 0.192                       | 0.159 | 0.158 | 1M09G7D                      | 1M10W7D | 1M10W7D |
| LTE Band 66 | Maximum E.R.P./E.I.R.P. (W) |       |       | Emission Designator (99%OBW) |         |         |
| BW(MHz)     | QPSK                        | 16QAM | 64QAM | QPSK                         | 16QAM   | 64QAM   |
| 20          | 0.318                       | 0.256 | 0.251 | 18M0G7D                      | 18M1W7D | 18M1W7D |
| 15          | 0.310                       | 0.259 | 0.255 | 13M5G7D                      | 13M5W7D | 13M5W7D |
| 10          | 0.313                       | 0.251 | 0.256 | 9M00G7D                      | 8M97W7D | 8M98W7D |
| 5           | 0.316                       | 0.259 | 0.258 | 4M50G7D                      | 4M50W7D | 4M52W7D |
| 3           | 0.316                       | 0.259 | 0.255 | 2M70G7D                      | 2M70W7D | 2M70W7D |
| 1.4         | 0.315                       | 0.267 | 0.254 | 1M09G7D                      | 1M10W7D | 1M10W7D |



## 1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 for the EUT FCC ID Certification:

| No. | Identity       | Document Title                                                                |
|-----|----------------|-------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2  | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2   | 47 CFR Part 22 | Public Mobile Services                                                        |
| 3   | 47 CFR Part 24 | Personal Communications Services                                              |
| 4   | 47 CFR Part 27 | Miscellaneous Wireless Communications Services                                |

Test detailed items/section required by FCC rules and results are as below:

| Section                                                           | Description                                            | Test Date        | Test Engineer               | Result | Method Determination /Remark |
|-------------------------------------------------------------------|--------------------------------------------------------|------------------|-----------------------------|--------|------------------------------|
| 2.1046<br>24.232(c)<br>27.50(c)(10)<br>27.50(d)(4)<br>27.50(h)(2) | Transmitter Conducted Output Power and E.R.P./E.I.R.P. | Jan. 04, 2023    | Shen Biaohong<br>Li Huaijie | PASS   | No deviation                 |
| 2.1049                                                            | Occupied Bandwidth                                     | Nov. 29, 2022    | Li Huaijie                  | PASS   | No deviation                 |
| 2.1055<br>24.235<br>27.54                                         | Frequency Stability                                    | Jan. 04, 2023    | Li Huaijie                  | PASS   | No deviation                 |
| 24.232(d),<br>27.50(d)(5)                                         | Peak to Average Ratio                                  | Nov. 30, 2022    | Li Huaijie                  | PASS   | No deviation                 |
| 2.1051<br>24.238(a)<br>27.53(g)<br>27.53(h)<br>27.53(m)(4)        | Conducted Spurious Emissions                           | Nov. 29&30, 2022 | Li Huaijie                  | PASS   | No deviation                 |
| 2.1051<br>24.238(a)<br>27.53(g)<br>27.53(h)<br>27.53(m)(4)        | Band Edge                                              | Nov. 25&29, 2022 | Li Huaijie                  | PASS   | No deviation                 |
| 2.1053<br>24.238(a)                                               | Radiated Spurious                                      | Dec. 07, 2022    | Gao Jianrou                 | PASS   | No deviation                 |



|             |           |  |  |  |  |
|-------------|-----------|--|--|--|--|
| 27.53(g)    | Emissions |  |  |  |  |
| 27.53(h)    |           |  |  |  |  |
| 27.53(m)(4) |           |  |  |  |  |

**Note 1:** The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

**Note 2:** The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

**Note 3:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 4:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

## 1.5. Environmental Conditions

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

|                             |        |
|-----------------------------|--------|
| Temperature (°C):           | 15-35  |
| Relative Humidity (%):      | 30-60  |
| Atmospheric Pressure (kPa): | 86-106 |

## 2.47 CFR Part 2, Part 22H, Part 24E, Part 27 H&L&M Requirements

### 2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

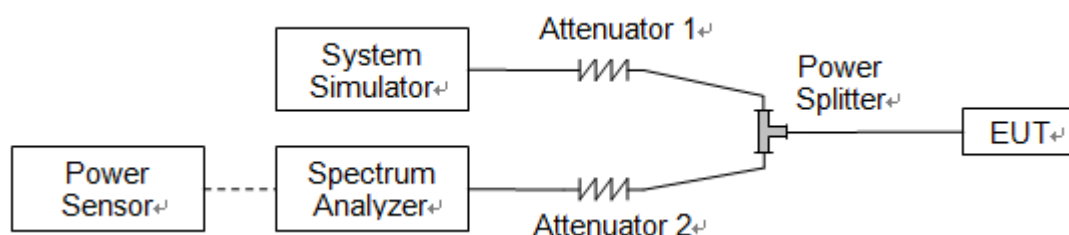
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 27.50 (h)(2) for LTE Band 7, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50 (c)(10) for LTE Band 12, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

