

# RF TEST REPORT



Report No.: 15070591-FCC-R5

Supersede Report No.: N/A

|                                                                                                                                      |                                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--|
| Applicant                                                                                                                            | Verykool USA Inc                                                         |  |
| Product Name                                                                                                                         | Mobile phone                                                             |  |
| Model No.                                                                                                                            | SL5009                                                                   |  |
| Serial No.                                                                                                                           | N/A                                                                      |  |
| Test Standard                                                                                                                        | FCC Part 22(H), FCC Part 24(E), FCC Part 27: 2014; ANSI/TIA C603 D: 2010 |  |
| Test Date                                                                                                                            | July 21 to July 31, 2015                                                 |  |
| Issue Date                                                                                                                           | August 03, 2015                                                          |  |
| Test Result                                                                                                                          | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail   |  |
| Equipment complied with the specification <input checked="" type="checkbox"/>                                                        |                                                                          |  |
| Equipment did not comply with the specification <input type="checkbox"/>                                                             |                                                                          |  |
| <i>Winnie Zhang</i>                                                                                                                  | <i>David Huang</i>                                                       |  |
| Winnie Zhang<br>Test Engineer                                                                                                        | David Huang<br>Checked By                                                |  |
| This test report may be reproduced in full only<br>Test result presented in this test report is applicable to the tested sample only |                                                                          |  |

Issued by:

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## Laboratories Introduction

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### Accreditations for Conformity Assessment

| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |

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## 1. Report Revision History

| Report No.      | Report Version | Description | Issue Date      |
|-----------------|----------------|-------------|-----------------|
| 15070591-FCC-R5 | NONE           | Original    | August 03, 2015 |
|                 |                |             |                 |
|                 |                |             |                 |
|                 |                |             |                 |

## 2. Customer information

|                  |                                                                                              |
|------------------|----------------------------------------------------------------------------------------------|
| Applicant Name   | Verykool USA Inc                                                                             |
| Applicant Add    | 3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA                                         |
| Manufacturer     | Zechin Communications Co.,Ltd.                                                               |
| Manufacturer Add | Unit804,8th Floor Desay Tech Building Gaoxin, Road South,<br>Nanshan District Shenzhen,China |

## 3. Test site information

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                                                                                         |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong<br>China 518108 |
| FCC Test Site No.    | 718246                                                                                                                                       |
| IC Test Site No.     | 4842E-1                                                                                                                                      |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0                                                                                                   |

## 4. Equipment under Test (EUT) Information

Description of EUT: Mobile phone

Main Model: SL5009

Serial Model: N/A

Date EUT received: July 20, 2015

Test Date(s): July 21 to July 31, 2015

Equipment Category : PCE

Antenna Gain:

GSM850: 1.6 dBi  
PCS1900: 3.8 dBi  
UMTS-FDD Band V: 1.7 dBi  
UMTS-FDD Band IV: 3.7 dBi  
UMTS-FDD Band II: 3.8 dBi  
Bluetooth/BLE: 3 dBi  
WIFI: 2.9 dBi  
LTE Band 2: 3.8 dBi  
LTE Band 4: 3.8 dBi  
LTE Band 5: 3.8 dBi  
LTE Band 7: 3.8 dBi  
LTE Band 12: 3.8 dBi  
LTE Band 17: 3.8 dBi  
GPS:1.6 dBi

Type of Modulation:

GSM / GPRS: GMSK  
EGPRS: GMSK, 8PSK  
UMTS-FDD: QPSK, 16QAM  
802.11b/g/n: DSSS, OFDM  
Bluetooth: GFSK,  $\pi$ /4DQPSK, 8DPSK  
BLE: GFSK  
LTE Band: QPSK, 16QAM  
GPS:BPSK

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p>GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz</p> <p>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz</p> <p>UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz</p> <p>UMTS-FDD Band IV TX: 1712.4 ~ 1752.6 MHz;</p> <p>UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;</p> <p style="padding-left: 100px;">RX: 1932.4 ~ 1987.6 MHz</p> <p>WiFi: 802.11b/g/n(20M): 2412-2462 MHz</p> <p>WiFi: 802.11n(40M): 2422-2472 MHz</p> <p>Bluetooth&amp; BLE: 2402-2480 MHz</p> <p>LTE Band 2 TX: 1852.5 ~ 1907.5 MHz; RX : 1932.5 ~ 1987.5 MHz</p> <p>LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX : 2112.5 ~ 2152.5 MHz</p> <p>LTE Band 5 TX: 826.5 ~ 846.5 MHz; RX : 871.5 ~ 891.5 MHz</p> <p>LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz</p> <p>LTE Band 12 TX: 699.7 ~ 715.3 MHz; RX : 729.7 ~ 745.3MHz</p> <p>LTE Band 17 TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz</p> <p>GPS RX: 1575.42 MHz</p> |
| RF Operating Frequency (ies): |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                               | <p>LTE Band 2: 22.69 dBm</p> <p>LTE Band 4: 22.77 dBm</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Maximum Conducted             | LTE Band 5: 22.76 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AV Power to Antenna:          | <p>LTE Band 7: 22.28 dBm</p> <p>LTE Band 12: 21.65 dBm</p> <p>LTE Band 17: 22.13 dBm</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                               | <p>LTE Band 2: 16.97 dBm / EIRP</p> <p>LTE Band 4: 17.17 dBm / EIRP</p> <p>LTE Band 5: 17.18 dBm / EIRP</p> <p>LTE Band 7: 16.97 dBm / EIRP</p> <p>LTE Band 12: 16.24 dBm / EIRP</p> <p>LTE Band 17: 18.79 dBm / ERP</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ERP/EIRP:                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Port:                         | Power Port, Earphone Port, USB Port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                               | <p>Battery:</p> <p>Model: 344482PV</p> <p>Spec: 3.8V, 1900mAh, 7.22Wh</p> <p>Limited Charging Voltage: 4.35V</p> <p>Adapter:</p> <p>Model: SC050100-US</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Input Power:                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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Input: 100-240V; 50/60Hz; 0.4A

Output: DC 5.0V,1A

Trade Name : verykool

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: WA6SL5009

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules                                                         | Description of Test                                                    | Result     |
|-------------------------------------------------------------------|------------------------------------------------------------------------|------------|
| § 1.1307; § 2.1093                                                | RF Exposure (SAR)                                                      | Compliance |
| §2.1046; § 22.913(a); § 24.232(c);<br>§ 27.50(c.10); § 27.50(d.4) | RF Output Power                                                        | Compliance |
| § 24.232 (d); § 27.50(d)                                          | Peak-Average Ratio                                                     | Compliance |
| § 2.1047                                                          | Modulation Characteristics                                             | Compliance |
| § 2.1049; § 22.905; § 22.917;<br>§ 24.238; § 27.53(a.5)           | 99% & -26 dB Occupied Bandwidth                                        | Compliance |
| § 2.1051; § 22.917(a);<br>§ 24.238(a); § 27.53(h)                 | Spurious Emissions at Antenna Terminal                                 | Compliance |
| § 2.1053; § 22.917(a);<br>§ 24.238(a); § 27.53(h)                 | Field Strength of Spurious Radiation                                   | Compliance |
| § 22.917(a); § 24.238(a);                                         | Out of band emission, Band Edge                                        | Compliance |
| § 27.53(m)                                                        | Band Edge 27.53(m)                                                     | Compliance |
| § 2.1055; § 22.355; § 24.235;<br>§ 27.5(h); § 27.54               | Frequency stability vs. temperature<br>Frequency stability vs. voltage | Compliance |

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

### Measurement Uncertainty

| Emissions                                    |                                                                                                                                                 |               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Test Item                                    | Description                                                                                                                                     | Uncertainty   |
| Band Edge and Radiated<br>Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| -                                            | -                                                                                                                                               | -             |

## **6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

### **6.1 RF Exposure (SAR)**

Test Result: Pass

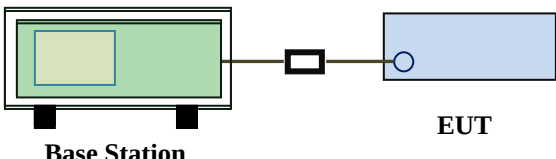
The EUT is a portable device, thus requires SAR evaluation;  
Please refer to RF Exposure Evaluation Report: 15070591-FCC-H.

## 6.2 RF Output Power

|                      |                 |
|----------------------|-----------------|
| Temperature          | 22°C            |
| Relative Humidity    | 57%             |
| Atmospheric Pressure | 1005mbar        |
| Test date :          | August 05, 2015 |
| Tested By :          | Winnie Zhang    |

### Requirement(s):

| Spec        | Item | Requirement  | Applicable                          |
|-------------|------|--------------|-------------------------------------|
| §22.913 (a) | a)   | ERP:38.45dBm | <input checked="" type="checkbox"/> |
| §24.232 (c) | b)   | EIRP:33dBm   | <input checked="" type="checkbox"/> |
| §27.50 (c)  | c)   | EIRP: 30dBm  | <input checked="" type="checkbox"/> |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Setup |  <p>The diagram illustrates the test setup. On the left, a green rectangular box represents the 'Base Station'. A cable connects it to a blue rectangular box on the right, which is labeled 'EUT' (Equipment Under Test). The connection is shown as a simple line with a small square at the Base Station end and a small circle at the EUT end.</p> |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure | <p>For Conducted Power:</p> <ul style="list-style-type: none"> <li>- The transmitter output port was connected to base station.</li> <li>- Set EUT at maximum power through base station.</li> <li>- Select lowest, middle, and highest channels for each band and different test mode.</li> </ul> <p>For ERP/EIRP:</p> <ul style="list-style-type: none"> <li>- The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.</li> <li>- The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.</li> <li>- The frequency range up to tenth harmonic of the fundamental frequency was investigated.</li> </ul> |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <ul style="list-style-type: none"> <li>- Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.</li> <li>- Spurious emissions in dB = <math>10 \log (\text{TX power in Watts}/0.001)</math> – the absolute level</li> <li>- Spurious attenuation limit in dB = <math>43 + 10 \text{ Log}_{10} (\text{power out in Watts})</math>.</li> </ul> |
| Remark |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