#### 2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



### 2.1.3. Test Procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15

### 2.1.4. Result

#### Conducted Output Power:

| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18700                         | 18900                            | 19100                          |
| Frequency (MHz) |            |         |           | 1860                          | 1880                             | 1900                           |
| 20              | QPSK       | 1       | 0         | 24.34                         | 24.42                            | 24.37                          |
| 20              | QPSK       | 1       | 49        | 24.25                         | 24.30                            | 24.33                          |
| 20              | QPSK       | 1       | 99        | 24.28                         | 24.29                            | 24.26                          |
| 20              | QPSK       | 50      | 0         | 23.32                         | 23.41                            | 23.34                          |
| 20              | QPSK       | 50      | 24        | 23.19                         | 23.36                            | 23.22                          |
| 20              | QPSK       | 50      | 50        | 23.23                         | 23.24                            | 23.19                          |
| 20              | QPSK       | 100     | 0         | 23.38                         | 23.33                            | 23.40                          |
| 20              | 16QAM      | 1       | 0         | 23.36                         | 23.32                            | 23.38                          |
| 20              | 16QAM      | 1       | 49        | 23.27                         | 23.24                            | 23.21                          |
| 20              | 16QAM      | 1       | 99        | 23.19                         | 23.26                            | 23.25                          |
| 20              | 16QAM      | 50      | 0         | 22.27                         | 22.38                            | 22.41                          |
| 20              | 16QAM      | 50      | 24        | 22.30                         | 22.18                            | 22.26                          |
| 20              | 16QAM      | 50      | 50        | 22.15                         | 22.23                            | 22.20                          |
| 20              | 16QAM      | 100     | 0         | 22.29                         | 22.35                            | 22.37                          |
| 20              | 64QAM      | 1       | 0         | 23.20                         | 23.25                            | 23.29                          |
| 20              | 64QAM      | 1       | 49        | 23.35                         | 23.30                            | 23.27                          |
| 20              | 64QAM      | 1       | 99        | 23.20                         | 23.12                            | 23.16                          |
| 20              | 64QAM      | 50      | 0         | 22.33                         | 22.35                            | 22.24                          |
| 20              | 64QAM      | 50      | 24        | 22.20                         | 22.19                            | 22.13                          |
| 20              | 64QAM      | 50      | 50        | 22.23                         | 22.25                            | 22.20                          |
| 20              | 64QAM      | 100     | 0         | 22.34                         | 22.29                            | 22.32                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18675                         | 18900                            | 19125                          |
| Frequency (MHz) |            |         |           | 1857.5                        | 1880                             | 1902.5                         |
| 15              | QPSK       | 1       | 0         | 24.35                         | 24.40                            | 24.21                          |
| 15              | QPSK       | 1       | 37        | 24.16                         | 24.26                            | 24.11                          |
| 15              | QPSK       | 1       | 74        | 24.29                         | 24.17                            | 24.19                          |
| 15              | QPSK       | 36      | 0         | 23.53                         | 23.43                            | 23.44                          |
| 15              | QPSK       | 36      | 20        | 23.27                         | 23.11                            | 23.16                          |
| 15              | QPSK       | 36      | 39        | 23.29                         | 23.36                            | 23.36                          |
| 15              | QPSK       | 75      | 0         | 23.36                         | 23.27                            | 23.30                          |
| 15              | 16QAM      | 1       | 0         | 23.35                         | 23.39                            | 23.29                          |
| 15              | 16QAM      | 1       | 37        | 23.12                         | 23.03                            | 23.24                          |
| 15              | 16QAM      | 1       | 74        | 23.44                         | 23.48                            | 23.42                          |
| 15              | 16QAM      | 36      | 0         | 22.28                         | 22.30                            | 22.36                          |
| 15              | 16QAM      | 36      | 20        | 22.10                         | 22.43                            | 22.09                          |
| 15              | 16QAM      | 36      | 39        | 22.10                         | 22.36                            | 22.31                          |
| 15              | 16QAM      | 75      | 0         | 22.44                         | 22.10                            | 22.26                          |
| 15              | 64QAM      | 1       | 0         | 23.35                         | 23.22                            | 23.17                          |
| 15              | 64QAM      | 1       | 37        | 23.20                         | 23.09                            | 23.24                          |
| 15              | 64QAM      | 1       | 74        | 23.33                         | 23.08                            | 23.36                          |
| 15              | 64QAM      | 36      | 0         | 22.16                         | 22.39                            | 22.24                          |
| 15              | 64QAM      | 36      | 20        | 22.35                         | 22.03                            | 22.24                          |
| 15              | 64QAM      | 36      | 39        | 22.08                         | 22.01                            | 22.12                          |
| 15              | 64QAM      | 75      | 0         | 22.36                         | 22.27                            | 22.13                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18650                         | 18900                            | 19150                          |
| Frequency (MHz) |            |         |           | 1855                          | 1880                             | 1905                           |
| 10              | QPSK       | 1       | 0         | 24.29                         | 24.36                            | 24.35                          |
| 10              | QPSK       | 1       | 25        | 24.28                         | 24.30                            | 24.10                          |
| 10              | QPSK       | 1       | 49        | 24.31                         | 24.29                            | 24.27                          |
| 10              | QPSK       | 25      | 0         | 23.49                         | 23.40                            | 23.10                          |
| 10              | QPSK       | 25      | 12        | 23.20                         | 23.47                            | 23.04                          |
| 10              | QPSK       | 25      | 25        | 23.07                         | 23.18                            | 23.20                          |
| 10              | QPSK       | 50      | 0         | 23.45                         | 23.30                            | 23.38                          |
| 10              | 16QAM      | 1       | 0         | 23.45                         | 23.14                            | 23.43                          |
| 10              | 16QAM      | 1       | 25        | 23.40                         | 23.17                            | 23.05                          |
| 10              | 16QAM      | 1       | 49        | 23.18                         | 23.12                            | 23.45                          |
| 10              | 16QAM      | 25      | 0         | 22.45                         | 22.47                            | 22.36                          |
| 10              | 16QAM      | 25      | 12        | 22.33                         | 22.17                            | 22.41                          |
| 10              | 16QAM      | 25      | 25        | 22.19                         | 22.21                            | 22.08                          |
| 10              | 16QAM      | 50      | 0         | 22.48                         | 22.31                            | 22.28                          |
| 10              | 64QAM      | 1       | 0         | 23.42                         | 23.30                            | 23.20                          |
| 10              | 64QAM      | 1       | 25        | 23.51                         | 23.17                            | 23.47                          |
| 10              | 64QAM      | 1       | 49        | 23.21                         | 23.30                            | 23.13                          |
| 10              | 64QAM      | 25      | 0         | 22.23                         | 22.33                            | 22.45                          |
| 10              | 64QAM      | 25      | 12        | 22.11                         | 22.18                            | 22.09                          |
| 10              | 64QAM      | 25      | 25        | 22.33                         | 22.19                            | 22.23                          |
| 10              | 64QAM      | 50      | 0         | 22.09                         | 22.29                            | 22.12                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18625                         | 18900                            | 19175                          |
| Frequency (MHz) |            |         |           | 1852.5                        | 1880                             | 1907.5                         |
| 5               | QPSK       | 1       | 0         | 24.14                         | 24.35                            | 24.26                          |
| 5               | QPSK       | 1       | 12        | 24.19                         | 24.24                            | 24.28                          |
| 5               | QPSK       | 1       | 24        | 24.24                         | 24.31                            | 24.35                          |
| 5               | QPSK       | 12      | 0         | 23.22                         | 23.33                            | 23.12                          |
| 5               | QPSK       | 12      | 7         | 23.15                         | 23.31                            | 23.06                          |
| 5               | QPSK       | 12      | 13        | 23.02                         | 23.09                            | 23.15                          |
| 5               | QPSK       | 25      | 0         | 23.17                         | 23.39                            | 23.45                          |
| 5               | 16QAM      | 1       | 0         | 23.17                         | 23.31                            | 23.41                          |
| 5               | 16QAM      | 1       | 12        | 23.43                         | 23.33                            | 23.37                          |
| 5               | 16QAM      | 1       | 24        | 23.18                         | 23.13                            | 23.21                          |
| 5               | 16QAM      | 12      | 0         | 22.25                         | 22.45                            | 22.36                          |
| 5               | 16QAM      | 12      | 7         | 22.24                         | 22.39                            | 22.33                          |
| 5               | 16QAM      | 12      | 13        | 22.31                         | 22.18                            | 22.14                          |
| 5               | 16QAM      | 25      | 0         | 22.33                         | 22.30                            | 22.48                          |
| 5               | 64QAM      | 1       | 0         | 23.29                         | 23.30                            | 23.51                          |
| 5               | 64QAM      | 1       | 12        | 23.33                         | 23.28                            | 23.19                          |
| 5               | 64QAM      | 1       | 24        | 23.37                         | 23.34                            | 23.38                          |
| 5               | 64QAM      | 12      | 0         | 22.27                         | 22.35                            | 22.16                          |
| 5               | 64QAM      | 12      | 7         | 22.20                         | 22.16                            | 22.29                          |
| 5               | 64QAM      | 12      | 13        | 22.15                         | 22.21                            | 22.27                          |
| 5               | 64QAM      | 25      | 0         | 22.17                         | 22.23                            | 22.42                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18615                         | 18900                            | 19185                          |
| Frequency (MHz) |            |         |           | 1851.5                        | 1880                             | 1908.5                         |
| 3               | QPSK       | 1       | 0         | 24.33                         | 24.35                            | 24.31                          |
| 3               | QPSK       | 1       | 8         | 24.27                         | 24.28                            | 24.26                          |
| 3               | QPSK       | 1       | 14        | 24.34                         | 24.13                            | 24.05                          |
| 3               | QPSK       | 8       | 0         | 23.12                         | 23.33                            | 23.31                          |
| 3               | QPSK       | 8       | 4         | 23.11                         | 23.38                            | 23.12                          |
| 3               | QPSK       | 8       | 7         | 23.14                         | 23.09                            | 23.15                          |
| 3               | QPSK       | 15      | 0         | 23.18                         | 23.57                            | 23.61                          |
| 3               | 16QAM      | 1       | 0         | 23.35                         | 23.38                            | 23.14                          |
| 3               | 16QAM      | 1       | 8         | 23.04                         | 23.45                            | 23.43                          |
| 3               | 16QAM      | 1       | 14        | 23.20                         | 23.16                            | 23.08                          |
| 3               | 16QAM      | 8       | 0         | 22.04                         | 22.41                            | 22.29                          |
| 3               | 16QAM      | 8       | 4         | 22.39                         | 22.26                            | 22.43                          |
| 3               | 16QAM      | 8       | 7         | 22.11                         | 22.25                            | 22.30                          |
| 3               | 16QAM      | 15      | 0         | 22.10                         | 22.20                            | 22.24                          |
| 3               | 64QAM      | 1       | 0         | 23.28                         | 23.39                            | 23.29                          |
| 3               | 64QAM      | 1       | 8         | 23.27                         | 23.23                            | 23.10                          |
| 3               | 64QAM      | 1       | 14        | 23.27                         | 23.13                            | 23.09                          |
| 3               | 64QAM      | 8       | 0         | 22.21                         | 22.10                            | 22.46                          |
| 3               | 64QAM      | 8       | 4         | 22.36                         | 22.26                            | 22.32                          |
| 3               | 64QAM      | 8       | 7         | 22.20                         | 22.29                            | 22.19                          |
| 3               | 64QAM      | 15      | 0         | 22.25                         | 22.33                            | 22.33                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18607                         | 18900                            | 19193                          |
| Frequency (MHz) |            |         |           | 1850.7                        | 1880                             | 1909.3                         |
| 1.4             | QPSK       | 1       | 0         | 24.29                         | 24.33                            | 24.27                          |
| 1.4             | QPSK       | 1       | 3         | 24.06                         | 24.29                            | 24.25                          |
| 1.4             | QPSK       | 1       | 5         | 24.16                         | 24.07                            | 24.16                          |
| 1.4             | QPSK       | 3       | 0         | 23.23                         | 23.36                            | 23.09                          |
| 1.4             | QPSK       | 3       | 1         | 23.00                         | 23.33                            | 23.26                          |
| 1.4             | QPSK       | 3       | 3         | 23.41                         | 23.19                            | 23.06                          |
| 1.4             | QPSK       | 6       | 0         | 23.33                         | 23.11                            | 23.54                          |
| 1.4             | 16QAM      | 1       | 0         | 23.36                         | 23.41                            | 23.25                          |
| 1.4             | 16QAM      | 1       | 3         | 23.27                         | 23.07                            | 23.31                          |
| 1.4             | 16QAM      | 1       | 5         | 23.14                         | 23.37                            | 23.27                          |
| 1.4             | 16QAM      | 3       | 0         | 22.04                         | 22.39                            | 22.39                          |
| 1.4             | 16QAM      | 3       | 1         | 22.21                         | 22.02                            | 22.08                          |
| 1.4             | 16QAM      | 3       | 3         | 22.10                         | 22.39                            | 22.25                          |
| 1.4             | 16QAM      | 6       | 0         | 22.30                         | 22.53                            | 22.47                          |
| 1.4             | 64QAM      | 1       | 0         | 23.04                         | 23.09                            | 23.34                          |
| 1.4             | 64QAM      | 1       | 3         | 23.33                         | 23.13                            | 23.29                          |
| 1.4             | 64QAM      | 1       | 5         | 23.22                         | 23.06                            | 23.23                          |
| 1.4             | 64QAM      | 3       | 0         | 22.17                         | 22.48                            | 22.24                          |
| 1.4             | 64QAM      | 3       | 1         | 22.35                         | 22.14                            | 22.29                          |
| 1.4             | 64QAM      | 3       | 3         | 22.09                         | 22.04                            | 22.11                          |
| 1.4             | 64QAM      | 6       | 0         | 22.26                         | 22.18                            | 22.42                          |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20050                               | 20175                                  | 20300                                |
| Frequency (MHz) |            |            |              | 1720                                | 1732.5                                 | 1745                                 |
| 20              | QPSK       | 1          | 0            | 24.35                               | 24.40                                  | 24.38                                |
| 20              | QPSK       | 1          | 49           | 24.31                               | 24.20                                  | 24.30                                |
| 20              | QPSK       | 1          | 99           | 24.22                               | 24.26                                  | 24.21                                |
| 20              | QPSK       | 50         | 0            | 23.43                               | 23.44                                  | 23.19                                |
| 20              | QPSK       | 50         | 24           | 23.38                               | 23.31                                  | 23.34                                |
| 20              | QPSK       | 50         | 50           | 23.41                               | 23.17                                  | 23.31                                |
| 20              | QPSK       | 100        | 0            | 23.18                               | 23.37                                  | 23.30                                |
| 20              | 16QAM      | 1          | 0            | 23.35                               | 23.38                                  | 23.32                                |
| 20              | 16QAM      | 1          | 49           | 23.02                               | 23.07                                  | 23.09                                |
| 20              | 16QAM      | 1          | 99           | 23.10                               | 23.33                                  | 23.16                                |
| 20              | 16QAM      | 50         | 0            | 22.19                               | 22.32                                  | 22.31                                |
| 20              | 16QAM      | 50         | 24           | 22.15                               | 22.25                                  | 22.19                                |
| 20              | 16QAM      | 50         | 50           | 22.19                               | 22.14                                  | 22.22                                |
| 20              | 16QAM      | 100        | 0            | 22.15                               | 22.32                                  | 22.55                                |
| 20              | 64QAM      | 1          | 0            | 23.22                               | 23.31                                  | 23.41                                |
| 20              | 64QAM      | 1          | 49           | 23.36                               | 23.25                                  | 23.15                                |
| 20              | 64QAM      | 1          | 99           | 23.15                               | 23.35                                  | 23.09                                |
| 20              | 64QAM      | 50         | 0            | 22.08                               | 22.33                                  | 22.01                                |
| 20              | 64QAM      | 50         | 24           | 21.95                               | 22.10                                  | 22.17                                |
| 20              | 64QAM      | 50         | 50           | 22.40                               | 22.17                                  | 22.25                                |
| 20              | 64QAM      | 100        | 0            | 22.51                               | 22.36                                  | 22.34                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20025                               | 20175                                  | 20325                                |
| Frequency (MHz) |            |            |              | 1717.5                              | 1732.5                                 | 1747.5                               |
| 15              | QPSK       | 1          | 0            | 24.26                               | 24.33                                  | 24.20                                |
| 15              | QPSK       | 1          | 37           | 24.28                               | 24.25                                  | 24.28                                |
| 15              | QPSK       | 1          | 74           | 24.22                               | 24.28                                  | 24.16                                |
| 15              | QPSK       | 36         | 0            | 23.28                               | 23.32                                  | 23.27                                |
| 15              | QPSK       | 36         | 20           | 23.07                               | 23.23                                  | 23.31                                |
| 15              | QPSK       | 36         | 39           | 23.19                               | 23.16                                  | 23.12                                |
| 15              | QPSK       | 75         | 0            | 23.46                               | 23.13                                  | 23.32                                |
| 15              | 16QAM      | 1          | 0            | 23.40                               | 23.39                                  | 23.18                                |
| 15              | 16QAM      | 1          | 37           | 23.15                               | 23.44                                  | 23.24                                |
| 15              | 16QAM      | 1          | 74           | 23.23                               | 23.05                                  | 23.35                                |
| 15              | 16QAM      | 36         | 0            | 22.21                               | 22.39                                  | 22.35                                |
| 15              | 16QAM      | 36         | 20           | 22.30                               | 22.18                                  | 22.36                                |
| 15              | 16QAM      | 36         | 39           | 22.10                               | 22.40                                  | 22.12                                |
| 15              | 16QAM      | 75         | 0            | 22.14                               | 22.22                                  | 22.20                                |
| 15              | 64QAM      | 1          | 0            | 23.24                               | 23.08                                  | 23.33                                |
| 15              | 64QAM      | 1          | 37           | 23.23                               | 23.38                                  | 23.21                                |
| 15              | 64QAM      | 1          | 74           | 23.24                               | 23.19                                  | 23.41                                |
| 15              | 64QAM      | 36         | 0            | 22.33                               | 22.24                                  | 22.23                                |
| 15              | 64QAM      | 36         | 20           | 22.30                               | 22.43                                  | 22.19                                |
| 15              | 64QAM      | 36         | 39           | 22.02                               | 22.32                                  | 22.03                                |
| 15              | 64QAM      | 75         | 0            | 22.25                               | 22.38                                  | 22.10                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20000                               | 20175                                  | 20350                                |
| Frequency (MHz) |            |            |              | 1715                                | 1732.5                                 | 1750                                 |
| 10              | QPSK       | 1          | 0            | 24.23                               | 24.34                                  | 24.23                                |
| 10              | QPSK       | 1          | 25           | 24.19                               | 24.33                                  | 24.27                                |
| 10              | QPSK       | 1          | 49           | 24.20                               | 24.10                                  | 24.21                                |
| 10              | QPSK       | 25         | 0            | 23.36                               | 23.49                                  | 23.17                                |
| 10              | QPSK       | 25         | 12           | 23.29                               | 23.15                                  | 23.14                                |
| 10              | QPSK       | 25         | 25           | 23.35                               | 23.26                                  | 23.29                                |
| 10              | QPSK       | 50         | 0            | 23.37                               | 23.36                                  | 23.26                                |
| 10              | 16QAM      | 1          | 0            | 23.34                               | 23.34                                  | 23.18                                |
| 10              | 16QAM      | 1          | 25           | 23.33                               | 23.38                                  | 23.10                                |
| 10              | 16QAM      | 1          | 49           | 23.27                               | 23.09                                  | 23.43                                |
| 10              | 16QAM      | 25         | 0            | 22.21                               | 22.20                                  | 22.27                                |
| 10              | 16QAM      | 25         | 12           | 22.33                               | 22.14                                  | 22.25                                |
| 10              | 16QAM      | 25         | 25           | 22.12                               | 22.28                                  | 22.23                                |
| 10              | 16QAM      | 50         | 0            | 22.32                               | 22.11                                  | 22.29                                |
| 10              | 64QAM      | 1          | 0            | 23.27                               | 23.14                                  | 23.27                                |
| 10              | 64QAM      | 1          | 25           | 23.19                               | 23.16                                  | 23.40                                |
| 10              | 64QAM      | 1          | 49           | 23.27                               | 23.25                                  | 23.11                                |
| 10              | 64QAM      | 25         | 0            | 22.43                               | 22.33                                  | 22.19                                |
| 10              | 64QAM      | 25         | 12           | 22.39                               | 22.14                                  | 22.25                                |
| 10              | 64QAM      | 25         | 25           | 22.12                               | 22.28                                  | 22.07                                |
| 10              | 64QAM      | 50         | 0            | 22.51                               | 22.23                                  | 22.44                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 19975                               | 20175                                  | 20375                                |
| Frequency (MHz) |            |            |              | 1712.5                              | 1732.5                                 | 1752.5                               |
| 5               | QPSK       | 1          | 0            | 24.18                               | 24.32                                  | 24.24                                |
| 5               | QPSK       | 1          | 12           | 24.27                               | 24.21                                  | 24.26                                |
| 5               | QPSK       | 1          | 24           | 24.16                               | 24.19                                  | 24.09                                |
| 5               | QPSK       | 12         | 0            | 23.08                               | 23.41                                  | 23.25                                |
| 5               | QPSK       | 12         | 7            | 23.04                               | 23.16                                  | 23.14                                |
| 5               | QPSK       | 12         | 13           | 23.09                               | 23.04                                  | 23.16                                |
| 5               | QPSK       | 25         | 0            | 23.14                               | 23.15                                  | 23.21                                |
| 5               | 16QAM      | 1          | 0            | 23.40                               | 23.41                                  | 23.33                                |
| 5               | 16QAM      | 1          | 12           | 23.17                               | 23.22                                  | 23.32                                |
| 5               | 16QAM      | 1          | 24           | 23.14                               | 23.37                                  | 23.41                                |
| 5               | 16QAM      | 12         | 0            | 22.27                               | 22.40                                  | 22.31                                |
| 5               | 16QAM      | 12         | 7            | 22.41                               | 22.11                                  | 22.32                                |
| 5               | 16QAM      | 12         | 13           | 22.16                               | 22.15                                  | 22.41                                |
| 5               | 16QAM      | 25         | 0            | 22.30                               | 22.42                                  | 22.35                                |
| 5               | 64QAM      | 1          | 0            | 23.21                               | 23.22                                  | 23.09                                |
| 5               | 64QAM      | 1          | 12           | 23.17                               | 23.32                                  | 23.36                                |
| 5               | 64QAM      | 1          | 24           | 23.05                               | 23.13                                  | 23.13                                |
| 5               | 64QAM      | 12         | 0            | 22.21                               | 22.14                                  | 22.08                                |
| 5               | 64QAM      | 12         | 7            | 22.26                               | 22.21                                  | 22.09                                |
| 5               | 64QAM      | 12         | 13           | 22.04                               | 22.04                                  | 22.25                                |
| 5               | 64QAM      | 25         | 0            | 22.36                               | 22.32                                  | 22.35                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 19965                               | 20175                                  | 20385                                |
| Frequency (MHz) |            |            |              | 1711.5                              | 1732.5                                 | 1753.5                               |
| 3               | QPSK       | 1          | 0            | 24.29                               | 24.33                                  | 24.23                                |
| 3               | QPSK       | 1          | 8            | 24.11                               | 24.23                                  | 24.13                                |
| 3               | QPSK       | 1          | 14           | 24.28                               | 24.24                                  | 24.29                                |
| 3               | QPSK       | 8          | 0            | 23.25                               | 23.26                                  | 23.20                                |
| 3               | QPSK       | 8          | 4            | 23.16                               | 23.30                                  | 23.22                                |
| 3               | QPSK       | 8          | 7            | 23.12                               | 23.21                                  | 23.04                                |
| 3               | QPSK       | 15         | 0            | 23.48                               | 23.13                                  | 23.24                                |
| 3               | 16QAM      | 1          | 0            | 23.17                               | 23.16                                  | 23.28                                |
| 3               | 16QAM      | 1          | 8            | 23.17                               | 23.08                                  | 23.13                                |
| 3               | 16QAM      | 1          | 14           | 23.18                               | 23.12                                  | 23.15                                |
| 3               | 16QAM      | 8          | 0            | 22.25                               | 22.43                                  | 22.36                                |
| 3               | 16QAM      | 8          | 4            | 22.19                               | 22.22                                  | 22.07                                |
| 3               | 16QAM      | 8          | 7            | 22.16                               | 22.28                                  | 22.19                                |
| 3               | 16QAM      | 15         | 0            | 22.23                               | 22.10                                  | 22.12                                |
| 3               | 64QAM      | 1          | 0            | 23.41                               | 23.39                                  | 23.29                                |
| 3               | 64QAM      | 1          | 8            | 23.25                               | 23.52                                  | 23.11                                |
| 3               | 64QAM      | 1          | 14           | 23.33                               | 23.19                                  | 23.19                                |
| 3               | 64QAM      | 8          | 0            | 22.10                               | 22.23                                  | 22.18                                |
| 3               | 64QAM      | 8          | 4            | 22.29                               | 22.14                                  | 22.03                                |
| 3               | 64QAM      | 8          | 7            | 22.25                               | 22.13                                  | 22.07                                |
| 3               | 64QAM      | 15         | 0            | 22.21                               | 22.14                                  | 22.21                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 19957                               | 20175                                  | 20393                                |
| Frequency (MHz) |            |            |              | 1710.7                              | 1732.5                                 | 1754.3                               |
| 1.4             | QPSK       | 1          | 0            | 24.31                               | 24.35                                  | 24.26                                |
| 1.4             | QPSK       | 1          | 3            | 24.31                               | 24.18                                  | 24.30                                |
| 1.4             | QPSK       | 1          | 5            | 24.18                               | 24.26                                  | 24.11                                |
| 1.4             | QPSK       | 3          | 0            | 23.21                               | 23.30                                  | 23.40                                |
| 1.4             | QPSK       | 3          | 1            | 23.32                               | 23.35                                  | 23.15                                |
| 1.4             | QPSK       | 3          | 3            | 23.11                               | 23.28                                  | 23.21                                |
| 1.4             | QPSK       | 6          | 0            | 23.46                               | 23.27                                  | 23.58                                |
| 1.4             | 16QAM      | 1          | 0            | 23.30                               | 23.20                                  | 23.21                                |
| 1.4             | 16QAM      | 1          | 3            | 23.40                               | 23.30                                  | 23.30                                |
| 1.4             | 16QAM      | 1          | 5            | 23.12                               | 23.40                                  | 23.06                                |
| 1.4             | 16QAM      | 3          | 0            | 22.25                               | 22.27                                  | 22.33                                |
| 1.4             | 16QAM      | 3          | 1            | 22.19                               | 22.07                                  | 22.31                                |
| 1.4             | 16QAM      | 3          | 3            | 22.35                               | 22.43                                  | 22.15                                |
| 1.4             | 16QAM      | 6          | 0            | 22.34                               | 22.20                                  | 22.52                                |
| 1.4             | 64QAM      | 1          | 0            | 23.21                               | 23.24                                  | 23.44                                |
| 1.4             | 64QAM      | 1          | 3            | 23.17                               | 23.27                                  | 23.02                                |
| 1.4             | 64QAM      | 1          | 5            | 23.13                               | 23.19                                  | 23.20                                |
| 1.4             | 64QAM      | 3          | 0            | 22.22                               | 22.25                                  | 22.18                                |
| 1.4             | 64QAM      | 3          | 1            | 22.10                               | 22.08                                  | 22.09                                |
| 1.4             | 64QAM      | 3          | 3            | 22.09                               | 22.35                                  | 22.04                                |
| 1.4             | 64QAM      | 6          | 0            | 22.31                               | 22.17                                  | 22.37                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20850                               | 21100                                  | 21350                                |
| Frequency (MHz) |            |            |              | 2510                                | 2535                                   | 2560                                 |
| 20              | QPSK       | 1          | 0            | 23.70                               | 23.86                                  | 23.80                                |
| 20              | QPSK       | 1          | 49           | 23.57                               | 23.77                                  | 23.68                                |
| 20              | QPSK       | 1          | 99           | 23.61                               | 23.66                                  | 23.66                                |
| 20              | QPSK       | 50         | 0            | 22.68                               | 22.90                                  | 22.82                                |
| 20              | QPSK       | 50         | 24           | 22.74                               | 22.81                                  | 22.83                                |
| 20              | QPSK       | 50         | 50           | 22.64                               | 22.76                                  | 22.84                                |
| 20              | QPSK       | 100        | 0            | 23.00                               | 22.77                                  | 23.06                                |
| 20              | 16QAM      | 1          | 0            | 22.62                               | 22.67                                  | 22.85                                |
| 20              | 16QAM      | 1          | 49           | 22.82                               | 22.55                                  | 22.59                                |
| 20              | 16QAM      | 1          | 99           | 22.67                               | 22.81                                  | 22.58                                |
| 20              | 16QAM      | 50         | 0            | 21.86                               | 21.77                                  | 21.75                                |
| 20              | 16QAM      | 50         | 24           | 21.78                               | 21.82                                  | 21.77                                |
| 20              | 16QAM      | 50         | 50           | 21.49                               | 21.63                                  | 21.61                                |
| 20              | 16QAM      | 100        | 0            | 21.79                               | 21.94                                  | 22.00                                |
| 20              | 64QAM      | 1          | 0            | 22.62                               | 22.75                                  | 22.84                                |
| 20              | 64QAM      | 1          | 49           | 22.82                               | 22.86                                  | 22.83                                |
| 20              | 64QAM      | 1          | 99           | 22.63                               | 22.61                                  | 22.83                                |
| 20              | 64QAM      | 50         | 0            | 21.86                               | 21.68                                  | 21.76                                |
| 20              | 64QAM      | 50         | 24           | 21.79                               | 21.94                                  | 21.55                                |
| 20              | 64QAM      | 50         | 50           | 21.94                               | 21.63                                  | 21.87                                |
| 20              | 64QAM      | 100        | 0            | 21.67                               | 21.80                                  | 21.71                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20825                               | 21100                                  | 21375                                |
| Frequency (MHz) |            |            |              | 2507.5                              | 2535                                   | 2562.5                               |
| 15              | QPSK       | 1          | 0            | 23.65                               | 23.79                                  | 23.77                                |
| 15              | QPSK       | 1          | 37           | 23.65                               | 23.71                                  | 23.77                                |
| 15              | QPSK       | 1          | 74           | 23.68                               | 23.57                                  | 23.67                                |
| 15              | QPSK       | 36         | 0            | 22.76                               | 22.76                                  | 22.92                                |
| 15              | QPSK       | 36         | 20           | 22.70                               | 22.77                                  | 22.56                                |
| 15              | QPSK       | 36         | 39           | 22.69                               | 22.92                                  | 22.87                                |
| 15              | QPSK       | 75         | 0            | 22.86                               | 22.58                                  | 22.72                                |
| 15              | 16QAM      | 1          | 0            | 22.93                               | 22.97                                  | 22.88                                |
| 15              | 16QAM      | 1          | 37           | 22.60                               | 22.82                                  | 22.92                                |
| 15              | 16QAM      | 1          | 74           | 22.68                               | 22.79                                  | 22.90                                |
| 15              | 16QAM      | 36         | 0            | 21.79                               | 21.77                                  | 21.89                                |
| 15              | 16QAM      | 36         | 20           | 21.61                               | 21.45                                  | 21.71                                |
| 15              | 16QAM      | 36         | 39           | 21.59                               | 21.49                                  | 21.83                                |
| 15              | 16QAM      | 75         | 0            | 21.89                               | 21.89                                  | 21.96                                |
| 15              | 64QAM      | 1          | 0            | 22.90                               | 22.88                                  | 22.71                                |
| 15              | 64QAM      | 1          | 37           | 22.67                               | 22.65                                  | 22.64                                |
| 15              | 64QAM      | 1          | 74           | 22.89                               | 22.78                                  | 22.76                                |
| 15              | 64QAM      | 36         | 0            | 21.61                               | 21.67                                  | 21.84                                |
| 15              | 64QAM      | 36         | 20           | 21.79                               | 21.55                                  | 21.71                                |
| 15              | 64QAM      | 36         | 39           | 21.59                               | 21.59                                  | 21.79                                |
| 15              | 64QAM      | 75         | 0            | 21.72                               | 21.71                                  | 21.65                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20800                               | 21100                                  | 21400                                |
| Frequency (MHz) |            |            |              | 2505                                | 2535                                   | 2565                                 |
| 10              | QPSK       | 1          | 0            | 23.71                               | 23.80                                  | 23.75                                |
| 10              | QPSK       | 1          | 25           | 23.74                               | 23.73                                  | 23.69                                |
| 10              | QPSK       | 1          | 49           | 23.62                               | 23.78                                  | 23.57                                |
| 10              | QPSK       | 25         | 0            | 22.59                               | 22.74                                  | 22.65                                |
| 10              | QPSK       | 25         | 12           | 22.68                               | 22.62                                  | 22.63                                |
| 10              | QPSK       | 25         | 25           | 22.87                               | 22.60                                  | 22.77                                |
| 10              | QPSK       | 50         | 0            | 22.77                               | 22.87                                  | 22.80                                |
| 10              | 16QAM      | 1          | 0            | 22.77                               | 22.85                                  | 22.87                                |
| 10              | 16QAM      | 1          | 25           | 22.87                               | 22.68                                  | 22.78                                |
| 10              | 16QAM      | 1          | 49           | 22.66                               | 22.73                                  | 22.52                                |
| 10              | 16QAM      | 25         | 0            | 21.87                               | 21.64                                  | 21.84                                |
| 10              | 16QAM      | 25         | 12           | 21.74                               | 21.58                                  | 21.86                                |
| 10              | 16QAM      | 25         | 25           | 21.71                               | 21.83                                  | 21.58                                |
| 10              | 16QAM      | 50         | 0            | 21.76                               | 21.82                                  | 21.80                                |
| 10              | 64QAM      | 1          | 0            | 22.75                               | 22.64                                  | 22.72                                |
| 10              | 64QAM      | 1          | 25           | 22.89                               | 22.80                                  | 22.85                                |
| 10              | 64QAM      | 1          | 49           | 22.82                               | 22.70                                  | 22.49                                |
| 10              | 64QAM      | 25         | 0            | 21.58                               | 21.88                                  | 21.92                                |
| 10              | 64QAM      | 25         | 12           | 21.62                               | 21.76                                  | 21.60                                |
| 10              | 64QAM      | 25         | 25           | 21.56                               | 21.97                                  | 21.60                                |
| 10              | 64QAM      | 50         | 0            | 21.73                               | 21.66                                  | 21.78                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20775                               | 21100                                  | 21425                                |
| Frequency (MHz) |            |            |              | 2502.5                              | 2535                                   | 2567.5                               |
| 5               | QPSK       | 1          | 0            | 23.70                               | 23.81                                  | 23.77                                |
| 5               | QPSK       | 1          | 12           | 23.64                               | 23.69                                  | 23.70                                |
| 5               | QPSK       | 1          | 24           | 23.74                               | 23.62                                  | 23.59                                |
| 5               | QPSK       | 12         | 0            | 22.58                               | 22.74                                  | 22.84                                |
| 5               | QPSK       | 12         | 7            | 22.88                               | 22.73                                  | 22.72                                |
| 5               | QPSK       | 12         | 13           | 22.89                               | 22.82                                  | 22.58                                |
| 5               | QPSK       | 25         | 0            | 22.59                               | 22.63                                  | 22.78                                |
| 5               | 16QAM      | 1          | 0            | 22.64                               | 22.75                                  | 22.89                                |
| 5               | 16QAM      | 1          | 12           | 22.70                               | 22.86                                  | 22.63                                |
| 5               | 16QAM      | 1          | 24           | 22.73                               | 22.92                                  | 22.86                                |
| 5               | 16QAM      | 12         | 0            | 21.70                               | 21.82                                  | 21.96                                |
| 5               | 16QAM      | 12         | 7            | 21.59                               | 21.73                                  | 21.52                                |
| 5               | 16QAM      | 12         | 13           | 21.51                               | 21.65                                  | 21.89                                |
| 5               | 16QAM      | 25         | 0            | 21.82                               | 21.88                                  | 21.71                                |
| 5               | 64QAM      | 1          | 0            | 22.71                               | 22.75                                  | 22.57                                |
| 5               | 64QAM      | 1          | 12           | 22.67                               | 22.75                                  | 22.79                                |
| 5               | 64QAM      | 1          | 24           | 22.89                               | 22.60                                  | 22.66                                |
| 5               | 64QAM      | 12         | 0            | 21.74                               | 21.83                                  | 21.68                                |
| 5               | 64QAM      | 12         | 7            | 21.65                               | 21.72                                  | 21.78                                |
| 5               | 64QAM      | 12         | 13           | 21.70                               | 21.55                                  | 21.81                                |
| 5               | 64QAM      | 25         | 0            | 21.98                               | 21.86                                  | 21.77                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23060                               | 23095                                  | 23130                                |
| Frequency (MHz) |            |            |              | 704                                 | 707.5                                  | 711                                  |
| 10              | QPSK       | 1          | 0            | 23.69                               | 23.74                                  | 23.65                                |
| 10              | QPSK       | 1          | 25           | 23.64                               | 23.62                                  | 23.58                                |
| 10              | QPSK       | 1          | 49           | 23.60                               | 23.53                                  | 23.53                                |
| 10              | QPSK       | 25         | 0            | 22.67                               | 22.82                                  | 22.80                                |
| 10              | QPSK       | 25         | 12           | 22.74                               | 22.75                                  | 22.55                                |
| 10              | QPSK       | 25         | 25           | 22.75                               | 22.75                                  | 22.89                                |
| 10              | QPSK       | 50         | 0            | 22.70                               | 22.90                                  | 22.82                                |
| 10              | 16QAM      | 1          | 0            | 22.67                               | 22.73                                  | 22.80                                |
| 10              | 16QAM      | 1          | 25           | 22.63                               | 22.52                                  | 22.82                                |
| 10              | 16QAM      | 1          | 49           | 22.90                               | 22.89                                  | 22.72                                |
| 10              | 16QAM      | 25         | 0            | 21.81                               | 21.92                                  | 21.84                                |
| 10              | 16QAM      | 25         | 12           | 21.76                               | 21.75                                  | 21.93                                |
| 10              | 16QAM      | 25         | 25           | 21.58                               | 21.81                                  | 21.79                                |
| 10              | 16QAM      | 50         | 0            | 21.70                               | 21.89                                  | 21.91                                |
| 10              | 64QAM      | 1          | 0            | 22.55                               | 22.77                                  | 22.74                                |
| 10              | 64QAM      | 1          | 25           | 22.66                               | 22.91                                  | 22.60                                |
| 10              | 64QAM      | 1          | 49           | 22.52                               | 22.85                                  | 22.82                                |
| 10              | 64QAM      | 25         | 0            | 21.91                               | 21.71                                  | 21.56                                |
| 10              | 64QAM      | 25         | 12           | 21.82                               | 21.54                                  | 21.60                                |
| 10              | 64QAM      | 25         | 25           | 21.83                               | 21.89                                  | 21.89                                |
| 10              | 64QAM      | 50         | 0            | 21.60                               | 21.57                                  | 21.82                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23035                               | 23095                                  | 23155                                |
| Frequency (MHz) |            |            |              | 701.5                               | 707.5                                  | 713.5                                |
| 5               | QPSK       | 1          | 0            | 23.64                               | 23.66                                  | 23.61                                |
| 5               | QPSK       | 1          | 12           | 23.63                               | 23.59                                  | 23.53                                |
| 5               | QPSK       | 1          | 24           | 23.55                               | 23.57                                  | 23.59                                |
| 5               | QPSK       | 12         | 0            | 22.60                               | 22.71                                  | 22.75                                |
| 5               | QPSK       | 12         | 7            | 22.65                               | 22.94                                  | 22.78                                |
| 5               | QPSK       | 12         | 13           | 22.70                               | 22.94                                  | 22.64                                |
| 5               | QPSK       | 25         | 0            | 22.81                               | 22.93                                  | 22.65                                |
| 5               | 16QAM      | 1          | 0            | 22.85                               | 22.73                                  | 22.84                                |
| 5               | 16QAM      | 1          | 12           | 22.75                               | 22.89                                  | 22.56                                |
| 5               | 16QAM      | 1          | 24           | 22.73                               | 22.84                                  | 22.85                                |
| 5               | 16QAM      | 12         | 0            | 21.90                               | 21.77                                  | 21.98                                |
| 5               | 16QAM      | 12         | 7            | 21.87                               | 21.89                                  | 21.78                                |
| 5               | 16QAM      | 12         | 13           | 21.58                               | 21.81                                  | 21.57                                |
| 5               | 16QAM      | 25         | 0            | 22.03                               | 21.71                                  | 21.78                                |
| 5               | 64QAM      | 1          | 0            | 22.71                               | 22.66                                  | 22.57                                |
| 5               | 64QAM      | 1          | 12           | 22.60                               | 22.72                                  | 22.61                                |
| 5               | 64QAM      | 1          | 24           | 22.70                               | 22.62                                  | 22.69                                |
| 5               | 64QAM      | 12         | 0            | 21.75                               | 21.85                                  | 21.66                                |
| 5               | 64QAM      | 12         | 7            | 21.58                               | 21.91                                  | 21.60                                |
| 5               | 64QAM      | 12         | 13           | 21.89                               | 21.64                                  | 21.54                                |
| 5               | 64QAM      | 25         | 0            | 21.63                               | 21.76                                  | 21.81                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23025                               | 23095                                  | 23165                                |
| Frequency (MHz) |            |            |              | 700.5                               | 707.5                                  | 714.5                                |
| 3               | QPSK       | 1          | 0            | 23.59                               | 23.68                                  | 23.71                                |
| 3               | QPSK       | 1          | 8            | 23.69                               | 23.62                                  | 23.63                                |
| 3               | QPSK       | 1          | 14           | 23.60                               | 23.71                                  | 23.64                                |
| 3               | QPSK       | 8          | 0            | 22.78                               | 22.90                                  | 22.81                                |
| 3               | QPSK       | 8          | 4            | 22.80                               | 22.71                                  | 22.84                                |
| 3               | QPSK       | 8          | 7            | 22.84                               | 22.54                                  | 22.62                                |
| 3               | QPSK       | 15         | 0            | 22.72                               | 22.83                                  | 22.71                                |
| 3               | 16QAM      | 1          | 0            | 22.92                               | 22.84                                  | 22.89                                |
| 3               | 16QAM      | 1          | 8            | 22.91                               | 22.84                                  | 22.68                                |
| 3               | 16QAM      | 1          | 14           | 22.59                               | 22.68                                  | 22.96                                |
| 3               | 16QAM      | 8          | 0            | 21.88                               | 21.74                                  | 21.86                                |
| 3               | 16QAM      | 8          | 4            | 21.62                               | 21.66                                  | 21.95                                |
| 3               | 16QAM      | 8          | 7            | 21.52                               | 21.79                                  | 21.59                                |
| 3               | 16QAM      | 15         | 0            | 21.75                               | 21.78                                  | 21.80                                |
| 3               | 64QAM      | 1          | 0            | 22.82                               | 22.91                                  | 22.82                                |
| 3               | 64QAM      | 1          | 8            | 22.67                               | 22.70                                  | 22.65                                |
| 3               | 64QAM      | 1          | 14           | 22.59                               | 22.51                                  | 22.67                                |
| 3               | 64QAM      | 8          | 0            | 21.64                               | 21.86                                  | 21.62                                |
| 3               | 64QAM      | 8          | 4            | 21.68                               | 21.90                                  | 21.88                                |
| 3               | 64QAM      | 8          | 7            | 21.69                               | 21.81                                  | 21.65                                |
| 3               | 64QAM      | 15         | 0            | 21.65                               | 21.89                                  | 21.67                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23017                               | 23095                                  | 23173                                |
| Frequency (MHz) |            |            |              | 699.7                               | 707.5                                  | 715.3                                |
| 1.4             | QPSK       | 1          | 0            | 23.67                               | 23.71                                  | 23.70                                |
| 1.4             | QPSK       | 1          | 3            | 23.63                               | 23.64                                  | 23.64                                |
| 1.4             | QPSK       | 1          | 5            | 23.55                               | 23.63                                  | 23.59                                |
| 1.4             | QPSK       | 3          | 0            | 22.60                               | 22.90                                  | 22.82                                |
| 1.4             | QPSK       | 3          | 1            | 22.54                               | 22.80                                  | 22.76                                |
| 1.4             | QPSK       | 3          | 3            | 22.84                               | 22.79                                  | 22.65                                |
| 1.4             | QPSK       | 6          | 0            | 22.90                               | 22.81                                  | 23.03                                |
| 1.4             | 16QAM      | 1          | 0            | 22.75                               | 22.88                                  | 22.79                                |
| 1.4             | 16QAM      | 1          | 3            | 22.73                               | 22.85                                  | 22.86                                |
| 1.4             | 16QAM      | 1          | 5            | 22.83                               | 22.56                                  | 22.76                                |
| 1.4             | 16QAM      | 3          | 0            | 21.85                               | 21.86                                  | 21.79                                |
| 1.4             | 16QAM      | 3          | 1            | 21.79                               | 21.51                                  | 21.68                                |
| 1.4             | 16QAM      | 3          | 3            | 21.58                               | 21.72                                  | 21.72                                |
| 1.4             | 16QAM      | 6          | 0            | 21.56                               | 21.80                                  | 21.71                                |
| 1.4             | 64QAM      | 1          | 0            | 22.80                               | 22.85                                  | 22.65                                |
| 1.4             | 64QAM      | 1          | 3            | 22.77                               | 22.79                                  | 22.66                                |
| 1.4             | 64QAM      | 1          | 5            | 22.69                               | 22.59                                  | 22.66                                |
| 1.4             | 64QAM      | 3          | 0            | 21.88                               | 21.91                                  | 21.92                                |
| 1.4             | 64QAM      | 3          | 1            | 21.90                               | 21.73                                  | 21.60                                |
| 1.4             | 64QAM      | 3          | 3            | 21.67                               | 21.75                                  | 21.92                                |
| 1.4             | 64QAM      | 6          | 0            | 21.59                               | 21.70                                  | 21.65                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 132072                              | 132322                                 | 132572                               |
| Frequency (MHz) |            |            |              | 1720                                | 1745                                   | 1770                                 |
| 20              | QPSK       | 1          | 0            | 24.01                               | 24.29                                  | 24.20                                |
| 20              | QPSK       | 1          | 49           | 24.17                               | 24.03                                  | 24.09                                |
| 20              | QPSK       | 1          | 99           | 24.02                               | 24.17                                  | 24.10                                |
| 20              | QPSK       | 50         | 0            | 23.15                               | 23.28                                  | 23.17                                |
| 20              | QPSK       | 50         | 24           | 23.13                               | 23.11                                  | 23.27                                |
| 20              | QPSK       | 50         | 50           | 23.27                               | 23.29                                  | 23.08                                |
| 20              | QPSK       | 100        | 0            | 23.16                               | 23.37                                  | 23.26                                |
| 20              | 16QAM      | 1          | 0            | 23.16                               | 23.31                                  | 23.22                                |
| 20              | 16QAM      | 1          | 49           | 23.35                               | 23.25                                  | 23.11                                |
| 20              | 16QAM      | 1          | 99           | 23.09                               | 23.03                                  | 23.05                                |
| 20              | 16QAM      | 50         | 0            | 22.35                               | 22.18                                  | 22.37                                |
| 20              | 16QAM      | 50         | 24           | 22.24                               | 22.15                                  | 22.38                                |
| 20              | 16QAM      | 50         | 50           | 22.11                               | 22.23                                  | 22.05                                |
| 20              | 16QAM      | 100        | 0            | 22.06                               | 22.30                                  | 22.13                                |
| 20              | 64QAM      | 1          | 0            | 23.17                               | 23.22                                  | 23.25                                |
| 20              | 64QAM      | 1          | 49           | 23.03                               | 23.22                                  | 23.15                                |
| 20              | 64QAM      | 1          | 99           | 23.13                               | 23.06                                  | 23.26                                |
| 20              | 64QAM      | 50         | 0            | 22.22                               | 22.34                                  | 22.09                                |
| 20              | 64QAM      | 50         | 24           | 22.12                               | 22.22                                  | 22.13                                |
| 20              | 64QAM      | 50         | 50           | 22.18                               | 22.23                                  | 22.05                                |
| 20              | 64QAM      | 100        | 0            | 22.18                               | 22.11                                  | 22.16                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 132047                              | 132322                                 | 132597                               |
| Frequency (MHz) |            |            |              | 1717.5                              | 1745                                   | 1772.5                               |
| 15              | QPSK       | 1          | 0            | 24.03                               | 24.13                                  | 24.18                                |
| 15              | QPSK       | 1          | 37           | 24.08                               | 24.10                                  | 24.08                                |
| 15              | QPSK       | 1          | 74           | 24.10                               | 24.15                                  | 24.11                                |
| 15              | QPSK       | 36         | 0            | 23.19                               | 23.46                                  | 23.32                                |
| 15              | QPSK       | 36         | 20           | 23.12                               | 23.04                                  | 23.24                                |
| 15              | QPSK       | 36         | 39           | 23.10                               | 23.12                                  | 23.16                                |
| 15              | QPSK       | 75         | 0            | 23.41                               | 23.11                                  | 23.36                                |
| 15              | 16QAM      | 1          | 0            | 23.10                               | 23.40                                  | 23.20                                |
| 15              | 16QAM      | 1          | 37           | 23.35                               | 23.30                                  | 23.13                                |
| 15              | 16QAM      | 1          | 74           | 23.08                               | 23.40                                  | 23.14                                |
| 15              | 16QAM      | 36         | 0            | 22.15                               | 22.15                                  | 22.12                                |
| 15              | 16QAM      | 36         | 20           | 22.28                               | 22.03                                  | 22.39                                |
| 15              | 16QAM      | 36         | 39           | 22.30                               | 22.07                                  | 22.24                                |
| 15              | 16QAM      | 75         | 0            | 22.11                               | 22.33                                  | 22.04                                |
| 15              | 64QAM      | 1          | 0            | 23.15                               | 23.30                                  | 23.09                                |
| 15              | 64QAM      | 1          | 37           | 23.26                               | 23.11                                  | 23.19                                |
| 15              | 64QAM      | 1          | 74           | 23.33                               | 23.09                                  | 23.28                                |
| 15              | 64QAM      | 36         | 0            | 22.20                               | 22.32                                  | 22.16                                |
| 15              | 64QAM      | 36         | 20           | 22.29                               | 22.09                                  | 22.12                                |
| 15              | 64QAM      | 36         | 39           | 22.07                               | 22.06                                  | 22.05                                |
| 15              | 64QAM      | 75         | 0            | 22.34                               | 22.21                                  | 22.23                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 132022                              | 132322                                 | 132622                               |
| Frequency (MHz) |            |            |              | 1715                                | 1745                                   | 1775                                 |
| 10              | QPSK       | 1          | 0            | 24.13                               | 24.21                                  | 24.19                                |
| 10              | QPSK       | 1          | 25           | 24.10                               | 24.15                                  | 24.14                                |
| 10              | QPSK       | 1          | 49           | 24.08                               | 24.16                                  | 24.07                                |
| 10              | QPSK       | 25         | 0            | 23.33                               | 23.40                                  | 23.38                                |
| 10              | QPSK       | 25         | 12           | 23.06                               | 23.40                                  | 23.26                                |
| 10              | QPSK       | 25         | 25           | 23.38                               | 23.12                                  | 23.31                                |
| 10              | QPSK       | 50         | 0            | 23.03                               | 23.24                                  | 23.17                                |
| 10              | 16QAM      | 1          | 0            | 23.22                               | 23.22                                  | 23.12                                |
| 10              | 16QAM      | 1          | 25           | 23.11                               | 23.20                                  | 23.25                                |
| 10              | 16QAM      | 1          | 49           | 23.09                               | 23.01                                  | 23.12                                |
| 10              | 16QAM      | 25         | 0            | 22.34                               | 22.41                                  | 22.10                                |
| 10              | 16QAM      | 25         | 12           | 22.11                               | 22.13                                  | 22.17                                |
| 10              | 16QAM      | 25         | 25           | 22.11                               | 22.08                                  | 22.29                                |
| 10              | 16QAM      | 50         | 0            | 22.23                               | 22.42                                  | 22.27                                |
| 10              | 64QAM      | 1          | 0            | 23.02                               | 23.15                                  | 23.35                                |
| 10              | 64QAM      | 1          | 25           | 23.12                               | 23.01                                  | 23.00                                |
| 10              | 64QAM      | 1          | 49           | 23.32                               | 23.07                                  | 23.16                                |
| 10              | 64QAM      | 25         | 0            | 22.42                               | 22.12                                  | 22.32                                |
| 10              | 64QAM      | 25         | 12           | 22.35                               | 22.33                                  | 22.11                                |
| 10              | 64QAM      | 25         | 25           | 22.09                               | 22.07                                  | 22.26                                |
| 10              | 64QAM      | 50         | 0            | 22.44                               | 22.27                                  | 22.38                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 131997                              | 132322                                 | 132647                               |
| Frequency (MHz) |            |            |              | 1712.5                              | 1745                                   | 1777.5                               |
| 5               | QPSK       | 1          | 0            | 24.18                               | 24.25                                  | 24.23                                |
| 5               | QPSK       | 1          | 12           | 24.03                               | 24.05                                  | 24.19                                |
| 5               | QPSK       | 1          | 24           | 24.09                               | 24.05                                  | 24.10                                |
| 5               | QPSK       | 12         | 0            | 23.43                               | 23.16                                  | 23.31                                |
| 5               | QPSK       | 12         | 7            | 23.14                               | 23.11                                  | 23.14                                |
| 5               | QPSK       | 12         | 13           | 23.06                               | 23.12                                  | 23.25                                |
| 5               | QPSK       | 25         | 0            | 23.16                               | 23.21                                  | 23.20                                |
| 5               | 16QAM      | 1          | 0            | 23.14                               | 23.03                                  | 23.17                                |
| 5               | 16QAM      | 1          | 12           | 23.19                               | 23.37                                  | 23.23                                |
| 5               | 16QAM      | 1          | 24           | 23.32                               | 23.13                                  | 23.39                                |
| 5               | 16QAM      | 12         | 0            | 22.35                               | 22.06                                  | 22.40                                |
| 5               | 16QAM      | 12         | 7            | 22.02                               | 22.27                                  | 22.40                                |
| 5               | 16QAM      | 12         | 13           | 22.02                               | 22.16                                  | 21.90                                |
| 5               | 16QAM      | 25         | 0            | 22.25                               | 22.35                                  | 22.26                                |
| 5               | 64QAM      | 1          | 0            | 23.11                               | 23.19                                  | 23.23                                |
| 5               | 64QAM      | 1          | 12           | 23.25                               | 23.12                                  | 23.38                                |
| 5               | 64QAM      | 1          | 24           | 23.08                               | 23.09                                  | 23.29                                |
| 5               | 64QAM      | 12         | 0            | 22.10                               | 22.16                                  | 22.19                                |
| 5               | 64QAM      | 12         | 7            | 21.99                               | 22.17                                  | 22.27                                |
| 5               | 64QAM      | 12         | 13           | 22.31                               | 22.25                                  | 22.15                                |
| 5               | 64QAM      | 25         | 0            | 22.46                               | 22.19                                  | 22.16                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 131987                              | 132322                                 | 132657                               |
| Frequency (MHz) |            |            |              | 1711.5                              | 1745                                   | 1778.5                               |
| 3               | QPSK       | 1          | 0            | 24.14                               | 24.26                                  | 24.23                                |
| 3               | QPSK       | 1          | 8            | 24.11                               | 24.18                                  | 24.21                                |
| 3               | QPSK       | 1          | 14           | 24.04                               | 24.11                                  | 24.18                                |
| 3               | QPSK       | 8          | 0            | 23.24                               | 23.40                                  | 23.13                                |
| 3               | QPSK       | 8          | 4            | 23.13                               | 23.24                                  | 23.09                                |
| 3               | QPSK       | 8          | 7            | 23.04                               | 23.02                                  | 23.07                                |
| 3               | QPSK       | 15         | 0            | 23.17                               | 23.28                                  | 23.25                                |
| 3               | 16QAM      | 1          | 0            | 23.08                               | 23.25                                  | 23.28                                |
| 3               | 16QAM      | 1          | 8            | 23.04                               | 23.18                                  | 23.24                                |
| 3               | 16QAM      | 1          | 14           | 23.17                               | 23.34                                  | 23.39                                |
| 3               | 16QAM      | 8          | 0            | 22.04                               | 22.31                                  | 22.31                                |
| 3               | 16QAM      | 8          | 4            | 22.14                               | 22.16                                  | 22.22                                |
| 3               | 16QAM      | 8          | 7            | 22.15                               | 22.14                                  | 22.10                                |
| 3               | 16QAM      | 15         | 0            | 22.14                               | 22.35                                  | 22.13                                |
| 3               | 64QAM      | 1          | 0            | 23.26                               | 23.24                                  | 23.07                                |
| 3               | 64QAM      | 1          | 8            | 23.25                               | 23.32                                  | 23.13                                |
| 3               | 64QAM      | 1          | 14           | 23.09                               | 23.03                                  | 23.20                                |
| 3               | 64QAM      | 8          | 0            | 22.17                               | 22.24                                  | 22.08                                |
| 3               | 64QAM      | 8          | 4            | 22.26                               | 22.04                                  | 22.05                                |
| 3               | 64QAM      | 8          | 7            | 22.23                               | 22.19                                  | 22.18                                |
| 3               | 64QAM      | 15         | 0            | 22.24                               | 22.25                                  | 22.39                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 131979                              | 132322                                 | 132665                               |
| Frequency (MHz) |            |            |              | 1710.7                              | 1745                                   | 1779.3                               |
| 1.4             | QPSK       | 1          | 0            | 24.22                               | 24.24                                  | 24.12                                |
| 1.4             | QPSK       | 1          | 3            | 24.23                               | 24.14                                  | 24.18                                |
| 1.4             | QPSK       | 1          | 5            | 24.21                               | 24.13                                  | 24.16                                |
| 1.4             | QPSK       | 3          | 0            | 23.05                               | 23.31                                  | 23.14                                |
| 1.4             | QPSK       | 3          | 1            | 23.33                               | 23.24                                  | 23.26                                |
| 1.4             | QPSK       | 3          | 3            | 23.04                               | 23.06                                  | 23.09                                |
| 1.4             | QPSK       | 6          | 0            | 23.31                               | 23.15                                  | 23.25                                |
| 1.4             | 16QAM      | 1          | 0            | 23.14                               | 23.42                                  | 23.53                                |
| 1.4             | 16QAM      | 1          | 3            | 23.39                               | 23.33                                  | 23.31                                |
| 1.4             | 16QAM      | 1          | 5            | 23.34                               | 23.12                                  | 23.09                                |
| 1.4             | 16QAM      | 3          | 0            | 22.32                               | 22.30                                  | 22.33                                |
| 1.4             | 16QAM      | 3          | 1            | 22.20                               | 22.12                                  | 22.27                                |
| 1.4             | 16QAM      | 3          | 3            | 22.05                               | 22.27                                  | 22.34                                |
| 1.4             | 16QAM      | 6          | 0            | 22.33                               | 22.39                                  | 22.15                                |
| 1.4             | 64QAM      | 1          | 0            | 23.30                               | 23.29                                  | 23.11                                |
| 1.4             | 64QAM      | 1          | 3            | 23.03                               | 23.30                                  | 23.28                                |
| 1.4             | 64QAM      | 1          | 5            | 23.04                               | 23.10                                  | 23.02                                |
| 1.4             | 64QAM      | 3          | 0            | 22.21                               | 22.17                                  | 22.10                                |
| 1.4             | 64QAM      | 3          | 1            | 22.03                               | 22.10                                  | 22.10                                |
| 1.4             | 64QAM      | 3          | 3            | 22.13                               | 22.15                                  | 22.08                                |
| 1.4             | 64QAM      | 6          | 0            | 22.06                               | 22.25                                  | 22.38                                |

**Effective Radiated Power and Effective Isotropic Radiated Power**

| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18700             |       | 18900              |       | 19100            |       |
| Frequency (MHz) |            |         |           | 1860              |       | 1880               |       | 1900             |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 20              | QPSK       | 1       | 0         | 26.12             | 0.409 | 26.20              | 0.417 | 26.15            | 0.412 |
| 20              | QPSK       | 1       | 49        | 26.03             | 0.401 | 26.08              | 0.406 | 26.11            | 0.408 |
| 20              | QPSK       | 1       | 99        | 26.06             | 0.404 | 26.07              | 0.405 | 26.04            | 0.402 |
| 20              | QPSK       | 50      | 0         | 25.10             | 0.324 | 25.19              | 0.330 | 25.12            | 0.325 |
| 20              | QPSK       | 50      | 24        | 24.97             | 0.314 | 25.14              | 0.327 | 25.00            | 0.316 |
| 20              | QPSK       | 50      | 50        | 25.01             | 0.317 | 25.02              | 0.318 | 24.97            | 0.314 |
| 20              | QPSK       | 100     | 0         | 25.16             | 0.328 | 25.11              | 0.324 | 25.18            | 0.330 |
| 20              | 16QAM      | 1       | 0         | 25.14             | 0.327 | 25.10              | 0.324 | 25.16            | 0.328 |
| 20              | 16QAM      | 1       | 49        | 25.05             | 0.320 | 25.02              | 0.318 | 24.99            | 0.316 |
| 20              | 16QAM      | 1       | 99        | 24.97             | 0.314 | 25.04              | 0.319 | 25.03            | 0.318 |
| 20              | 16QAM      | 50      | 0         | 24.05             | 0.254 | 24.16              | 0.261 | 24.19            | 0.262 |
| 20              | 16QAM      | 50      | 24        | 24.08             | 0.256 | 23.96              | 0.249 | 24.04            | 0.254 |
| 20              | 16QAM      | 50      | 50        | 23.93             | 0.247 | 24.01              | 0.252 | 23.98            | 0.250 |
| 20              | 16QAM      | 100     | 0         | 24.07             | 0.255 | 24.13              | 0.259 | 24.15            | 0.260 |
| 20              | 64QAM      | 1       | 0         | 24.98             | 0.315 | 25.03              | 0.318 | 25.07            | 0.321 |
| 20              | 64QAM      | 1       | 49        | 25.13             | 0.326 | 25.08              | 0.322 | 25.05            | 0.320 |
| 20              | 64QAM      | 1       | 99        | 24.98             | 0.315 | 24.90              | 0.309 | 24.94            | 0.312 |
| 20              | 64QAM      | 50      | 0         | 24.11             | 0.258 | 24.13              | 0.259 | 24.02            | 0.252 |
| 20              | 64QAM      | 50      | 24        | 23.98             | 0.250 | 23.97              | 0.249 | 23.91            | 0.246 |
| 20              | 64QAM      | 50      | 50        | 24.01             | 0.252 | 24.03              | 0.253 | 23.98            | 0.250 |
| 20              | 64QAM      | 100     | 0         | 24.12             | 0.258 | 24.07              | 0.255 | 24.10            | 0.257 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18675             |       | 18900              |       | 19125            |       |
| Frequency (MHz) |            |         |           | 1857.5            |       | 1880               |       | 1902.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 15              | QPSK       | 1       | 0         | 26.13             | 0.410 | 26.18              | 0.415 | 25.99            | 0.397 |
| 15              | QPSK       | 1       | 37        | 25.94             | 0.393 | 26.04              | 0.402 | 25.89            | 0.388 |
| 15              | QPSK       | 1       | 74        | 26.07             | 0.405 | 25.95              | 0.394 | 25.97            | 0.395 |
| 15              | QPSK       | 36      | 0         | 25.31             | 0.340 | 25.21              | 0.332 | 25.22            | 0.333 |
| 15              | QPSK       | 36      | 20        | 25.05             | 0.320 | 24.89              | 0.308 | 24.94            | 0.312 |
| 15              | QPSK       | 36      | 39        | 25.07             | 0.321 | 25.14              | 0.327 | 25.14            | 0.327 |
| 15              | QPSK       | 75      | 0         | 25.14             | 0.327 | 25.05              | 0.320 | 25.08            | 0.322 |
| 15              | 16QAM      | 1       | 0         | 25.13             | 0.326 | 25.17              | 0.329 | 25.07            | 0.321 |
| 15              | 16QAM      | 1       | 37        | 24.90             | 0.309 | 24.81              | 0.303 | 25.02            | 0.318 |
| 15              | 16QAM      | 1       | 74        | 25.22             | 0.333 | 25.26              | 0.336 | 25.20            | 0.331 |
| 15              | 16QAM      | 36      | 0         | 24.06             | 0.255 | 24.08              | 0.256 | 24.14            | 0.259 |
| 15              | 16QAM      | 36      | 20        | 23.88             | 0.244 | 24.21              | 0.264 | 23.87            | 0.244 |
| 15              | 16QAM      | 36      | 39        | 23.88             | 0.244 | 24.14              | 0.259 | 24.09            | 0.256 |
| 15              | 16QAM      | 75      | 0         | 24.22             | 0.264 | 23.88              | 0.244 | 24.04            | 0.254 |
| 15              | 64QAM      | 1       | 0         | 25.13             | 0.326 | 25.00              | 0.316 | 24.95            | 0.313 |
| 15              | 64QAM      | 1       | 37        | 24.98             | 0.315 | 24.87              | 0.307 | 25.02            | 0.318 |
| 15              | 64QAM      | 1       | 74        | 25.11             | 0.324 | 24.86              | 0.306 | 25.14            | 0.327 |
| 15              | 64QAM      | 36      | 0         | 23.94             | 0.248 | 24.17              | 0.261 | 24.02            | 0.252 |
| 15              | 64QAM      | 36      | 20        | 24.13             | 0.259 | 23.81              | 0.240 | 24.02            | 0.252 |
| 15              | 64QAM      | 36      | 39        | 23.86             | 0.243 | 23.79              | 0.239 | 23.90            | 0.245 |
| 15              | 64QAM      | 75      | 0         | 24.14             | 0.259 | 24.05              | 0.254 | 23.91            | 0.246 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18650             |       | 18900              |       | 19150            |       |
| Frequency (MHz) |            |         |           | 1855              |       | 1880               |       | 1905             |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 10              | QPSK       | 1       | 0         | 26.07             | 0.405 | 26.14              | 0.411 | 26.13            | 0.410 |
| 10              | QPSK       | 1       | 25        | 26.06             | 0.404 | 26.08              | 0.406 | 25.88            | 0.387 |
| 10              | QPSK       | 1       | 49        | 26.09             | 0.406 | 26.07              | 0.405 | 26.05            | 0.403 |
| 10              | QPSK       | 25      | 0         | 25.27             | 0.337 | 25.18              | 0.330 | 24.88            | 0.308 |
| 10              | QPSK       | 25      | 12        | 24.98             | 0.315 | 25.25              | 0.335 | 24.82            | 0.303 |
| 10              | QPSK       | 25      | 25        | 24.85             | 0.305 | 24.96              | 0.313 | 24.98            | 0.315 |
| 10              | QPSK       | 50      | 0         | 25.23             | 0.333 | 25.08              | 0.322 | 25.16            | 0.328 |
| 10              | 16QAM      | 1       | 0         | 25.23             | 0.333 | 24.92              | 0.310 | 25.21            | 0.332 |
| 10              | 16QAM      | 1       | 25        | 25.18             | 0.330 | 24.95              | 0.313 | 24.83            | 0.304 |
| 10              | 16QAM      | 1       | 49        | 24.96             | 0.313 | 24.90              | 0.309 | 25.23            | 0.333 |
| 10              | 16QAM      | 25      | 0         | 24.23             | 0.265 | 24.25              | 0.266 | 24.14            | 0.259 |
| 10              | 16QAM      | 25      | 12        | 24.11             | 0.258 | 23.95              | 0.248 | 24.19            | 0.262 |
| 10              | 16QAM      | 25      | 25        | 23.97             | 0.249 | 23.99              | 0.251 | 23.86            | 0.243 |
| 10              | 16QAM      | 50      | 0         | 24.26             | 0.267 | 24.09              | 0.256 | 24.06            | 0.255 |
| 10              | 64QAM      | 1       | 0         | 25.20             | 0.331 | 25.08              | 0.322 | 24.98            | 0.315 |
| 10              | 64QAM      | 1       | 25        | 25.29             | 0.338 | 24.95              | 0.313 | 25.25            | 0.335 |
| 10              | 64QAM      | 1       | 49        | 24.99             | 0.316 | 25.08              | 0.322 | 24.91            | 0.310 |
| 10              | 64QAM      | 25      | 0         | 24.01             | 0.252 | 24.11              | 0.258 | 24.23            | 0.265 |
| 10              | 64QAM      | 25      | 12        | 23.89             | 0.245 | 23.96              | 0.249 | 23.87            | 0.244 |
| 10              | 64QAM      | 25      | 25        | 24.11             | 0.258 | 23.97              | 0.249 | 24.01            | 0.252 |
| 10              | 64QAM      | 50      | 0         | 23.87             | 0.244 | 24.07              | 0.255 | 23.90            | 0.245 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18625             |       | 18900              |       | 19175            |       |
| Frequency (MHz) |            |         |           | 1852.5            |       | 1880               |       | 1907.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 5               | QPSK       | 1       | 0         | 25.92             | 0.391 | 26.13              | 0.410 | 26.04            | 0.402 |
| 5               | QPSK       | 1       | 12        | 25.97             | 0.395 | 26.02              | 0.400 | 26.06            | 0.404 |
| 5               | QPSK       | 1       | 24        | 26.02             | 0.400 | 26.09              | 0.406 | 26.13            | 0.410 |
| 5               | QPSK       | 12      | 0         | 25.00             | 0.316 | 25.11              | 0.324 | 24.90            | 0.309 |
| 5               | QPSK       | 12      | 7         | 24.93             | 0.311 | 25.09              | 0.323 | 24.84            | 0.305 |
| 5               | QPSK       | 12      | 13        | 24.80             | 0.302 | 24.87              | 0.307 | 24.93            | 0.311 |
| 5               | QPSK       | 25      | 0         | 24.95             | 0.313 | 25.17              | 0.329 | 25.23            | 0.333 |
| 5               | 16QAM      | 1       | 0         | 24.95             | 0.313 | 25.09              | 0.323 | 25.19            | 0.330 |
| 5               | 16QAM      | 1       | 12        | 25.21             | 0.332 | 25.11              | 0.324 | 25.15            | 0.327 |
| 5               | 16QAM      | 1       | 24        | 24.96             | 0.313 | 24.91              | 0.310 | 24.99            | 0.316 |
| 5               | 16QAM      | 12      | 0         | 24.03             | 0.253 | 24.23              | 0.265 | 24.14            | 0.259 |
| 5               | 16QAM      | 12      | 7         | 24.02             | 0.252 | 24.17              | 0.261 | 24.11            | 0.258 |
| 5               | 16QAM      | 12      | 13        | 24.09             | 0.256 | 23.96              | 0.249 | 23.92            | 0.247 |
| 5               | 16QAM      | 25      | 0         | 24.11             | 0.258 | 24.08              | 0.256 | 24.26            | 0.267 |
| 5               | 64QAM      | 1       | 0         | 25.07             | 0.321 | 25.08              | 0.322 | 25.29            | 0.338 |
| 5               | 64QAM      | 1       | 12        | 25.11             | 0.324 | 25.06              | 0.321 | 24.97            | 0.314 |
| 5               | 64QAM      | 1       | 24        | 25.15             | 0.327 | 25.12              | 0.325 | 25.16            | 0.328 |
| 5               | 64QAM      | 12      | 0         | 24.05             | 0.254 | 24.13              | 0.259 | 23.94            | 0.248 |
| 5               | 64QAM      | 12      | 7         | 23.98             | 0.250 | 23.94              | 0.248 | 24.07            | 0.255 |
| 5               | 64QAM      | 12      | 13        | 23.93             | 0.247 | 23.99              | 0.251 | 24.05            | 0.254 |
| 5               | 64QAM      | 25      | 0         | 23.95             | 0.248 | 24.01              | 0.252 | 24.20            | 0.263 |



| LTE Band 2      |            |         |           | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|---------|-----------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |           | 18615              |       | 18900                 |       | 19185               |       |
| Frequency (MHz) |            |         |           | 1851.5             |       | 1880                  |       | 1908.5              |       |
|                 |            |         |           | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1       | 0         | 26.11              | 0.408 | 26.13                 | 0.410 | 26.09               | 0.406 |
| 3               | QPSK       | 1       | 8         | 26.05              | 0.403 | 26.06                 | 0.404 | 26.04               | 0.402 |
| 3               | QPSK       | 1       | 14        | 26.12              | 0.409 | 25.91                 | 0.390 | 25.83               | 0.383 |
| 3               | QPSK       | 8       | 0         | 24.90              | 0.309 | 25.11                 | 0.324 | 25.09               | 0.323 |
| 3               | QPSK       | 8       | 4         | 24.89              | 0.308 | 25.16                 | 0.328 | 24.90               | 0.309 |
| 3               | QPSK       | 8       | 7         | 24.92              | 0.310 | 24.87                 | 0.307 | 24.93               | 0.311 |
| 3               | QPSK       | 15      | 0         | 24.96              | 0.313 | 25.35                 | 0.343 | 25.39               | 0.346 |
| 3               | 16QAM      | 1       | 0         | 25.13              | 0.326 | 25.16                 | 0.328 | 24.92               | 0.310 |
| 3               | 16QAM      | 1       | 8         | 24.82              | 0.303 | 25.23                 | 0.333 | 25.21               | 0.332 |
| 3               | 16QAM      | 1       | 14        | 24.98              | 0.315 | 24.94                 | 0.312 | 24.86               | 0.306 |
| 3               | 16QAM      | 8       | 0         | 23.82              | 0.241 | 24.19                 | 0.262 | 24.07               | 0.255 |
| 3               | 16QAM      | 8       | 4         | 24.17              | 0.261 | 24.04                 | 0.254 | 24.21               | 0.264 |
| 3               | 16QAM      | 8       | 7         | 23.89              | 0.245 | 24.03                 | 0.253 | 24.08               | 0.256 |
| 3               | 16QAM      | 15      | 0         | 23.88              | 0.244 | 23.98                 | 0.250 | 24.02               | 0.252 |
| 3               | 64QAM      | 1       | 0         | 25.06              | 0.321 | 25.17                 | 0.329 | 25.07               | 0.321 |
| 3               | 64QAM      | 1       | 8         | 25.05              | 0.320 | 25.01                 | 0.317 | 24.88               | 0.308 |
| 3               | 64QAM      | 1       | 14        | 25.05              | 0.320 | 24.91                 | 0.310 | 24.87               | 0.307 |
| 3               | 64QAM      | 8       | 0         | 23.99              | 0.251 | 23.88                 | 0.244 | 24.24               | 0.265 |
| 3               | 64QAM      | 8       | 4         | 24.14              | 0.259 | 24.04                 | 0.254 | 24.10               | 0.257 |
| 3               | 64QAM      | 8       | 7         | 23.98              | 0.250 | 24.07                 | 0.255 | 23.97               | 0.249 |
| 3               | 64QAM      | 15      | 0         | 24.03              | 0.253 | 24.11                 | 0.258 | 24.11               | 0.258 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18607             |       | 18900              |       | 19193            |       |
| Frequency (MHz) |            |         |           | 1850.7            |       | 1880               |       | 1909.3           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 1.4             | QPSK       | 1       | 0         | 26.07             | 0.405 | 26.11              | 0.408 | 26.05            | 0.403 |
| 1.4             | QPSK       | 1       | 3         | 25.84             | 0.384 | 26.07              | 0.405 | 26.03            | 0.401 |
| 1.4             | QPSK       | 1       | 5         | 25.94             | 0.393 | 25.85              | 0.385 | 25.94            | 0.393 |
| 1.4             | QPSK       | 3       | 0         | 25.01             | 0.317 | 25.14              | 0.327 | 24.87            | 0.307 |
| 1.4             | QPSK       | 3       | 1         | 24.78             | 0.301 | 25.11              | 0.324 | 25.04            | 0.319 |
| 1.4             | QPSK       | 3       | 3         | 25.19             | 0.330 | 24.97              | 0.314 | 24.84            | 0.305 |
| 1.4             | QPSK       | 6       | 0         | 25.11             | 0.324 | 24.89              | 0.308 | 25.32            | 0.340 |
| 1.4             | 16QAM      | 1       | 0         | 25.14             | 0.327 | 25.19              | 0.330 | 25.03            | 0.318 |
| 1.4             | 16QAM      | 1       | 3         | 25.05             | 0.320 | 24.85              | 0.305 | 25.09            | 0.323 |
| 1.4             | 16QAM      | 1       | 5         | 24.92             | 0.310 | 25.15              | 0.327 | 25.05            | 0.320 |
| 1.4             | 16QAM      | 3       | 0         | 23.82             | 0.241 | 24.17              | 0.261 | 24.17            | 0.261 |
| 1.4             | 16QAM      | 3       | 1         | 23.99             | 0.251 | 23.80              | 0.240 | 23.86            | 0.243 |
| 1.4             | 16QAM      | 3       | 3         | 23.88             | 0.244 | 24.17              | 0.261 | 24.03            | 0.253 |
| 1.4             | 16QAM      | 6       | 0         | 24.08             | 0.256 | 24.31              | 0.270 | 24.25            | 0.266 |
| 1.4             | 64QAM      | 1       | 0         | 24.82             | 0.303 | 24.87              | 0.307 | 25.12            | 0.325 |
| 1.4             | 64QAM      | 1       | 3         | 25.11             | 0.324 | 24.91              | 0.310 | 25.07            | 0.321 |
| 1.4             | 64QAM      | 1       | 5         | 25.00             | 0.316 | 24.84              | 0.305 | 25.01            | 0.317 |
| 1.4             | 64QAM      | 3       | 0         | 23.95             | 0.248 | 24.26              | 0.267 | 24.02            | 0.252 |
| 1.4             | 64QAM      | 3       | 1         | 24.13             | 0.259 | 23.92              | 0.247 | 24.07            | 0.255 |
| 1.4             | 64QAM      | 3       | 3         | 23.87             | 0.244 | 23.82              | 0.241 | 23.89            | 0.245 |
| 1.4             | 64QAM      | 6       | 0         | 24.04             | 0.254 | 23.96              | 0.249 | 24.20            | 0.263 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20050              |       | 20175                 |       | 20300               |       |
| Frequency (MHz) |            |            |              | 1720               |       | 1732.5                |       | 1745                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 20              | QPSK       | 1          | 0            | 25.09              | 0.323 | 25.14                 | 0.327 | 25.12               | 0.325 |
| 20              | QPSK       | 1          | 49           | 25.05              | 0.320 | 24.94                 | 0.312 | 25.04               | 0.319 |
| 20              | QPSK       | 1          | 99           | 24.96              | 0.313 | 25.00                 | 0.316 | 24.95               | 0.313 |
| 20              | QPSK       | 50         | 0            | 24.17              | 0.261 | 24.18                 | 0.262 | 23.93               | 0.247 |
| 20              | QPSK       | 50         | 24           | 24.12              | 0.258 | 24.05                 | 0.254 | 24.08               | 0.256 |
| 20              | QPSK       | 50         | 50           | 24.15              | 0.260 | 23.91                 | 0.246 | 24.05               | 0.254 |
| 20              | QPSK       | 100        | 0            | 23.92              | 0.247 | 24.11                 | 0.258 | 24.04               | 0.254 |
| 20              | 16QAM      | 1          | 0            | 24.09              | 0.256 | 24.12                 | 0.258 | 24.06               | 0.255 |
| 20              | 16QAM      | 1          | 49           | 23.76              | 0.238 | 23.81                 | 0.240 | 23.83               | 0.242 |
| 20              | 16QAM      | 1          | 99           | 23.84              | 0.242 | 24.07                 | 0.255 | 23.90               | 0.245 |
| 20              | 16QAM      | 50         | 0            | 22.93              | 0.196 | 23.06                 | 0.202 | 23.05               | 0.202 |
| 20              | 16QAM      | 50         | 24           | 22.89              | 0.195 | 22.99                 | 0.199 | 22.93               | 0.196 |
| 20              | 16QAM      | 50         | 50           | 22.93              | 0.196 | 22.88                 | 0.194 | 22.96               | 0.198 |
| 20              | 16QAM      | 100        | 0            | 22.89              | 0.195 | 23.06                 | 0.202 | 23.29               | 0.213 |
| 20              | 64QAM      | 1          | 0            | 23.96              | 0.249 | 24.05                 | 0.254 | 24.15               | 0.260 |
| 20              | 64QAM      | 1          | 49           | 24.10              | 0.257 | 23.99                 | 0.251 | 23.89               | 0.245 |
| 20              | 64QAM      | 1          | 99           | 23.89              | 0.245 | 24.09                 | 0.256 | 23.83               | 0.242 |
| 20              | 64QAM      | 50         | 0            | 22.82              | 0.191 | 23.07                 | 0.203 | 22.75               | 0.188 |
| 20              | 64QAM      | 50         | 24           | 22.69              | 0.186 | 22.84                 | 0.192 | 22.91               | 0.195 |
| 20              | 64QAM      | 50         | 50           | 23.14              | 0.206 | 22.91                 | 0.195 | 22.99               | 0.199 |
| 20              | 64QAM      | 100        | 0            | 23.25              | 0.211 | 23.10                 | 0.204 | 23.08               | 0.203 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20025              |       | 20175                 |       | 20325               |       |
| Frequency (MHz) |            |            |              | 1717.5             |       | 1732.5                |       | 1747.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 15              | QPSK       | 1          | 0            | 25.00              | 0.316 | 25.07                 | 0.321 | 24.94               | 0.312 |
| 15              | QPSK       | 1          | 37           | 25.02              | 0.318 | 24.99                 | 0.316 | 25.02               | 0.318 |
| 15              | QPSK       | 1          | 74           | 24.96              | 0.313 | 25.02                 | 0.318 | 24.90               | 0.309 |
| 15              | QPSK       | 36         | 0            | 24.02              | 0.252 | 24.06                 | 0.255 | 24.01               | 0.252 |
| 15              | QPSK       | 36         | 20           | 23.81              | 0.240 | 23.97                 | 0.249 | 24.05               | 0.254 |
| 15              | QPSK       | 36         | 39           | 23.93              | 0.247 | 23.90                 | 0.245 | 23.86               | 0.243 |
| 15              | QPSK       | 75         | 0            | 24.20              | 0.263 | 23.87                 | 0.244 | 24.06               | 0.255 |
| 15              | 16QAM      | 1          | 0            | 24.14              | 0.259 | 24.13                 | 0.259 | 23.92               | 0.247 |
| 15              | 16QAM      | 1          | 37           | 23.89              | 0.245 | 24.18                 | 0.262 | 23.98               | 0.250 |
| 15              | 16QAM      | 1          | 74           | 23.97              | 0.249 | 23.79                 | 0.239 | 24.09               | 0.256 |
| 15              | 16QAM      | 36         | 0            | 22.95              | 0.197 | 23.13                 | 0.206 | 23.09               | 0.204 |
| 15              | 16QAM      | 36         | 20           | 23.04              | 0.201 | 22.92                 | 0.196 | 23.10               | 0.204 |
| 15              | 16QAM      | 36         | 39           | 22.84              | 0.192 | 23.14                 | 0.206 | 22.86               | 0.193 |
| 15              | 16QAM      | 75         | 0            | 22.88              | 0.194 | 22.96                 | 0.198 | 22.94               | 0.197 |
| 15              | 64QAM      | 1          | 0            | 23.98              | 0.250 | 23.82                 | 0.241 | 24.07               | 0.255 |
| 15              | 64QAM      | 1          | 37           | 23.97              | 0.249 | 24.12                 | 0.258 | 23.95               | 0.248 |
| 15              | 64QAM      | 1          | 74           | 23.98              | 0.250 | 23.93                 | 0.247 | 24.15               | 0.260 |
| 15              | 64QAM      | 36         | 0            | 23.07              | 0.203 | 22.98                 | 0.199 | 22.97               | 0.198 |
| 15              | 64QAM      | 36         | 20           | 23.04              | 0.201 | 23.17                 | 0.207 | 22.93               | 0.196 |
| 15              | 64QAM      | 36         | 39           | 22.76              | 0.189 | 23.06                 | 0.202 | 22.77               | 0.189 |
| 15              | 64QAM      | 75         | 0            | 22.99              | 0.199 | 23.12                 | 0.205 | 22.84               | 0.192 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20000              |       | 20175                 |       | 20350               |       |
| Frequency (MHz) |            |            |              | 1715               |       | 1732.5                |       | 1750                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1          | 0            | 24.97              | 0.314 | 25.08                 | 0.322 | 24.97               | 0.314 |
| 10              | QPSK       | 1          | 25           | 24.93              | 0.311 | 25.07                 | 0.321 | 25.01               | 0.317 |
| 10              | QPSK       | 1          | 49           | 24.94              | 0.312 | 24.84                 | 0.305 | 24.95               | 0.313 |
| 10              | QPSK       | 25         | 0            | 24.10              | 0.257 | 24.23                 | 0.265 | 23.91               | 0.246 |
| 10              | QPSK       | 25         | 12           | 24.03              | 0.253 | 23.89                 | 0.245 | 23.88               | 0.244 |
| 10              | QPSK       | 25         | 25           | 24.09              | 0.256 | 24.00                 | 0.251 | 24.03               | 0.253 |
| 10              | QPSK       | 50         | 0            | 24.11              | 0.258 | 24.10                 | 0.257 | 24.00               | 0.251 |
| 10              | 16QAM      | 1          | 0            | 24.08              | 0.256 | 24.08                 | 0.256 | 23.92               | 0.247 |
| 10              | 16QAM      | 1          | 25           | 24.07              | 0.255 | 24.12                 | 0.258 | 23.84               | 0.242 |
| 10              | 16QAM      | 1          | 49           | 24.01              | 0.252 | 23.83                 | 0.242 | 24.17               | 0.261 |
| 10              | 16QAM      | 25         | 0            | 22.95              | 0.197 | 22.94                 | 0.197 | 23.01               | 0.200 |
| 10              | 16QAM      | 25         | 12           | 23.07              | 0.203 | 22.88                 | 0.194 | 22.99               | 0.199 |
| 10              | 16QAM      | 25         | 25           | 22.86              | 0.193 | 23.02                 | 0.200 | 22.97               | 0.198 |
| 10              | 16QAM      | 50         | 0            | 23.06              | 0.202 | 22.85                 | 0.193 | 23.03               | 0.201 |
| 10              | 64QAM      | 1          | 0            | 24.01              | 0.252 | 23.88                 | 0.244 | 24.01               | 0.252 |
| 10              | 64QAM      | 1          | 25           | 23.93              | 0.247 | 23.90                 | 0.245 | 24.14               | 0.259 |
| 10              | 64QAM      | 1          | 49           | 24.01              | 0.252 | 23.99                 | 0.251 | 23.85               | 0.243 |
| 10              | 64QAM      | 25         | 0            | 23.17              | 0.207 | 23.07                 | 0.203 | 22.93               | 0.196 |
| 10              | 64QAM      | 25         | 12           | 23.13              | 0.206 | 22.88                 | 0.194 | 22.99               | 0.199 |
| 10              | 64QAM      | 25         | 25           | 22.86              | 0.193 | 23.02                 | 0.200 | 22.81               | 0.191 |
| 10              | 64QAM      | 50         | 0            | 23.25              | 0.211 | 22.97                 | 0.198 | 23.18               | 0.208 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 19975              |       | 20175                 |       | 20375               |       |
| Frequency (MHz) |            |            |              | 1712.5             |       | 1732.5                |       | 1752.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1          | 0            | 24.92              | 0.310 | 25.06                 | 0.321 | 24.98               | 0.315 |
| 5               | QPSK       | 1          | 12           | 25.01              | 0.317 | 24.95                 | 0.313 | 25.00               | 0.316 |
| 5               | QPSK       | 1          | 24           | 24.90              | 0.309 | 24.93                 | 0.311 | 24.83               | 0.304 |
| 5               | QPSK       | 12         | 0            | 23.82              | 0.241 | 24.15                 | 0.260 | 23.99               | 0.251 |
| 5               | QPSK       | 12         | 7            | 23.78              | 0.239 | 23.90                 | 0.245 | 23.88               | 0.244 |
| 5               | QPSK       | 12         | 13           | 23.83              | 0.242 | 23.78                 | 0.239 | 23.90               | 0.245 |
| 5               | QPSK       | 25         | 0            | 23.88              | 0.244 | 23.89                 | 0.245 | 23.95               | 0.248 |
| 5               | 16QAM      | 1          | 0            | 24.14              | 0.259 | 24.15                 | 0.260 | 24.07               | 0.255 |
| 5               | 16QAM      | 1          | 12           | 23.91              | 0.246 | 23.96                 | 0.249 | 24.06               | 0.255 |
| 5               | 16QAM      | 1          | 24           | 23.88              | 0.244 | 24.11                 | 0.258 | 24.15               | 0.260 |
| 5               | 16QAM      | 12         | 0            | 23.01              | 0.200 | 23.14                 | 0.206 | 23.05               | 0.202 |
| 5               | 16QAM      | 12         | 7            | 23.15              | 0.207 | 22.85                 | 0.193 | 23.06               | 0.202 |
| 5               | 16QAM      | 12         | 13           | 22.90              | 0.195 | 22.89                 | 0.195 | 23.15               | 0.207 |
| 5               | 16QAM      | 25         | 0            | 23.04              | 0.201 | 23.16                 | 0.207 | 23.09               | 0.204 |
| 5               | 64QAM      | 1          | 0            | 23.95              | 0.248 | 23.96                 | 0.249 | 23.83               | 0.242 |
| 5               | 64QAM      | 1          | 12           | 23.91              | 0.246 | 24.06                 | 0.255 | 24.10               | 0.257 |
| 5               | 64QAM      | 1          | 24           | 23.79              | 0.239 | 23.87                 | 0.244 | 23.87               | 0.244 |
| 5               | 64QAM      | 12         | 0            | 22.95              | 0.197 | 22.88                 | 0.194 | 22.82               | 0.191 |
| 5               | 64QAM      | 12         | 7            | 23.00              | 0.200 | 22.95                 | 0.197 | 22.83               | 0.192 |
| 5               | 64QAM      | 12         | 13           | 22.78              | 0.190 | 22.78                 | 0.190 | 22.99               | 0.199 |
| 5               | 64QAM      | 25         | 0            | 23.10              | 0.204 | 23.06                 | 0.202 | 23.09               | 0.204 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 19965              |       | 20175                 |       | 20385               |       |
| Frequency (MHz) |            |            |              | 1711.5             |       | 1732.5                |       | 1753.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1          | 0            | 25.03              | 0.318 | 25.07                 | 0.321 | 24.97               | 0.314 |
| 3               | QPSK       | 1          | 8            | 24.85              | 0.305 | 24.97                 | 0.314 | 24.87               | 0.307 |
| 3               | QPSK       | 1          | 14           | 25.02              | 0.318 | 24.98                 | 0.315 | 25.03               | 0.318 |
| 3               | QPSK       | 8          | 0            | 23.99              | 0.251 | 24.00                 | 0.251 | 23.94               | 0.248 |
| 3               | QPSK       | 8          | 4            | 23.90              | 0.245 | 24.04                 | 0.254 | 23.96               | 0.249 |
| 3               | QPSK       | 8          | 7            | 23.86              | 0.243 | 23.95                 | 0.248 | 23.78               | 0.239 |
| 3               | QPSK       | 15         | 0            | 24.22              | 0.264 | 23.87                 | 0.244 | 23.98               | 0.250 |
| 3               | 16QAM      | 1          | 0            | 23.91              | 0.246 | 23.90                 | 0.245 | 24.02               | 0.252 |
| 3               | 16QAM      | 1          | 8            | 23.91              | 0.246 | 23.82                 | 0.241 | 23.87               | 0.244 |
| 3               | 16QAM      | 1          | 14           | 23.92              | 0.247 | 23.86                 | 0.243 | 23.89               | 0.245 |
| 3               | 16QAM      | 8          | 0            | 22.99              | 0.199 | 23.17                 | 0.207 | 23.10               | 0.204 |
| 3               | 16QAM      | 8          | 4            | 22.93              | 0.196 | 22.96                 | 0.198 | 22.81               | 0.191 |
| 3               | 16QAM      | 8          | 7            | 22.90              | 0.195 | 23.02                 | 0.200 | 22.93               | 0.196 |
| 3               | 16QAM      | 15         | 0            | 22.97              | 0.198 | 22.84                 | 0.192 | 22.86               | 0.193 |
| 3               | 64QAM      | 1          | 0            | 24.15              | 0.260 | 24.13                 | 0.259 | 24.03               | 0.253 |
| 3               | 64QAM      | 1          | 8            | 23.99              | 0.251 | 24.26                 | 0.267 | 23.85               | 0.243 |
| 3               | 64QAM      | 1          | 14           | 24.07              | 0.255 | 23.93                 | 0.247 | 23.93               | 0.247 |
| 3               | 64QAM      | 8          | 0            | 22.84              | 0.192 | 22.97                 | 0.198 | 22.92               | 0.196 |
| 3               | 64QAM      | 8          | 4            | 23.03              | 0.201 | 22.88                 | 0.194 | 22.77               | 0.189 |
| 3               | 64QAM      | 8          | 7            | 22.99              | 0.199 | 22.87                 | 0.194 | 22.81               | 0.191 |
| 3               | 64QAM      | 15         | 0            | 22.95              | 0.197 | 22.88                 | 0.194 | 22.95               | 0.197 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 19957              |       | 20175                 |       | 20393               |       |
| Frequency (MHz) |            |            |              | 1710.7             |       | 1732.5                |       | 1754.3              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 1.4             | QPSK       | 1          | 0            | 25.05              | 0.320 | 25.09                 | 0.323 | 25.00               | 0.316 |
| 1.4             | QPSK       | 1          | 3            | 25.05              | 0.320 | 24.92                 | 0.310 | 25.04               | 0.319 |
| 1.4             | QPSK       | 1          | 5            | 24.92              | 0.310 | 25.00                 | 0.316 | 24.85               | 0.305 |
| 1.4             | QPSK       | 3          | 0            | 23.95              | 0.248 | 24.04                 | 0.254 | 24.14               | 0.259 |
| 1.4             | QPSK       | 3          | 1            | 24.06              | 0.255 | 24.09                 | 0.256 | 23.89               | 0.245 |
| 1.4             | QPSK       | 3          | 3            | 23.85              | 0.243 | 24.02                 | 0.252 | 23.95               | 0.248 |
| 1.4             | QPSK       | 6          | 0            | 24.20              | 0.263 | 24.01                 | 0.252 | 24.32               | 0.270 |
| 1.4             | 16QAM      | 1          | 0            | 24.04              | 0.254 | 23.94                 | 0.248 | 23.95               | 0.248 |
| 1.4             | 16QAM      | 1          | 3            | 24.14              | 0.259 | 24.04                 | 0.254 | 24.04               | 0.254 |
| 1.4             | 16QAM      | 1          | 5            | 23.86              | 0.243 | 24.14                 | 0.259 | 23.80               | 0.240 |
| 1.4             | 16QAM      | 3          | 0            | 22.99              | 0.199 | 23.01                 | 0.200 | 23.07               | 0.203 |
| 1.4             | 16QAM      | 3          | 1            | 22.93              | 0.196 | 22.81                 | 0.191 | 23.05               | 0.202 |
| 1.4             | 16QAM      | 3          | 3            | 23.09              | 0.204 | 23.17                 | 0.207 | 22.89               | 0.195 |
| 1.4             | 16QAM      | 6          | 0            | 23.08              | 0.203 | 22.94                 | 0.197 | 23.26               | 0.212 |
| 1.4             | 64QAM      | 1          | 0            | 23.95              | 0.248 | 23.98                 | 0.250 | 24.18               | 0.262 |
| 1.4             | 64QAM      | 1          | 3            | 23.91              | 0.246 | 24.01                 | 0.252 | 23.76               | 0.238 |
| 1.4             | 64QAM      | 1          | 5            | 23.87              | 0.244 | 23.93                 | 0.247 | 23.94               | 0.248 |
| 1.4             | 64QAM      | 3          | 0            | 22.96              | 0.198 | 22.99                 | 0.199 | 22.92               | 0.196 |
| 1.4             | 64QAM      | 3          | 1            | 22.84              | 0.192 | 22.82                 | 0.191 | 22.83               | 0.192 |
| 1.4             | 64QAM      | 3          | 3            | 22.83              | 0.192 | 23.09                 | 0.204 | 22.78               | 0.190 |
| 1.4             | 64QAM      | 6          | 0            | 23.05              | 0.202 | 22.91                 | 0.195 | 23.11               | 0.205 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20850              |       | 21100                 |       | 21350               |       |
| Frequency (MHz) |            |            |              | 2510               |       | 2535                  |       | 2560                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 20              | QPSK       | 1          | 0            | 28.88              | 0.773 | 29.04                 | 0.802 | 28.98               | 0.791 |
| 20              | QPSK       | 1          | 49           | 28.75              | 0.750 | 28.95                 | 0.785 | 28.86               | 0.769 |
| 20              | QPSK       | 1          | 99           | 28.79              | 0.757 | 28.84                 | 0.766 | 28.84               | 0.766 |
| 20              | QPSK       | 50         | 0            | 27.86              | 0.611 | 28.08                 | 0.643 | 28.00               | 0.631 |
| 20              | QPSK       | 50         | 24           | 27.92              | 0.619 | 27.99                 | 0.630 | 28.01               | 0.632 |
| 20              | QPSK       | 50         | 50           | 27.82              | 0.605 | 27.94                 | 0.622 | 28.02               | 0.634 |
| 20              | QPSK       | 100        | 0            | 28.18              | 0.658 | 27.95                 | 0.624 | 28.24               | 0.667 |
| 20              | 16QAM      | 1          | 0            | 27.80              | 0.603 | 27.85                 | 0.610 | 28.03               | 0.635 |
| 20              | 16QAM      | 1          | 49           | 28.00              | 0.631 | 27.73                 | 0.593 | 27.77               | 0.598 |
| 20              | 16QAM      | 1          | 99           | 27.85              | 0.610 | 27.99                 | 0.630 | 27.76               | 0.597 |
| 20              | 16QAM      | 50         | 0            | 27.04              | 0.506 | 26.95                 | 0.495 | 26.93               | 0.493 |
| 20              | 16QAM      | 50         | 24           | 26.96              | 0.497 | 27.00                 | 0.501 | 26.95               | 0.495 |
| 20              | 16QAM      | 50         | 50           | 26.67              | 0.465 | 26.81                 | 0.480 | 26.79               | 0.478 |
| 20              | 16QAM      | 100        | 0            | 26.97              | 0.498 | 27.12                 | 0.515 | 27.18               | 0.522 |
| 20              | 64QAM      | 1          | 0            | 27.80              | 0.603 | 27.93                 | 0.621 | 28.02               | 0.634 |
| 20              | 64QAM      | 1          | 49           | 28.00              | 0.631 | 28.04                 | 0.637 | 28.01               | 0.632 |
| 20              | 64QAM      | 1          | 99           | 27.81              | 0.604 | 27.79                 | 0.601 | 28.01               | 0.632 |
| 20              | 64QAM      | 50         | 0            | 27.04              | 0.506 | 26.86                 | 0.485 | 26.94               | 0.494 |
| 20              | 64QAM      | 50         | 24           | 26.97              | 0.498 | 27.12                 | 0.515 | 26.73               | 0.471 |
| 20              | 64QAM      | 50         | 50           | 27.12              | 0.515 | 26.81                 | 0.480 | 27.05               | 0.507 |
| 20              | 64QAM      | 100        | 0            | 26.85              | 0.484 | 26.98                 | 0.499 | 26.89               | 0.489 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20825              |       | 21100                 |       | 21375               |       |
| Frequency (MHz) |            |            |              | 2507.5             |       | 2535                  |       | 2562.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 15              | QPSK       | 1          | 0            | 28.83              | 0.764 | 28.97                 | 0.789 | 28.95               | 0.785 |
| 15              | QPSK       | 1          | 37           | 28.83              | 0.764 | 28.89                 | 0.774 | 28.95               | 0.785 |
| 15              | QPSK       | 1          | 74           | 28.86              | 0.769 | 28.75                 | 0.750 | 28.85               | 0.767 |
| 15              | QPSK       | 36         | 0            | 27.94              | 0.622 | 27.94                 | 0.622 | 28.10               | 0.646 |
| 15              | QPSK       | 36         | 20           | 27.88              | 0.614 | 27.95                 | 0.624 | 27.74               | 0.594 |
| 15              | QPSK       | 36         | 39           | 27.87              | 0.612 | 28.10                 | 0.646 | 28.05               | 0.638 |
| 15              | QPSK       | 75         | 0            | 28.04              | 0.637 | 27.76                 | 0.597 | 27.90               | 0.617 |
| 15              | 16QAM      | 1          | 0            | 28.11              | 0.647 | 28.15                 | 0.653 | 28.06               | 0.640 |
| 15              | 16QAM      | 1          | 37           | 27.78              | 0.600 | 28.00                 | 0.631 | 28.10               | 0.646 |
| 15              | 16QAM      | 1          | 74           | 27.86              | 0.611 | 27.97                 | 0.627 | 28.08               | 0.643 |
| 15              | 16QAM      | 36         | 0            | 26.97              | 0.498 | 26.95                 | 0.495 | 27.07               | 0.509 |
| 15              | 16QAM      | 36         | 20           | 26.79              | 0.478 | 26.63                 | 0.460 | 26.89               | 0.489 |
| 15              | 16QAM      | 36         | 39           | 26.77              | 0.475 | 26.67                 | 0.465 | 27.01               | 0.502 |
| 15              | 16QAM      | 75         | 0            | 27.07              | 0.509 | 27.07                 | 0.509 | 27.14               | 0.518 |
| 15              | 64QAM      | 1          | 0            | 28.08              | 0.643 | 28.06                 | 0.640 | 27.89               | 0.615 |
| 15              | 64QAM      | 1          | 37           | 27.85              | 0.610 | 27.83                 | 0.607 | 27.82               | 0.605 |
| 15              | 64QAM      | 1          | 74           | 28.07              | 0.641 | 27.96                 | 0.625 | 27.94               | 0.622 |
| 15              | 64QAM      | 36         | 0            | 26.79              | 0.478 | 26.85                 | 0.484 | 27.02               | 0.504 |
| 15              | 64QAM      | 36         | 20           | 26.97              | 0.498 | 26.73                 | 0.471 | 26.89               | 0.489 |
| 15              | 64QAM      | 36         | 39           | 26.77              | 0.475 | 26.77                 | 0.475 | 26.97               | 0.498 |
| 15              | 64QAM      | 75         | 0            | 26.90              | 0.490 | 26.89                 | 0.489 | 26.83               | 0.482 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20800              |       | 21100                 |       | 21400               |       |
| Frequency (MHz) |            |            |              | 2505               |       | 2535                  |       | 2565                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1          | 0            | 28.89              | 0.774 | 28.98                 | 0.791 | 28.93               | 0.782 |
| 10              | QPSK       | 1          | 25           | 28.92              | 0.780 | 28.91                 | 0.778 | 28.87               | 0.771 |
| 10              | QPSK       | 1          | 49           | 28.80              | 0.759 | 28.96                 | 0.787 | 28.75               | 0.750 |
| 10              | QPSK       | 25         | 0            | 27.77              | 0.598 | 27.92                 | 0.619 | 27.83               | 0.607 |
| 10              | QPSK       | 25         | 12           | 27.86              | 0.611 | 27.80                 | 0.603 | 27.81               | 0.604 |
| 10              | QPSK       | 25         | 25           | 28.05              | 0.638 | 27.78                 | 0.600 | 27.95               | 0.624 |
| 10              | QPSK       | 50         | 0            | 27.95              | 0.624 | 28.05                 | 0.638 | 27.98               | 0.628 |
| 10              | 16QAM      | 1          | 0            | 27.95              | 0.624 | 28.03                 | 0.635 | 28.05               | 0.638 |
| 10              | 16QAM      | 1          | 25           | 28.05              | 0.638 | 27.86                 | 0.611 | 27.96               | 0.625 |
| 10              | 16QAM      | 1          | 49           | 27.84              | 0.608 | 27.91                 | 0.618 | 27.70               | 0.589 |
| 10              | 16QAM      | 25         | 0            | 27.05              | 0.507 | 26.82                 | 0.481 | 27.02               | 0.504 |
| 10              | 16QAM      | 25         | 12           | 26.92              | 0.492 | 26.76                 | 0.474 | 27.04               | 0.506 |
| 10              | 16QAM      | 25         | 25           | 26.89              | 0.489 | 27.01                 | 0.502 | 26.76               | 0.474 |
| 10              | 16QAM      | 50         | 0            | 26.94              | 0.494 | 27.00                 | 0.501 | 26.98               | 0.499 |
| 10              | 64QAM      | 1          | 0            | 27.93              | 0.621 | 27.82                 | 0.605 | 27.90               | 0.617 |
| 10              | 64QAM      | 1          | 25           | 28.07              | 0.641 | 27.98                 | 0.628 | 28.03               | 0.635 |
| 10              | 64QAM      | 1          | 49           | 28.00              | 0.631 | 27.88                 | 0.614 | 27.67               | 0.585 |
| 10              | 64QAM      | 25         | 0            | 26.76              | 0.474 | 27.06                 | 0.508 | 27.10               | 0.513 |
| 10              | 64QAM      | 25         | 12           | 26.80              | 0.479 | 26.94                 | 0.494 | 26.78               | 0.476 |
| 10              | 64QAM      | 25         | 25           | 26.74              | 0.472 | 27.15                 | 0.519 | 26.78               | 0.476 |
| 10              | 64QAM      | 50         | 0            | 26.91              | 0.491 | 26.84                 | 0.483 | 26.96               | 0.497 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20775              |       | 21100                 |       | 21425               |       |
| Frequency (MHz) |            |            |              | 2502.5             |       | 2535                  |       | 2567.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1          | 0            | 28.88              | 0.773 | 28.99                 | 0.793 | 28.95               | 0.785 |
| 5               | QPSK       | 1          | 12           | 28.82              | 0.762 | 28.87                 | 0.771 | 28.88               | 0.773 |
| 5               | QPSK       | 1          | 24           | 28.92              | 0.780 | 28.80                 | 0.759 | 28.77               | 0.753 |
| 5               | QPSK       | 12         | 0            | 27.76              | 0.597 | 27.92                 | 0.619 | 28.02               | 0.634 |
| 5               | QPSK       | 12         | 7            | 28.06              | 0.640 | 27.91                 | 0.618 | 27.90               | 0.617 |
| 5               | QPSK       | 12         | 13           | 28.07              | 0.641 | 28.00                 | 0.631 | 27.76               | 0.597 |
| 5               | QPSK       | 25         | 0            | 27.77              | 0.598 | 27.81                 | 0.604 | 27.96               | 0.625 |
| 5               | 16QAM      | 1          | 0            | 27.82              | 0.605 | 27.93                 | 0.621 | 28.07               | 0.641 |
| 5               | 16QAM      | 1          | 12           | 27.88              | 0.614 | 28.04                 | 0.637 | 27.81               | 0.604 |
| 5               | 16QAM      | 1          | 24           | 27.91              | 0.618 | 28.10                 | 0.646 | 28.04               | 0.637 |
| 5               | 16QAM      | 12         | 0            | 26.88              | 0.488 | 27.00                 | 0.501 | 27.14               | 0.518 |
| 5               | 16QAM      | 12         | 7            | 26.77              | 0.475 | 26.91                 | 0.491 | 26.70               | 0.468 |
| 5               | 16QAM      | 12         | 13           | 26.69              | 0.467 | 26.83                 | 0.482 | 27.07               | 0.509 |
| 5               | 16QAM      | 25         | 0            | 27.00              | 0.501 | 27.06                 | 0.508 | 26.89               | 0.489 |
| 5               | 64QAM      | 1          | 0            | 27.89              | 0.615 | 27.93                 | 0.621 | 27.75               | 0.596 |
| 5               | 64QAM      | 1          | 12           | 27.85              | 0.610 | 27.93                 | 0.621 | 27.97               | 0.627 |
| 5               | 64QAM      | 1          | 24           | 28.07              | 0.641 | 27.78                 | 0.600 | 27.84               | 0.608 |
| 5               | 64QAM      | 12         | 0            | 26.92              | 0.492 | 27.01                 | 0.502 | 26.86               | 0.485 |
| 5               | 64QAM      | 12         | 7            | 26.83              | 0.482 | 26.90                 | 0.490 | 26.96               | 0.497 |
| 5               | 64QAM      | 12         | 13           | 26.88              | 0.488 | 26.73                 | 0.471 | 26.99               | 0.500 |
| 5               | 64QAM      | 25         | 0            | 27.16              | 0.520 | 27.04                 | 0.506 | 26.95               | 0.495 |