## Conducted Power

LTE Band 2:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 20MHz    | 18700 | 1860.0      | QPSK  | 1                | 0            | 0   | 22.17               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.30               | 22±1                   |
|          |       |             |       | 1                | 99           | 0   | 22.34               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.40               | 22±1                   |
|          |       |             |       | 50               | 24           | 1   | 21.44               | 22±1                   |
|          |       |             |       | 50               | 49           | 1   | 21.39               | 22±1                   |
|          |       |             | 16QAM | 100              | 0            | 1   | 21.37               | 22±1                   |
|          |       |             |       | 1                | 0            | 1   | 21.77               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.82               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.84               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.36               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 21.43               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 21.21               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.59               | 21.3±1                 |
|          | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 22.41               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.45               | 22±1                   |
|          |       |             |       | 1                | 99           | 0   | 22.44               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.59               | 22±1                   |
|          |       |             |       | 50               | 24           | 1   | 21.57               | 22±1                   |
|          |       |             |       | 50               | 49           | 1   | 21.55               | 22±1                   |
|          |       |             | 16QAM | 100              | 0            | 1   | 21.51               | 22±1                   |
|          |       |             |       | 1                | 0            | 1   | 21.93               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.97               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.95               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.57               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 21.43               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 21.56               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.71               | 21.3±1                 |
|          | 19100 | 1900.0      | QPSK  | 1                | 0            | 0   | 22.56               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | <b>22.69</b>        | 22±1                   |
|          |       |             |       | 1                | 99           | 0   | 22.58               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.58               | 22±1                   |
|          |       |             |       | 50               | 24           | 1   | 21.63               | 22±1                   |
|          |       |             |       | 50               | 49           | 1   | 21.54               | 22±1                   |
|          |       |             | 16QAM | 100              | 0            | 1   | 21.52               | 22±1                   |
|          |       |             |       | 1                | 0            | 1   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.60               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.50               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.37               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 21.39               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.57               | 21.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 15MHz       | 18675 | 1857.5         | QPSK  | 1                   | 0               | 0   | 22.31                     | 22±1                         |
|             |       |                |       | 1                   | 37              | 0   | 22.34                     | 22±1                         |
|             |       |                |       | 1                   | 74              | 0   | 22.37                     | 22±1                         |
|             |       |                |       | 36                  | 0               | 1   | 21.30                     | 22±1                         |
|             |       |                |       | 36                  | 16              | 1   | 21.34                     | 22±1                         |
|             |       |                |       | 36                  | 35              | 1   | 21.31                     | 22±1                         |
|             |       |                |       | 75                  | 0               | 1   | 21.27                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.86                     | 22±1                         |
|             |       |                |       | 1                   | 37              | 1   | 21.90                     | 22±1                         |
|             |       |                |       | 1                   | 74              | 1   | 21.92                     | 22±1                         |
|             |       |                |       | 36                  | 0               | 2   | 21.13                     | 22±1                         |
|             |       |                |       | 36                  | 16              | 2   | 21.09                     | 22±1                         |
|             |       |                |       | 36                  | 35              | 2   | 21.21                     | 22±1                         |
|             |       |                |       | 75                  | 0               | 2   | 21.13                     | 22±1                         |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 22.18                     | 22±1                         |
|             |       |                |       | 1                   | 37              | 0   | 22.23                     | 22±1                         |
|             |       |                |       | 1                   | 74              | 0   | 22.24                     | 22±1                         |
|             |       |                |       | 36                  | 0               | 1   | 21.44                     | 22±1                         |
|             |       |                |       | 36                  | 16              | 1   | 21.47                     | 22±1                         |
|             |       |                |       | 36                  | 35              | 1   | 21.40                     | 22±1                         |
|             |       |                |       | 75                  | 0               | 1   | 21.41                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 22.06                     | 21.3±1                       |
|             |       |                |       | 1                   | 37              | 1   | 22.05                     | 21.3±1                       |
|             |       |                |       | 1                   | 74              | 1   | 22.06                     | 21.3±1                       |
|             |       |                |       | 36                  | 0               | 2   | 21.13                     | 21.3±1                       |
|             |       |                |       | 36                  | 16              | 2   | 21.23                     | 21.3±1                       |
|             |       |                |       | 36                  | 35              | 2   | 21.34                     | 21.3±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.71                     | 21.3±1                       |
|             | 19125 | 1902.5         | QPSK  | 1                   | 0               | 0   | 22.42                     | 22±1                         |
|             |       |                |       | 1                   | 37              | 0   | 22.48                     | 22±1                         |
|             |       |                |       | 1                   | 74              | 0   | <b>22.49</b>              | 22±1                         |
|             |       |                |       | 36                  | 0               | 1   | 21.44                     | 22±1                         |
|             |       |                |       | 36                  | 16              | 1   | 21.48                     | 22±1                         |
|             |       |                |       | 36                  | 35              | 1   | 21.41                     | 22±1                         |
|             |       |                |       | 75                  | 0               | 1   | 21.46                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.38                     | 21.3±1                       |
|             |       |                |       | 1                   | 37              | 1   | 21.36                     | 21.3±1                       |
|             |       |                |       | 1                   | 74              | 1   | 21.35                     | 21.3±1                       |
|             |       |                |       | 36                  | 0               | 2   | 21.17                     | 21.3±1                       |
|             |       |                |       | 36                  | 16              | 2   | 21.24                     | 21.3±1                       |
|             |       |                |       | 36                  | 35              | 2   | 21.16                     | 21.3±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.74                     | 21.3±1                       |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 18650 | 1855        | QPSK  | 1                | 0            | 0   | 22.26               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.28               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.25               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.28               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.26               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.19               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.29               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.17               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.18               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.15               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.09               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.13               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.04               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.81               | 21.3±1                 |
|          | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 22.27               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.28               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.26               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.48               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.51               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.49               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.50               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.07               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 22.10               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 22.07               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.31               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.43               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.36               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.91               | 21.3±1                 |
|          | 19150 | 1905        | QPSK  | 1                | 0            | 0   | 22.31               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | <b>22.35</b>        | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.31               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.51               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.49               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.37               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.55               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.08               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 22.07               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.99               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.43               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.37               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.29               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.85               | 21.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 18625 | 1852.5         | QPSK  | 1                   | 0               | 0   | <b>22.45</b>              | 22±1                         |
|             |       |                |       | 1                   | 12              | 0   | 22.44                     | 22±1                         |
|             |       |                |       | 1                   | 24              | 0   | 22.40                     | 22±1                         |
|             |       |                |       | 12                  | 0               | 1   | 21.52                     | 22±1                         |
|             |       |                |       | 12                  | 6               | 1   | 21.56                     | 22±1                         |
|             |       |                |       | 12                  | 11              | 1   | 21.51                     | 22±1                         |
|             |       |                |       | 25                  | 0               | 1   | 21.46                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.48                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.49                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.44                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.37                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.42                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.33                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.74                     | 21.3±1                       |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 22.41                     | 22±1                         |
|             |       |                |       | 1                   | 12              | 0   | 22.42                     | 22±1                         |
|             |       |                |       | 1                   | 24              | 0   | 22.37                     | 22±1                         |
|             |       |                |       | 12                  | 0               | 1   | 21.51                     | 22±1                         |
|             |       |                |       | 12                  | 6               | 1   | 21.61                     | 22±1                         |
|             |       |                |       | 12                  | 11              | 1   | 21.53                     | 22±1                         |
|             |       |                |       | 25                  | 0               | 1   | 21.48                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.94                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.96                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.89                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.21                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.37                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.18                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.52                     | 21.3±1                       |
|             | 19175 | 1907.5         | QPSK  | 1                   | 0               | 0   | 22.37                     | 22±1                         |
|             |       |                |       | 1                   | 12              | 0   | 22.41                     | 22±1                         |
|             |       |                |       | 1                   | 24              | 0   | 22.34                     | 22±1                         |
|             |       |                |       | 12                  | 0               | 1   | 21.52                     | 22±1                         |
|             |       |                |       | 12                  | 6               | 1   | 21.56                     | 22±1                         |
|             |       |                |       | 12                  | 11              | 1   | 21.53                     | 22±1                         |
|             |       |                |       | 25                  | 0               | 1   | 21.47                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.51                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.45                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.44                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.18                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.27                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.13                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.72                     | 21.3±1                       |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 3MHz     | 18625 | 1852.5      | QPSK  | 1                | 0            | 0   | 22.01               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.04               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.01               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.17               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.23               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.23               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.24               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.77               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.73               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.79               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.18               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.16               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 20.98               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.57               | 21.3±1                 |
|          | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 22.35               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.41               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.37               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.31               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.37               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.29               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.41               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.32               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.33               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.29               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.03               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.28               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.16               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.54               | 21.3±1                 |
|          | 19175 | 1907.5      | QPSK  | 1                | 0            | 0   | 22.41               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | <b>22.44</b>        | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.42               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.33               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.45               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.36               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.48               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.45               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.41               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.35               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.16               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.41               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.67               | 21.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 18607 | 1850.7         | QPSK  | 1                   | 0               | 0   | 22.08                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.10                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.12                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 22.37                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 22.39                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 22.31                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.17                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.86                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 20.88                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 20.89                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 20.76                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 20.65                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 20.77                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.61                     | 21.3±1                       |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 22.40                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.43                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.45                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | <b>22.64</b>              | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 22.62                     | 21±1                         |
|             |       |                |       | 3                   | 2               | 0   | 22.69                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.35                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.33                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.36                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.35                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.27                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.23                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.26                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.48                     | 21.3±1                       |
|             | 19193 | 1909.3         | QPSK  | 1                   | 0               | 0   | 22.44                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.50                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.48                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 22.55                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 22.64                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 22.60                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.36                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.42                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.53                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.47                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.24                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.35                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.21                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.34                     | 21.3±1                       |

LTE Band 4:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 20MHz    | 20050 | 1720.0      | QPSK  | 1                | 0            | 0   | 22.19               | 22 ± 1                 |
|          |       |             |       | 1                | 49           | 0   | <b>22.21</b>        | 22 ± 1                 |
|          |       |             |       | 1                | 99           | 0   | 22.15               | 22 ± 1                 |
|          |       |             |       | 50               | 0            | 1   | 21.74               | 22 ± 1                 |
|          |       |             |       | 50               | 24           | 1   | 21.78               | 22 ± 1                 |
|          |       |             |       | 50               | 49           | 1   | 21.75               | 22 ± 1                 |
|          |       |             |       | 100              | 0            | 1   | 21.72               | 22 ± 1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.73               | 22 ± 1                 |
|          |       |             |       | 1                | 49           | 1   | 21.72               | 22 ± 1                 |
|          |       |             |       | 1                | 99           | 1   | 21.65               | 22 ± 1                 |
|          |       |             |       | 50               | 0            | 2   | 21.47               | 22 ± 1                 |
|          |       |             |       | 50               | 24           | 2   | 21.51               | 22 ± 1                 |
|          |       |             |       | 50               | 49           | 2   | 21.46               | 22 ± 1                 |
|          |       |             |       | 100              | 0            | 2   | 21.37               | 22 ± 1                 |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 21.69               | 22 ± 1                 |
|          |       |             |       | 1                | 49           | 0   | 21.65               | 22 ± 1                 |
|          |       |             |       | 1                | 99           | 0   | 21.63               | 22 ± 1                 |
|          |       |             |       | 50               | 0            | 1   | 22.03               | 22 ± 1                 |
|          |       |             |       | 50               | 24           | 1   | 21.88               | 22 ± 1                 |
|          |       |             |       | 50               | 49           | 1   | 21.69               | 22 ± 1                 |
|          |       |             |       | 100              | 0            | 1   | 21.52               | 22 ± 1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.01               | 22 ± 1                 |
|          |       |             |       | 1                | 49           | 1   | 21.90               | 22 ± 1                 |
|          |       |             |       | 1                | 99           | 1   | 21.89               | 22 ± 1                 |
|          |       |             |       | 50               | 0            | 2   | 21.56               | 22 ± 1                 |
|          |       |             |       | 50               | 24           | 2   | 21.34               | 22 ± 1                 |
|          |       |             |       | 50               | 49           | 2   | 21.47               | 22 ± 1                 |
|          |       |             |       | 100              | 0            | 2   | 21.52               | 22 ± 1                 |
|          | 20300 | 1745.0      | QPSK  | 1                | 0            | 0   | 21.49               | 22 ± 1                 |
|          |       |             |       | 1                | 49           | 0   | 21.46               | 22 ± 1                 |
|          |       |             |       | 1                | 99           | 0   | 21.41               | 22 ± 1                 |
|          |       |             |       | 50               | 0            | 1   | 21.51               | 22 ± 1                 |
|          |       |             |       | 50               | 24           | 1   | 21.48               | 22 ± 1                 |
|          |       |             |       | 50               | 49           | 1   | 21.53               | 22 ± 1                 |
|          |       |             |       | 100              | 0            | 1   | 21.52               | 22 ± 1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.02               | 22 ± 1                 |
|          |       |             |       | 1                | 49           | 1   | 21.98               | 22 ± 1                 |
|          |       |             |       | 1                | 99           | 1   | 21.93               | 22 ± 1                 |
|          |       |             |       | 50               | 0            | 2   | 21.36               | 22 ± 1                 |
|          |       |             |       | 50               | 24           | 2   | 21.49               | 22 ± 1                 |
|          |       |             |       | 50               | 49           | 2   | 21.51               | 22 ± 1                 |
|          |       |             |       | 100              | 0            | 2   | 21.60               | 22 ± 1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 15MHz    | 20025 | 1717.5      | QPSK  | 1                | 0            | 0   | 21.45               | 22 ± 1                 |
|          |       |             |       | 1                | 37           | 0   | 21.44               | 22 ± 1                 |
|          |       |             |       | 1                | 74           | 0   | 21.42               | 22 ± 1                 |
|          |       |             |       | 36               | 0            | 1   | 21.59               | 22 ± 1                 |
|          |       |             |       | 36               | 16           | 1   | 21.61               | 22 ± 1                 |
|          |       |             |       | 36               | 35           | 1   | 21.58               | 22 ± 1                 |
|          |       |             |       | 75               | 0            | 1   | 21.60               | 22 ± 1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.19               | 22 ± 1                 |
|          |       |             |       | 1                | 37           | 1   | <b>22.21</b>        | 22 ± 1                 |
|          |       |             |       | 1                | 74           | 1   | 22.17               | 22 ± 1                 |
|          |       |             |       | 36               | 0            | 2   | 21.16               | 22 ± 1                 |
|          |       |             |       | 36               | 16           | 2   | 21.34               | 22 ± 1                 |
|          |       |             |       | 36               | 35           | 2   | 21.45               | 22 ± 1                 |
|          |       |             |       | 75               | 0            | 2   | 21.84               | 22 ± 1                 |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 21.59               | 22 ± 1                 |
|          |       |             |       | 1                | 37           | 0   | 21.56               | 22 ± 1                 |
|          |       |             |       | 1                | 74           | 0   | 21.55               | 22 ± 1                 |
|          |       |             |       | 36               | 0            | 1   | 21.54               | 22 ± 1                 |
|          |       |             |       | 36               | 16           | 1   | 21.53               | 22 ± 1                 |
|          |       |             |       | 36               | 35           | 1   | 21.56               | 22 ± 1                 |
|          |       |             |       | 75               | 0            | 1   | 21.55               | 22 ± 1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.43               | 22 ± 1                 |
|          |       |             |       | 1                | 37           | 1   | 21.41               | 22 ± 1                 |
|          |       |             |       | 1                | 74           | 1   | 21.37               | 22 ± 1                 |
|          |       |             |       | 36               | 0            | 2   | 21.48               | 22 ± 1                 |
|          |       |             |       | 36               | 16           | 2   | 21.43               | 22 ± 1                 |
|          |       |             |       | 36               | 35           | 2   | 21.34               | 22 ± 1                 |
|          |       |             |       | 75               | 0            | 2   | 21.51               | 22 ± 1                 |
|          | 20325 | 1747.5      | QPSK  | 1                | 0            | 0   | 21.36               | 22 ± 1                 |
|          |       |             |       | 1                | 37           | 0   | 21.34               | 22 ± 1                 |
|          |       |             |       | 1                | 74           | 0   | 21.35               | 22 ± 1                 |
|          |       |             |       | 36               | 0            | 1   | 21.51               | 22 ± 1                 |
|          |       |             |       | 36               | 16           | 1   | 21.47               | 22 ± 1                 |
|          |       |             |       | 36               | 35           | 1   | 21.54               | 22 ± 1                 |
|          |       |             |       | 75               | 0            | 1   | 21.52               | 22 ± 1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.12               | 22 ± 1                 |
|          |       |             |       | 1                | 37           | 1   | 22.13               | 22 ± 1                 |
|          |       |             |       | 1                | 74           | 1   | 22.14               | 22 ± 1                 |
|          |       |             |       | 36               | 0            | 2   | 21.52               | 22 ± 1                 |
|          |       |             |       | 36               | 16           | 2   | 21.54               | 22 ± 1                 |
|          |       |             |       | 36               | 35           | 2   | 21.65               | 22 ± 1                 |
|          |       |             |       | 75               | 0            | 2   | 21.77               | 22 ± 1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 20000 | 1715.0      | QPSK  | 1                | 0            | 0   | <b>22.19</b>        | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.13               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.08               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.45               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.38               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.35               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.23               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.67               | 22±1                   |
|          |       |             |       | 1                | 24           | 1   | 21.73               | 22±1                   |
|          |       |             |       | 1                | 49           | 1   | 21.56               | 22±1                   |
|          |       |             |       | 25               | 0            | 2   | 21.26               | 22±1                   |
|          |       |             |       | 25               | 12           | 2   | 21.28               | 22±1                   |
|          |       |             |       | 25               | 24           | 2   | 21.31               | 22±1                   |
|          |       |             |       | 50               | 0            | 2   | 21.12               | 22±1                   |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.03               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.18               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.15               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.34               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.53               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.43               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.09               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.47               | 22±1                   |
|          |       |             |       | 1                | 24           | 1   | 21.56               | 22±1                   |
|          |       |             |       | 1                | 49           | 1   | 21.34               | 22±1                   |
|          |       |             |       | 25               | 0            | 2   | 21.12               | 22±1                   |
|          |       |             |       | 25               | 12           | 2   | 21.28               | 22±1                   |
|          |       |             |       | 25               | 24           | 2   | 21.29               | 22±1                   |
|          |       |             |       | 50               | 0            | 2   | 21.15               | 22±1                   |
|          | 20350 | 1750.0      | QPSK  | 1                | 0            | 0   | 22.06               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.14               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.13               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.36               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.29               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.16               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.11               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.98               | 22±1                   |
|          |       |             |       | 1                | 24           | 1   | 21.76               | 22±1                   |
|          |       |             |       | 1                | 49           | 1   | 21.84               | 22±1                   |
|          |       |             |       | 25               | 0            | 2   | 21.23               | 22±1                   |
|          |       |             |       | 25               | 12           | 2   | 21.12               | 22±1                   |
|          |       |             |       | 25               | 24           | 2   | 21.14               | 22±1                   |
|          |       |             |       | 50               | 0            | 2   | 21.01               | 22±1                   |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 20000 | 1715.0         | QPSK  | 1                   | 0               | 0   | 22.33                     | 22±1                         |
|             |       |                |       | 1                   | 12              | 0   | <b>22.37</b>              | 22±1                         |
|             |       |                |       | 1                   | 24              | 0   | 22.30                     | 22±1                         |
|             |       |                |       | 12                  | 0               | 1   | 21.22                     | 22±1                         |
|             |       |                |       | 12                  | 6               | 1   | 21.31                     | 22±1                         |
|             |       |                |       | 12                  | 11              | 1   | 21.21                     | 22±1                         |
|             |       |                |       | 25                  | 0               | 1   | 21.19                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.38                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.34                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.29                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.98                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.03                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.97                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.34                     | 21.3±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 22.13                     | 22±1                         |
|             |       |                |       | 1                   | 12              | 0   | 22.24                     | 22±1                         |
|             |       |                |       | 1                   | 24              | 0   | 22.31                     | 22±1                         |
|             |       |                |       | 12                  | 0               | 1   | 21.43                     | 22±1                         |
|             |       |                |       | 12                  | 6               | 1   | 21.46                     | 22±1                         |
|             |       |                |       | 12                  | 11              | 1   | 21.39                     | 22±1                         |
|             |       |                |       | 25                  | 0               | 1   | 21.14                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.64                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.56                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.47                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.98                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.31                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.86                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.61                     | 21.3±1                       |
|             | 20350 | 1750.0         | QPSK  | 1                   | 0               | 0   | 22.21                     | 22±1                         |
|             |       |                |       | 1                   | 12              | 0   | 22.36                     | 22±1                         |
|             |       |                |       | 1                   | 24              | 0   | 22.29                     | 22±1                         |
|             |       |                |       | 12                  | 0               | 1   | 21.34                     | 22±1                         |
|             |       |                |       | 12                  | 6               | 1   | 21.22                     | 22±1                         |
|             |       |                |       | 12                  | 11              | 1   | 21.31                     | 22±1                         |
|             |       |                |       | 25                  | 0               | 1   | 21.13                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.26                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.43                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.37                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.09                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.98                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.87                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.57                     | 21.3±1                       |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 3MHz     | 19965 | 1711.5      | QPSK  | 1                | 0            | 0   | <b>22.62</b>        | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.61               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.58               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.59               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.47               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.58               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.46               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.57               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.58               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.51               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.47               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.36               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.41               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 21.09               | 21.3±1                 |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.26               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.36               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.31               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.33               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.46               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.30               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.29               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.21               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.19               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.08               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.11               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.09               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.64               | 21.3±1                 |
|          | 20385 | 1753.5      | QPSK  | 1                | 0            | 0   | 22.43               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.56               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.47               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.46               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.51               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.64               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.34               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.47               | 22±1                   |
|          |       |             |       | 1                | 7            | 1   | 21.52               | 22±1                   |
|          |       |             |       | 1                | 14           | 1   | 21.39               | 22±1                   |
|          |       |             |       | 8                | 0            | 2   | 21.23               | 22±1                   |
|          |       |             |       | 8                | 4            | 2   | 21.26               | 22±1                   |
|          |       |             |       | 8                | 7            | 2   | 21.37               | 22±1                   |
|          |       |             |       | 15               | 0            | 2   | 21.01               | 22±1                   |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 19957 | 1710.7         | QPSK  | 1                   | 0               | 0   | 22.64                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.61                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.65                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 22.71                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | <b>22.77</b>              | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 22.70                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.61                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.46                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.43                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.48                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.37                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.36                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.38                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.98                     | 21.3±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 22.35                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.37                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.38                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 22.46                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 22.51                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 22.45                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.35                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.22                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.25                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.24                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.19                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.16                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 20.98                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.57                     | 21.3±1                       |
|             | 20393 | 1754.3         | QPSK  | 1                   | 0               | 0   | 22.47                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.45                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.43                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 22.37                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 22.35                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 22.38                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.39                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 22.44                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 1   | 22.48                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 1   | 22.47                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 1   | 22.16                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 1   | 22.23                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 1   | 22.17                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 2   | 21.71                     | 22±1                         |