| LTE Band 12     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23060              |       | 23095                 |       | 23130               |       |
| Frequency (MHz) |            |         |              | 704                |       | 707.5                 |       | 711                 |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1       | 0            | 22.82              | 0.191 | 22.87                 | 0.194 | 22.78               | 0.190 |
| 10              | QPSK       | 1       | 25           | 22.77              | 0.189 | 22.75                 | 0.188 | 22.71               | 0.187 |
| 10              | QPSK       | 1       | 49           | 22.73              | 0.187 | 22.66                 | 0.185 | 22.66               | 0.185 |
| 10              | QPSK       | 25      | 0            | 21.80              | 0.151 | 21.95                 | 0.157 | 21.93               | 0.156 |
| 10              | QPSK       | 25      | 12           | 21.87              | 0.154 | 21.88                 | 0.154 | 21.68               | 0.147 |
| 10              | QPSK       | 25      | 25           | 21.88              | 0.154 | 21.88                 | 0.154 | 22.02               | 0.159 |
| 10              | QPSK       | 50      | 0            | 21.83              | 0.152 | 22.03                 | 0.160 | 21.95               | 0.157 |
| 10              | 16QAM      | 1       | 0            | 21.80              | 0.151 | 21.86                 | 0.153 | 21.93               | 0.156 |
| 10              | 16QAM      | 1       | 25           | 21.76              | 0.150 | 21.65                 | 0.146 | 21.95               | 0.157 |
| 10              | 16QAM      | 1       | 49           | 22.03              | 0.160 | 22.02                 | 0.159 | 21.85               | 0.153 |
| 10              | 16QAM      | 25      | 0            | 20.94              | 0.124 | 21.05                 | 0.127 | 20.97               | 0.125 |
| 10              | 16QAM      | 25      | 12           | 20.89              | 0.123 | 20.88                 | 0.122 | 21.06               | 0.128 |
| 10              | 16QAM      | 25      | 25           | 20.71              | 0.118 | 20.94                 | 0.124 | 20.92               | 0.124 |
| 10              | 16QAM      | 50      | 0            | 20.83              | 0.121 | 21.02                 | 0.126 | 21.04               | 0.127 |
| 10              | 64QAM      | 1       | 0            | 21.68              | 0.147 | 21.90                 | 0.155 | 21.87               | 0.154 |
| 10              | 64QAM      | 1       | 25           | 21.79              | 0.151 | 22.04                 | 0.160 | 21.73               | 0.149 |
| 10              | 64QAM      | 1       | 49           | 21.65              | 0.146 | 21.98                 | 0.158 | 21.95               | 0.157 |
| 10              | 64QAM      | 25      | 0            | 21.04              | 0.127 | 20.84                 | 0.121 | 20.69               | 0.117 |
| 10              | 64QAM      | 25      | 12           | 20.95              | 0.124 | 20.67                 | 0.117 | 20.73               | 0.118 |
| 10              | 64QAM      | 25      | 25           | 20.96              | 0.125 | 21.02                 | 0.126 | 21.02               | 0.126 |
| 10              | 64QAM      | 50      | 0            | 20.73              | 0.118 | 20.70                 | 0.117 | 20.95               | 0.124 |



| LTE Band 12     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23035              |       | 23095                 |       | 23155               |       |
| Frequency (MHz) |            |         |              | 701.5              |       | 707.5                 |       | 713.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1       | 0            | 22.77              | 0.189 | 22.79                 | 0.190 | 22.74               | 0.188 |
| 5               | QPSK       | 1       | 12           | 22.76              | 0.189 | 22.72                 | 0.187 | 22.66               | 0.185 |
| 5               | QPSK       | 1       | 24           | 22.68              | 0.185 | 22.70                 | 0.186 | 22.72               | 0.187 |
| 5               | QPSK       | 12      | 0            | 21.73              | 0.149 | 21.84                 | 0.153 | 21.88               | 0.154 |
| 5               | QPSK       | 12      | 7            | 21.78              | 0.151 | 22.07                 | 0.161 | 21.91               | 0.155 |
| 5               | QPSK       | 12      | 13           | 21.83              | 0.152 | 22.07                 | 0.161 | 21.77               | 0.150 |
| 5               | QPSK       | 25      | 0            | 21.94              | 0.156 | 22.06                 | 0.161 | 21.78               | 0.151 |
| 5               | 16QAM      | 1       | 0            | 21.98              | 0.158 | 21.86                 | 0.153 | 21.97               | 0.157 |
| 5               | 16QAM      | 1       | 12           | 21.88              | 0.154 | 22.02                 | 0.159 | 21.69               | 0.148 |
| 5               | 16QAM      | 1       | 24           | 21.86              | 0.153 | 21.97                 | 0.157 | 21.98               | 0.158 |
| 5               | 16QAM      | 12      | 0            | 21.03              | 0.127 | 20.90                 | 0.123 | 21.11               | 0.129 |
| 5               | 16QAM      | 12      | 7            | 21.00              | 0.126 | 21.02                 | 0.126 | 20.91               | 0.123 |
| 5               | 16QAM      | 12      | 13           | 20.71              | 0.118 | 20.94                 | 0.124 | 20.70               | 0.117 |
| 5               | 16QAM      | 25      | 0            | 21.16              | 0.131 | 20.84                 | 0.121 | 20.91               | 0.123 |
| 5               | 64QAM      | 1       | 0            | 21.84              | 0.153 | 21.79                 | 0.151 | 21.70               | 0.148 |
| 5               | 64QAM      | 1       | 12           | 21.73              | 0.149 | 21.85                 | 0.153 | 21.74               | 0.149 |
| 5               | 64QAM      | 1       | 24           | 21.83              | 0.152 | 21.75                 | 0.150 | 21.82               | 0.152 |
| 5               | 64QAM      | 12      | 0            | 20.88              | 0.122 | 20.98                 | 0.125 | 20.79               | 0.120 |
| 5               | 64QAM      | 12      | 7            | 20.71              | 0.118 | 21.04                 | 0.127 | 20.73               | 0.118 |
| 5               | 64QAM      | 12      | 13           | 21.02              | 0.126 | 20.77                 | 0.119 | 20.67               | 0.117 |
| 5               | 64QAM      | 25      | 0            | 20.76              | 0.119 | 20.89                 | 0.123 | 20.94               | 0.124 |



| LTE Band 12     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23025              |       | 23095                 |       | 23165               |       |
| Frequency (MHz) |            |         |              | 700.5              |       | 707.5                 |       | 714.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1       | 0            | 22.72              | 0.187 | 22.81                 | 0.191 | 22.84               | 0.192 |
| 3               | QPSK       | 1       | 8            | 22.82              | 0.191 | 22.75                 | 0.188 | 22.76               | 0.189 |
| 3               | QPSK       | 1       | 14           | 22.73              | 0.187 | 22.84                 | 0.192 | 22.77               | 0.189 |
| 3               | QPSK       | 8       | 0            | 21.91              | 0.155 | 22.03                 | 0.160 | 21.94               | 0.156 |
| 3               | QPSK       | 8       | 4            | 21.93              | 0.156 | 21.84                 | 0.153 | 21.97               | 0.157 |
| 3               | QPSK       | 8       | 7            | 21.97              | 0.157 | 21.67                 | 0.147 | 21.75               | 0.150 |
| 3               | QPSK       | 15      | 0            | 21.85              | 0.153 | 21.96                 | 0.157 | 21.84               | 0.153 |
| 3               | 16QAM      | 1       | 0            | 22.05              | 0.160 | 21.97                 | 0.157 | 22.02               | 0.159 |
| 3               | 16QAM      | 1       | 8            | 22.04              | 0.160 | 21.97                 | 0.157 | 21.81               | 0.152 |
| 3               | 16QAM      | 1       | 14           | 21.72              | 0.149 | 21.81                 | 0.152 | 22.09               | 0.162 |
| 3               | 16QAM      | 8       | 0            | 21.01              | 0.126 | 20.87                 | 0.122 | 20.99               | 0.126 |
| 3               | 16QAM      | 8       | 4            | 20.75              | 0.119 | 20.79                 | 0.120 | 21.08               | 0.128 |
| 3               | 16QAM      | 8       | 7            | 20.65              | 0.116 | 20.92                 | 0.124 | 20.72               | 0.118 |
| 3               | 16QAM      | 15      | 0            | 20.88              | 0.122 | 20.91                 | 0.123 | 20.93               | 0.124 |
| 3               | 64QAM      | 1       | 0            | 21.95              | 0.157 | 22.04                 | 0.160 | 21.95               | 0.157 |
| 3               | 64QAM      | 1       | 8            | 21.80              | 0.151 | 21.83                 | 0.152 | 21.78               | 0.151 |
| 3               | 64QAM      | 1       | 14           | 21.72              | 0.149 | 21.64                 | 0.146 | 21.80               | 0.151 |
| 3               | 64QAM      | 8       | 0            | 20.77              | 0.119 | 20.99                 | 0.126 | 20.75               | 0.119 |
| 3               | 64QAM      | 8       | 4            | 20.81              | 0.121 | 21.03                 | 0.127 | 21.01               | 0.126 |
| 3               | 64QAM      | 8       | 7            | 20.82              | 0.121 | 20.94                 | 0.124 | 20.78               | 0.120 |
| 3               | 64QAM      | 15      | 0            | 20.78              | 0.120 | 21.02                 | 0.126 | 20.80               | 0.120 |



| LTE Band 12     |            |         |           | Measured E.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-----------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq. |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 23017           |       | 23095              |       | 23173            |       |
| Frequency (MHz) |            |         |           | 699.7           |       | 707.5              |       | 715.3            |       |
|                 |            |         |           | dBm             | W     | dBm                | W     | dBm              | W     |
| 1.4             | QPSK       | 1       | 0         | 22.80           | 0.191 | 22.84              | 0.192 | 22.83            | 0.192 |
| 1.4             | QPSK       | 1       | 3         | 22.76           | 0.189 | 22.77              | 0.189 | 22.77            | 0.189 |
| 1.4             | QPSK       | 1       | 5         | 22.68           | 0.185 | 22.76              | 0.189 | 22.72            | 0.187 |
| 1.4             | QPSK       | 3       | 0         | 21.73           | 0.149 | 22.03              | 0.160 | 21.95            | 0.157 |
| 1.4             | QPSK       | 3       | 1         | 21.67           | 0.147 | 21.93              | 0.156 | 21.89            | 0.155 |
| 1.4             | QPSK       | 3       | 3         | 21.97           | 0.157 | 21.92              | 0.156 | 21.78            | 0.151 |
| 1.4             | QPSK       | 6       | 0         | 22.03           | 0.160 | 21.94              | 0.156 | 22.16            | 0.164 |
| 1.4             | 16QAM      | 1       | 0         | 21.88           | 0.154 | 22.01              | 0.159 | 21.92            | 0.156 |
| 1.4             | 16QAM      | 1       | 3         | 21.86           | 0.153 | 21.98              | 0.158 | 21.99            | 0.158 |
| 1.4             | 16QAM      | 1       | 5         | 21.96           | 0.157 | 21.69              | 0.148 | 21.89            | 0.155 |
| 1.4             | 16QAM      | 3       | 0         | 20.98           | 0.125 | 20.99              | 0.126 | 20.92            | 0.124 |
| 1.4             | 16QAM      | 3       | 1         | 20.92           | 0.124 | 20.64              | 0.116 | 20.81            | 0.121 |
| 1.4             | 16QAM      | 3       | 3         | 20.71           | 0.118 | 20.85              | 0.122 | 20.85            | 0.122 |
| 1.4             | 16QAM      | 6       | 0         | 20.69           | 0.117 | 20.93              | 0.124 | 20.84            | 0.121 |
| 1.4             | 64QAM      | 1       | 0         | 21.93           | 0.156 | 21.98              | 0.158 | 21.78            | 0.151 |
| 1.4             | 64QAM      | 1       | 3         | 21.90           | 0.155 | 21.92              | 0.156 | 21.79            | 0.151 |
| 1.4             | 64QAM      | 1       | 5         | 21.82           | 0.152 | 21.72              | 0.149 | 21.79            | 0.151 |
| 1.4             | 64QAM      | 3       | 0         | 21.01           | 0.126 | 21.04              | 0.127 | 21.05            | 0.127 |
| 1.4             | 64QAM      | 3       | 1         | 21.03           | 0.127 | 20.86              | 0.122 | 20.73            | 0.118 |
| 1.4             | 64QAM      | 3       | 3         | 20.80           | 0.120 | 20.88              | 0.122 | 21.05            | 0.127 |
| 1.4             | 64QAM      | 6       | 0         | 20.72           | 0.118 | 20.83              | 0.121 | 20.78            | 0.120 |



| LTE Band 66     |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 132072            |       | 132322             |       | 132572           |       |
| Frequency (MHz) |            |         |           | 1720              |       | 1745               |       | 1770             |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 20              | QPSK       | 1       | 0         | 24.75             | 0.299 | 25.03              | 0.318 | 24.94            | 0.312 |
| 20              | QPSK       | 1       | 49        | 24.91             | 0.310 | 24.77              | 0.300 | 24.83            | 0.304 |
| 20              | QPSK       | 1       | 99        | 24.76             | 0.299 | 24.91              | 0.310 | 24.84            | 0.305 |
| 20              | QPSK       | 50      | 0         | 23.89             | 0.245 | 24.02              | 0.252 | 23.91            | 0.246 |
| 20              | QPSK       | 50      | 24        | 23.87             | 0.244 | 23.85              | 0.243 | 24.01            | 0.252 |
| 20              | QPSK       | 50      | 50        | 24.01             | 0.252 | 24.03              | 0.253 | 23.82            | 0.241 |
| 20              | QPSK       | 100     | 0         | 23.90             | 0.245 | 24.11              | 0.258 | 24.00            | 0.251 |
| 20              | 16QAM      | 1       | 0         | 23.90             | 0.245 | 24.05              | 0.254 | 23.96            | 0.249 |
| 20              | 16QAM      | 1       | 49        | 24.09             | 0.256 | 23.99              | 0.251 | 23.85            | 0.243 |
| 20              | 16QAM      | 1       | 99        | 23.83             | 0.242 | 23.77              | 0.238 | 23.79            | 0.239 |
| 20              | 16QAM      | 50      | 0         | 23.09             | 0.204 | 22.92              | 0.196 | 23.11            | 0.205 |
| 20              | 16QAM      | 50      | 24        | 22.98             | 0.199 | 22.89              | 0.195 | 23.12            | 0.205 |
| 20              | 16QAM      | 50      | 50        | 22.85             | 0.193 | 22.97              | 0.198 | 22.79            | 0.190 |
| 20              | 16QAM      | 100     | 0         | 22.80             | 0.191 | 23.04              | 0.201 | 22.87            | 0.194 |
| 20              | 64QAM      | 1       | 0         | 23.91             | 0.246 | 23.96              | 0.249 | 23.99            | 0.251 |
| 20              | 64QAM      | 1       | 49        | 23.77             | 0.238 | 23.96              | 0.249 | 23.89            | 0.245 |
| 20              | 64QAM      | 1       | 99        | 23.87             | 0.244 | 23.80              | 0.240 | 24.00            | 0.251 |
| 20              | 64QAM      | 50      | 0         | 22.96             | 0.198 | 23.08              | 0.203 | 22.83            | 0.192 |
| 20              | 64QAM      | 50      | 24        | 22.86             | 0.193 | 22.96              | 0.198 | 22.87            | 0.194 |
| 20              | 64QAM      | 50      | 50        | 22.92             | 0.196 | 22.97              | 0.198 | 22.79            | 0.190 |
| 20              | 64QAM      | 100     | 0         | 22.92             | 0.196 | 22.85              | 0.193 | 22.90            | 0.195 |



| LTE Band 66     |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 132047            |       | 132322             |       | 132597           |       |
| Frequency (MHz) |            |         |           | 1717.5            |       | 1745               |       | 1772.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 15              | QPSK       | 1       | 0         | 24.77             | 0.300 | 24.87              | 0.307 | 24.92            | 0.310 |
| 15              | QPSK       | 1       | 37        | 24.82             | 0.303 | 24.84              | 0.305 | 24.82            | 0.303 |
| 15              | QPSK       | 1       | 74        | 24.84             | 0.305 | 24.89              | 0.308 | 24.85            | 0.305 |
| 15              | QPSK       | 36      | 0         | 23.93             | 0.247 | 24.20              | 0.263 | 24.06            | 0.255 |
| 15              | QPSK       | 36      | 20        | 23.86             | 0.243 | 23.78              | 0.239 | 23.98            | 0.250 |
| 15              | QPSK       | 36      | 39        | 23.84             | 0.242 | 23.86              | 0.243 | 23.90            | 0.245 |
| 15              | QPSK       | 75      | 0         | 24.15             | 0.260 | 23.85              | 0.243 | 24.10            | 0.257 |
| 15              | 16QAM      | 1       | 0         | 23.84             | 0.242 | 24.14              | 0.259 | 23.94            | 0.248 |
| 15              | 16QAM      | 1       | 37        | 24.09             | 0.256 | 24.04              | 0.254 | 23.87            | 0.244 |
| 15              | 16QAM      | 1       | 74        | 23.82             | 0.241 | 24.14              | 0.259 | 23.88            | 0.244 |
| 15              | 16QAM      | 36      | 0         | 22.89             | 0.195 | 22.89              | 0.195 | 22.86            | 0.193 |
| 15              | 16QAM      | 36      | 20        | 23.02             | 0.200 | 22.77              | 0.189 | 23.13            | 0.206 |
| 15              | 16QAM      | 36      | 39        | 23.04             | 0.201 | 22.81              | 0.191 | 22.98            | 0.199 |
| 15              | 16QAM      | 75      | 0         | 22.85             | 0.193 | 23.07              | 0.203 | 22.78            | 0.190 |
| 15              | 64QAM      | 1       | 0         | 23.89             | 0.245 | 24.04              | 0.254 | 23.83            | 0.242 |
| 15              | 64QAM      | 1       | 37        | 24.00             | 0.251 | 23.85              | 0.243 | 23.93            | 0.247 |
| 15              | 64QAM      | 1       | 74        | 24.07             | 0.255 | 23.83              | 0.242 | 24.02            | 0.252 |
| 15              | 64QAM      | 36      | 0         | 22.94             | 0.197 | 23.06              | 0.202 | 22.90            | 0.195 |
| 15              | 64QAM      | 36      | 20        | 23.03             | 0.201 | 22.83              | 0.192 | 22.86            | 0.193 |
| 15              | 64QAM      | 36      | 39        | 22.81             | 0.191 | 22.80              | 0.191 | 22.79            | 0.190 |
| 15              | 64QAM      | 75      | 0         | 23.08             | 0.203 | 22.95              | 0.197 | 22.97            | 0.198 |



| LTE Band 66     |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 132022            |       | 132322             |       | 132622           |       |
| Frequency (MHz) |            |         |           | 1715              |       | 1745               |       | 1775             |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 10              | QPSK       | 1       | 0         | 24.87             | 0.307 | 24.95              | 0.313 | 24.93            | 0.311 |
| 10              | QPSK       | 1       | 25        | 24.84             | 0.305 | 24.89              | 0.308 | 24.88            | 0.308 |
| 10              | QPSK       | 1       | 49        | 24.82             | 0.303 | 24.90              | 0.309 | 24.81            | 0.303 |
| 10              | QPSK       | 25      | 0         | 24.07             | 0.255 | 24.14              | 0.259 | 24.12            | 0.258 |
| 10              | QPSK       | 25      | 12        | 23.80             | 0.240 | 24.14              | 0.259 | 24.00            | 0.251 |
| 10              | QPSK       | 25      | 25        | 24.12             | 0.258 | 23.86              | 0.243 | 24.05            | 0.254 |
| 10              | QPSK       | 50      | 0         | 23.77             | 0.238 | 23.98              | 0.250 | 23.91            | 0.246 |
| 10              | 16QAM      | 1       | 0         | 23.96             | 0.249 | 23.96              | 0.249 | 23.86            | 0.243 |
| 10              | 16QAM      | 1       | 25        | 23.85             | 0.243 | 23.94              | 0.248 | 23.99            | 0.251 |
| 10              | 16QAM      | 1       | 49        | 23.83             | 0.242 | 23.75              | 0.237 | 23.86            | 0.243 |
| 10              | 16QAM      | 25      | 0         | 23.08             | 0.203 | 23.15              | 0.207 | 22.84            | 0.192 |
| 10              | 16QAM      | 25      | 12        | 22.85             | 0.193 | 22.87              | 0.194 | 22.91            | 0.195 |
| 10              | 16QAM      | 25      | 25        | 22.85             | 0.193 | 22.82              | 0.191 | 23.03            | 0.201 |
| 10              | 16QAM      | 50      | 0         | 22.97             | 0.198 | 23.16              | 0.207 | 23.01            | 0.200 |
| 10              | 64QAM      | 1       | 0         | 23.76             | 0.238 | 23.89              | 0.245 | 24.09            | 0.256 |
| 10              | 64QAM      | 1       | 25        | 23.86             | 0.243 | 23.75              | 0.237 | 23.74            | 0.237 |
| 10              | 64QAM      | 1       | 49        | 24.06             | 0.255 | 23.81              | 0.240 | 23.90            | 0.245 |
| 10              | 64QAM      | 25      | 0         | 23.16             | 0.207 | 22.86              | 0.193 | 23.06            | 0.202 |
| 10              | 64QAM      | 25      | 12        | 23.09             | 0.204 | 23.07              | 0.203 | 22.85            | 0.193 |
| 10              | 64QAM      | 25      | 25        | 22.83             | 0.192 | 22.81              | 0.191 | 23.00            | 0.200 |
| 10              | 64QAM      | 50      | 0         | 23.18             | 0.208 | 23.01              | 0.200 | 23.12            | 0.205 |



| LTE Band 66     |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 131997            |       | 132322             |       | 132647           |       |
| Frequency (MHz) |            |         |           | 1712.5            |       | 1745               |       | 1777.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 5               | QPSK       | 1       | 0         | 24.92             | 0.310 | 24.99              | 0.316 | 24.97            | 0.314 |
| 5               | QPSK       | 1       | 12        | 24.77             | 0.300 | 24.79              | 0.301 | 24.93            | 0.311 |
| 5               | QPSK       | 1       | 24        | 24.83             | 0.304 | 24.79              | 0.301 | 24.84            | 0.305 |
| 5               | QPSK       | 12      | 0         | 24.17             | 0.261 | 23.90              | 0.245 | 24.05            | 0.254 |
| 5               | QPSK       | 12      | 7         | 23.88             | 0.244 | 23.85              | 0.243 | 23.88            | 0.244 |
| 5               | QPSK       | 12      | 13        | 23.80             | 0.240 | 23.86              | 0.243 | 23.99            | 0.251 |
| 5               | QPSK       | 25      | 0         | 23.90             | 0.245 | 23.95              | 0.248 | 23.94            | 0.248 |
| 5               | 16QAM      | 1       | 0         | 23.88             | 0.244 | 23.77              | 0.238 | 23.91            | 0.246 |
| 5               | 16QAM      | 1       | 12        | 23.93             | 0.247 | 24.11              | 0.258 | 23.97            | 0.249 |
| 5               | 16QAM      | 1       | 24        | 24.06             | 0.255 | 23.87              | 0.244 | 24.13            | 0.259 |
| 5               | 16QAM      | 12      | 0         | 23.09             | 0.204 | 22.80              | 0.191 | 23.14            | 0.206 |
| 5               | 16QAM      | 12      | 7         | 22.76             | 0.189 | 23.01              | 0.200 | 23.14            | 0.206 |
| 5               | 16QAM      | 12      | 13        | 22.76             | 0.189 | 22.90              | 0.195 | 22.64            | 0.184 |
| 5               | 16QAM      | 25      | 0         | 22.99             | 0.199 | 23.09              | 0.204 | 23.00            | 0.200 |
| 5               | 64QAM      | 1       | 0         | 23.85             | 0.243 | 23.93              | 0.247 | 23.97            | 0.249 |
| 5               | 64QAM      | 1       | 12        | 23.99             | 0.251 | 23.86              | 0.243 | 24.12            | 0.258 |
| 5               | 64QAM      | 1       | 24        | 23.82             | 0.241 | 23.83              | 0.242 | 24.03            | 0.253 |
| 5               | 64QAM      | 12      | 0         | 22.84             | 0.192 | 22.90              | 0.195 | 22.93            | 0.196 |
| 5               | 64QAM      | 12      | 7         | 22.73             | 0.187 | 22.91              | 0.195 | 23.01            | 0.200 |
| 5               | 64QAM      | 12      | 13        | 23.05             | 0.202 | 22.99              | 0.199 | 22.89            | 0.195 |
| 5               | 64QAM      | 25      | 0         | 23.20             | 0.209 | 22.93              | 0.196 | 22.90            | 0.195 |



| LTE Band 66     |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 131987            |       | 132322             |       | 132657           |       |
| Frequency (MHz) |            |         |           | 1711.5            |       | 1745               |       | 1778.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 3               | QPSK       | 1       | 0         | 24.88             | 0.308 | 25.00              | 0.316 | 24.97            | 0.314 |
| 3               | QPSK       | 1       | 8         | 24.85             | 0.305 | 24.92              | 0.310 | 24.95            | 0.313 |
| 3               | QPSK       | 1       | 14        | 24.78             | 0.301 | 24.85              | 0.305 | 24.92            | 0.310 |
| 3               | QPSK       | 8       | 0         | 23.98             | 0.250 | 24.14              | 0.259 | 23.87            | 0.244 |
| 3               | QPSK       | 8       | 4         | 23.87             | 0.244 | 23.98              | 0.250 | 23.83            | 0.242 |
| 3               | QPSK       | 8       | 7         | 23.78             | 0.239 | 23.76              | 0.238 | 23.81            | 0.240 |
| 3               | QPSK       | 15      | 0         | 23.91             | 0.246 | 24.02              | 0.252 | 23.99            | 0.251 |
| 3               | 16QAM      | 1       | 0         | 23.82             | 0.241 | 23.99              | 0.251 | 24.02            | 0.252 |
| 3               | 16QAM      | 1       | 8         | 23.78             | 0.239 | 23.92              | 0.247 | 23.98            | 0.250 |
| 3               | 16QAM      | 1       | 14        | 23.91             | 0.246 | 24.08              | 0.256 | 24.13            | 0.259 |
| 3               | 16QAM      | 8       | 0         | 22.78             | 0.190 | 23.05              | 0.202 | 23.05            | 0.202 |
| 3               | 16QAM      | 8       | 4         | 22.88             | 0.194 | 22.90              | 0.195 | 22.96            | 0.198 |
| 3               | 16QAM      | 8       | 7         | 22.89             | 0.195 | 22.88              | 0.194 | 22.84            | 0.192 |
| 3               | 16QAM      | 15      | 0         | 22.88             | 0.194 | 23.09              | 0.204 | 22.87            | 0.194 |
| 3               | 64QAM      | 1       | 0         | 24.00             | 0.251 | 23.98              | 0.250 | 23.81            | 0.240 |
| 3               | 64QAM      | 1       | 8         | 23.99             | 0.251 | 24.06              | 0.255 | 23.87            | 0.244 |
| 3               | 64QAM      | 1       | 14        | 23.83             | 0.242 | 23.77              | 0.238 | 23.94            | 0.248 |
| 3               | 64QAM      | 8       | 0         | 22.91             | 0.195 | 22.98              | 0.199 | 22.82            | 0.191 |
| 3               | 64QAM      | 8       | 4         | 23.00             | 0.200 | 22.78              | 0.190 | 22.79            | 0.190 |
| 3               | 64QAM      | 8       | 7         | 22.97             | 0.198 | 22.93              | 0.196 | 22.92            | 0.196 |
| 3               | 64QAM      | 15      | 0         | 22.98             | 0.199 | 22.99              | 0.199 | 23.13            | 0.206 |



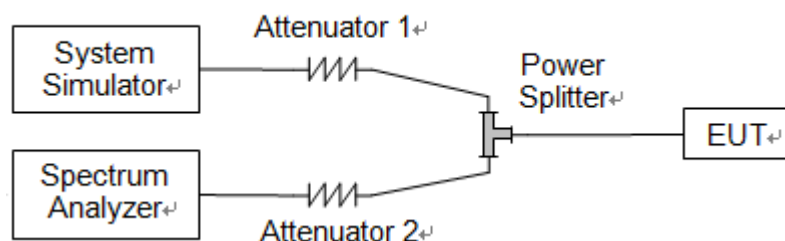
| LTE Band 66     |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 131979            |       | 132322             |       | 132665           |       |
| Frequency (MHz) |            |         |           | 1710.7            |       | 1745               |       | 1779.3           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 1.4             | QPSK       | 1       | 0         | 24.96             | 0.313 | 24.98              | 0.315 | 24.86            | 0.306 |
| 1.4             | QPSK       | 1       | 3         | 24.97             | 0.314 | 24.88              | 0.308 | 24.92            | 0.310 |
| 1.4             | QPSK       | 1       | 5         | 24.95             | 0.313 | 24.87              | 0.307 | 24.90            | 0.309 |
| 1.4             | QPSK       | 3       | 0         | 23.79             | 0.239 | 24.05              | 0.254 | 23.88            | 0.244 |
| 1.4             | QPSK       | 3       | 1         | 24.07             | 0.255 | 23.98              | 0.250 | 24.00            | 0.251 |
| 1.4             | QPSK       | 3       | 3         | 23.78             | 0.239 | 23.80              | 0.240 | 23.83            | 0.242 |
| 1.4             | QPSK       | 6       | 0         | 24.05             | 0.254 | 23.89              | 0.245 | 23.99            | 0.251 |
| 1.4             | 16QAM      | 1       | 0         | 23.88             | 0.244 | 24.16              | 0.261 | 24.27            | 0.267 |
| 1.4             | 16QAM      | 1       | 3         | 24.13             | 0.259 | 24.07              | 0.255 | 24.05            | 0.254 |
| 1.4             | 16QAM      | 1       | 5         | 24.08             | 0.256 | 23.86              | 0.243 | 23.83            | 0.242 |
| 1.4             | 16QAM      | 3       | 0         | 23.06             | 0.202 | 23.04              | 0.201 | 23.07            | 0.203 |
| 1.4             | 16QAM      | 3       | 1         | 22.94             | 0.197 | 22.86              | 0.193 | 23.01            | 0.200 |
| 1.4             | 16QAM      | 3       | 3         | 22.79             | 0.190 | 23.01              | 0.200 | 23.08            | 0.203 |
| 1.4             | 16QAM      | 6       | 0         | 23.07             | 0.203 | 23.13              | 0.206 | 22.89            | 0.195 |
| 1.4             | 64QAM      | 1       | 0         | 24.04             | 0.254 | 24.03              | 0.253 | 23.85            | 0.243 |
| 1.4             | 64QAM      | 1       | 3         | 23.77             | 0.238 | 24.04              | 0.254 | 24.02            | 0.252 |
| 1.4             | 64QAM      | 1       | 5         | 23.78             | 0.239 | 23.84              | 0.242 | 23.76            | 0.238 |
| 1.4             | 64QAM      | 3       | 0         | 22.95             | 0.197 | 22.91              | 0.195 | 22.84            | 0.192 |
| 1.4             | 64QAM      | 3       | 1         | 22.77             | 0.189 | 22.84              | 0.192 | 22.84            | 0.192 |
| 1.4             | 64QAM      | 3       | 3         | 22.87             | 0.194 | 22.89              | 0.195 | 22.82            | 0.191 |
| 1.4             | 64QAM      | 6       | 0         | 22.80             | 0.191 | 22.99              | 0.199 | 23.12            | 0.205 |

## 2.2. Occupied Bandwidth

### 2.2.1. Requirement

According to FCC section 2.1049, 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 radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.2.3. Test Procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

### 2.2.4. Test Result



| LTE Band 2 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4        | Low           | QPSK       | 1.09        | 1.25         |
|            | Low           | 16QAM      | 1.09        | 1.24         |
|            | Low           | 64QAM      | 1.10        | 1.23         |
|            | Mid           | QPSK       | 1.09        | 1.24         |
|            | Mid           | 16QAM      | 1.10        | 1.24         |
|            | Mid           | 64QAM      | 1.10        | 1.24         |
|            | High          | QPSK       | 1.09        | 1.23         |
|            | High          | 16QAM      | 1.09        | 1.24         |
|            | High          | 64QAM      | 1.10        | 1.24         |
| 3          | Low           | QPSK       | 2.70        | 3.00         |
|            | Low           | 16QAM      | 2.70        | 3.01         |
|            | Low           | 64QAM      | 2.70        | 2.98         |
|            | Mid           | QPSK       | 2.70        | 3.00         |
|            | Mid           | 16QAM      | 2.70        | 3.02         |
|            | Mid           | 64QAM      | 2.70        | 2.98         |
|            | High          | QPSK       | 2.70        | 2.98         |
|            | High          | 16QAM      | 2.71        | 3.00         |
|            | High          | 64QAM      | 2.70        | 2.98         |
| 5          | Low           | QPSK       | 4.50        | 4.96         |
|            | Low           | 16QAM      | 4.51        | 4.97         |
|            | Low           | 64QAM      | 4.50        | 4.98         |
|            | Mid           | QPSK       | 4.51        | 4.95         |
|            | Mid           | 16QAM      | 4.50        | 4.97         |
|            | Mid           | 64QAM      | 4.51        | 4.99         |
|            | High          | QPSK       | 4.50        | 4.97         |
|            | High          | 16QAM      | 4.51        | 4.96         |
|            | High          | 64QAM      | 4.51        | 5.00         |
| 10         | Low           | QPSK       | 9.00        | 9.84         |
|            | Low           | 16QAM      | 8.95        | 9.75         |
|            | Low           | 64QAM      | 8.96        | 9.79         |
|            | Mid           | QPSK       | 8.97        | 9.83         |
|            | Mid           | 16QAM      | 8.95        | 9.70         |
|            | Mid           | 64QAM      | 8.96        | 9.78         |
|            | High          | QPSK       | 8.98        | 9.79         |
|            | High          | 16QAM      | 8.96        | 9.79         |
|            | High          | 64QAM      | 8.97        | 9.82         |



|    |      |       |       |       |
|----|------|-------|-------|-------|
| 15 | Low  | QPSK  | 13.47 | 14.62 |
|    | Low  | 16QAM | 13.46 | 14.65 |
|    | Low  | 64QAM | 13.45 | 14.70 |
|    | Mid  | QPSK  | 13.50 | 14.64 |
|    | Mid  | 16QAM | 13.47 | 14.66 |
|    | Mid  | 64QAM | 13.45 | 14.67 |
|    | High | QPSK  | 13.44 | 14.64 |
|    | High | 16QAM | 13.46 | 14.71 |
|    | High | 64QAM | 13.46 | 14.71 |
| 20 | Low  | QPSK  | 17.94 | 19.51 |
|    | Low  | 16QAM | 17.92 | 19.46 |
|    | Low  | 64QAM | 17.95 | 19.46 |
|    | Mid  | QPSK  | 17.91 | 19.46 |
|    | Mid  | 16QAM | 17.98 | 19.48 |
|    | Mid  | 64QAM | 17.96 | 19.61 |
|    | High | QPSK  | 17.93 | 19.44 |
|    | High | 16QAM | 17.98 | 19.88 |
|    | High | 64QAM | 17.93 | 19.58 |



| LTE Band 4 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4        | Low           | QPSK       | 1.09        | 1.23         |
|            | Low           | 16QAM      | 1.09        | 1.24         |
|            | Low           | 64QAM      | 1.10        | 1.24         |
|            | Mid           | QPSK       | 1.09        | 1.23         |
|            | Mid           | 16QAM      | 1.10        | 1.24         |
|            | Mid           | 64QAM      | 1.09        | 1.23         |
|            | High          | QPSK       | 1.09        | 1.23         |
|            | High          | 16QAM      | 1.09        | 1.23         |
|            | High          | 64QAM      | 1.10        | 1.22         |
| 3          | Low           | QPSK       | 2.70        | 2.99         |
|            | Low           | 16QAM      | 2.70        | 2.99         |
|            | Low           | 64QAM      | 2.70        | 2.99         |
|            | Mid           | QPSK       | 2.70        | 2.99         |
|            | Mid           | 16QAM      | 2.70        | 3.01         |
|            | Mid           | 64QAM      | 2.70        | 2.99         |
|            | High          | QPSK       | 2.70        | 2.97         |
|            | High          | 16QAM      | 2.70        | 3.00         |
|            | High          | 64QAM      | 2.70        | 2.98         |
| 5          | Low           | QPSK       | 4.51        | 4.98         |
|            | Low           | 16QAM      | 4.50        | 4.97         |
|            | Low           | 64QAM      | 4.51        | 4.96         |
|            | Mid           | QPSK       | 4.50        | 4.95         |
|            | Mid           | 16QAM      | 4.50        | 4.93         |
|            | Mid           | 64QAM      | 4.51        | 4.96         |
|            | High          | QPSK       | 4.50        | 4.99         |
|            | High          | 16QAM      | 4.51        | 4.99         |
|            | High          | 64QAM      | 4.51        | 4.96         |
| 10         | Low           | QPSK       | 8.99        | 9.83         |
|            | Low           | 16QAM      | 8.96        | 9.79         |
|            | Low           | 64QAM      | 8.98        | 9.83         |
|            | Mid           | QPSK       | 8.98        | 9.76         |
|            | Mid           | 16QAM      | 8.94        | 9.79         |
|            | Mid           | 64QAM      | 8.97        | 9.77         |
|            | High          | QPSK       | 8.99        | 9.82         |
|            | High          | 16QAM      | 8.96        | 9.72         |
|            | High          | 64QAM      | 8.99        | 9.80         |



|    |      |       |       |       |
|----|------|-------|-------|-------|
| 15 | Low  | QPSK  | 13.53 | 14.68 |
|    | Low  | 16QAM | 13.50 | 14.67 |
|    | Low  | 64QAM | 13.48 | 14.70 |
|    | Mid  | QPSK  | 13.46 | 14.63 |
|    | Mid  | 16QAM | 13.45 | 14.57 |
|    | Mid  | 64QAM | 13.41 | 14.61 |
|    | High | QPSK  | 13.48 | 14.64 |
|    | High | 16QAM | 13.48 | 14.71 |
|    | High | 64QAM | 13.47 | 14.75 |
| 20 | Low  | QPSK  | 17.96 | 19.63 |
|    | Low  | 16QAM | 18.00 | 19.60 |
|    | Low  | 64QAM | 18.00 | 19.63 |
|    | Mid  | QPSK  | 17.95 | 19.49 |
|    | Mid  | 16QAM | 17.92 | 19.38 |
|    | Mid  | 64QAM | 17.88 | 19.33 |
|    | High | QPSK  | 18.01 | 19.54 |
|    | High | 16QAM | 18.06 | 19.69 |
|    | High | 64QAM | 18.01 | 19.46 |



| LTE Band 7 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 5          | Low           | QPSK       | 4.49        | 5.00         |
|            | Low           | 16QAM      | 4.51        | 4.99         |
|            | Low           | 64QAM      | 4.51        | 4.99         |
|            | Mid           | QPSK       | 4.49        | 4.96         |
|            | Mid           | 16QAM      | 4.50        | 4.96         |
|            | Mid           | 64QAM      | 4.50        | 4.95         |
|            | High          | QPSK       | 4.50        | 4.99         |
|            | High          | 16QAM      | 4.51        | 4.94         |
|            | High          | 64QAM      | 4.50        | 4.97         |
| 10         | Low           | QPSK       | 8.99        | 9.79         |
|            | Low           | 16QAM      | 8.95        | 9.71         |
|            | Low           | 64QAM      | 8.97        | 9.78         |
|            | Mid           | QPSK       | 8.97        | 9.81         |
|            | Mid           | 16QAM      | 8.96        | 9.75         |
|            | Mid           | 64QAM      | 8.98        | 9.79         |
|            | High          | QPSK       | 9.00        | 9.83         |
|            | High          | 16QAM      | 8.96        | 9.76         |
|            | High          | 64QAM      | 8.97        | 9.82         |
| 15         | Low           | QPSK       | 13.43       | 14.58        |
|            | Low           | 16QAM      | 13.47       | 14.62        |
|            | Low           | 64QAM      | 13.45       | 14.62        |
|            | Mid           | QPSK       | 13.49       | 14.83        |
|            | Mid           | 16QAM      | 13.48       | 14.64        |
|            | Mid           | 64QAM      | 13.45       | 14.67        |
|            | High          | QPSK       | 13.49       | 14.68        |
|            | High          | 16QAM      | 13.46       | 14.72        |
|            | High          | 64QAM      | 13.46       | 14.65        |
| 20         | Low           | QPSK       | 17.90       | 19.47        |
|            | Low           | 16QAM      | 17.93       | 19.52        |
|            | Low           | 64QAM      | 17.92       | 19.61        |
|            | Mid           | QPSK       | 17.97       | 19.57        |
|            | Mid           | 16QAM      | 18.01       | 19.64        |
|            | Mid           | 64QAM      | 18.00       | 19.64        |
|            | High          | QPSK       | 17.94       | 19.47        |
|            | High          | 16QAM      | 17.95       | 19.38        |
|            | High          | 64QAM      | 17.92       | 19.53        |



| LTE Band 12 |               |            |             |              |
|-------------|---------------|------------|-------------|--------------|
| BW(MHz)     | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4         | Low           | QPSK       | 1.09        | 1.23         |
|             | Low           | 16QAM      | 1.10        | 1.23         |
|             | Low           | 64QAM      | 1.09        | 1.23         |
|             | Mid           | QPSK       | 1.09        | 1.23         |
|             | Mid           | 16QAM      | 1.10        | 1.24         |
|             | Mid           | 64QAM      | 1.09        | 1.24         |
|             | High          | QPSK       | 1.09        | 1.24         |
|             | High          | 16QAM      | 1.10        | 1.24         |
|             | High          | 64QAM      | 1.10        | 1.21         |
| 3           | Low           | QPSK       | 2.70        | 2.99         |
|             | Low           | 16QAM      | 2.70        | 3.00         |
|             | Low           | 64QAM      | 2.70        | 2.99         |
|             | Mid           | QPSK       | 2.70        | 3.00         |
|             | Mid           | 16QAM      | 2.70        | 3.00         |
|             | Mid           | 64QAM      | 2.70        | 3.00         |
|             | High          | QPSK       | 2.70        | 3.00         |
|             | High          | 16QAM      | 2.70        | 3.00         |
|             | High          | 64QAM      | 2.71        | 2.99         |
| 5           | Low           | QPSK       | 4.50        | 4.98         |
|             | Low           | 16QAM      | 4.51        | 4.95         |
|             | Low           | 64QAM      | 4.50        | 5.00         |
|             | Mid           | QPSK       | 4.49        | 4.99         |
|             | Mid           | 16QAM      | 4.50        | 4.97         |
|             | Mid           | 64QAM      | 4.50        | 4.99         |
|             | High          | QPSK       | 4.50        | 5.00         |
|             | High          | 16QAM      | 4.50        | 4.93         |
|             | High          | 64QAM      | 4.51        | 4.96         |
| 10          | Low           | QPSK       | 8.98        | 9.81         |
|             | Low           | 16QAM      | 8.96        | 9.76         |
|             | Low           | 64QAM      | 8.98        | 9.75         |
|             | Mid           | QPSK       | 8.97        | 9.76         |
|             | Mid           | 16QAM      | 8.95        | 9.76         |
|             | Mid           | 64QAM      | 8.97        | 9.79         |
|             | High          | QPSK       | 8.96        | 9.80         |
|             | High          | 16QAM      | 8.95        | 9.71         |
|             | High          | 64QAM      | 8.96        | 9.77         |



| LTE Band 66 |               |            |             |              |
|-------------|---------------|------------|-------------|--------------|
| BW(MHz)     | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4         | Low           | QPSK       | 1.09        | 1.24         |
|             | Low           | 16QAM      | 1.10        | 1.24         |
|             | Low           | 64QAM      | 1.09        | 1.24         |
|             | Mid           | QPSK       | 1.09        | 1.23         |
|             | Mid           | 16QAM      | 1.10        | 1.24         |
|             | Mid           | 64QAM      | 1.10        | 1.22         |
|             | High          | QPSK       | 1.09        | 1.23         |
|             | High          | 16QAM      | 1.10        | 1.23         |
|             | High          | 64QAM      | 1.09        | 1.24         |
| 3           | Low           | QPSK       | 2.70        | 3.00         |
|             | Low           | 16QAM      | 2.70        | 3.01         |
|             | Low           | 64QAM      | 2.70        | 2.97         |
|             | Mid           | QPSK       | 2.70        | 3.01         |
|             | Mid           | 16QAM      | 2.70        | 3.01         |
|             | Mid           | 64QAM      | 2.70        | 2.98         |
|             | High          | QPSK       | 2.70        | 2.99         |
|             | High          | 16QAM      | 2.70        | 3.01         |
|             | High          | 64QAM      | 2.70        | 2.98         |
| 5           | Low           | QPSK       | 4.50        | 4.96         |
|             | Low           | 16QAM      | 4.50        | 4.95         |
|             | Low           | 64QAM      | 4.52        | 4.98         |
|             | Mid           | QPSK       | 4.50        | 4.97         |
|             | Mid           | 16QAM      | 4.50        | 4.96         |
|             | Mid           | 64QAM      | 4.52        | 4.97         |
|             | High          | QPSK       | 4.50        | 4.97         |
|             | High          | 16QAM      | 4.49        | 4.97         |
|             | High          | 64QAM      | 4.51        | 4.94         |
| 10          | Low           | QPSK       | 9.00        | 9.78         |
|             | Low           | 16QAM      | 8.97        | 9.73         |
|             | Low           | 64QAM      | 8.98        | 9.77         |
|             | Mid           | QPSK       | 8.99        | 9.82         |
|             | Mid           | 16QAM      | 8.96        | 9.74         |
|             | Mid           | 64QAM      | 8.98        | 9.78         |
|             | High          | QPSK       | 9.00        | 9.81         |
|             | High          | 16QAM      | 8.97        | 9.74         |
|             | High          | 64QAM      | 8.98        | 9.82         |



|    |      |       |       |       |
|----|------|-------|-------|-------|
| 15 | Low  | QPSK  | 13.49 | 14.65 |
|    | Low  | 16QAM | 13.51 | 14.75 |
|    | Low  | 64QAM | 13.48 | 14.65 |
|    | Mid  | QPSK  | 13.53 | 14.64 |
|    | Mid  | 16QAM | 13.51 | 14.71 |
|    | Mid  | 64QAM | 13.49 | 14.72 |
|    | High | QPSK  | 13.52 | 14.84 |
|    | High | 16QAM | 13.52 | 14.84 |
|    | High | 64QAM | 13.52 | 14.69 |
| 20 | Low  | QPSK  | 17.97 | 19.46 |
|    | Low  | 16QAM | 18.00 | 19.50 |
|    | Low  | 64QAM | 17.99 | 19.55 |
|    | Mid  | QPSK  | 18.03 | 19.60 |
|    | Mid  | 16QAM | 18.02 | 19.53 |
|    | Mid  | 64QAM | 18.04 | 20.63 |
|    | High | QPSK  | 18.04 | 19.66 |
|    | High | 16QAM | 18.06 | 19.57 |
|    | High | 64QAM | 18.06 | 19.46 |