LTE Band 5:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 20450 | 829         | QPSK  | 1                | 0            | 0   | <b>22.76</b>        | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.67               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.66               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.59               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.61               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.58               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.58               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.51               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.49               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.50               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.35               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.31               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.89               | 21.3±1                 |
|          | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.48               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.56               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.51               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.64               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.37               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.23               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.13               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.46               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.37               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.49               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.28               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.37               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.79               | 21.3±1                 |
|          | 20600 | 844         | QPSK  | 1                | 0            | 0   | 22.64               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.39               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.48               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.56               | 22±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.64               | 22±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.37               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.24               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.38               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.29               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.17               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.24               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.77               | 21.3±1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 5MHz     | 20425 | 826.5       | QPSK  | 1                | 0            | 0   | 22.65               | 22±1                   |
|          |       |             |       | 1                | 12           | 0   | 22.63               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.63               | 22±1                   |
|          |       |             |       | 12               | 0            | 1   | 21.68               | 22±1                   |
|          |       |             |       | 12               | 6            | 1   | 21.59               | 22±1                   |
|          |       |             |       | 12               | 11           | 1   | 21.67               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.65               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.09               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 22.10               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 22.02               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 21.51               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 21.37               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 21.46               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.71               | 21.3±1                 |
|          | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.48               | 22±1                   |
|          |       |             |       | 1                | 12           | 0   | 22.52               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.54               | 22±1                   |
|          |       |             |       | 12               | 0            | 1   | 21.77               | 22±1                   |
|          |       |             |       | 12               | 6            | 1   | 21.91               | 22±1                   |
|          |       |             |       | 12               | 11           | 1   | 21.79               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.59               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.09               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 22.14               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 22.07               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 21.57               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 21.48               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.87               | 21.3±1                 |
|          | 20625 | 846.5       | QPSK  | 1                | 0            | 0   | 22.67               | 22±1                   |
|          |       |             |       | 1                | 12           | 0   | <b>22.71</b>        | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.36               | 22±1                   |
|          |       |             |       | 12               | 0            | 1   | 21.52               | 22±1                   |
|          |       |             |       | 12               | 6            | 1   | 21.49               | 22±1                   |
|          |       |             |       | 12               | 11           | 1   | 21.39               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.32               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.21               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 22.36               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 22.41               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 21.37               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 21.26               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.71               | 21.3±1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 3MHz     | 20415 | 825.5       | QPSK  | 1                | 0            | 0   | 22.49               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | <b>22.55</b>        | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.47               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.63               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.66               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.65               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.64               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.18               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 22.22               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 22.12               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.53               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.58               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.56               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.83               | 21.3±1                 |
|          | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.39               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.41               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.35               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.46               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.48               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.39               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.16               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.13               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 22.24               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 22.16               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.19               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.17               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.11               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.78               | 21.3±1                 |
|          | 20635 | 847.5       | QPSK  | 1                | 0            | 0   | 22.45               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 22.47               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 22.44               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.37               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.43               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.45               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.11               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.19               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 22.16               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 22.05               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.43               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.38               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.36               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.97               | 21.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 20407 | 824.7          | QPSK  | 1                   | 0               | 0   | 22.43                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.45                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | <b>22.48</b>              | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 21.57                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 21.61                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 21.52                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.45                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 22.14                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 1   | 22.15                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 1   | 22.18                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 1   | 21.43                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 1   | 21.51                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 1   | 21.46                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 2   | 21.29                     | 22±1                         |
|             | 20525 | 836.5          | QPSK  | 1                   | 0               | 0   | 22.31                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.39                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.35                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 21.48                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 21.43                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 21.36                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.13                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 22.09                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 1   | 22.12                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 1   | 22.07                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 1   | 21.37                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 1   | 21.29                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 1   | 21.18                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 2   | 21.09                     | 22±1                         |
|             | 20643 | 848.3          | QPSK  | 1                   | 0               | 0   | 22.29                     | 22±1                         |
|             |       |                |       | 1                   | 2               | 0   | 22.33                     | 22±1                         |
|             |       |                |       | 1                   | 5               | 0   | 22.12                     | 22±1                         |
|             |       |                |       | 3                   | 0               | 0   | 21.21                     | 22±1                         |
|             |       |                |       | 3                   | 1               | 0   | 21.25                     | 22±1                         |
|             |       |                |       | 3                   | 2               | 0   | 21.27                     | 22±1                         |
|             |       |                |       | 6                   | 0               | 1   | 21.03                     | 22±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 22.18                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 22.13                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 22.21                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.12                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.23                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.17                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.71                     | 21.3±1                       |

LTE Band 7:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 20MHz    | 20850 | 2510        | QPSK  | 1                | 0            | 0   | 21.36               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.30               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.26               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.44               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.50               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.49               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.46               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.25               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.22               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.19               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 21.14               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 21.20               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.75               | 21.3±1                 |
|          | 21100 | 2535        | QPSK  | 1                | 0            | 0   | 21.68               | 22±1                   |
|          |       |             |       | 1                | 49           | 0   | 21.75               | 22±1                   |
|          |       |             |       | 1                | 99           | 0   | 21.74               | 22±1                   |
|          |       |             |       | 50               | 0            | 1   | 21.86               | 22±1                   |
|          |       |             |       | 50               | 24           | 1   | 21.72               | 22±1                   |
|          |       |             |       | 50               | 49           | 1   | 21.66               | 22±1                   |
|          |       |             |       | 100              | 0            | 1   | 21.35               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.03               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.35               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.34               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.12               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 21.08               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.98               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.56               | 21.3±1                 |
|          | 21350 | 2560        | QPSK  | 1                | 0            | 0   | <b>22.26</b>        | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.13               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.25               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.44               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.89               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.84               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.36               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.40               | 21.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.76               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.66               | 21.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.82               | 21.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.74               | 21.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.51               | 21.3±1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 15MHz    | 20825 | 1717.5      | QPSK  | 1                | 0            | 0   | 20.68               | 21.3±1                 |
|          |       |             |       | 1                | 37           | 0   | 21.65               | 21.3±1                 |
|          |       |             |       | 1                | 74           | 0   | 21.86               | 21.3±1                 |
|          |       |             |       | 36               | 0            | 1   | 20.75               | 21.3±1                 |
|          |       |             |       | 36               | 16           | 1   | 20.81               | 21.3±1                 |
|          |       |             |       | 36               | 35           | 1   | 20.81               | 21.3±1                 |
|          |       |             |       | 75               | 0            | 1   | 20.53               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.69               | 21.3±1                 |
|          |       |             |       | 1                | 37           | 1   | 20.86               | 21.3±1                 |
|          |       |             |       | 1                | 74           | 1   | 21.55               | 21.3±1                 |
|          |       |             |       | 36               | 0            | 2   | 21.14               | 21.3±1                 |
|          |       |             |       | 36               | 16           | 2   | 21.05               | 21.3±1                 |
|          |       |             |       | 36               | 35           | 2   | 21.13               | 21.3±1                 |
|          |       |             |       | 75               | 0            | 2   | 20.41               | 21.3±1                 |
|          | 21100 | 1732.5      | QPSK  | 1                | 0            | 0   | 21.03               | 21.3±1                 |
|          |       |             |       | 1                | 37           | 0   | 21.15               | 21.3±1                 |
|          |       |             |       | 1                | 74           | 0   | 21.26               | 21.3±1                 |
|          |       |             |       | 36               | 0            | 1   | 20.43               | 21.3±1                 |
|          |       |             |       | 36               | 16           | 1   | 20.52               | 21.3±1                 |
|          |       |             |       | 36               | 35           | 1   | 20.45               | 21.3±1                 |
|          |       |             |       | 75               | 0            | 1   | 20.36               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 37           | 1   | 21.06               | 21.3±1                 |
|          |       |             |       | 1                | 74           | 1   | 21.14               | 21.3±1                 |
|          |       |             |       | 36               | 0            | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 36               | 16           | 2   | 21.12               | 21.3±1                 |
|          |       |             |       | 36               | 35           | 2   | 21.24               | 21.3±1                 |
|          |       |             |       | 75               | 0            | 2   | 20.43               | 21.3±1                 |
|          | 21375 | 1747.5      | QPSK  | 1                | 0            | 0   | <b>22.28</b>        | 21.3±1                 |
|          |       |             |       | 1                | 37           | 0   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 74           | 0   | 21.03               | 21.3±1                 |
|          |       |             |       | 36               | 0            | 1   | 20.88               | 21.3±1                 |
|          |       |             |       | 36               | 16           | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 36               | 35           | 1   | 21.12               | 21.3±1                 |
|          |       |             |       | 75               | 0            | 1   | 20.56               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.06               | 21.3±1                 |
|          |       |             |       | 1                | 37           | 1   | 21.25               | 21.3±1                 |
|          |       |             |       | 1                | 74           | 1   | 21.12               | 21.3±1                 |
|          |       |             |       | 36               | 0            | 2   | 21.35               | 21.3±1                 |
|          |       |             |       | 36               | 16           | 2   | 21.04               | 21.3±1                 |
|          |       |             |       | 36               | 35           | 2   | 21.11               | 21.3±1                 |
|          |       |             |       | 75               | 0            | 2   | 20.81               | 21.3±1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 20800 | 2502        | QPSK  | 1                | 0            | 0   | 21.34               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.66               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.05               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.33               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.68               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.12               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.04               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.13               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.03               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.06               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.09               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.43               | 21.3±1                 |
|          | 21100 | 2535        | QPSK  | 1                | 0            | 0   | 21.75               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.85               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.26               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.86               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 20.88               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 20.56               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.34               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.45               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.16               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | <b>22.03</b>        | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.53               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.44               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.36               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.62               | 21.3±1                 |
|          | 21400 | 2565        | QPSK  | 1                | 0            | 0   | 21.12               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.25               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.04               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 20.55               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.34               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.44               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.35               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.22               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.05               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.95               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.86               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.79               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.45               | 21.3±1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 5MHz     | 19975 | 1712.5      | QPSK  | 1                | 0            | 0   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 0   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.26               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 1   | 21.15               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 1   | 21.07               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 1   | 20.99               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.53               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.12               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 21.13               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.24               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 21.10               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 20.86               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 20.88               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.75               | 21.3±1                 |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | <b>21.56</b>        | 21.3±1                 |
|          |       |             |       | 1                | 12           | 0   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.23               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 1   | 21.05               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 1   | 20.86               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 1   | 20.77               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.41               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.06               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 21.15               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 21.04               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 21.06               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 20.85               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.71               | 21.3±1                 |
|          | 20375 | 1752.5      | QPSK  | 1                | 0            | 0   | 21.46               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 0   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.39               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 1   | 21.06               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 1   | 21.01               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 1   | 21.12               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.75               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 21.13               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.19               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 20.82               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 21.12               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 20.78               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.63               | 21.3±1                 |

LTE Band 12:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 23060 | 704         | QPSK  | 1                | 0            | 0   | 21.56               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.45               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.43               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.05               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.09               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.25               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.85               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | <b>21.65</b>        | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.26               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.16               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.27               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.15               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.86               | 21.3±1                 |
|          | 23095 | 707.5       | QPSK  | 1                | 0            | 0   | 21.85               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.57               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.34               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.09               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.25               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.26               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.91               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.36               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.41               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.33               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.25               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.42               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.86               | 21.3±1                 |
|          | 23130 | 711         | QPSK  | 1                | 0            | 0   | 21.46               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.44               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.26               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.24               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.22               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.85               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.29               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.39               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.42               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.37               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.35               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.41               | 21.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 23035 | 701.5          | QPSK  | 1                   | 0               | 0   | 21.45                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 0   | 21.36                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 0   | 21.15                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.05                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.16                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.13                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.88                     | 21.3±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.63                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.43                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.52                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.24                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.15                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.18                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.81                     | 21.3±1                       |
|             | 23095 | 707.5          | QPSK  | 1                   | 0               | 0   | 21.45                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 0   | 21.35                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 0   | 21.52                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.04                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.25                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.12                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.94                     | 21.3±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | <b>21.53</b>              | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.46                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.23                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.11                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.15                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.04                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.76                     | 21.3±1                       |
|             | 23155 | 713.5          | QPSK  | 1                   | 0               | 0   | 21.35                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 0   | 21.36                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 0   | 21.35                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.25                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.26                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.33                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.95                     | 21.3±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.52                     | 21.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.42                     | 21.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.42                     | 21.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.35                     | 21.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.28                     | 21.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.45                     | 21.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.92                     | 21.3±1                       |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 3MHz     | 23025 | 700.5       | QPSK  | 1                | 0            | 0   | 21.36               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 21.42               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 21.29               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.35               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | <b>21.55</b>        | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.15               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.06               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.26               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.19               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.09               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.08               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.11               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.71               | 21.3±1                 |
|          | 23095 | 707.5       | QPSK  | 1                | 0            | 0   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 0   | 21.41               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 0   | 21.32               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 1   | 21.20               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 1   | 21.15               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 1   | 21.31               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 1   | 20.66               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.24               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.15               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.15               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.08               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.24               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.03               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.78               | 21.3±1                 |
|          | 23025 | 714.5       | QPSK  | 1                | 0            | 0   | 21.36               | 22±1                   |
|          |       |             |       | 1                | 7            | 0   | 21.42               | 22±1                   |
|          |       |             |       | 1                | 14           | 0   | 21.29               | 22±1                   |
|          |       |             |       | 8                | 0            | 1   | 21.35               | 22±1                   |
|          |       |             |       | 8                | 4            | 1   | 21.55               | 22±1                   |
|          |       |             |       | 8                | 7            | 1   | 21.15               | 22±1                   |
|          |       |             |       | 15               | 0            | 1   | 21.06               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.26               | 21.3±1                 |
|          |       |             |       | 1                | 7            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 1                | 14           | 1   | 21.19               | 21.3±1                 |
|          |       |             |       | 8                | 0            | 2   | 21.09               | 21.3±1                 |
|          |       |             |       | 8                | 4            | 2   | 21.08               | 21.3±1                 |
|          |       |             |       | 8                | 7            | 2   | 21.11               | 21.3±1                 |
|          |       |             |       | 15               | 0            | 2   | 20.71               | 21.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 23017 | 699.7          | QPSK  | 1                   | 0               | 0   | <b>21.53</b>              | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 0   | 21.35                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 0   | 21.42                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 0   | 21.36                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 0   | 21.24                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 0   | 21.20                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 1   | 20.68                     | 21.3±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.34                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.36                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.29                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.33                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.06                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.05                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.85                     | 21.3±1                       |
|             | 23095 | 707.5          | QPSK  | 1                   | 0               | 0   | 21.43                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 0   | 21.44                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 0   | 21.37                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 0   | 21.26                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 0   | 21.28                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 0   | 21.22                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 1   | 20.91                     | 21.3±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.35                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.42                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.39                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.15                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.16                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.08                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.85                     | 21.3±1                       |
|             | 23173 | 715.3          | QPSK  | 1                   | 0               | 0   | 21.43                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 0   | 21.37                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 0   | 21.29                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 0   | 21.16                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 0   | 21.13                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 0   | 21.75                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 1   | 20.88                     | 21.3±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.53                     | 21.3±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.41                     | 21.3±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.42                     | 21.3±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.35                     | 21.3±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.38                     | 21.3±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.36                     | 21.3±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.99                     | 21.3±1                       |

LTE Band 17:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 23780 | 709.0       | QPSK  | 1                | 0            | 0   | 21.51               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.51               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.35               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.26               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.28               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.81               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.50               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.52               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.51               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.33               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.26               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.86               | 21.3±1                 |
|          | 23790 | 701.0       | QPSK  | 1                | 0            | 0   | 21.46               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.45               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.35               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.29               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.31               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.86               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.51               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.46               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.45               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.33               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.34               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.88               | 21.3±1                 |
|          | 23800 | 711.0       | QPSK  | 1                | 0            | 0   | 21.45               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.48               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.38               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.40               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.35               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.38               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.95               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.53               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | <b>21.54</b>        | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.45               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.28               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.27               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.53               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.80               | 21.3±1                 |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 5MHz     | 23755 | 706.5       | QPSK  | 1                | 0            | 0   | 22.05               | 22±1                   |
|          |       |             |       | 1                | 12           | 0   | 21.56               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 21.49               | 22±1                   |
|          |       |             |       | 12               | 0            | 1   | 21.35               | 22±1                   |
|          |       |             |       | 12               | 6            | 1   | 21.26               | 22±1                   |
|          |       |             |       | 12               | 11           | 1   | 21.25               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.16               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | <b>22.13</b>        | 22±1                   |
|          |       |             |       | 1                | 12           | 1   | 21.52               | 22±1                   |
|          |       |             |       | 1                | 24           | 1   | 21.43               | 22±1                   |
|          |       |             |       | 12               | 0            | 2   | 21.36               | 22±1                   |
|          |       |             |       | 12               | 6            | 2   | 21.29               | 22±1                   |
|          |       |             |       | 12               | 11           | 2   | 21.22               | 22±1                   |
|          |       |             |       | 25               | 0            | 2   | 21.15               | 22±1                   |
|          | 23790 | 710.0       | QPSK  | 1                | 0            | 0   | 21.63               | 22±1                   |
|          |       |             |       | 1                | 12           | 0   | 21.53               | 22±1                   |
|          |       |             |       | 1                | 24           | 0   | 21.44               | 22±1                   |
|          |       |             |       | 12               | 0            | 1   | 21.24               | 22±1                   |
|          |       |             |       | 12               | 6            | 1   | 21.23               | 22±1                   |
|          |       |             |       | 12               | 11           | 1   | 21.33               | 22±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.22               | 22±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.35               | 22±1                   |
|          |       |             |       | 1                | 12           | 1   | 21.32               | 22±1                   |
|          |       |             |       | 1                | 24           | 1   | 21.26               | 22±1                   |
|          |       |             |       | 12               | 0            | 2   | 21.29               | 22±1                   |
|          |       |             |       | 12               | 6            | 2   | 21.25               | 22±1                   |
|          |       |             |       | 12               | 11           | 2   | 21.31               | 22±1                   |
|          |       |             |       | 25               | 0            | 2   | 21.08               | 22±1                   |
|          | 23825 | 713.5       | QPSK  | 1                | 0            | 0   | 22.06               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 0   | 21.71               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.61               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 1   | 21.36               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 1   | 21.42               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.91               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.43               | 21.3±1                 |
|          |       |             |       | 1                | 12           | 1   | 21.55               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.46               | 21.3±1                 |
|          |       |             |       | 12               | 0            | 2   | 21.35               | 21.3±1                 |
|          |       |             |       | 12               | 6            | 2   | 21.29               | 21.3±1                 |
|          |       |             |       | 12               | 11           | 2   | 21.30               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.01               | 21.3±1                 |

## ERP & EIRP

### EIRP for LTE Band 2 (Part 24E)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 1850.7          | 1.4      | QPSK       | 1/0            | 9.71                    | V                    | 7.88                          | 0.85            | 16.74                | 33.01       |
| 1880            | 1.4      | QPSK       | 1/0            | 9.83                    | V                    | 7.88                          | 0.85            | 16.86                | 33.01       |
| 1909.3          | 1.4      | QPSK       | 1/0            | 9.69                    | V                    | 7.88                          | 0.85            | 16.72                | 33.01       |
| 1850.7          | 1.4      | QPSK       | 1/0            | 8.14                    | H                    | 7.88                          | 0.85            | 15.17                | 33.01       |
| 1880            | 1.4      | QPSK       | 1/0            | 8.07                    | H                    | 7.88                          | 0.85            | 15.10                | 33.01       |
| 1909.3          | 1.4      | QPSK       | 1/0            | 8.12                    | H                    | 7.88                          | 0.85            | 15.15                | 33.01       |
| 1850.7          | 1.4      | 16-QAM     | 1/0            | 9.28                    | V                    | 7.88                          | 0.85            | 16.31                | 33.01       |
| 1880            | 1.4      | 16-QAM     | 1/0            | 9.19                    | V                    | 7.88                          | 0.85            | 16.22                | 33.01       |
| 1909.3          | 1.4      | 16-QAM     | 1/0            | 9.24                    | V                    | 7.88                          | 0.85            | 16.27                | 33.01       |
| 1850.7          | 1.4      | 16-QAM     | 1/0            | 7.96                    | H                    | 7.88                          | 0.85            | 14.99                | 33.01       |
| 1880            | 1.4      | 16-QAM     | 1/0            | 8.01                    | H                    | 7.88                          | 0.85            | 15.04                | 33.01       |
| 1909.3          | 1.4      | 16-QAM     | 1/0            | 7.95                    | H                    | 7.88                          | 0.85            | 14.98                | 33.01       |
| 1851.5          | 3        | QPSK       | 1/0            | 9.82                    | V                    | 7.88                          | 0.85            | 16.85                | 33.01       |
| 1880            | 3        | QPSK       | 1/0            | 9.77                    | V                    | 7.88                          | 0.85            | 16.80                | 33.01       |
| 1908.5          | 3        | QPSK       | 1/0            | 9.84                    | V                    | 7.88                          | 0.85            | 16.87                | 33.01       |
| 1851.5          | 3        | QPSK       | 1/0            | 8.36                    | H                    | 7.88                          | 0.85            | 15.39                | 33.01       |
| 1880            | 3        | QPSK       | 1/0            | 8.39                    | H                    | 7.88                          | 0.85            | 15.42                | 33.01       |
| 1908.5          | 3        | QPSK       | 1/0            | 8.41                    | H                    | 7.88                          | 0.85            | 15.44                | 33.01       |
| 1851.5          | 3        | 16-QAM     | 1/0            | 9.38                    | V                    | 7.88                          | 0.85            | 16.41                | 33.01       |
| 1880            | 3        | 16-QAM     | 1/0            | 9.41                    | V                    | 7.88                          | 0.85            | 16.44                | 33.01       |
| 1908.5          | 3        | 16-QAM     | 1/0            | 9.38                    | V                    | 7.88                          | 0.85            | 16.41                | 33.01       |
| 1851.5          | 3        | 16-QAM     | 1/0            | 8.56                    | H                    | 7.88                          | 0.85            | 15.59                | 33.01       |
| 1880            | 3        | 16-QAM     | 1/0            | 8.63                    | H                    | 7.88                          | 0.85            | 15.66                | 33.01       |
| 1908.5          | 3        | 16-QAM     | 1/0            | 8.59                    | H                    | 7.88                          | 0.85            | 15.62                | 33.01       |
| 1852.5          | 5        | QPSK       | 1/24           | 9.91                    | V                    | 7.88                          | 0.85            | 16.94                | 33.01       |
| 1880            | 5        | QPSK       | 1/0            | 9.87                    | V                    | 7.88                          | 0.85            | 16.90                | 33.01       |
| 1907.5          | 5        | QPSK       | 1/24           | 9.94                    | V                    | 7.88                          | 0.85            | <b>16.97</b>         | 33.01       |
| 1852.5          | 5        | QPSK       | 1/24           | 8.24                    | H                    | 7.88                          | 0.85            | 15.27                | 33.01       |
| 1880            | 5        | QPSK       | 1/0            | 8.29                    | H                    | 7.88                          | 0.85            | 15.32                | 33.01       |
| 1907.5          | 5        | QPSK       | 1/24           | 8.18                    | H                    | 7.88                          | 0.85            | 15.21                | 33.01       |
| 1852.5          | 5        | 16-QAM     | 1/24           | 9.14                    | V                    | 7.88                          | 0.85            | 16.17                | 33.01       |
| 1880            | 5        | 16-QAM     | 1/0            | 9.22                    | V                    | 7.88                          | 0.85            | 16.25                | 33.01       |