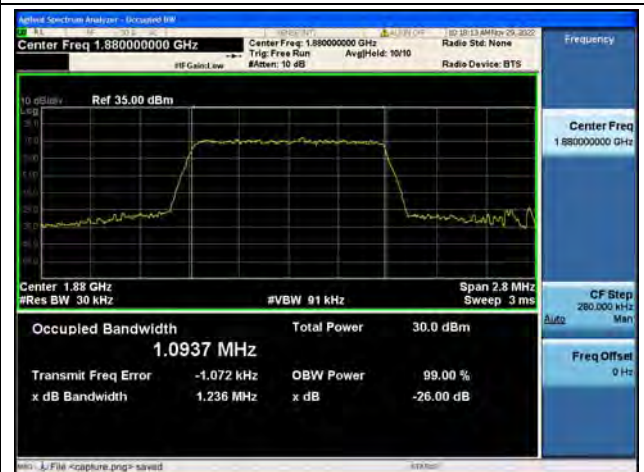
Band2 / 1.4MHz / QPSK/ Low CH



Band2 / 1.4MHz / 16QAM/ Low CH



Band2 / 1.4MHz / 64QAM/ Low CH



Band2 / 1.4MHz / QPSK/ Mid CH



Band2 / 1.4MHz / 16QAM/ Mid CH



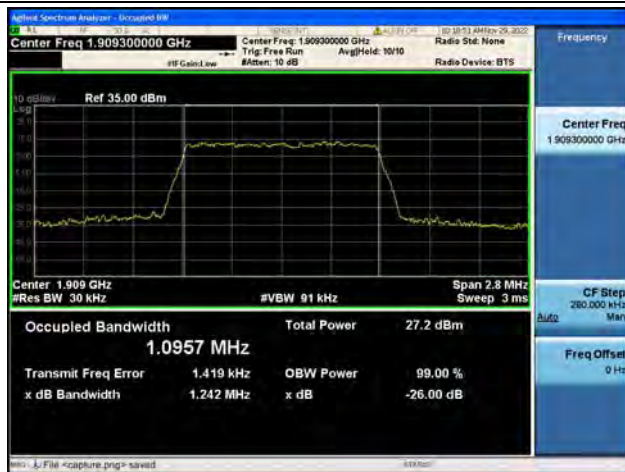
Band2 / 1.4MHz / 64QAM/ Mid CH



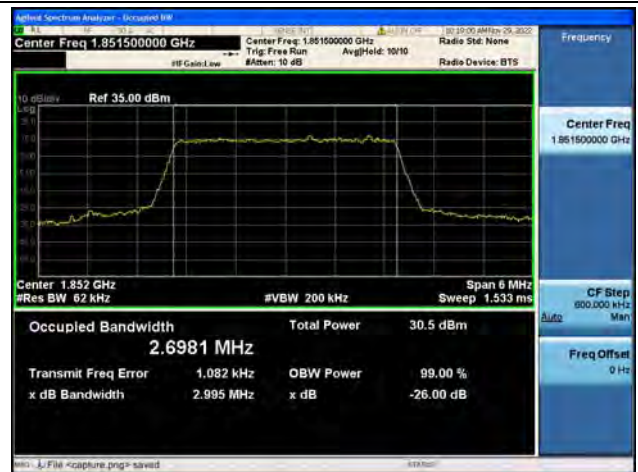
Band2 / 1.4MHz / QPSK/ High CH



Band2 / 1.4MHz / 16QAM/ High CH



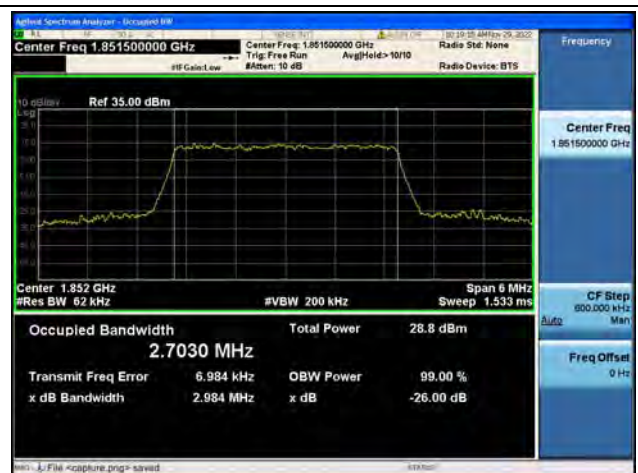
Band2 / 1.4MHz / 64QAM/ High CH



Band2 / 3MHz / QPSK/ Low CH



Band2 / 3MHz / 16QAM/ Low CH



Band2 / 3MHz / 64QAM/ Low CH



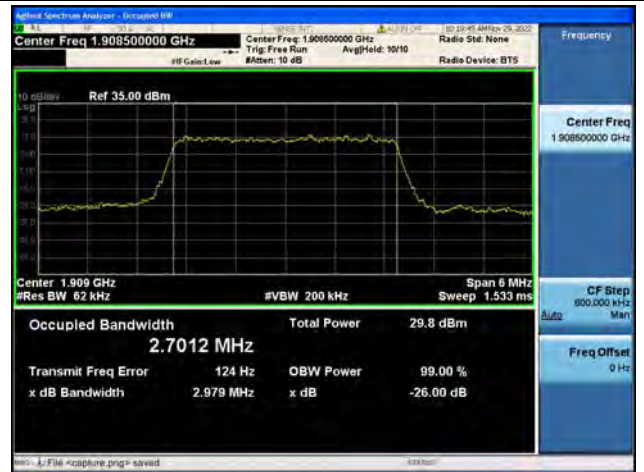
Band2 / 3MHz / QPSK/ Mid CH



Band2 / 3MHz / 16QAM/ Mid CH



Band2 / 3MHz / 64QAM/ Mid CH



Band2 / 3MHz / QPSK/ High CH



Band2 / 3MHz / 16QAM/ High CH



Band2 / 3MHz / 64QAM/ High CH



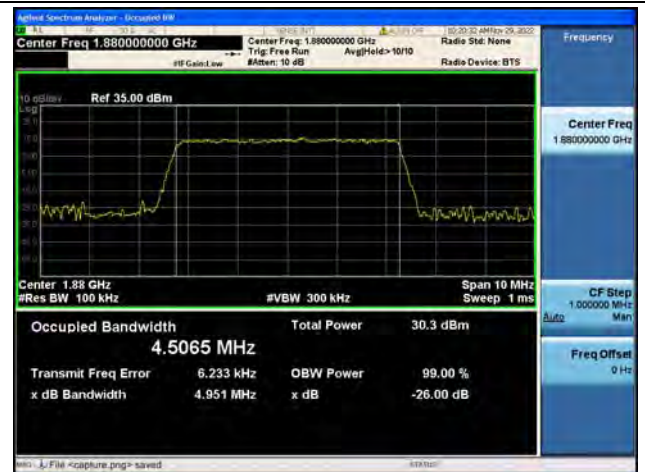
Band2 / 5MHz / QPSK/ Low CH



Band2 / 5MHz / 16QAM/ Low CH



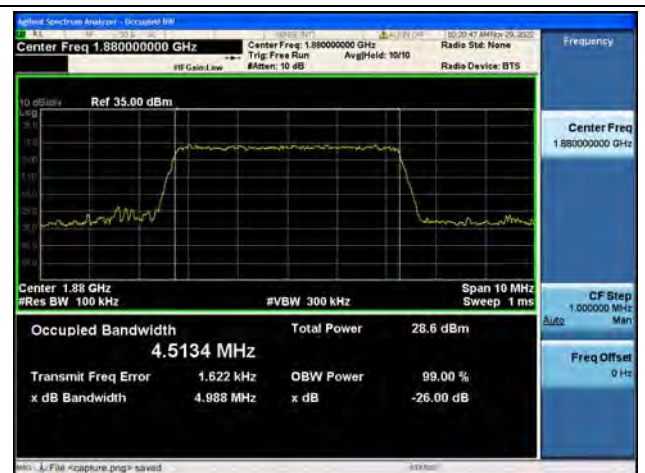
Band2 / 5MHz / 64QAM/ Low CH



Band2 / 5MHz / QPSK/ Mid CH



Band2 / 5MHz / 16QAM/ Mid CH



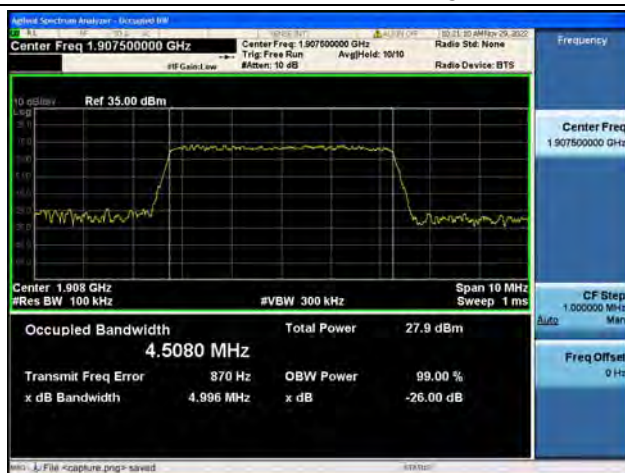
Band2 / 5MHz / 64QAM/ Mid CH



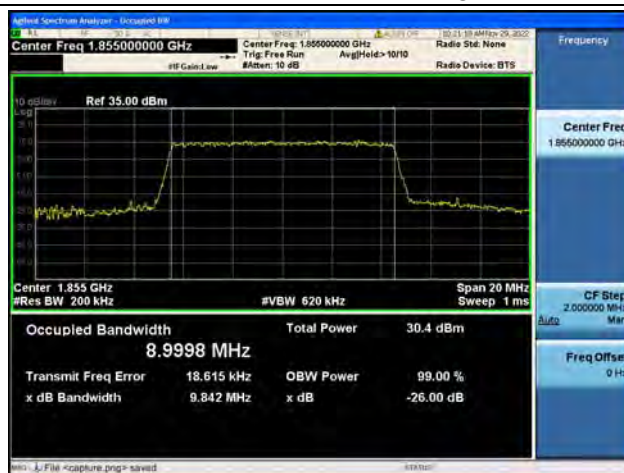
Band2 / 5MHz / QPSK/ High CH



Band2 / 5MHz / 16QAM/ High CH



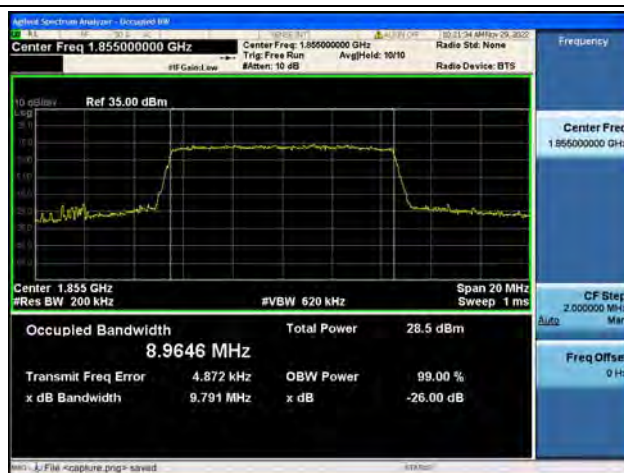
Band2 / 5MHz / 64QAM/ High CH



Band2 / 10MHz / QPSK/ Low CH



Band2 / 10MHz / 16QAM/ Low CH



Band2 / 10MHz / 64QAM/ Low CH



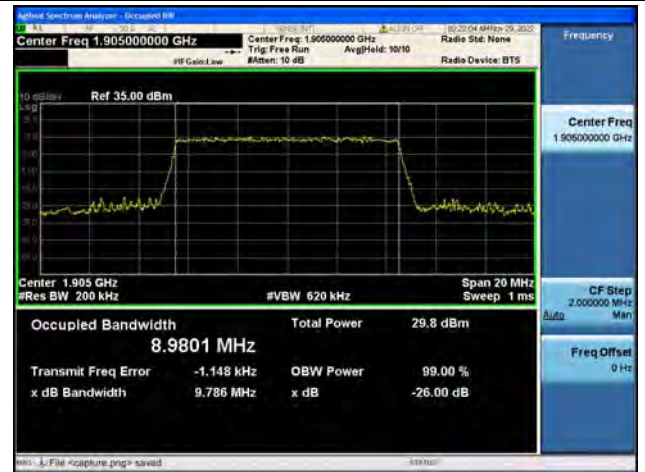
Band2 / 10MHz / QPSK/ Mid CH



Band2 / 10MHz / 16QAM/ Mid CH



Band2 / 10MHz / 64QAM/ Mid CH



Band2 / 10MHz / QPSK/ High CH



Band2 / 10MHz / 16QAM/ High CH



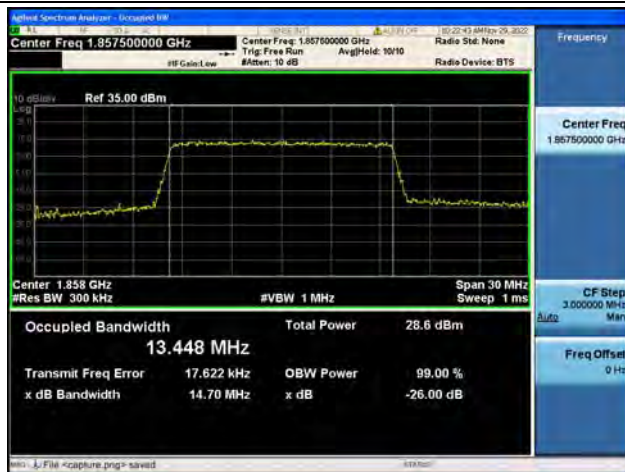
Band2 / 10MHz / 64QAM/ High CH



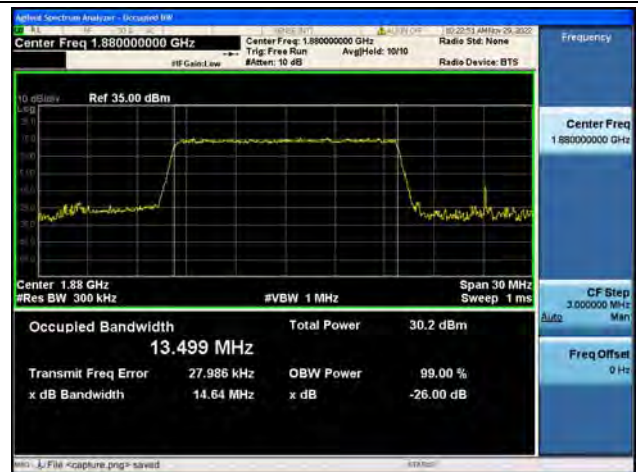
Band2 / 15MHz / QPSK/ Low CH



Band2 / 15MHz / 16QAM/ Low CH



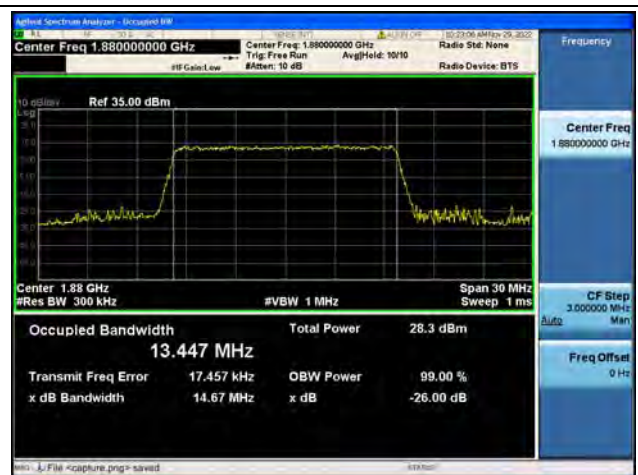
Band2 / 15MHz / 64QAM/ Low CH



Band2 / 15MHz / QPSK/ Mid CH



Band2 / 15MHz / 16QAM/ Mid CH



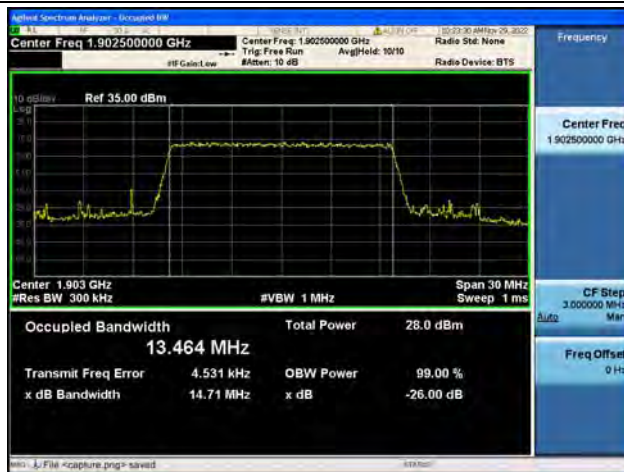
Band2 / 15MHz / 64QAM/ Mid CH



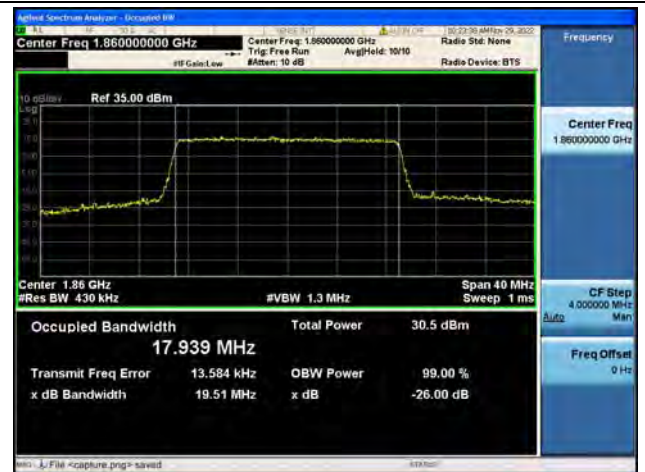
Band2 / 15MHz / QPSK/ High CH



Band2 / 15MHz / 16QAM/ High CH



Band2 / 15MHz / 64QAM/ High CH



Band2 / 20MHz / QPSK/ Low CH



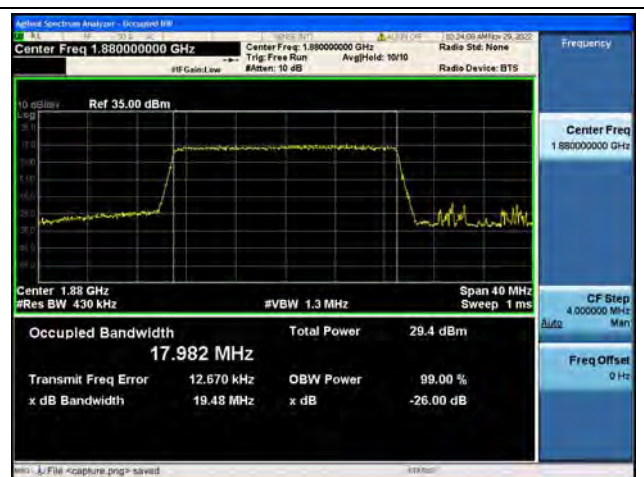
Band2 / 20MHz / 16QAM/ Low CH



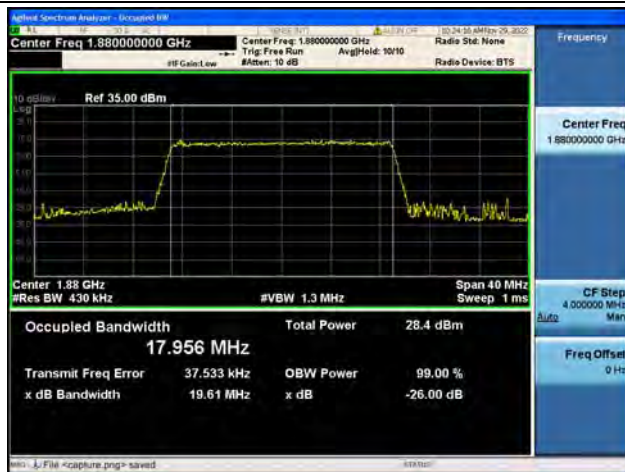
Band2 / 20MHz / 64QAM/ Low CH



Band2 / 20MHz / QPSK/ Mid CH



Band2 / 20MHz / 16QAM/ Mid CH



Band2 / 20MHz / 64QAM/ Mid CH



Band2 / 20MHz / QPSK/ High CH



Band2 / 20MHz / 16QAM/ High CH



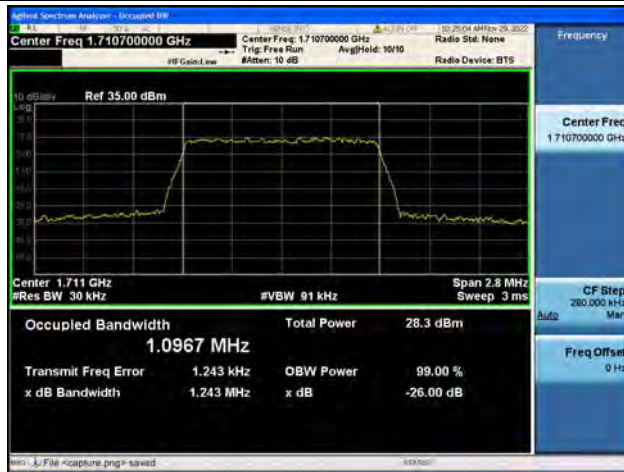
Band2 / 20MHz / 64QAM/ High CH



Band4 / 1.4MHz / QPSK/ Low CH



Band4 / 1.4MHz / 16QAM/ Low CH



Band4 / 1.4MHz / 64QAM/ Low CH



Band4 / 1.4MHz / QPSK/ Mid CH



Band4 / 1.4MHz / 16QAM/ Mid CH



Band4 / 1.4MHz / 64QAM/ Mid CH



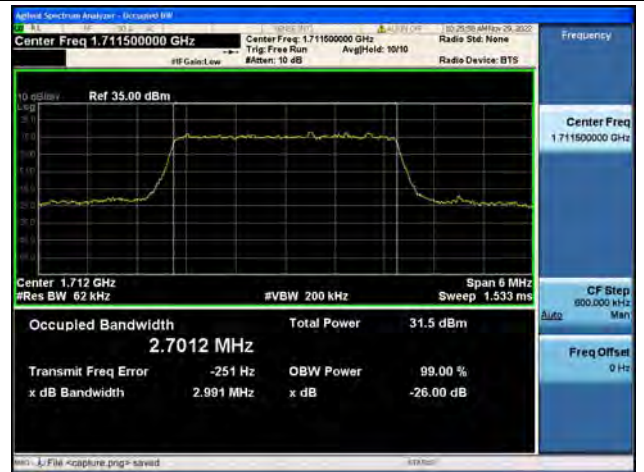
Band4 / 1.4MHz / QPSK/ High CH



Band4 / 1.4MHz / 16QAM/ High CH



Band4 / 1.4MHz / 64QAM/ High CH



Band4 / 3MHz / QPSK/ Low CH



Band4 / 3MHz / 16QAM/ Low CH



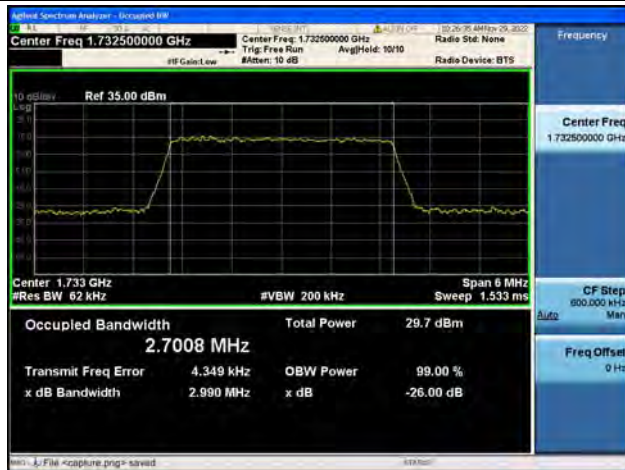
Band4 / 3MHz / 64QAM/ Low CH



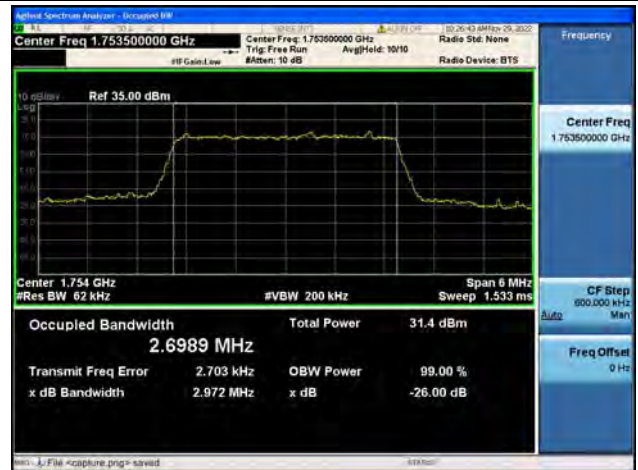
Band4 / 3MHz / QPSK/ Mid CH



Band4 / 3MHz / 16QAM/ Mid CH



Band4 / 3MHz / 64QAM/ Mid CH



Band4 / 3MHz / QPSK/ High CH



Band4 / 3MHz / 16QAM/ High CH



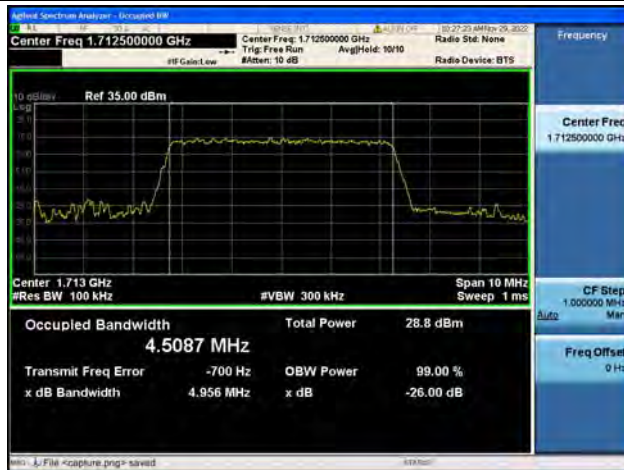
Band4 / 3MHz / 64QAM/ High CH



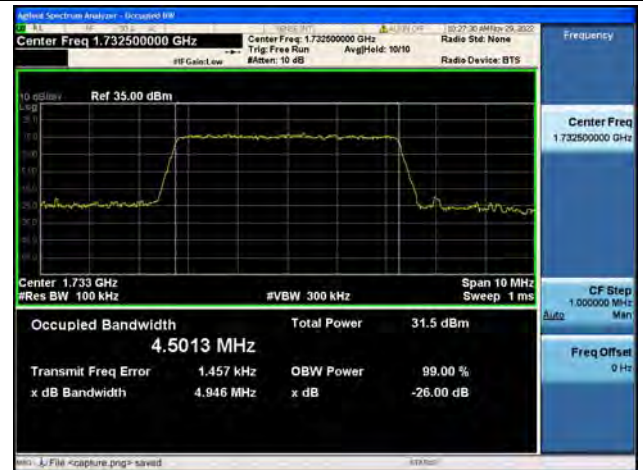
Band4 / 5MHz / QPSK/ Low CH



Band4 / 5MHz / 16QAM/ Low CH



Band4 / 5MHz / 64QAM/ Low CH



Band4 / 5MHz / QPSK/ Mid CH



Band4 / 5MHz / 16QAM/ Mid CH



Band4 / 5MHz / 64QAM/ Mid CH



Band4 / 5MHz / QPSK/ High CH



Band4 / 5MHz / 16QAM/ High CH



Band4 / 5MHz / 64QAM/ High CH



Band4 / 10MHz / QPSK/ Low CH



Band4 / 10MHz / 16QAM/ Low CH



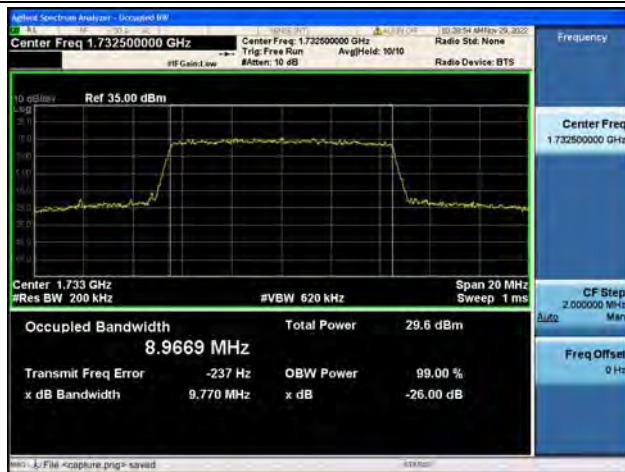
Band4 / 10MHz / 64QAM/ Low CH



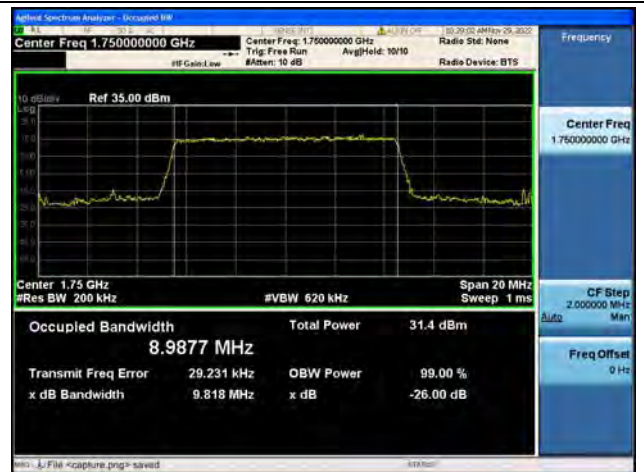
Band4 / 10MHz / QPSK/ Mid CH



Band4 / 10MHz / 16QAM/ Mid CH



Band4 / 10MHz / 64QAM/ Mid CH



Band4 / 10MHz / QPSK/ High CH



Band4 / 10MHz / 16QAM/ High CH



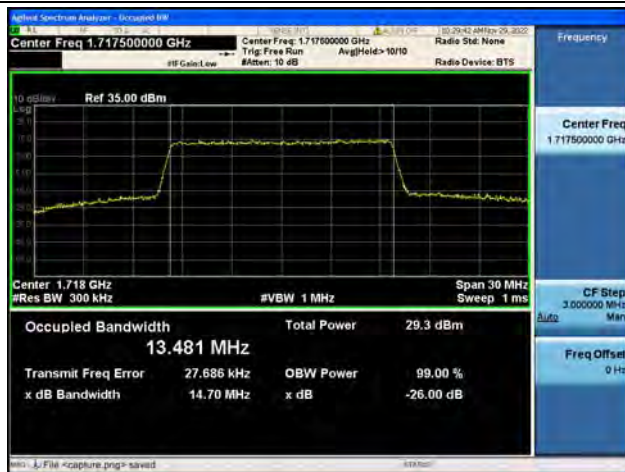
Band4 / 10MHz / 64QAM/ High CH



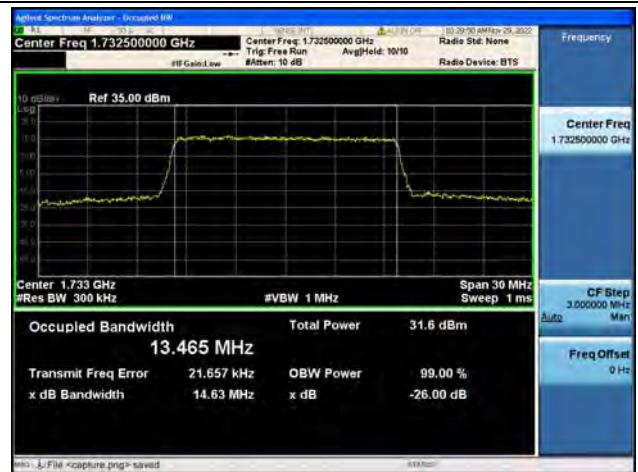
Band4 / 15MHz / QPSK/ Low CH



Band4 / 15MHz / 16QAM/ Low CH



Band4 / 15MHz / 64QAM/ Low CH



Band4 / 15MHz / QPSK/ Mid CH



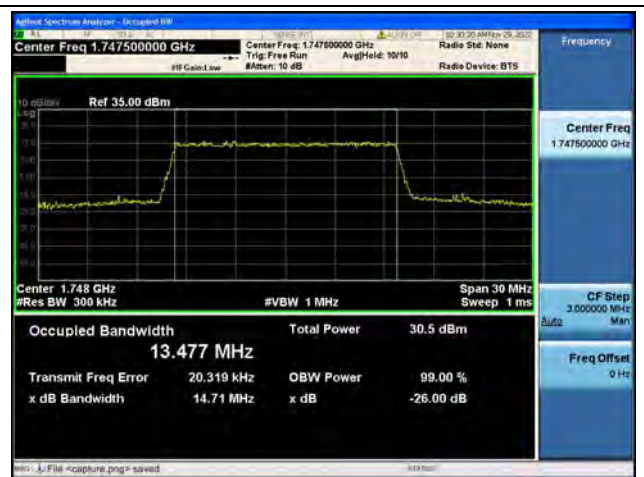
Band4 / 15MHz / 16QAM/ Mid CH



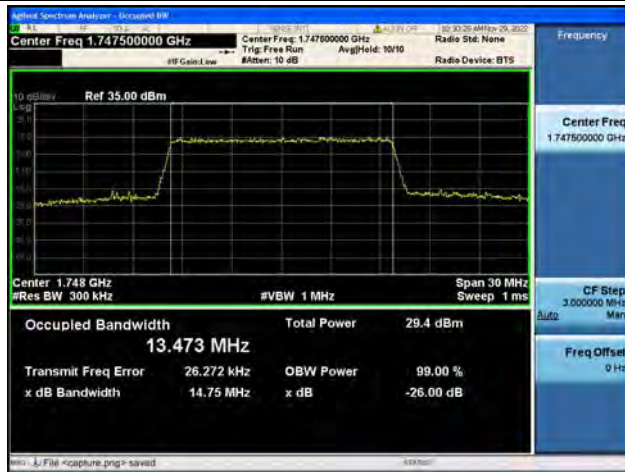
Band4 / 15MHz / 64QAM/ Mid CH



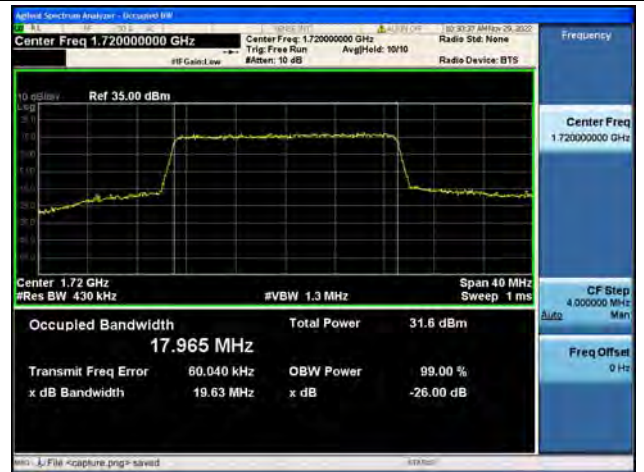
Band4 / 15MHz / QPSK/ High CH



Band4 / 15MHz / 16QAM/ High CH



Band4 / 15MHz / 64QAM/ High CH



Band4 / 20MHz / QPSK/ Low CH



Band4 / 20MHz / 16QAM/ Low CH



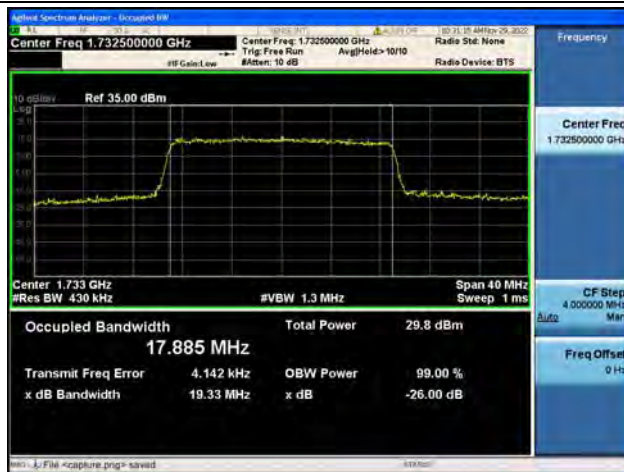
Band4 / 20MHz / 64QAM/ Low CH



Band4 / 20MHz / QPSK/ Mid CH



Band4 / 20MHz / 16QAM/ Mid CH



Band4 / 20MHz / 64QAM/ Mid CH



Band4 / 20MHz / QPSK/ High CH



Band4 / 20MHz / 16QAM/ High CH



Band4 / 20MHz / 64QAM/ High CH



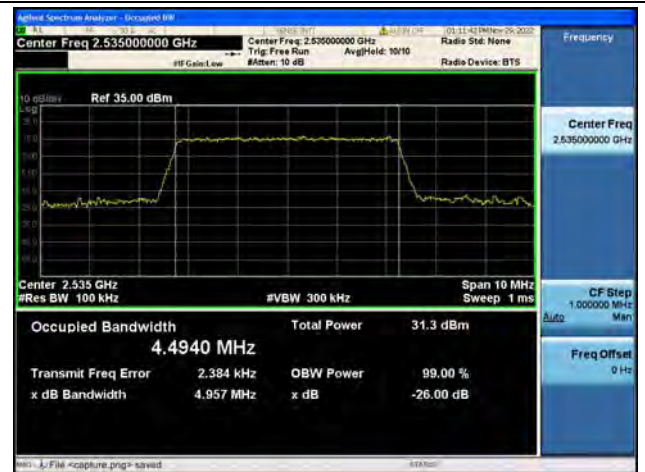
Band7 / 5MHz / QPSK/ Low CH



Band7 / 5MHz / 16QAM/ Low CH



Band7 / 5MHz / 64QAM/ Low CH



Band7 / 5MHz / QPSK/ Mid CH



Band7 / 5MHz / 16QAM/ Mid CH



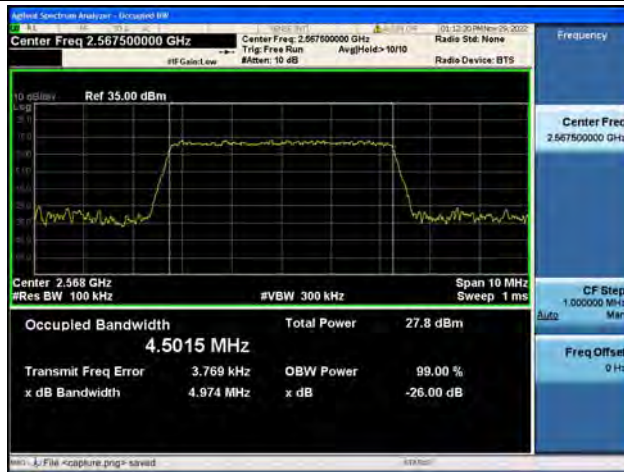
Band7 / 5MHz / 64QAM/ Mid CH



Band7 / 5MHz / QPSK/ High CH



Band7 / 5MHz / 16QAM/ High CH



Band7 / 5MHz / 64QAM/ High CH



Band7 / 10MHz / QPSK/ Low CH



Band7 / 10MHz / 16QAM/ Low CH



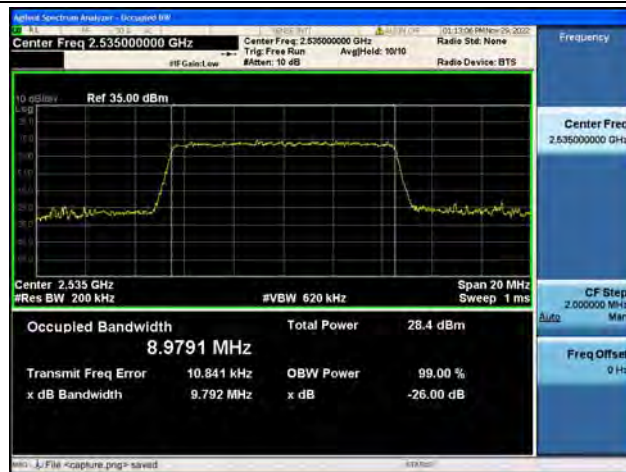
Band7 / 10MHz / 64QAM/ Low CH



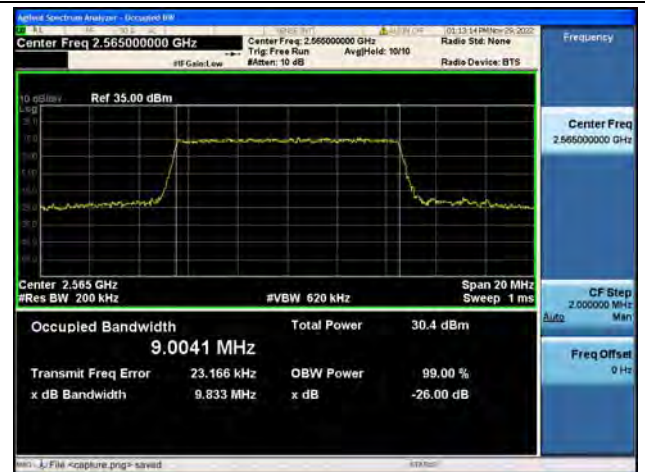
Band7 / 10MHz / QPSK/ Mid CH



Band7 / 10MHz / 16QAM/ Mid CH



Band7 / 10MHz / 64QAM/ Mid CH



Band7 / 10MHz / QPSK/ High CH



Band7 / 10MHz / 16QAM/ High CH



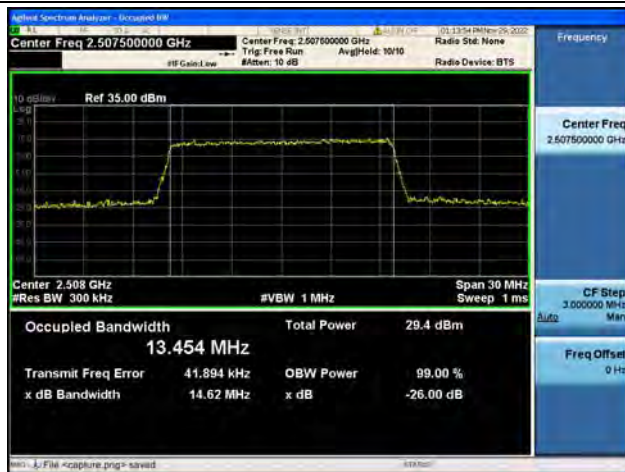
Band7 / 10MHz / 64QAM/ High CH



Band7 / 15MHz / QPSK/ Low CH



Band7 / 15MHz / 16QAM/ Low CH



Band7 / 15MHz / 64QAM/ Low CH



Band7 / 15MHz / QPSK/ Mid CH



Band7 / 15MHz / 16QAM/ Mid CH



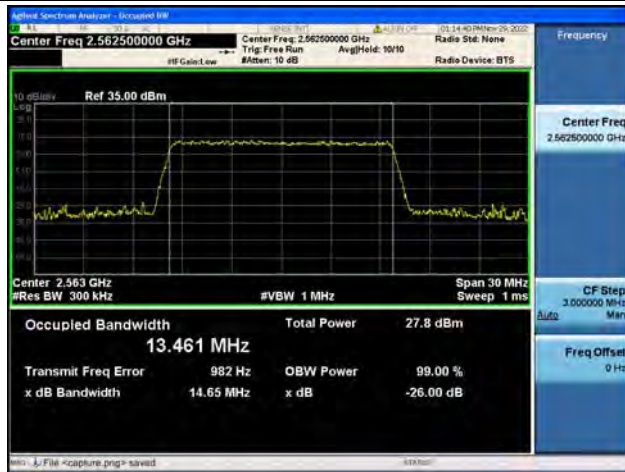
Band7 / 15MHz / 64QAM/ Mid CH



Band7 / 15MHz / QPSK/ High CH



Band7 / 15MHz / 16QAM/ High CH



Band7 / 15MHz / 64QAM/ High CH



Band7 / 20MHz / QPSK/ Low CH



Band7 / 20MHz / 16QAM/ Low CH



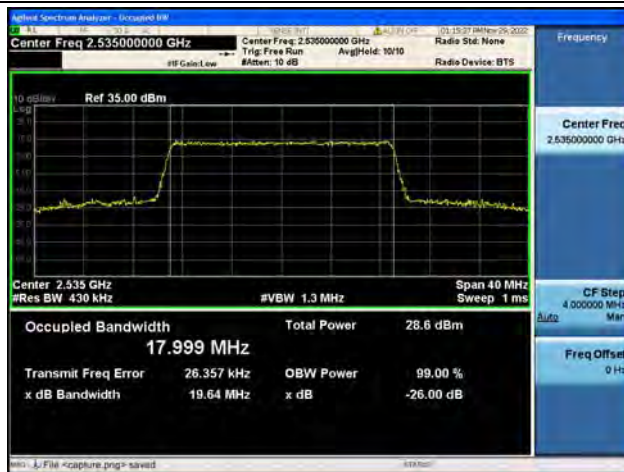
Band7 / 20MHz / 64QAM/ Low CH



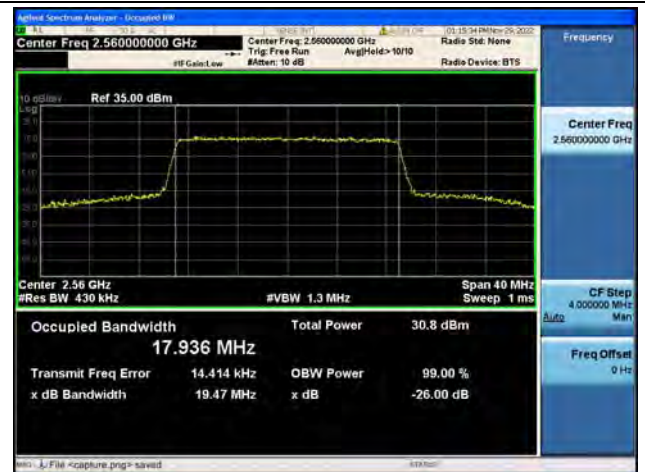
Band7 / 20MHz / QPSK/ Mid CH



Band7 / 20MHz / 16QAM/ Mid CH



Band7 / 20MHz / 64QAM/ Mid CH



Band7 / 20MHz / QPSK/ High CH



Band7 / 20MHz / 16QAM/ High CH



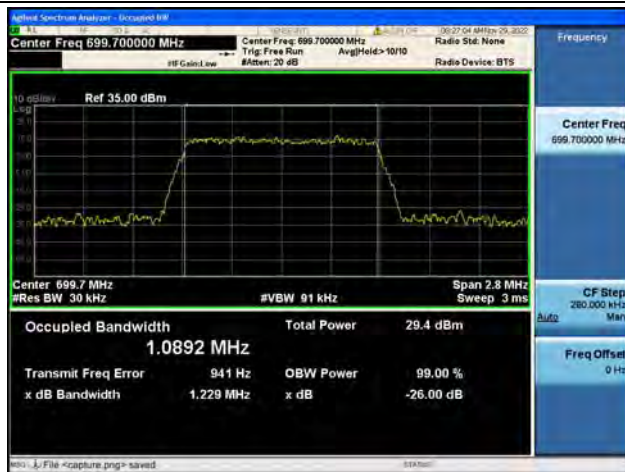
Band7 / 20MHz / 64QAM/ High CH



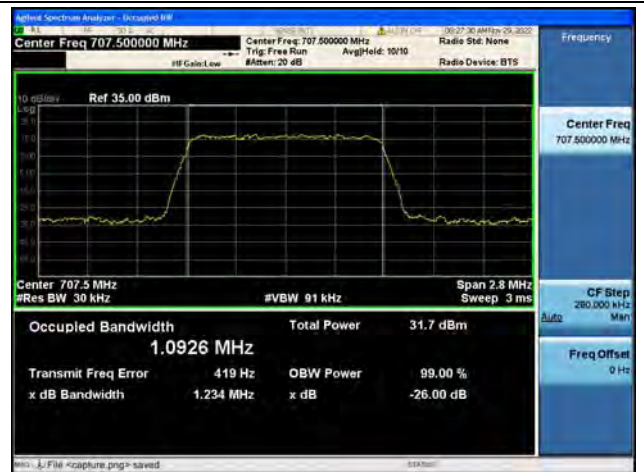
Band12 / 1.4MHz / QPSK/ Low CH



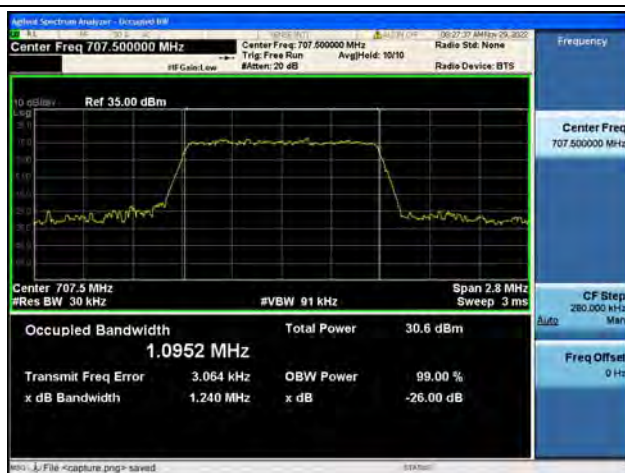
Band12 / 1.4MHz / 16QAM/ Low CH



Band12 / 1.4MHz / 64QAM/ Low CH



Band12 / 1.4MHz / QPSK/ Mid CH



Band12 / 1.4MHz / 16QAM/ Mid CH



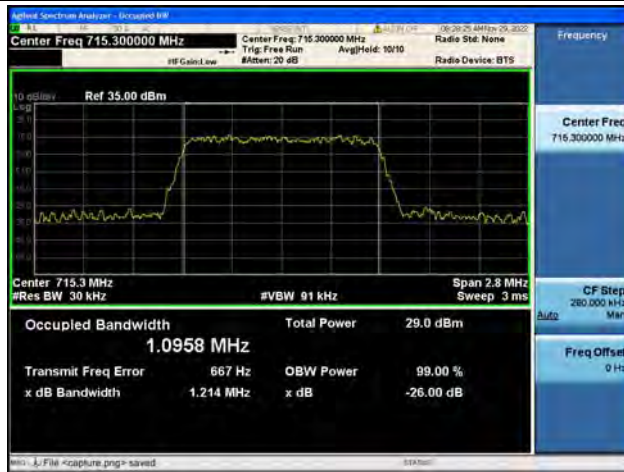
Band12 / 1.4MHz / 64QAM/ Mid CH



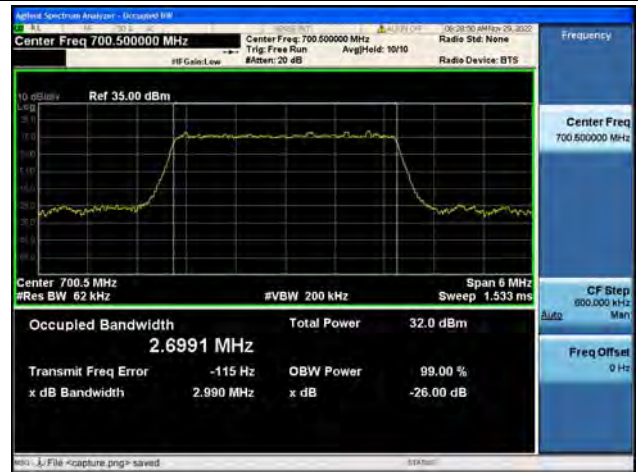
Band12 / 1.4MHz / QPSK/ High CH



Band12 / 1.4MHz / 16QAM/ High CH



Band12 / 1.4MHz / 64QAM/ High CH



Band12 / 3MHz / QPSK/ Low CH



Band12 / 3MHz / 16QAM/ Low CH



Band12 / 3MHz / 64QAM/ Low CH



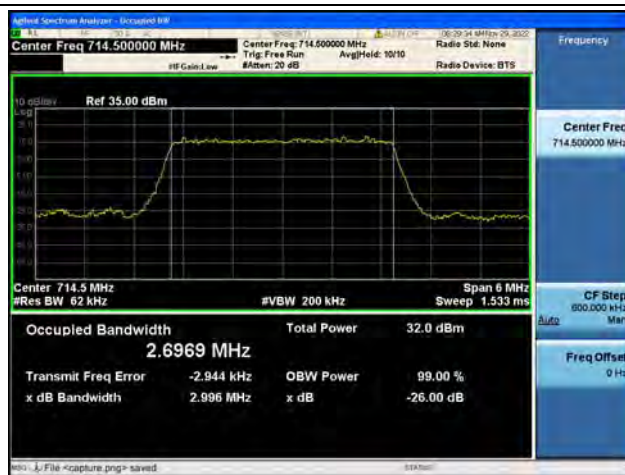
Band12 / 3MHz / QPSK/ Mid CH



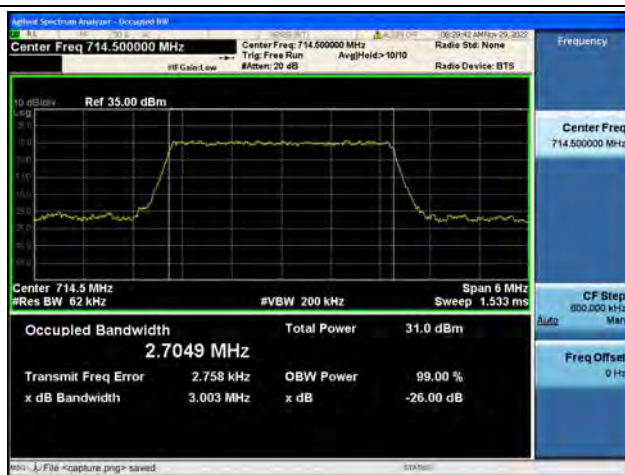
Band12 / 3MHz / 16QAM/ Mid CH



Band12 / 3MHz / 64QAM/ Mid CH



Band12 / 3MHz / QPSK/ High CH



Band12 / 3MHz / 16QAM/ High CH



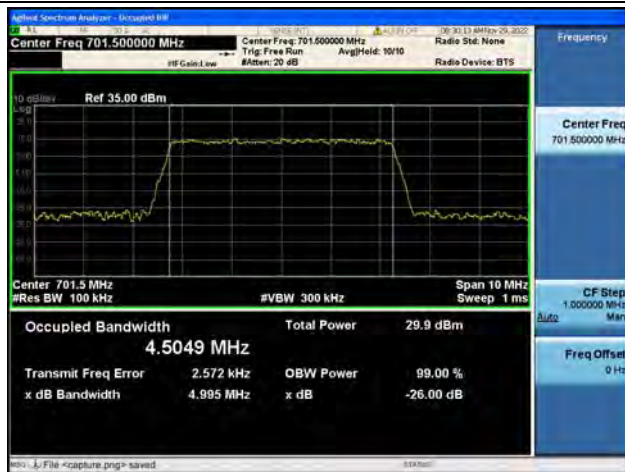
Band12 / 3MHz / 64QAM/ High CH



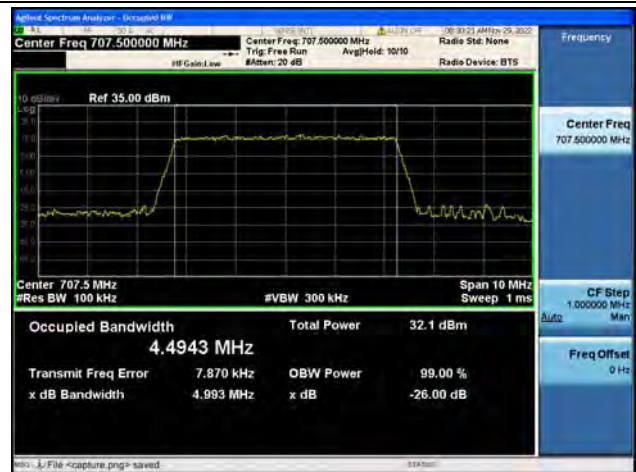
Band12 / 5MHz / QPSK/ Low CH



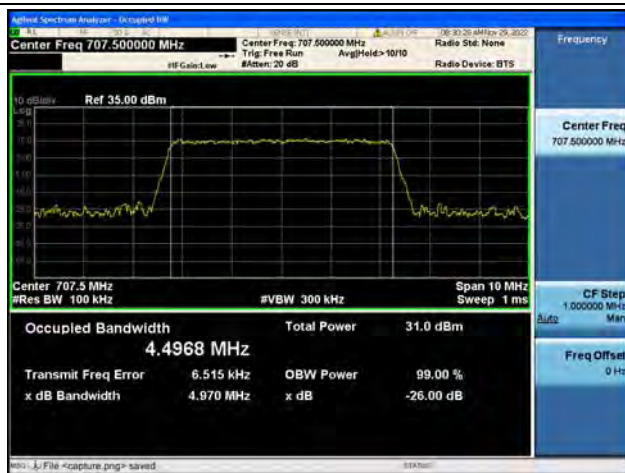
Band12 / 5MHz / 16QAM/ Low CH



Band12 / 5MHz / 64QAM/ Low CH



Band12 / 5MHz / QPSK/ Mid CH



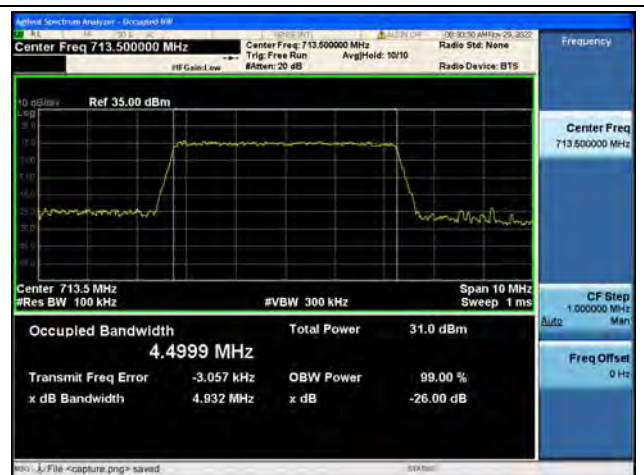
Band12 / 5MHz / 16QAM/ Mid CH



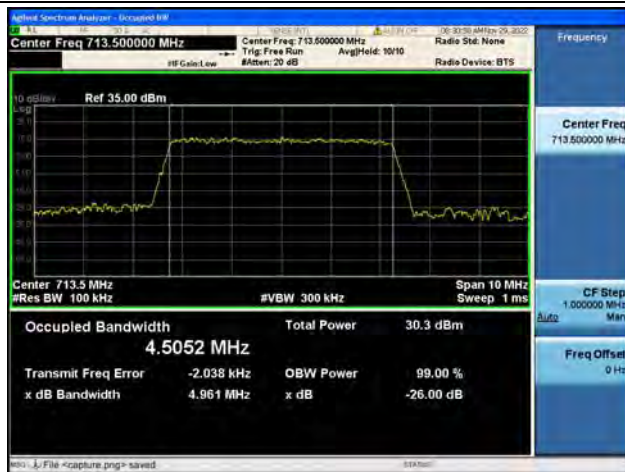
Band12 / 5MHz / 64QAM/ Mid CH



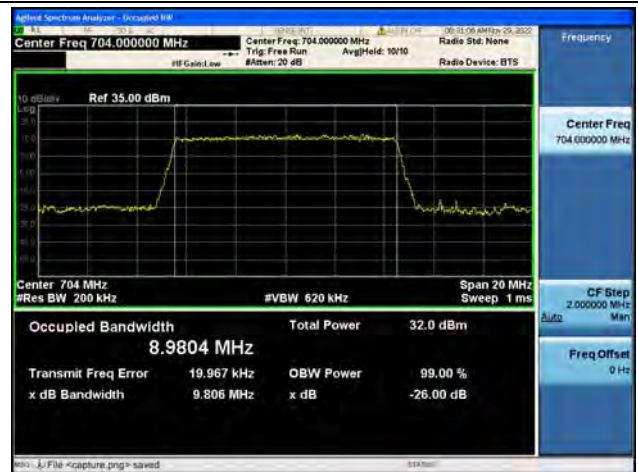
Band12 / 5MHz / QPSK/ High CH



Band12 / 5MHz / 16QAM/ High CH



Band12 / 5MHz / 64QAM/ High CH



Band12 / 10MHz / QPSK/ Low CH



Band12 / 10MHz / 16QAM/ Low CH



Band12 / 10MHz / 64QAM/ Low CH



Band12 / 10MHz / QPSK/ Mid CH



Band12 / 10MHz / 16QAM/ Mid CH



Band12 / 10MHz / 64QAM/ Mid CH



Band12 / 10MHz / QPSK/ High CH



Band12 / 10MHz / 16QAM/ High CH



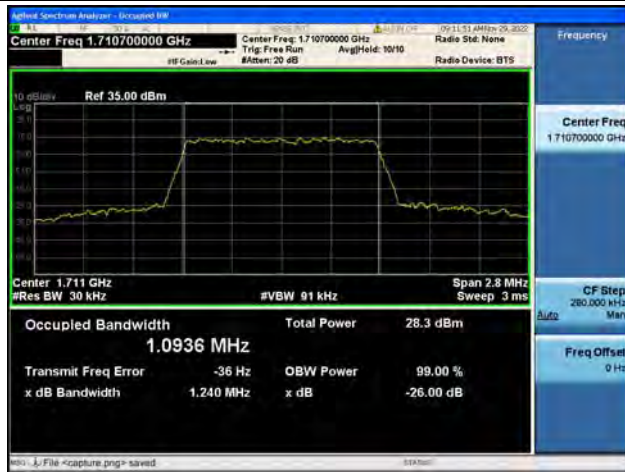
Band12 / 10MHz / 64QAM/ High CH



Band66 / 1.4MHz / QPSK/ Low CH



Band66 / 1.4MHz / 16QAM/ Low CH



Band66 / 1.4MHz / 64QAM/ Low CH



Band66 / 1.4MHz / QPSK/ Mid CH



Band66 / 1.4MHz / 16QAM/ Mid CH



Band66 / 1.4MHz / 64QAM/ Mid CH



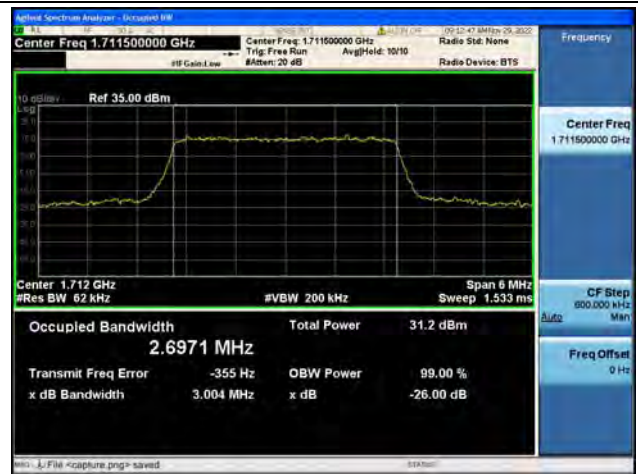
Band66 / 1.4MHz / QPSK/ High CH



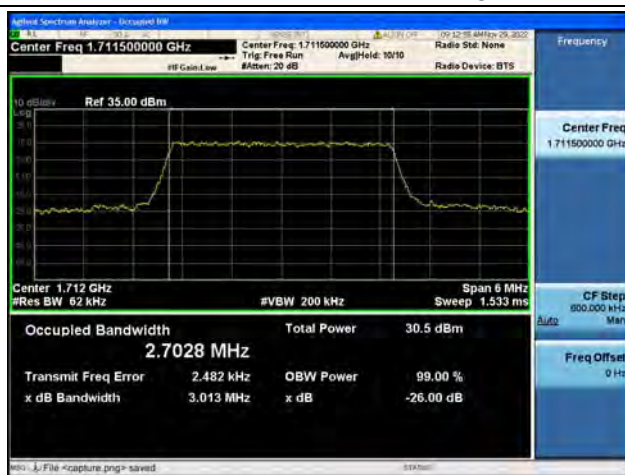
Band66 / 1.4MHz / 16QAM/ High CH



Band66 / 1.4MHz / 64QAM/ High CH



Band66 / 3MHz / QPSK/ Low CH



Band66 / 3MHz / 16QAM/ Low CH



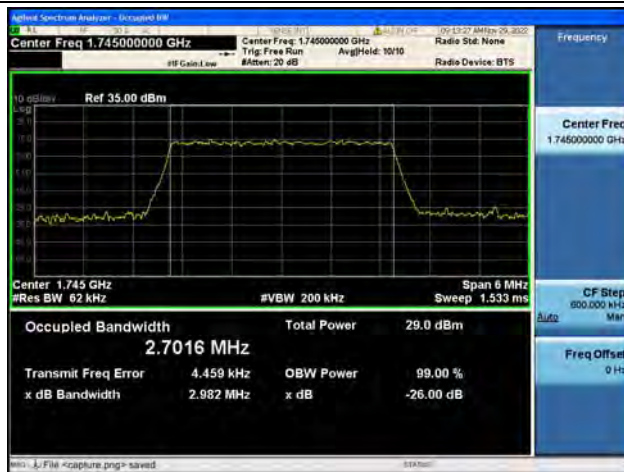
Band66 / 3MHz / 64QAM/ Low CH



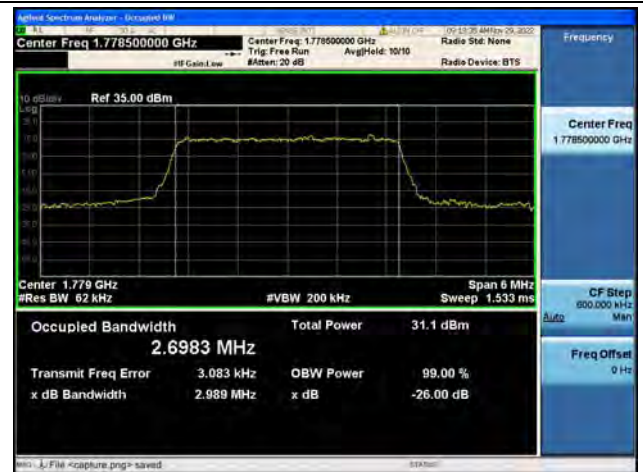
Band66 / 3MHz / QPSK/ Mid CH



Band66 / 3MHz / 16QAM/ Mid CH



Band66 / 3MHz / 64QAM/ Mid CH



Band66 / 3MHz / QPSK/ High CH



Band66 / 3MHz / 16QAM/ High CH



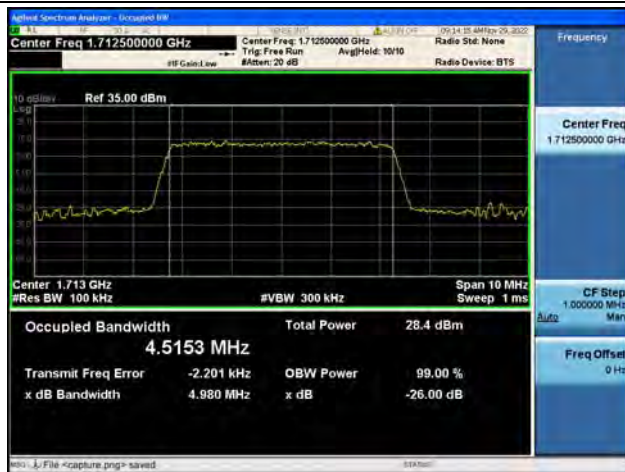
Band66 / 3MHz / 64QAM/ High CH



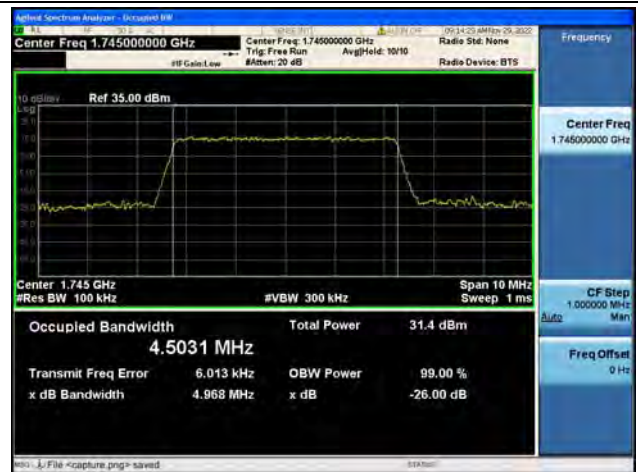
Band66 / 5MHz / QPSK/ Low CH



Band66 / 5MHz / 16QAM/ Low CH



Band66 / 5MHz / 64QAM/ Low CH



Band66 / 5MHz / QPSK/ Mid CH



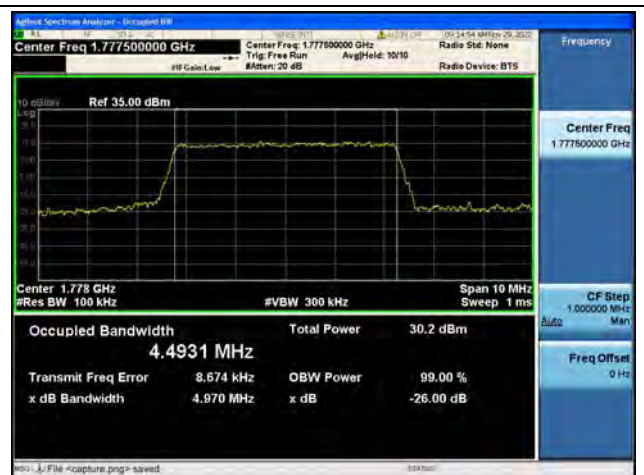
Band66 / 5MHz / 16QAM/ Mid CH



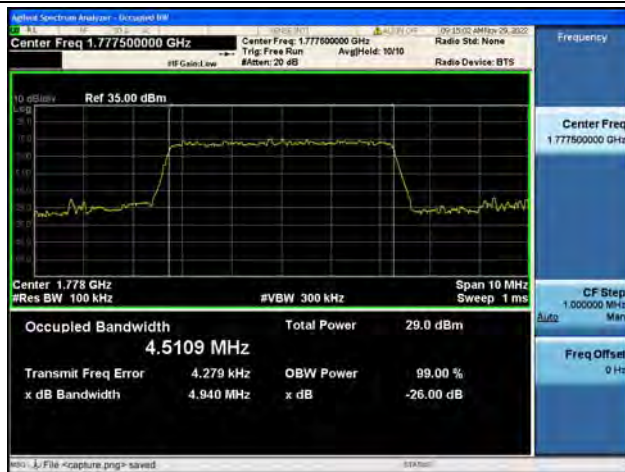
Band66 / 5MHz / 64QAM/ Mid CH



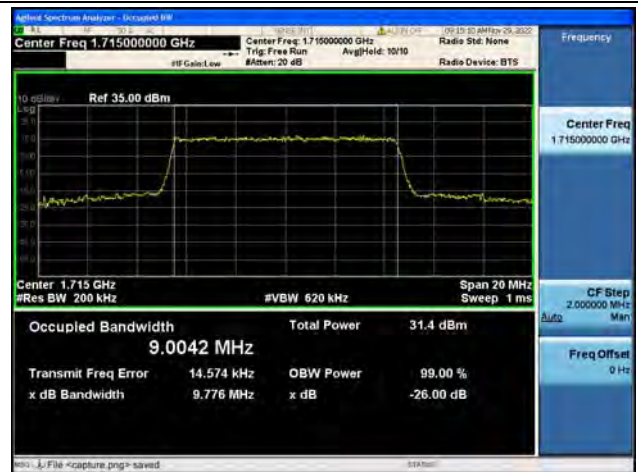
Band66 / 5MHz / QPSK/ High CH



Band66 / 5MHz / 16QAM/ High CH



Band66 / 5MHz / 64QAM/ High CH



Band66 / 10MHz / QPSK/ Low CH



Band66 / 10MHz / 16QAM/ Low CH



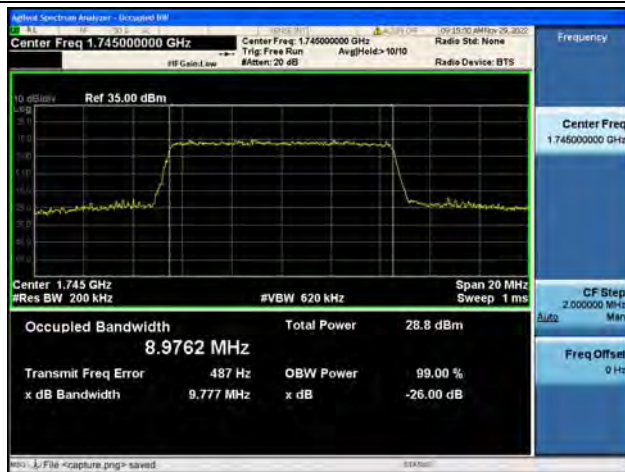
Band66 / 10MHz / 64QAM/ Low CH



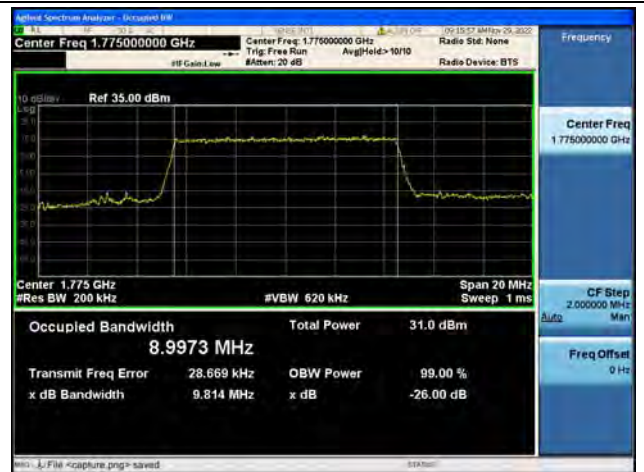
Band66 / 10MHz / QPSK/ Mid CH



Band66 / 10MHz / 16QAM/ Mid CH



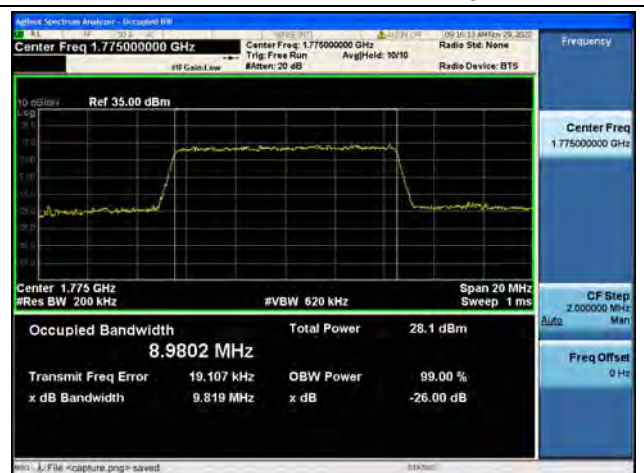
Band66 / 10MHz / 64QAM/ Mid CH



Band66 / 10MHz / QPSK/ High CH



Band66 / 10MHz / 16QAM/ High CH



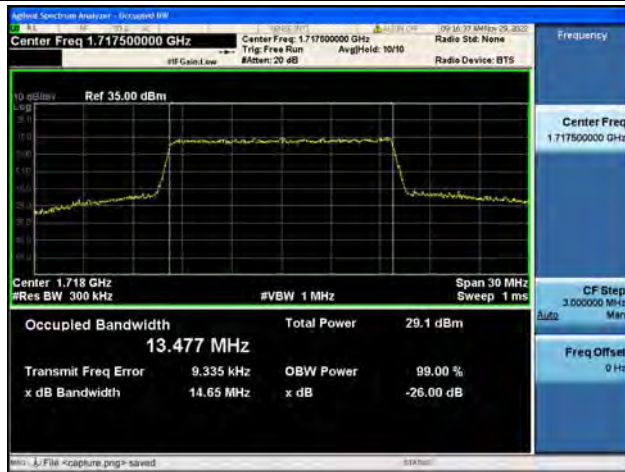
Band66 / 10MHz / 64QAM/ High CH



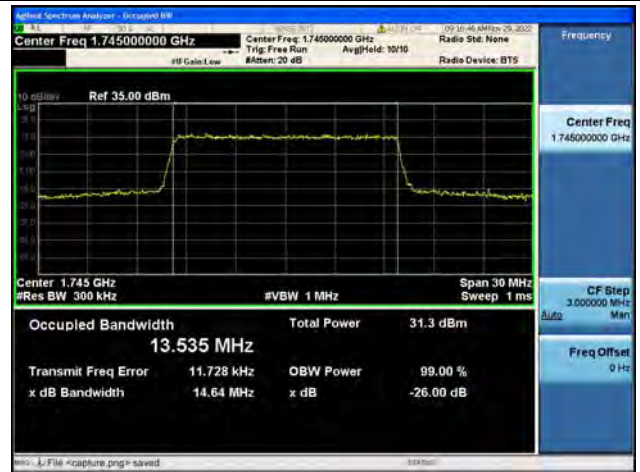
Band66 / 15MHz / QPSK/ Low CH



Band66 / 15MHz / 16QAM/ Low CH



Band66 / 15MHz / 64QAM/ Low CH



Band66 / 15MHz / QPSK/ Mid CH



Band66 / 15MHz / 16QAM/ Mid CH



Band66 / 15MHz / 64QAM/ Mid CH



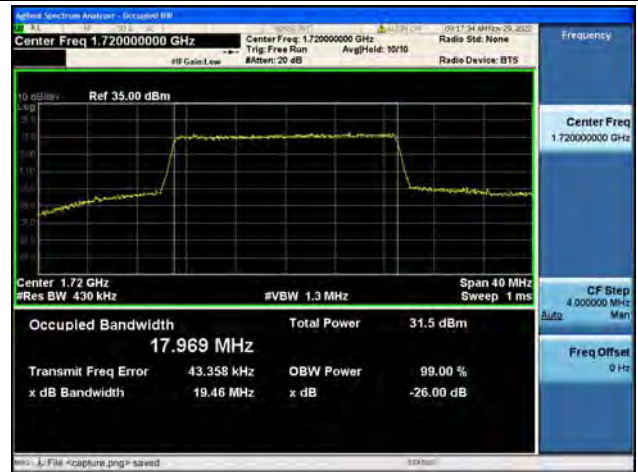
Band66 / 15MHz / QPSK/ High CH



Band66 / 15MHz / 16QAM/ High CH



Band66 / 15MHz / 64QAM/ High CH



Band66 / 20MHz / QPSK/ Low CH



Band66 / 20MHz / 16QAM/ Low CH



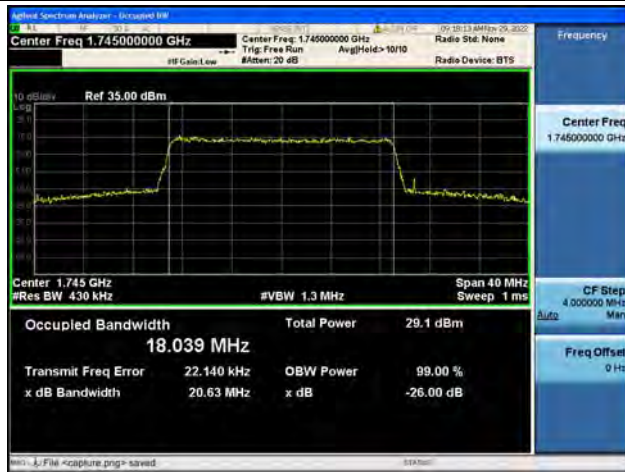
Band66 / 20MHz / 64QAM/ Low CH



Band66 / 20MHz / QPSK/ Mid CH



Band66 / 20MHz / 16QAM/ Mid CH



Band66 / 20MHz / 64QAM/ Mid CH



Band66 / 20MHz / QPSK/ High CH



Band66 / 20MHz / 16QAM/ High CH