|        |    |        |      |      |   |      |      |       |       |
|--------|----|--------|------|------|---|------|------|-------|-------|
| 1907.5 | 5  | 16-QAM | 1/24 | 9.16 | V | 7.88 | 0.85 | 16.19 | 33.01 |
| 1852.5 | 5  | 16-QAM | 1/24 | 8.35 | H | 7.88 | 0.85 | 15.38 | 33.01 |
| 1880   | 5  | 16-QAM | 1/0  | 8.44 | H | 7.88 | 0.85 | 15.47 | 33.01 |
| 1907.5 | 5  | 16-QAM | 1/24 | 8.38 | H | 7.88 | 0.85 | 15.41 | 33.01 |
| 1855   | 10 | QPSK   | 1/0  | 9.77 | V | 7.88 | 0.85 | 16.80 | 33.01 |
| 1880   | 10 | QPSK   | 1/0  | 9.73 | V | 7.88 | 0.85 | 16.76 | 33.01 |
| 1905   | 10 | QPSK   | 1/49 | 9.74 | V | 7.88 | 0.85 | 16.77 | 33.01 |
| 1855   | 10 | QPSK   | 1/0  | 8.15 | H | 7.88 | 0.85 | 15.18 | 33.01 |
| 1880   | 10 | QPSK   | 1/0  | 8.23 | H | 7.88 | 0.85 | 15.26 | 33.01 |
| 1905   | 10 | QPSK   | 1/49 | 8.17 | H | 7.88 | 0.85 | 15.20 | 33.01 |
| 1855   | 10 | 16-QAM | 1/0  | 9.18 | V | 7.88 | 0.85 | 16.21 | 33.01 |
| 1880   | 10 | 16-QAM | 1/0  | 9.15 | V | 7.88 | 0.85 | 16.18 | 33.01 |
| 1905   | 10 | 16-QAM | 1/49 | 9.24 | V | 7.88 | 0.85 | 16.27 | 33.01 |
| 1855   | 10 | 16-QAM | 1/0  | 7.63 | H | 7.88 | 0.85 | 14.66 | 33.01 |
| 1880   | 10 | 16-QAM | 1/0  | 7.68 | H | 7.88 | 0.85 | 14.71 | 33.01 |
| 1905   | 10 | 16-QAM | 1/49 | 7.59 | H | 7.88 | 0.85 | 14.62 | 33.01 |
| 1857.5 | 15 | QPSK   | 1/0  | 9.84 | V | 7.88 | 0.85 | 16.87 | 33.01 |
| 1880   | 15 | QPSK   | 1/0  | 9.76 | V | 7.88 | 0.85 | 16.79 | 33.01 |
| 1902.5 | 15 | QPSK   | 1/0  | 9.85 | V | 7.88 | 0.85 | 16.88 | 33.01 |
| 1857.5 | 15 | QPSK   | 1/0  | 8.59 | H | 7.88 | 0.85 | 15.62 | 33.01 |
| 1880   | 15 | QPSK   | 1/0  | 8.62 | H | 7.88 | 0.85 | 15.65 | 33.01 |
| 1902.5 | 15 | QPSK   | 1/0  | 8.54 | H | 7.88 | 0.85 | 15.57 | 33.01 |
| 1857.5 | 15 | 16-QAM | 1/0  | 9.33 | V | 7.88 | 0.85 | 16.36 | 33.01 |
| 1880   | 15 | 16-QAM | 1/0  | 9.26 | V | 7.88 | 0.85 | 16.29 | 33.01 |
| 1902.5 | 15 | 16-QAM | 1/0  | 9.31 | V | 7.88 | 0.85 | 16.34 | 33.01 |
| 1857.5 | 15 | 16-QAM | 1/0  | 8.64 | H | 7.88 | 0.85 | 15.67 | 33.01 |
| 1880   | 15 | 16-QAM | 1/0  | 8.55 | H | 7.88 | 0.85 | 15.58 | 33.01 |
| 1902.5 | 15 | 16-QAM | 1/0  | 8.62 | H | 7.88 | 0.85 | 15.65 | 33.01 |
| 1860   | 20 | QPSK   | 1/0  | 9.68 | V | 7.88 | 0.85 | 16.71 | 33.01 |
| 1880   | 20 | QPSK   | 1/0  | 9.71 | V | 7.88 | 0.85 | 16.74 | 33.01 |
| 1900   | 20 | QPSK   | 1/0  | 9.73 | V | 7.88 | 0.85 | 16.76 | 33.01 |
| 1860   | 20 | QPSK   | 1/0  | 8.25 | H | 7.88 | 0.85 | 15.28 | 33.01 |
| 1880   | 20 | QPSK   | 1/0  | 8.37 | H | 7.88 | 0.85 | 15.40 | 33.01 |
| 1900   | 20 | QPSK   | 1/0  | 8.19 | H | 7.88 | 0.85 | 15.22 | 33.01 |
| 1860   | 20 | 16-QAM | 1/0  | 9.33 | V | 7.88 | 0.85 | 16.36 | 33.01 |
| 1880   | 20 | 16-QAM | 1/0  | 9.42 | V | 7.88 | 0.85 | 16.45 | 33.01 |
| 1900   | 20 | 16-QAM | 1/0  | 9.38 | V | 7.88 | 0.85 | 16.41 | 33.01 |
| 1860   | 20 | 16-QAM | 1/0  | 8.26 | H | 7.88 | 0.85 | 15.29 | 33.01 |

|             |                 |
|-------------|-----------------|
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|      |    |        |     |      |   |      |      |       |       |
|------|----|--------|-----|------|---|------|------|-------|-------|
| 1880 | 20 | 16-QAM | 1/0 | 8.33 | H | 7.88 | 0.85 | 15.36 | 33.01 |
| 1900 | 20 | 16-QAM | 1/0 | 8.28 | H | 7.88 | 0.85 | 15.31 | 33.01 |

### EIRP for LTE Band 4 (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 1710.7          | 1.4      | QPSK       | 1/0            | 10.01                   | V                    | 7.95                          | 0.79            | <b>17.17</b>         | 30          |
| 1732.5          | 1.4      | QPSK       | 1/0            | 9.96                    | V                    | 7.95                          | 0.79            | 17.12                | 30          |
| 1754.3          | 1.4      | QPSK       | 1/0            | 9.99                    | V                    | 7.95                          | 0.79            | 17.15                | 30          |
| 1710.7          | 1.4      | QPSK       | 1/0            | 8.83                    | H                    | 7.95                          | 0.79            | 15.99                | 30          |
| 1732.5          | 1.4      | QPSK       | 1/0            | 8.75                    | H                    | 7.95                          | 0.79            | 15.91                | 30          |
| 1754.3          | 1.4      | QPSK       | 1/0            | 8.82                    | H                    | 7.95                          | 0.79            | 15.98                | 30          |
| 1710.7          | 1.4      | 16-QAM     | 1/5            | 9.78                    | V                    | 7.95                          | 0.79            | 16.94                | 30          |
| 1732.5          | 1.4      | 16-QAM     | 1/0            | 9.69                    | V                    | 7.95                          | 0.79            | 16.85                | 30          |
| 1754.3          | 1.4      | 16-QAM     | 1/0            | 9.75                    | V                    | 7.95                          | 0.79            | 16.91                | 30          |
| 1710.7          | 1.4      | 16-QAM     | 1/5            | 8.37                    | H                    | 7.95                          | 0.79            | 15.53                | 30          |
| 1732.5          | 1.4      | 16-QAM     | 1/0            | 8.29                    | H                    | 7.95                          | 0.79            | 15.45                | 30          |
| 1754.3          | 1.4      | 16-QAM     | 1/0            | 8.35                    | H                    | 7.95                          | 0.79            | 15.51                | 30          |
| 1711.5          | 3        | QPSK       | 1/0            | 9.88                    | V                    | 7.95                          | 0.79            | 17.04                | 30          |
| 1732.5          | 3        | QPSK       | 1/0            | 9.92                    | V                    | 7.95                          | 0.79            | 17.08                | 30          |
| 1753.5          | 3        | QPSK       | 1/0            | 9.95                    | V                    | 7.95                          | 0.79            | 17.11                | 30          |
| 1711.5          | 3        | QPSK       | 1/0            | 8.46                    | H                    | 7.95                          | 0.79            | 15.62                | 30          |
| 1732.5          | 3        | QPSK       | 1/0            | 8.39                    | H                    | 7.95                          | 0.79            | 15.55                | 30          |
| 1753.5          | 3        | QPSK       | 1/0            | 8.41                    | H                    | 7.95                          | 0.79            | 15.57                | 30          |
| 1711.5          | 3        | 16-QAM     | 1/0            | 9.36                    | V                    | 7.95                          | 0.79            | 16.52                | 30          |
| 1732.5          | 3        | 16-QAM     | 1/0            | 9.44                    | V                    | 7.95                          | 0.79            | 16.60                | 30          |
| 1753.5          | 3        | 16-QAM     | 1/0            | 9.48                    | V                    | 7.95                          | 0.79            | 16.64                | 30          |
| 1711.5          | 3        | 16-QAM     | 1/0            | 8.22                    | H                    | 7.95                          | 0.79            | 15.38                | 30          |
| 1732.5          | 3        | 16-QAM     | 1/0            | 8.26                    | H                    | 7.95                          | 0.79            | 15.42                | 30          |
| 1753.5          | 3        | 16-QAM     | 1/0            | 8.31                    | H                    | 7.95                          | 0.79            | 15.47                | 30          |
| 1712.5          | 5        | QPSK       | 1/0            | 9.78                    | V                    | 7.95                          | 0.79            | 16.94                | 30          |
| 1732.5          | 5        | QPSK       | 1/0            | 9.71                    | V                    | 7.95                          | 0.79            | 16.87                | 30          |
| 1752.5          | 5        | QPSK       | 1/24           | 9.65                    | V                    | 7.95                          | 0.79            | 16.81                | 30          |
| 1712.5          | 5        | QPSK       | 1/0            | 8.36                    | H                    | 7.95                          | 0.79            | 15.52                | 30          |
| 1732.5          | 5        | QPSK       | 1/0            | 8.44                    | H                    | 7.95                          | 0.79            | 15.60                | 30          |
| 1752.5          | 5        | QPSK       | 1/24           | 8.32                    | H                    | 7.95                          | 0.79            | 15.48                | 30          |
| 1712.5          | 5        | 16-QAM     | 1/0            | 9.46                    | V                    | 7.95                          | 0.79            | 16.62                | 30          |
| 1732.5          | 5        | 16-QAM     | 1/0            | 9.38                    | V                    | 7.95                          | 0.79            | 16.54                | 30          |
| 1752.5          | 5        | 16-QAM     | 1/24           | 9.42                    | V                    | 7.95                          | 0.79            | 16.58                | 30          |

|        |    |        |      |      |   |      |      |       |    |
|--------|----|--------|------|------|---|------|------|-------|----|
| 1712.5 | 5  | 16-QAM | 1/0  | 7.99 | H | 7.95 | 0.79 | 15.15 | 30 |
| 1732.5 | 5  | 16-QAM | 1/0  | 8.15 | H | 7.95 | 0.79 | 15.31 | 30 |
| 1752.5 | 5  | 16-QAM | 1/24 | 8.04 | H | 7.95 | 0.79 | 15.20 | 30 |
| 1715   | 10 | QPSK   | 1/0  | 9.66 | V | 7.95 | 0.79 | 16.82 | 30 |
| 1732.5 | 10 | QPSK   | 1/49 | 9.58 | V | 7.95 | 0.79 | 16.74 | 30 |
| 1750   | 10 | QPSK   | 1/0  | 9.53 | V | 7.95 | 0.79 | 16.69 | 30 |
| 1715   | 10 | QPSK   | 1/0  | 8.27 | H | 7.95 | 0.79 | 15.43 | 30 |
| 1732.5 | 10 | QPSK   | 1/49 | 8.33 | H | 7.95 | 0.79 | 15.49 | 30 |
| 1750   | 10 | QPSK   | 1/0  | 8.19 | H | 7.95 | 0.79 | 15.35 | 30 |
| 1715   | 10 | 16-QAM | 1/0  | 9.23 | V | 7.95 | 0.79 | 16.39 | 30 |
| 1732.5 | 10 | 16-QAM | 1/49 | 9.31 | V | 7.95 | 0.79 | 16.47 | 30 |
| 1750   | 10 | 16-QAM | 1/0  | 9.25 | V | 7.95 | 0.79 | 16.41 | 30 |
| 1715   | 10 | 16-QAM | 1/0  | 8.09 | H | 7.95 | 0.79 | 15.25 | 30 |
| 1732.5 | 10 | 16-QAM | 1/49 | 8.11 | H | 7.95 | 0.79 | 15.27 | 30 |
| 1750   | 10 | 16-QAM | 1/0  | 8.17 | H | 7.95 | 0.79 | 15.33 | 30 |
| 1717.5 | 15 | QPSK   | 1/0  | 9.52 | V | 7.95 | 0.79 | 16.68 | 30 |
| 1732.5 | 15 | QPSK   | 1/74 | 9.47 | V | 7.95 | 0.79 | 16.63 | 30 |
| 1747.5 | 15 | QPSK   | 1/0  | 9.53 | V | 7.95 | 0.79 | 16.69 | 30 |
| 1717.5 | 15 | QPSK   | 1/0  | 8.33 | H | 7.95 | 0.79 | 15.49 | 30 |
| 1732.5 | 15 | QPSK   | 1/74 | 8.26 | H | 7.95 | 0.79 | 15.42 | 30 |
| 1747.5 | 15 | QPSK   | 1/0  | 8.31 | H | 7.95 | 0.79 | 15.47 | 30 |
| 1717.5 | 15 | 16-QAM | 1/0  | 9.25 | V | 7.95 | 0.79 | 16.41 | 30 |
| 1732.5 | 15 | 16-QAM | 1/74 | 9.16 | V | 7.95 | 0.79 | 16.32 | 30 |
| 1747.5 | 15 | 16-QAM | 1/0  | 9.17 | V | 7.95 | 0.79 | 16.33 | 30 |
| 1717.5 | 15 | 16-QAM | 1/0  | 7.85 | H | 7.95 | 0.79 | 15.01 | 30 |
| 1732.5 | 15 | 16-QAM | 1/74 | 7.93 | H | 7.95 | 0.79 | 15.09 | 30 |
| 1747.5 | 15 | 16-QAM | 1/0  | 7.91 | H | 7.95 | 0.79 | 15.07 | 30 |
| 1720   | 20 | QPSK   | 1/99 | 9.64 | V | 7.95 | 0.79 | 16.80 | 30 |
| 1732.5 | 20 | QPSK   | 1/99 | 9.57 | V | 7.95 | 0.79 | 16.73 | 30 |
| 1745   | 20 | QPSK   | 1/0  | 9.61 | V | 7.95 | 0.79 | 16.77 | 30 |
| 1720   | 20 | QPSK   | 1/99 | 8.83 | H | 7.95 | 0.79 | 15.99 | 30 |
| 1732.5 | 20 | QPSK   | 1/99 | 8.75 | H | 7.95 | 0.79 | 15.91 | 30 |
| 1745   | 20 | QPSK   | 1/0  | 8.81 | H | 7.95 | 0.79 | 15.97 | 30 |
| 1720   | 20 | 16-QAM | 1/99 | 9.12 | V | 7.95 | 0.79 | 16.28 | 30 |
| 1732.5 | 20 | 16-QAM | 1/99 | 9.08 | V | 7.95 | 0.79 | 16.24 | 30 |
| 1745   | 20 | 16-QAM | 1/0  | 9.15 | V | 7.95 | 0.79 | 16.31 | 30 |
| 1720   | 20 | 16-QAM | 1/99 | 7.96 | H | 7.95 | 0.79 | 15.12 | 30 |
| 1732.5 | 20 | 16-QAM | 1/99 | 7.93 | H | 7.95 | 0.79 | 15.09 | 30 |