Band66 / 20MHz / 64QAM/ High CH

## 2.3. Frequency Stability

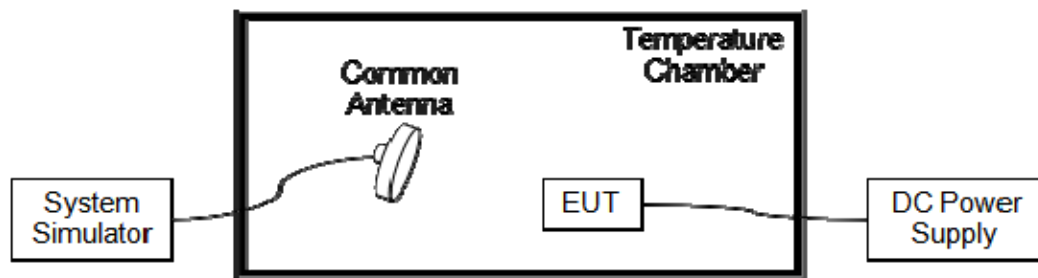
### 2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

**Note:** The operating temperature of EUT is from  $0^{\circ}\text{C}$  to  $45^{\circ}\text{C}$ , which are specified by the applicant.

### 2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

### 2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

**2.3.4. Test Result**

The nominal voltage 12.0V which is specified by the applicant. The normal temperature here used is 20°C.

| LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100                                                                                   | 12.0        | +20(Ref) | 22             | 0.012           | PASS   |
| 100                                                                                   |             | 0        | 20             | 0.011           |        |
| 100                                                                                   |             | +10      | 42             | 0.022           |        |
| 100                                                                                   |             | +20      | 29             | 0.015           |        |
| 100                                                                                   |             | +30      | 46             | 0.024           |        |
| 100                                                                                   |             | +40      | 44             | 0.023           |        |
| 100                                                                                   |             | +45      | 23             | 0.012           |        |
| 115                                                                                   | 13.8        | +20      | -14            | -0.007          | PASS   |
| 85                                                                                    | 10.2        | +20      | 22             | 0.012           |        |

| LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100                                                                                   | 12.0        | +20(Ref) | -23            | -0.013          | PASS   |
| 100                                                                                   |             | 0        | 16             | 0.009           |        |
| 100                                                                                   |             | +10      | 16             | 0.009           |        |
| 100                                                                                   |             | +20      | 35             | 0.020           |        |
| 100                                                                                   |             | +30      | -17            | -0.010          |        |
| 100                                                                                   |             | +40      | -13            | -0.008          |        |
| 100                                                                                   |             | +45      | 26             | 0.015           |        |
| 115                                                                                   | 13.8        | +20      | 18             | 0.010           | PASS   |
| 85                                                                                    | 10.2        | +20      | 23             | 0.013           |        |



| LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz<br>Limit= Within Authorized Band |             |          |                |                 |        |
|-------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                         | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100                                                                                 | 12.0        | +20(Ref) | 17             | 0.007           | PASS   |
| 100                                                                                 |             | 0        | 48             | 0.019           |        |
| 100                                                                                 |             | +10      | -16            | -0.006          |        |
| 100                                                                                 |             | +20      | 19             | 0.007           |        |
| 100                                                                                 |             | +30      | 17             | 0.007           |        |
| 100                                                                                 |             | +40      | -23            | -0.009          |        |
| 100                                                                                 |             | +45      | 14             | 0.006           |        |
| 115                                                                                 | 13.8        | +20      | 16             | 0.006           |        |
| 85                                                                                  | 10.2        | +20      | 34             | 0.013           |        |

| LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100                                                                                   | 12.0        | +20(Ref) | 17             | 0.024           | PASS   |
| 100                                                                                   |             | 0        | 23             | 0.033           |        |
| 100                                                                                   |             | +10      | -20            | -0.028          |        |
| 100                                                                                   |             | +20      | 23             | 0.033           |        |
| 100                                                                                   |             | +30      | 37             | 0.052           |        |
| 100                                                                                   |             | +40      | 32             | 0.045           |        |
| 100                                                                                   |             | +45      | 24             | 0.034           |        |
| 115                                                                                   | 13.8        | +20      | 53             | 0.075           |        |
| 85                                                                                    | 10.2        | +20      | -15            | -0.021          |        |



REPORT No.: SZ22100099W02

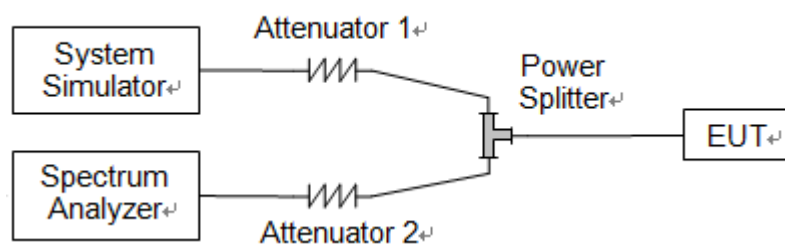
| LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz<br>Limit =Within Authorized Band |             |           |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|-----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100                                                                                   | 12.0        | +20(Ref)  | 30             | 0.017           | PASS   |
| 100                                                                                   |             | 0         | -17            | -0.010          |        |
| 100                                                                                   |             | +10       | 40             | 0.023           |        |
| 100                                                                                   |             | +20       | 20             | 0.011           |        |
| 100                                                                                   |             | +30       | 17             | 0.010           |        |
| 100                                                                                   |             | +40       | -18            | -0.010          |        |
| 100                                                                                   |             | +45       | 34             | 0.019           |        |
| 115                                                                                   | 13.8        | +20       | 17             | 0.010           |        |
| 85                                                                                    | 10.2        | +20       | 17             | 0.010           |        |

## 2.4. Peak to Average Ratio

### 2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

### 2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



| LTE Band 2 |               |            |               |           |         |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz)    | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4        | Low           | QPSK       | 5.69          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.49          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.92          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.86          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.54          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.91          | <=13      | PASS    |
|            | High          | QPSK       | 5.42          | <=13      | PASS    |
|            | High          | 16QAM      | 6.44          | <=13      | PASS    |
|            | High          | 64QAM      | 6.82          | <=13      | PASS    |
| 3          | Low           | QPSK       | 5.43          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.41          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.76          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.41          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.42          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.74          | <=13      | PASS    |
|            | High          | QPSK       | 5.22          | <=13      | PASS    |
|            | High          | 16QAM      | 6.29          | <=13      | PASS    |
|            | High          | 64QAM      | 6.70          | <=13      | PASS    |
| 5          | Low           | QPSK       | 5.38          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.23          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.72          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.56          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.29          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.70          | <=13      | PASS    |
|            | High          | QPSK       | 5.28          | <=13      | PASS    |