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|      |    |        |     |      |   |      |      |       |    |
|------|----|--------|-----|------|---|------|------|-------|----|
| 1745 | 20 | 16-QAM | 1/0 | 8.02 | H | 7.95 | 0.79 | 15.18 | 30 |
|------|----|--------|-----|------|---|------|------|-------|----|

### EIRP for LTE Band 5 (Part 22)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 824.7           | 1.4      | QPSK       | 1/5            | 9.83                    | V                    | 6.8                           | 0.44            | 16.19                | 34.77       |
| 836.5           | 1.4      | QPSK       | 1/5            | 9.86                    | V                    | 6.8                           | 0.44            | 16.22                | 34.77       |
| 848.3           | 1.4      | QPSK       | 1/5            | 9.78                    | V                    | 6.9                           | 0.44            | 16.24                | 34.77       |
| 824.7           | 1.4      | QPSK       | 1/5            | 8.25                    | H                    | 6.8                           | 0.44            | 14.61                | 34.77       |
| 836.5           | 1.4      | QPSK       | 1/5            | 8.33                    | H                    | 6.8                           | 0.44            | 14.69                | 34.77       |
| 848.3           | 1.4      | QPSK       | 1/5            | 8.17                    | H                    | 6.9                           | 0.44            | 14.63                | 34.77       |
| 824.7           | 1.4      | 16-QAM     | 1/5            | 9.41                    | V                    | 6.8                           | 0.44            | 15.77                | 34.77       |
| 836.5           | 1.4      | 16-QAM     | 1/5            | 9.38                    | V                    | 6.8                           | 0.44            | 15.74                | 34.77       |
| 848.3           | 1.4      | 16-QAM     | 1/5            | 9.45                    | V                    | 6.9                           | 0.44            | 15.91                | 34.77       |
| 824.7           | 1.4      | 16-QAM     | 1/5            | 8.13                    | H                    | 6.8                           | 0.44            | 14.49                | 34.77       |
| 836.5           | 1.4      | 16-QAM     | 1/5            | 8.06                    | H                    | 6.8                           | 0.44            | 14.42                | 34.77       |
| 848.3           | 1.4      | 16-QAM     | 1/5            | 8.14                    | H                    | 6.9                           | 0.44            | 14.60                | 34.77       |
| 825.5           | 3        | QPSK       | 1/14           | 10.13                   | V                    | 6.8                           | 0.44            | 16.49                | 34.77       |
| 836.5           | 3        | QPSK       | 1/0            | 10.16                   | V                    | 6.8                           | 0.44            | 16.52                | 34.77       |
| 847.5           | 3        | QPSK       | 1/14           | 10.08                   | V                    | 6.9                           | 0.44            | 16.54                | 34.77       |
| 825.5           | 3        | QPSK       | 1/14           | 9.35                    | H                    | 6.8                           | 0.44            | 15.71                | 34.77       |
| 836.5           | 3        | QPSK       | 1/0            | 9.41                    | H                    | 6.8                           | 0.44            | 15.77                | 34.77       |
| 847.5           | 3        | QPSK       | 1/14           | 9.32                    | H                    | 6.9                           | 0.44            | 15.78                | 34.77       |
| 825.5           | 3        | 16-QAM     | 1/14           | 9.58                    | V                    | 6.8                           | 0.44            | 15.94                | 34.77       |
| 836.5           | 3        | 16-QAM     | 1/0            | 9.62                    | V                    | 6.8                           | 0.44            | 15.98                | 34.77       |
| 847.5           | 3        | 16-QAM     | 1/14           | 9.67                    | V                    | 6.9                           | 0.44            | 16.13                | 34.77       |
| 825.5           | 3        | 16-QAM     | 1/14           | 8.49                    | H                    | 6.8                           | 0.44            | 14.85                | 34.77       |
| 836.5           | 3        | 16-QAM     | 1/0            | 8.52                    | H                    | 6.8                           | 0.44            | 14.88                | 34.77       |
| 847.5           | 3        | 16-QAM     | 1/14           | 8.57                    | H                    | 6.9                           | 0.44            | 15.03                | 34.77       |
| 826.5           | 5        | QPSK       | 1/24           | 10.19                   | V                    | 6.8                           | 0.44            | 16.55                | 34.77       |
| 836.5           | 5        | QPSK       | 1/24           | 10.22                   | V                    | 6.8                           | 0.44            | 16.58                | 34.77       |
| 846.5           | 5        | QPSK       | 1/24           | 10.17                   | V                    | 6.8                           | 0.44            | 16.53                | 34.77       |
| 826.5           | 5        | QPSK       | 1/24           | 9.46                    | H                    | 6.8                           | 0.44            | 15.82                | 34.77       |
| 836.5           | 5        | QPSK       | 1/24           | 9.55                    | H                    | 6.8                           | 0.44            | 15.91                | 34.77       |
| 846.5           | 5        | QPSK       | 1/24           | 9.47                    | H                    | 6.8                           | 0.44            | 15.83                | 34.77       |
| 826.5           | 5        | 16-QAM     | 1/24           | 9.67                    | V                    | 6.8                           | 0.44            | 16.03                | 34.77       |
| 836.5           | 5        | 16-QAM     | 1/24           | 9.74                    | V                    | 6.8                           | 0.44            | 16.10                | 34.77       |
| 846.5           | 5        | 16-QAM     | 1/24           | 9.66                    | V                    | 6.8                           | 0.44            | 16.02                | 34.77       |

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|       |    |        |      |       |   |     |      |              |       |
|-------|----|--------|------|-------|---|-----|------|--------------|-------|
| 826.5 | 5  | 16-QAM | 1/24 | 8.56  | H | 6.8 | 0.44 | 14.92        | 34.77 |
| 836.5 | 5  | 16-QAM | 1/24 | 8.62  | H | 6.8 | 0.44 | 14.98        | 34.77 |
| 846.5 | 5  | 16-QAM | 1/24 | 8.58  | H | 6.8 | 0.44 | 14.94        | 34.77 |
| 829   | 10 | QPSK   | 1/49 | 10.75 | V | 6.8 | 0.44 | 17.11        | 34.77 |
| 836.5 | 10 | QPSK   | 1/49 | 10.82 | V | 6.8 | 0.44 | <b>17.18</b> | 34.77 |
| 844   | 10 | QPSK   | 1/49 | 10.71 | V | 6.8 | 0.44 | 17.07        | 34.77 |
| 829   | 10 | QPSK   | 1/49 | 9.68  | H | 6.8 | 0.44 | 16.04        | 34.77 |
| 836.5 | 10 | QPSK   | 1/49 | 9.54  | H | 6.8 | 0.44 | 15.90        | 34.77 |
| 844   | 10 | QPSK   | 1/49 | 9.63  | H | 6.8 | 0.44 | 15.99        | 34.77 |
| 829   | 10 | 16-QAM | 1/49 | 10.26 | V | 6.8 | 0.44 | 16.62        | 34.77 |
| 836.5 | 10 | 16-QAM | 1/49 | 10.18 | V | 6.8 | 0.44 | 16.54        | 34.77 |
| 844   | 10 | 16-QAM | 1/49 | 10.24 | V | 6.8 | 0.44 | 16.60        | 34.77 |
| 829   | 10 | 16-QAM | 1/49 | 8.93  | H | 6.8 | 0.44 | 15.29        | 34.77 |
| 836.5 | 10 | 16-QAM | 1/49 | 8.87  | H | 6.8 | 0.44 | 15.23        | 34.77 |
| 844   | 10 | 16-QAM | 1/49 | 9.96  | H | 6.8 | 0.44 | 16.32        | 34.77 |

### ERP for LTE Band 7 (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 2502.5          | 5        | QPSK       | 1/0            | 8.66                    | V                    | 8.93                          | 0.83            | 16.76                | 30          |
| 2535            | 5        | QPSK       | 1/0            | 8.54                    | V                    | 8.93                          | 0.83            | 16.64                | 30          |
| 2567.5          | 5        | QPSK       | 1/24           | 8.57                    | V                    | 8.93                          | 0.83            | 16.67                | 30          |
| 2502.5          | 5        | QPSK       | 1/0            | 7.82                    | H                    | 8.93                          | 0.83            | 15.92                | 30          |
| 2535            | 5        | QPSK       | 1/0            | 7.89                    | H                    | 8.93                          | 0.83            | 15.99                | 30          |
| 2567.5          | 5        | QPSK       | 1/24           | 7.91                    | H                    | 8.93                          | 0.83            | 16.01                | 30          |
| 2502.5          | 5        | 16-QAM     | 1/0            | 8.11                    | V                    | 8.93                          | 0.83            | 16.21                | 30          |
| 2535            | 5        | 16-QAM     | 1/0            | 8.15                    | V                    | 8.93                          | 0.83            | 16.25                | 30          |
| 2567.5          | 5        | 16-QAM     | 1/24           | 8.23                    | V                    | 8.93                          | 0.83            | 16.33                | 30          |
| 2502.5          | 5        | 16-QAM     | 1/0            | 7.24                    | H                    | 8.93                          | 0.83            | 15.34                | 30          |
| 2535            | 5        | 16-QAM     | 1/0            | 7.33                    | H                    | 8.93                          | 0.83            | 15.43                | 30          |
| 2567.5          | 5        | 16-QAM     | 1/24           | 7.28                    | H                    | 8.93                          | 0.83            | 15.38                | 30          |
| 2505            | 10       | QPSK       | 1/0            | 8.62                    | V                    | 8.93                          | 0.83            | 16.72                | 30          |
| 2535            | 10       | QPSK       | 1/49           | 8.57                    | V                    | 8.93                          | 0.83            | 16.67                | 30          |
| 2565            | 10       | QPSK       | 1/0            | 8.52                    | V                    | 8.93                          | 0.83            | 16.62                | 30          |
| 2505            | 10       | QPSK       | 1/0            | 8.03                    | H                    | 8.93                          | 0.83            | 16.13                | 30          |
| 2535            | 10       | QPSK       | 1/49           | 8.14                    | H                    | 8.93                          | 0.83            | 16.24                | 30          |
| 2565            | 10       | QPSK       | 1/0            | 8.11                    | H                    | 8.93                          | 0.83            | 16.21                | 30          |
| 2505            | 10       | 16-QAM     | 1/0            | 8.29                    | V                    | 8.93                          | 0.83            | 16.39                | 30          |
| 2535            | 10       | 16-QAM     | 1/49           | 8.35                    | V                    | 8.93                          | 0.83            | 16.45                | 30          |
| 2565            | 10       | 16-QAM     | 1/0            | 8.26                    | V                    | 8.93                          | 0.83            | 16.36                | 30          |
| 2505            | 10       | 16-QAM     | 1/0            | 7.16                    | H                    | 8.93                          | 0.83            | 15.26                | 30          |
| 2535            | 10       | 16-QAM     | 1/49           | 7.22                    | H                    | 8.93                          | 0.83            | 15.32                | 30          |
| 2565            | 10       | 16-QAM     | 1/0            | 7.14                    | H                    | 8.93                          | 0.83            | 15.24                | 30          |
| 2507.5          | 15       | QPSK       | 1/0            | 8.74                    | V                    | 8.93                          | 0.83            | 16.84                | 30          |
| 2535            | 15       | QPSK       | 1/74           | 8.69                    | V                    | 8.93                          | 0.83            | 16.79                | 30          |
| 2562.5          | 15       | QPSK       | 1/0            | 8.78                    | V                    | 8.93                          | 0.83            | 16.88                | 30          |
| 2507.5          | 15       | QPSK       | 1/0            | 8.09                    | H                    | 8.93                          | 0.83            | 16.19                | 30          |
| 2535            | 15       | QPSK       | 1/74           | 8.12                    | H                    | 8.93                          | 0.83            | 16.22                | 30          |
| 2562.5          | 15       | QPSK       | 1/0            | 8.21                    | H                    | 8.93                          | 0.83            | 16.31                | 30          |
| 2507.5          | 15       | 16-QAM     | 1/0            | 8.35                    | V                    | 8.93                          | 0.83            | 16.45                | 30          |
| 2535            | 15       | 16-QAM     | 1/74           | 8.41                    | V                    | 8.93                          | 0.83            | 16.51                | 30          |
| 2562.5          | 15       | 16-QAM     | 1/0            | 8.37                    | V                    | 8.93                          | 0.83            | 16.47                | 30          |

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|--------|----|--------|------|------|---|------|------|--------------|----|
| 2507.5 | 15 | 16-QAM | 1/0  | 7.25 | H | 8.93 | 0.83 | 15.35        | 30 |
| 2535   | 15 | 16-QAM | 1/74 | 7.33 | H | 8.93 | 0.83 | 15.43        | 30 |
| 2562.5 | 15 | 16-QAM | 1/0  | 7.26 | H | 8.93 | 0.83 | 15.36        | 30 |
| 2510   | 20 | QPSK   | 1/99 | 8.84 | V | 8.93 | 0.83 | 16.94        | 30 |
| 2535   | 20 | QPSK   | 1/99 | 8.83 | V | 8.93 | 0.83 | 16.93        | 30 |
| 2560   | 20 | QPSK   | 1/0  | 8.87 | V | 8.93 | 0.83 | <b>16.97</b> | 30 |
| 2510   | 20 | QPSK   | 1/99 | 8.17 | H | 8.93 | 0.83 | 16.27        | 30 |
| 2535   | 20 | QPSK   | 1/99 | 8.21 | H | 8.93 | 0.83 | 16.31        | 30 |
| 2560   | 20 | QPSK   | 1/0  | 8.16 | H | 8.93 | 0.83 | 16.26        | 30 |
| 2510   | 20 | 16-QAM | 1/99 | 8.55 | V | 8.93 | 0.83 | 16.65        | 30 |
| 2535   | 20 | 16-QAM | 1/99 | 8.47 | V | 8.93 | 0.83 | 16.57        | 30 |
| 2560   | 20 | 16-QAM | 1/0  | 8.52 | V | 8.93 | 0.83 | 16.62        | 30 |
| 2510   | 20 | 16-QAM | 1/99 | 7.38 | H | 8.93 | 0.83 | 15.48        | 30 |
| 2535   | 20 | 16-QAM | 1/99 | 7.44 | H | 8.93 | 0.83 | 15.54        | 30 |
| 2560   | 20 | 16-QAM | 1/0  | 7.46 | H | 8.93 | 0.83 | 15.56        | 30 |

### ERP for LTE Band 12 (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 699.7           | 1.4      | QPSK       | 1/5            | 9.76                    | V                    | 6.9                           | 0.42            | <b>16.24</b>         | 34.77       |
| 707.5           | 1.4      | QPSK       | 1/5            | 9.58                    | V                    | 6.8                           | 0.42            | 15.96                | 34.77       |
| 715.3           | 1.4      | QPSK       | 1/5            | 9.64                    | V                    | 6.8                           | 0.42            | 16.02                | 34.77       |
| 699.7           | 1.4      | QPSK       | 1/5            | 8.65                    | H                    | 6.9                           | 0.42            | 15.13                | 34.77       |
| 707.5           | 1.4      | QPSK       | 1/5            | 8.78                    | H                    | 6.8                           | 0.42            | 15.16                | 34.77       |
| 715.3           | 1.4      | QPSK       | 1/5            | 8.49                    | H                    | 6.8                           | 0.42            | 14.87                | 34.77       |
| 699.7           | 1.4      | 16-QAM     | 1/5            | 8.95                    | V                    | 6.9                           | 0.42            | 15.43                | 34.77       |
| 707.5           | 1.4      | 16-QAM     | 1/5            | 8.99                    | V                    | 6.8                           | 0.42            | 15.37                | 34.77       |
| 715.3           | 1.4      | 16-QAM     | 1/5            | 9.03                    | V                    | 6.8                           | 0.42            | 15.41                | 34.77       |
| 699.7           | 1.4      | 16-QAM     | 1/5            | 7.66                    | H                    | 6.9                           | 0.42            | 14.14                | 34.77       |
| 707.5           | 1.4      | 16-QAM     | 1/5            | 7.74                    | H                    | 6.8                           | 0.42            | 14.12                | 34.77       |
| 715.3           | 1.4      | 16-QAM     | 1/5            | 7.79                    | H                    | 6.8                           | 0.42            | 14.17                | 34.77       |
| 700.5           | 3        | QPSK       | 1/14           | 9.68                    | V                    | 6.9                           | 0.42            | 16.16                | 34.77       |
| 707.5           | 3        | QPSK       | 1/0            | 9.63                    | V                    | 6.8                           | 0.42            | 16.01                | 34.77       |
| 714.5           | 3        | QPSK       | 1/14           | 9.74                    | V                    | 6.8                           | 0.42            | 16.12                | 34.77       |
| 700.5           | 3        | QPSK       | 1/14           | 8.52                    | H                    | 6.9                           | 0.42            | 15.00                | 34.77       |
| 707.5           | 3        | QPSK       | 1/0            | 8.64                    | H                    | 6.8                           | 0.42            | 15.02                | 34.77       |
| 714.5           | 3        | QPSK       | 1/14           | 8.57                    | H                    | 6.8                           | 0.42            | 14.95                | 34.77       |
| 700.5           | 3        | 16-QAM     | 1/14           | 9.16                    | V                    | 6.9                           | 0.42            | 15.64                | 34.77       |
| 707.5           | 3        | 16-QAM     | 1/0            | 9.24                    | V                    | 6.8                           | 0.42            | 15.62                | 34.77       |
| 714.5           | 3        | 16-QAM     | 1/14           | 9.18                    | V                    | 6.8                           | 0.42            | 15.56                | 34.77       |
| 700.5           | 3        | 16-QAM     | 1/14           | 7.62                    | H                    | 6.9                           | 0.42            | 14.10                | 34.77       |
| 707.5           | 3        | 16-QAM     | 1/0            | 7.55                    | H                    | 6.8                           | 0.42            | 13.93                | 34.77       |
| 714.5           | 3        | 16-QAM     | 1/14           | 7.64                    | H                    | 6.8                           | 0.42            | 14.02                | 34.77       |
| 701.5           | 5        | QPSK       | 1/24           | 9.58                    | V                    | 6.9                           | 0.42            | 16.06                | 34.77       |
| 707.5           | 5        | QPSK       | 1/24           | 9.62                    | V                    | 6.8                           | 0.42            | 16.00                | 34.77       |
| 713.5           | 5        | QPSK       | 1/24           | 9.57                    | V                    | 6.8                           | 0.42            | 15.95                | 34.77       |
| 701.5           | 5        | QPSK       | 1/24           | 8.53                    | H                    | 6.9                           | 0.42            | 15.01                | 34.77       |
| 707.5           | 5        | QPSK       | 1/24           | 8.66                    | H                    | 6.8                           | 0.42            | 15.04                | 34.77       |
| 713.5           | 5        | QPSK       | 1/24           | 8.57                    | H                    | 6.8                           | 0.42            | 14.95                | 34.77       |
| 701.5           | 5        | 16-QAM     | 1/24           | 8.96                    | V                    | 6.9                           | 0.42            | 15.44                | 34.77       |
| 707.5           | 5        | 16-QAM     | 1/24           | 8.93                    | V                    | 6.8                           | 0.42            | 15.31                | 34.77       |
| 713.5           | 5        | 16-QAM     | 1/24           | 9.07                    | V                    | 6.8                           | 0.42            | 15.45                | 34.77       |
| 701.5           | 5        | 16-QAM     | 1/24           | 7.86                    | H                    | 6.9                           | 0.42            | 14.34                | 34.77       |
| 707.5           | 5        | 16-QAM     | 1/24           | 7.92                    | H                    | 6.8                           | 0.42            | 14.30                | 34.77       |

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|-------|----|--------|------|------|---|-----|------|-------|-------|
| 713.5 | 5  | 16-QAM | 1/24 | 7.85 | H | 6.8 | 0.42 | 14.23 | 34.77 |
| 704   | 10 | QPSK   | 1/49 | 9.75 | V | 6.8 | 0.42 | 16.13 | 34.77 |
| 707.5 | 10 | QPSK   | 1/49 | 9.68 | V | 6.8 | 0.42 | 16.06 | 34.77 |
| 711   | 10 | QPSK   | 1/49 | 9.72 | V | 6.8 | 0.42 | 16.10 | 34.77 |
| 704   | 10 | QPSK   | 1/49 | 8.83 | H | 6.8 | 0.42 | 15.21 | 34.77 |
| 707.5 | 10 | QPSK   | 1/49 | 8.78 | H | 6.8 | 0.42 | 15.16 | 34.77 |
| 711   | 10 | QPSK   | 1/49 | 8.81 | H | 6.8 | 0.42 | 15.19 | 34.77 |
| 704   | 10 | 16-QAM | 1/49 | 9.13 | V | 6.8 | 0.42 | 15.51 | 34.77 |
| 707.5 | 10 | 16-QAM | 1/49 | 9.21 | V | 6.8 | 0.42 | 15.59 | 34.77 |
| 711   | 10 | 16-QAM | 1/49 | 9.18 | V | 6.8 | 0.42 | 15.56 | 34.77 |
| 704   | 10 | 16-QAM | 1/49 | 7.95 | H | 6.8 | 0.42 | 14.33 | 34.77 |
| 707.5 | 10 | 16-QAM | 1/49 | 7.86 | H | 6.8 | 0.42 | 14.24 | 34.77 |
| 711   | 10 | 16-QAM | 1/49 | 7.94 | H | 6.8 | 0.42 | 14.32 | 34.77 |

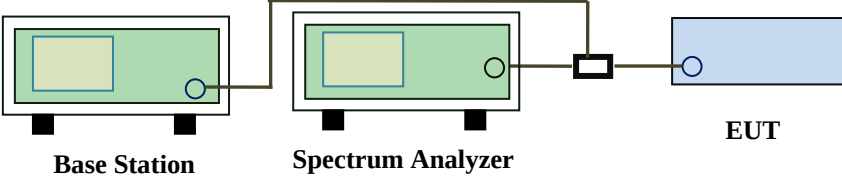
### ERP for LTE Band 17 (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 706.5           | 5        | QPSK       | 1/0            | 12.35                   | V                    | 6.8                           | 0.42            | 18.73                | 34.77       |
| 710             | 5        | QPSK       | 1/0            | 12.41                   | V                    | 6.8                           | 0.42            | <b>18.79</b>         | 34.77       |
| 713.5           | 5        | QPSK       | 1/0            | 12.39                   | V                    | 6.8                           | 0.42            | 18.77                | 34.77       |
| 706.5           | 5        | QPSK       | 1/0            | 11.16                   | H                    | 6.8                           | 0.42            | 17.54                | 34.77       |
| 710             | 5        | QPSK       | 1/0            | 11.24                   | H                    | 6.8                           | 0.42            | 17.62                | 34.77       |
| 713.5           | 5        | QPSK       | 1/0            | 11.18                   | H                    | 6.8                           | 0.42            | 17.56                | 34.77       |
| 706.5           | 5        | 16-QAM     | 1/0            | 11.85                   | V                    | 6.8                           | 0.42            | 18.23                | 34.77       |
| 710             | 5        | 16-QAM     | 1/0            | 11.92                   | V                    | 6.8                           | 0.42            | 18.30                | 34.77       |
| 713.5           | 5        | 16-QAM     | 1/0            | 11.87                   | V                    | 6.8                           | 0.42            | 18.25                | 34.77       |
| 706.5           | 5        | 16-QAM     | 1/0            | 10.62                   | H                    | 6.8                           | 0.42            | 17.00                | 34.77       |
| 710             | 5        | 16-QAM     | 1/0            | 10.57                   | H                    | 6.8                           | 0.42            | 16.95                | 34.77       |
| 713.5           | 5        | 16-QAM     | 1/0            | 10.66                   | H                    | 6.8                           | 0.42            | 17.04                | 34.77       |
| 709             | 10       | QPSK       | 1/0            | 9.85                    | V                    | 6.8                           | 0.42            | 16.23                | 34.77       |
| 710             | 10       | QPSK       | 1/0            | 9.79                    | V                    | 6.8                           | 0.42            | 16.17                | 34.77       |
| 711             | 10       | QPSK       | 1/0            | 9.88                    | V                    | 6.8                           | 0.42            | 16.26                | 34.77       |
| 709             | 10       | QPSK       | 1/0            | 8.33                    | H                    | 6.8                           | 0.42            | 14.71                | 34.77       |
| 710             | 10       | QPSK       | 1/0            | 8.41                    | H                    | 6.8                           | 0.42            | 14.79                | 34.77       |
| 711             | 10       | QPSK       | 1/0            | 8.46                    | H                    | 6.8                           | 0.42            | 14.84                | 34.77       |
| 709             | 10       | 16-QAM     | 1/0            | 9.14                    | V                    | 6.8                           | 0.42            | 15.52                | 34.77       |
| 710             | 10       | 16-QAM     | 1/0            | 9.26                    | V                    | 6.8                           | 0.42            | 15.64                | 34.77       |
| 711             | 10       | 16-QAM     | 1/0            | 9.18                    | V                    | 6.8                           | 0.42            | 15.56                | 34.77       |
| 709             | 10       | 16-QAM     | 1/0            | 8.27                    | H                    | 6.8                           | 0.42            | 14.65                | 34.77       |
| 710             | 10       | 16-QAM     | 1/0            | 8.34                    | H                    | 6.8                           | 0.42            | 14.72                | 34.77       |
| 711             | 10       | 16-QAM     | 1/0            | 8.25                    | H                    | 6.8                           | 0.42            | 14.63                | 34.77       |

### 6.3 Peak-Average Ratio

|                      |                 |
|----------------------|-----------------|
| Temperature          | 23°C            |
| Relative Humidity    | 58%             |
| Atmospheric Pressure | 1006mbar        |
| Test date :          | August 06, 2015 |
| Tested By :          | Winnie Zhang    |

Requirement(s):

| Spec                     | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Requirement                                                               | Applicable                          |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------|
| §24.232(d)<br>§ 27.50(d) | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. | <input checked="" type="checkbox"/> |
| Test Setup               |  <p style="text-align: center;">Base Station      Spectrum Analyzer      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                           |                                     |
| Test Procedure           | <p><b>According with KDB 971168</b></p> <ol style="list-style-type: none"> <li>1. The signal analyzer's CCDF measurement profile is enabled</li> <li>2. Frequency = carrier center frequency</li> <li>3. Measurement BW &gt; Emission bandwidth of signal</li> <li>4. The signal analyzer was set to collect one million samples to generate the CCDF curve</li> <li>5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (&gt;98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the " on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power</li> </ol> |                                                                           |                                     |
| Remark                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                     |
| Result                   | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           |                                     |

Test Data    ☒ Yes      ☐ N/A

Test Plot    ☐ Yes (See below)      ☒ N/A

### LTE Band 2 (part 24E)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 1.4     | 1880            | RB 1/0 | QPSK       | 25.66                 | 22.4    | 3.26                     |
|         |                 |        | 16QAM      | 24.32                 | 21.33   | 2.99                     |
| 3       | 1880            | RB 1/0 | QPSK       | 25.1                  | 22.35   | 2.75                     |
|         |                 |        | 16QAM      | 24.26                 | 21.32   | 2.94                     |
| 5       | 1880            | RB 1/0 | QPSK       | 25.32                 | 22.41   | 2.91                     |
|         |                 |        | 16QAM      | 25.2                  | 21.94   | 3.26                     |
| 10      | 1880            | RB 1/0 | QPSK       | 24.31                 | 22.27   | 2.04                     |
|         |                 |        | 16QAM      | 24.33                 | 22.07   | 2.26                     |
| 15      | 1880            | RB 1/0 | QPSK       | 25.12                 | 22.18   | 2.94                     |
|         |                 |        | 16QAM      | 25.26                 | 22.06   | 3.2                      |
| 20      | 1880            | RB 1/0 | QPSK       | 25.24                 | 22.41   | 2.83                     |
|         |                 |        | 16QAM      | 24.68                 | 21.93   | 2.75                     |