|            | High          | 16QAM      | 6.23          | <=13      | PASS    |
|            | High          | 64QAM      | 6.74          | <=13      | PASS    |
| 10         | Low           | QPSK       | 5.58          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.17          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.66          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.62          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.20          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.62          | <=13      | PASS    |
|            | High          | QPSK       | 5.33          | <=13      | PASS    |
|            | High          | 16QAM      | 6.12          | <=13      | PASS    |
|            | High          | 64QAM      | 6.61          | <=13      | PASS    |



|    |      |       |      |           |      |
|----|------|-------|------|-----------|------|
| 15 | Low  | QPSK  | 5.40 | $\leq 13$ | PASS |
|    | Low  | 16QAM | 6.20 | $\leq 13$ | PASS |
|    | Low  | 64QAM | 6.67 | $\leq 13$ | PASS |
|    | Mid  | QPSK  | 5.64 | $\leq 13$ | PASS |
|    | Mid  | 16QAM | 6.21 | $\leq 13$ | PASS |
|    | Mid  | 64QAM | 6.78 | $\leq 13$ | PASS |
|    | High | QPSK  | 5.58 | $\leq 13$ | PASS |
|    | High | 16QAM | 6.23 | $\leq 13$ | PASS |
|    | High | 64QAM | 6.79 | $\leq 13$ | PASS |
| 20 | Low  | QPSK  | 5.54 | $\leq 13$ | PASS |
|    | Low  | 16QAM | 6.19 | $\leq 13$ | PASS |
|    | Low  | 64QAM | 6.67 | $\leq 13$ | PASS |
|    | Mid  | QPSK  | 5.44 | $\leq 13$ | PASS |
|    | Mid  | 16QAM | 6.18 | $\leq 13$ | PASS |
|    | Mid  | 64QAM | 6.65 | $\leq 13$ | PASS |
|    | High | QPSK  | 5.28 | $\leq 13$ | PASS |
|    | High | 16QAM | 6.14 | $\leq 13$ | PASS |
|    | High | 64QAM | 6.68 | $\leq 13$ | PASS |



| LTE Band 4 |               |            |               |           |         |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz)    | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4        | Low           | QPSK       | 4.61          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.63          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.71          | <=13      | PASS    |
|            | Mid           | QPSK       | 6.60          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.28          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.64          | <=13      | PASS    |
|            | High          | QPSK       | 5.52          | <=13      | PASS    |
|            | High          | 16QAM      | 6.10          | <=13      | PASS    |
|            | High          | 64QAM      | 6.66          | <=13      | PASS    |
| 3          | Low           | QPSK       | 4.61          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.61          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.56          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.24          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.12          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.51          | <=13      | PASS    |
|            | High          | QPSK       | 5.27          | <=13      | PASS    |
|            | High          | 16QAM      | 6.11          | <=13      | PASS    |
|            | High          | 64QAM      | 6.57          | <=13      | PASS    |
| 5          | Low           | QPSK       | 4.82          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.62          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.55          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.33          | <=13      | PASS    |
|            | Mid           | 16QAM      | 5.98          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.58          | <=13      | PASS    |
|            | High          | QPSK       | 5.28          | <=13      | PASS    |
|            | High          | 16QAM      | 5.97          | <=13      | PASS    |
|            | High          | 64QAM      | 6.60          | <=13      | PASS    |
| 10         | Low           | QPSK       | 4.99          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.85          | <=13      | PASS    |
|            | Low           | 64QAM      | 6.57          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.29          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.00          | <=13      | PASS    |
|            | Mid           | 64QAM      | 6.47          | <=13      | PASS    |
|            | High          | QPSK       | 5.25          | <=13      | PASS    |
|            | High          | 16QAM      | 5.98          | <=13      | PASS    |
|            | High          | 64QAM      | 6.49          | <=13      | PASS    |



|    |      |       |      |           |      |
|----|------|-------|------|-----------|------|
| 15 | Low  | QPSK  | 5.22 | $\leq 13$ | PASS |
|    | Low  | 16QAM | 6.05 | $\leq 13$ | PASS |
|    | Low  | 64QAM | 6.63 | $\leq 13$ | PASS |
|    | Mid  | QPSK  | 5.24 | $\leq 13$ | PASS |
|    | Mid  | 16QAM | 6.00 | $\leq 13$ | PASS |
|    | Mid  | 64QAM | 6.57 | $\leq 13$ | PASS |
|    | High | QPSK  | 5.29 | $\leq 13$ | PASS |
|    | High | 16QAM | 6.06 | $\leq 13$ | PASS |
|    | High | 64QAM | 6.60 | $\leq 13$ | PASS |
| 20 | Low  | QPSK  | 5.23 | $\leq 13$ | PASS |
|    | Low  | 16QAM | 6.07 | $\leq 13$ | PASS |
|    | Low  | 64QAM | 6.58 | $\leq 13$ | PASS |
|    | Mid  | QPSK  | 5.16 | $\leq 13$ | PASS |
|    | Mid  | 16QAM | 5.98 | $\leq 13$ | PASS |
|    | Mid  | 64QAM | 6.46 | $\leq 13$ | PASS |
|    | High | QPSK  | 5.28 | $\leq 13$ | PASS |
|    | High | 16QAM | 6.09 | $\leq 13$ | PASS |
|    | High | 64QAM | 6.64 | $\leq 13$ | PASS |



| LTE Band 66 |               |            |               |           |         |
|-------------|---------------|------------|---------------|-----------|---------|
| BW(MHz)     | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4         | Low           | QPSK       | 4.44          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.34          | <=13      | PASS    |
|             | Low           | 64QAM      | 6.78          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.84          | <=13      | PASS    |
|             | Mid           | 16QAM      | 6.05          | <=13      | PASS    |
|             | Mid           | 64QAM      | 6.74          | <=13      | PASS    |
|             | High          | QPSK       | 4.89          | <=13      | PASS    |
|             | High          | 16QAM      | 6.29          | <=13      | PASS    |
|             | High          | 64QAM      | 6.65          | <=13      | PASS    |
| 3           | Low           | QPSK       | 4.59          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.53          | <=13      | PASS    |
|             | Low           | 64QAM      | 6.64          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.83          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.84          | <=13      | PASS    |
|             | Mid           | 64QAM      | 6.58          | <=13      | PASS    |
|             | High          | QPSK       | 4.71          | <=13      | PASS    |
|             | High          | 16QAM      | 5.81          | <=13      | PASS    |
|             | High          | 64QAM      | 6.52          | <=13      | PASS    |
| 5           | Low           | QPSK       | 4.83          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.66          | <=13      | PASS    |
|             | Low           | 64QAM      | 6.63          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.98          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.83          | <=13      | PASS    |
|             | Mid           | 64QAM      | 6.57          | <=13      | PASS    |
|             | High          | QPSK       | 4.94          | <=13      | PASS    |
|             | High          | 16QAM      | 5.80          | <=13      | PASS    |
|             | High          | 64QAM      | 6.56          | <=13      | PASS    |
| 10          | Low           | QPSK       | 4.89          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.71          | <=13      | PASS    |
|             | Low           | 64QAM      | 6.55          | <=13      | PASS    |
|             | Mid           | QPSK       | 5.02          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.88          | <=13      | PASS    |
|             | Mid           | 64QAM      | 6.59          | <=13      | PASS    |
|             | High          | QPSK       | 4.82          | <=13      | PASS    |
|             | High          | 16QAM      | 5.72          | <=13      | PASS    |
|             | High          | 64QAM      | 6.57          | <=13      | PASS    |



|    |      |       |      |           |      |
|----|------|-------|------|-----------|------|
| 15 | Low  | QPSK  | 5.00 | $\leq 13$ | PASS |
|    | Low  | 16QAM | 5.97 | $\leq 13$ | PASS |
|    | Low  | 64QAM | 6.69 | $\leq 13$ | PASS |
|    | Mid  | QPSK  | 5.05 | $\leq 13$ | PASS |
|    | Mid  | 16QAM | 5.92 | $\leq 13$ | PASS |
|    | Mid  | 64QAM | 6.72 | $\leq 13$ | PASS |
|    | High | QPSK  | 5.16 | $\leq 13$ | PASS |
|    | High | 16QAM | 5.86 | $\leq 13$ | PASS |
|    | High | 64QAM | 6.70 | $\leq 13$ | PASS |
| 20 | Low  | QPSK  | 5.12 | $\leq 13$ | PASS |
|    | Low  | 16QAM | 6.05 | $\leq 13$ | PASS |
|    | Low  | 64QAM | 6.59 | $\leq 13$ | PASS |
|    | Mid  | QPSK  | 5.14 | $\leq 13$ | PASS |
|    | Mid  | 16QAM | 6.04 | $\leq 13$ | PASS |
|    | Mid  | 64QAM | 6.67 | $\leq 13$ | PASS |
|    | High | QPSK  | 5.22 | $\leq 13$ | PASS |
|    | High | 16QAM | 5.94 | $\leq 13$ | PASS |
|    | High | 64QAM | 6.71 | $\leq 13$ | PASS |



Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



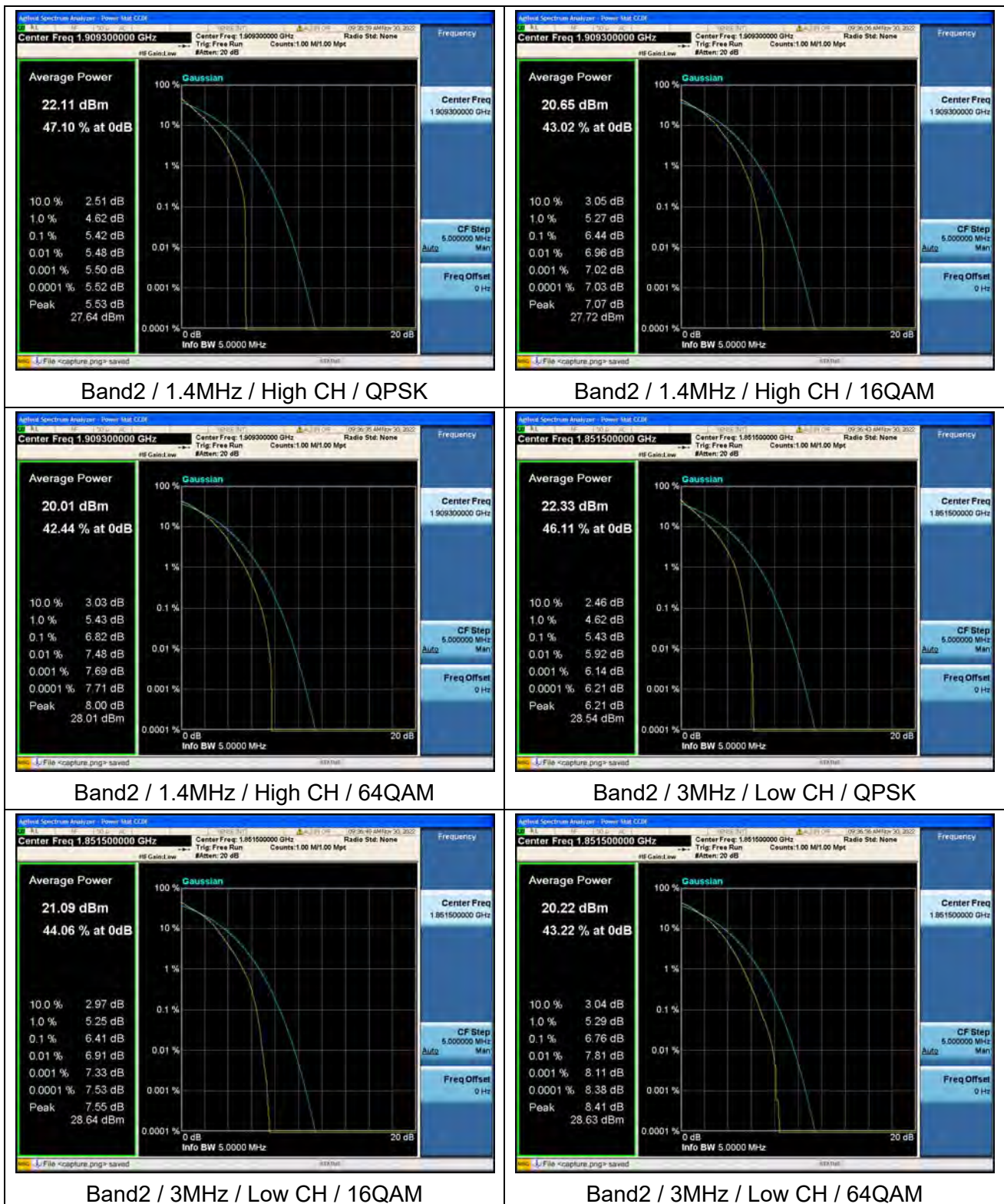
Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / Mid CH / 64QAM





Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM



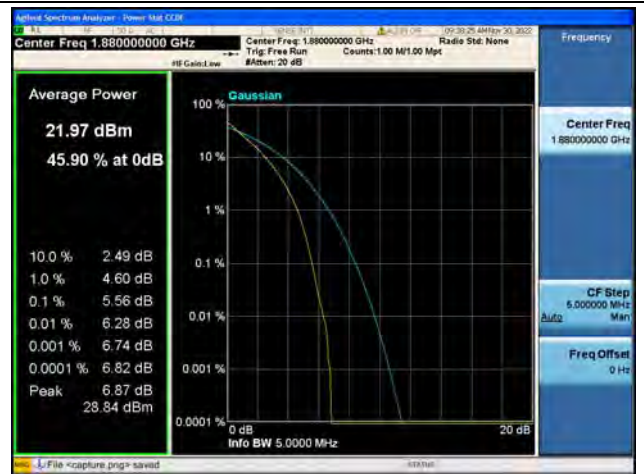
Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



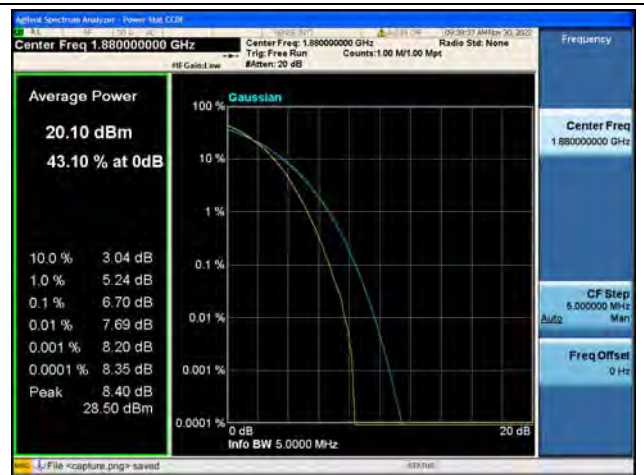
Band2 / 5MHz / Low CH / 64QAM



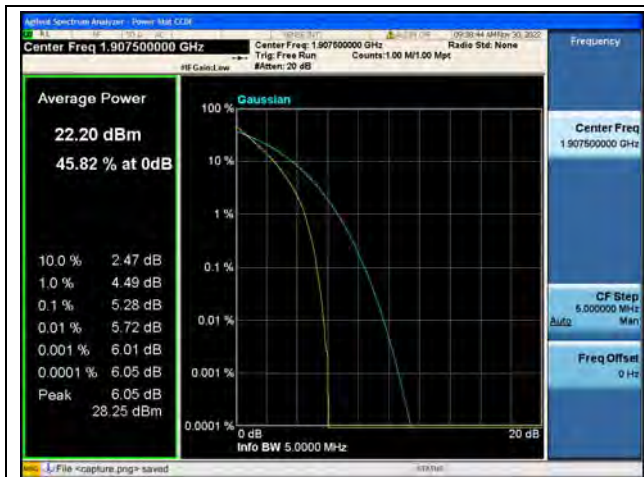
Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / Mid CH / 64QAM



Band2 / 5MHz / High CH / QPSK



Band2 / 5MHz / High CH / 16QAM



Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



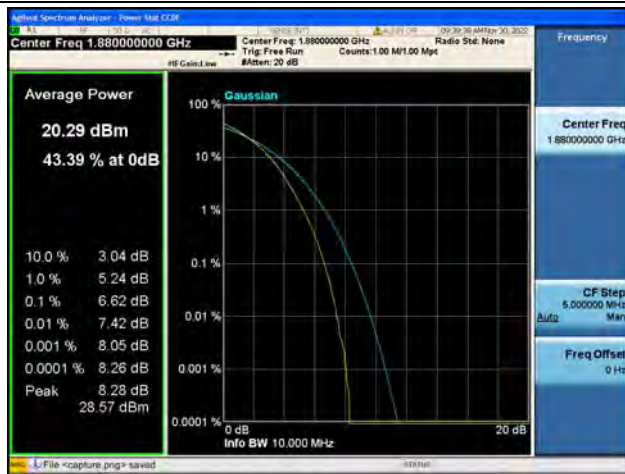
Band2 / 10MHz / Low CH / 64QAM



Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM



Band2 / 10MHz / High CH / 64QAM



Band2 / 15MHz / Low CH / QPSK



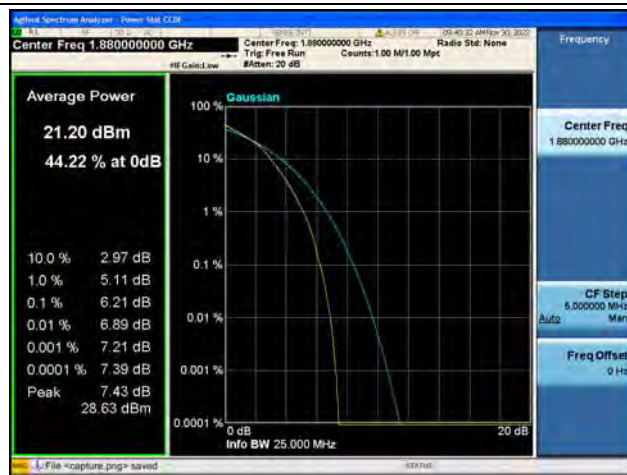
Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / Mid CH / 64QAM