### LTE Band 4 (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 1.4     | 1732.5          | RB 1/0 | QPSK       | 25.12                 | 22.35   | 2.77                     |
|         |                 |        | 16QAM      | 25.13                 | 21.22   | 3.91                     |
| 3       | 1732.5          | RB 1/0 | QPSK       | 25.21                 | 22.26   | 2.95                     |
|         |                 |        | 16QAM      | 24.86                 | 21.23   | 3.63                     |
| 5       | 1732.5          | RB 1/0 | QPSK       | 24.86                 | 22.13   | 2.73                     |
|         |                 |        | 16QAM      | 25.34                 | 21.64   | 3.7                      |
| 10      | 1732.5          | RB 1/0 | QPSK       | 25.02                 | 22.03   | 2.99                     |
|         |                 |        | 16QAM      | 25.16                 | 21.47   | 3.69                     |
| 15      | 1732.5          | RB 1/0 | QPSK       | 25.09                 | 21.59   | 3.5                      |
|         |                 |        | 16QAM      | 24.88                 | 21.43   | 3.45                     |
| 20      | 1732.5          | RB 1/0 | QPSK       | 24.56                 | 21.69   | 2.87                     |
|         |                 |        | 16QAM      | 24.88                 | 22.01   | 2.87                     |

### LTE Band 7 (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 5       | 1880            | RB 1/0 | QPSK       | 25.16                 | 21.56   | 3.6                      |
|         |                 |        | 16QAM      | 25.34                 | 21.06   | 4.28                     |
| 10      | 1880            | RB 1/0 | QPSK       | 25.33                 | 21.75   | 3.58                     |
|         |                 |        | 16QAM      | 25.29                 | 21.45   | 3.84                     |
| 15      | 1880            | RB 1/0 | QPSK       | 25.43                 | 21.03   | 4.4                      |
|         |                 |        | 16QAM      | 25.15                 | 21.23   | 3.92                     |
| 20      | 1880            | RB 1/0 | QPSK       | 25.24                 | 21.68   | 3.56                     |
|         |                 |        | 16QAM      | 24.76                 | 21.03   | 3.73                     |

### LTE Band 12 (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 1.4     | 1732.5          | RB 1/0 | QPSK       | 25.1                  | 21.43   | 3.67                     |
|         |                 |        | 16QAM      | 25.24                 | 21.35   | 3.89                     |
| 3       | 1732.5          | RB 1/0 | QPSK       | 25.34                 | 21.43   | 3.91                     |
|         |                 |        | 16QAM      | 24.86                 | 21.24   | 3.62                     |
| 5       | 1732.5          | RB 1/0 | QPSK       | 24.95                 | 21.45   | 3.5                      |
|         |                 |        | 16QAM      | 25.12                 | 21.53   | 3.59                     |
| 10      | 1732.5          | RB 1/0 | QPSK       | 25.05                 | 21.85   | 3.2                      |
|         |                 |        | 16QAM      | 25.07                 | 21.23   | 3.84                     |

### LTE Band 17 (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 5       | 710             | RB 1/0 | QPSK       | 25.13                 | 21.63   | 3.5                      |
|         |                 |        | 16QAM      | 25.29                 | 21.35   | 3.94                     |
| 10      | 710             | RB 1/0 | QPSK       | 25.43                 | 21.46   | 3.97                     |
|         |                 |        | 16QAM      | 25.32                 | 21.51   | 3.81                     |

## 6.4 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H&24E& Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## 6.5 Occupied Bandwidth

|                      |                         |
|----------------------|-------------------------|
| Temperature          | 23°C                    |
| Relative Humidity    | 55%                     |
| Atmospheric Pressure | 1031mbar                |
| Test date :          | July 31-August 03, 2015 |
| Tested By :          | Winnie Zhang            |

### Requirement(s):

| Spec                                                    | Item                                                                                                                                                                                                                                     | Requirement                 | Applicable                          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|
| §2.1049,<br>§22.917,<br>§22.905<br>§24.238<br>§27.53(a) | a)                                                                                                                                                                                                                                       | 99% Occupied Bandwidth(kHz) | <input checked="" type="checkbox"/> |
|                                                         | b)                                                                                                                                                                                                                                       | 26 dB Bandwidth(kHz)        | <input checked="" type="checkbox"/> |
| Test Setup                                              | <p>Base Station      Spectrum Analyzer      EUT</p>                                                                                                                                                                                      |                             |                                     |
| Test Procedure                                          | <ul style="list-style-type: none"> <li>- The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>- The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.</li> </ul> |                             |                                     |
| Remark                                                  |                                                                                                                                                                                                                                          |                             |                                     |
| Result                                                  | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                   |                             |                                     |

Test Data    ☒ Yes      ☐ N/A

Test Plot    ☒ Yes (See below)      ☐ N/A

### LTE Band 2 (Part 24E)

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 18607   | 1850.7          | 16QAM      | 1.1073                       | 1.302                 |
|         |         |                 | QPSK       | 1.1043                       | 1.303                 |
| 1.4     | 18900   | 1880            | 16QAM      | 1.1038                       | 1.309                 |
|         |         |                 | QPSK       | 1.1032                       | 1.291                 |
| 1.4     | 19193   | 1909.3          | 16QAM      | 1.1031                       | 1.312                 |
|         |         |                 | QPSK       | 1.1082                       | 1.311                 |
| 3.0463  | 18615   | 1851.5          | 16QAM      | 2.7539                       | 3.046                 |
|         |         |                 | QPSK       | 2.7498                       | 3.044                 |
| 3       | 18900   | 1880            | 16QAM      | 2.7458                       | 3.042                 |
|         |         |                 | QPSK       | 2.7601                       | 3.016                 |
| 3       | 19185   | 1908.5          | 16QAM      | 2.7468                       | 3.067                 |
|         |         |                 | QPSK       | 2.7527                       | 3.050                 |
| 5       | 18625   | 1852.5          | 16QAM      | 4.5467                       | 5.075                 |
|         |         |                 | QPSK       | 4.5345                       | 5.076                 |
| 5       | 18900   | 1880            | 16QAM      | 4.5385                       | 5.077                 |
|         |         |                 | QPSK       | 4.5438                       | 5.109                 |
| 5       | 19175   | 1907.5          | 16QAM      | 4.5442                       | 5.114                 |
|         |         |                 | QPSK       | 4.5453                       | 5.084                 |
| 10      | 18650   | 1855            | 16QAM      | 9.1024                       | 10.18                 |
|         |         |                 | QPSK       | 9.0835                       | 10.17                 |
| 10      | 18900   | 1880            | 16QAM      | 9.1215                       | 10.08                 |
|         |         |                 | QPSK       | 9.1126                       | 10.18                 |
| 10      | 19150   | 1905            | 16QAM      | 9.1320                       | 10.17                 |
|         |         |                 | QPSK       | 9.1326                       | 10.22                 |
| 15      | 18675   | 1857.5          | 16QAM      | 13.519                       | 14.84                 |
|         |         |                 | QPSK       | 13.509                       | 14.86                 |
| 15      | 18900   | 1880            | 16QAM      | 13.545                       | 14.87                 |
|         |         |                 | QPSK       | 13.524                       | 14.92                 |
| 15      | 19125   | 1902.5          | 16QAM      | 13.578                       | 14.90                 |
|         |         |                 | QPSK       | 13.531                       | 14.81                 |

|    |       |      |       |        |       |
|----|-------|------|-------|--------|-------|
| 20 | 18700 | 1860 | 16QAM | 17.977 | 19.49 |
|    |       |      | QPSK  | 17.977 | 19.48 |
| 20 | 18900 | 1880 | 16QAM | 17.898 | 19.16 |
|    |       |      | QPSK  | 17.875 | 19.22 |
| 20 | 19100 | 1900 | 16QAM | 17.992 | 19.36 |
|    |       |      | QPSK  | 17.995 | 19.64 |

### LTE Band 4 (Part 27)

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 19957   | 1710.7          | 16QAM      | 1.0933                       | 1.263                 |
|         |         |                 | QPSK       | 1.0919                       | 1.265                 |
| 1.4     | 20175   | 1732.5          | 16QAM      | 1.0923                       | 1.273                 |
|         |         |                 | QPSK       | 1.0997                       | 1.278                 |
| 1.4     | 20393   | 1754.3          | 16QAM      | 1.0985                       | 1.265                 |
|         |         |                 | QPSK       | 1.1019                       | 1.256                 |
| 3       | 19965   | 1711.5          | 16QAM      | 2.7429                       | 3.051                 |
|         |         |                 | QPSK       | 2.7329                       | 3.029                 |
| 3       | 20175   | 1732.5          | 16QAM      | 2.7360                       | 3.031                 |
|         |         |                 | QPSK       | 2.7373                       | 3.045                 |
| 3       | 20385   | 1753.5          | 16QAM      | 2.7323                       | 3.033                 |
|         |         |                 | QPSK       | 2.7261                       | 3.040                 |
| 5       | 19975   | 1712.5          | 16QAM      | 4.5952                       | 6.572                 |
|         |         |                 | QPSK       | 4.5936                       | 6.529                 |
| 5       | 20175   | 1732.5          | 16QAM      | 4.5576                       | 5.140                 |
|         |         |                 | QPSK       | 4.5598                       | 5.132                 |
| 5       | 20375   | 1752.5          | 16QAM      | 4.5478                       | 6.255                 |
|         |         |                 | QPSK       | 4.5485                       | 5.941                 |
| 10      | 20000   | 1715            | 16QAM      | 9.1004                       | 10.18                 |
|         |         |                 | QPSK       | 9.1047                       | 10.07                 |
| 10      | 20175   | 1732.5          | 16QAM      | 9.0303                       | 10.03                 |
|         |         |                 | QPSK       | 9.0324                       | 10.03                 |
| 10      | 20350   | 1750            | 16QAM      | 9.0659                       | 10.10                 |
|         |         |                 | QPSK       | 9.0718                       | 10.01                 |

|    |       |        |       |        |       |
|----|-------|--------|-------|--------|-------|
| 15 | 20025 | 1717.5 | 16QAM | 13.526 | 14.97 |
|    |       |        | QPSK  | 13.530 | 15.06 |
| 15 | 20175 | 1732.5 | 16QAM | 13.442 | 14.80 |
|    |       |        | QPSK  | 13.442 | 14.80 |
| 15 | 20325 | 1747.5 | 16QAM | 13.515 | 14.83 |
|    |       |        | QPSK  | 13.515 | 14.81 |
| 20 | 20050 | 1720   | 16QAM | 17.961 | 19.46 |
|    |       |        | QPSK  | 17.978 | 19.37 |
| 20 | 20175 | 1732.5 | 16QAM | 17.885 | 19.49 |
|    |       |        | QPSK  | 17.867 | 19.44 |
| 20 | 20300 | 1745   | 16QAM | 17.941 | 19.09 |
|    |       |        | QPSK  | 17.984 | 19.29 |

### LTE Band 5 (Part 22H)

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 20407   | 824.7           | 16QAM      | 1.0938                       | 1.268                 |
|         |         |                 | QPSK       | 1.0936                       | 1.268                 |
| 1.4     | 20525   | 936.5           | 16QAM      | 1.0980                       | 1.288                 |
|         |         |                 | QPSK       | 1.0927                       | 1.261                 |
| 1.4     | 20643   | 949.3           | 16QAM      | 1.1034                       | 1.260                 |
|         |         |                 | QPSK       | 1.0987                       | 1.253                 |
| 3       | 20415   | 825.5           | 16QAM      | 2.7266                       | 3.002                 |
|         |         |                 | QPSK       | 2.7273                       | 3.029                 |
| 3       | 20525   | 936.5           | 16QAM      | 2.7286                       | 3.040                 |
|         |         |                 | QPSK       | 2.7354                       | 3.048                 |
| 3       | 20635   | 847.5           | 16QAM      | 2.7331                       | 3.050                 |
|         |         |                 | QPSK       | 2.7322                       | 3.045                 |
| 5       | 20425   | 826.5           | 16QAM      | 4.5315                       | 5.038                 |
|         |         |                 | QPSK       | 4.5298                       | 5.036                 |
| 5       | 20525   | 936.5           | 16QAM      | 4.5205                       | 5.051                 |
|         |         |                 | QPSK       | 4.5161                       | 5.036                 |
| 5       | 20625   | 846.5           | 16QAM      | 4.5148                       | 4.984                 |
|         |         |                 | QPSK       | 4.5213                       | 5.022                 |

|    |       |       |       |        |       |
|----|-------|-------|-------|--------|-------|
| 10 | 20450 | 829   | 16QAM | 9.0559 | 10.11 |
|    |       |       | QPSK  | 9.0384 | 10.04 |
| 10 | 20525 | 936.5 | 16QAM | 9.0602 | 10.08 |
|    |       |       | QPSK  | 9.0699 | 10.06 |
| 10 | 20800 | 844   | 16QAM | 9.0656 | 10.03 |
|    |       |       | QPSK  | 9.0817 | 9.977 |

### LTE Band 7 (Part 27) result

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 5       | 20775   | 2502.5          | 16QAM      | 4.5212                       | 5.049                 |
|         |         |                 | QPSK       | 4.5095                       | 5.057                 |
| 5       | 21100   | 2535            | 16QAM      | 4.4982                       | 4.998                 |
|         |         |                 | QPSK       | 4.5129                       | 4.989                 |
| 5       | 21425   | 2567.5          | 16QAM      | 4.5255                       | 5.043                 |
|         |         |                 | QPSK       | 4.5306                       | 5.080                 |
| 10      | 20800   | 2505            | 16QAM      | 9.0469                       | 10.10                 |
|         |         |                 | QPSK       | 9.0318                       | 9.984                 |
| 10      | 21100   | 2535            | 16QAM      | 9.0512                       | 10.12                 |
|         |         |                 | QPSK       | 9.0593                       | 10.12                 |
| 10      | 21400   | 2562.5          | 16QAM      | 9.0626                       | 10.07                 |
|         |         |                 | QPSK       | 9.0531                       | 10.07                 |
| 15      | 20825   | 2507.5          | 16QAM      | 13.480                       | 14.72                 |
|         |         |                 | QPSK       | 13.455                       | 14.85                 |
| 15      | 21100   | 2535            | 16QAM      | 13.456                       | 14.64                 |
|         |         |                 | QPSK       | 13.489                       | 14.82                 |
| 15      | 21400   | 2562.5          | 16QAM      | 13.475                       | 14.60                 |
|         |         |                 | QPSK       | 13.498                       | 14.74                 |
| 20      | 20850   | 2510            | 16QAM      | 17.882                       | 19.09                 |
|         |         |                 | QPSK       | 17.921                       | 19.14                 |
| 20      | 21100   | 2535            | 16QAM      | 17.923                       | 19.28                 |
|         |         |                 | QPSK       | 17.915                       | 19.34                 |
| 20      | 21350   | 2560            | 16QAM      | 17.892                       | 19.32                 |
|         |         |                 | QPSK       | 17.905                       | 19.29                 |

### LTE Band 12 (Part 27)

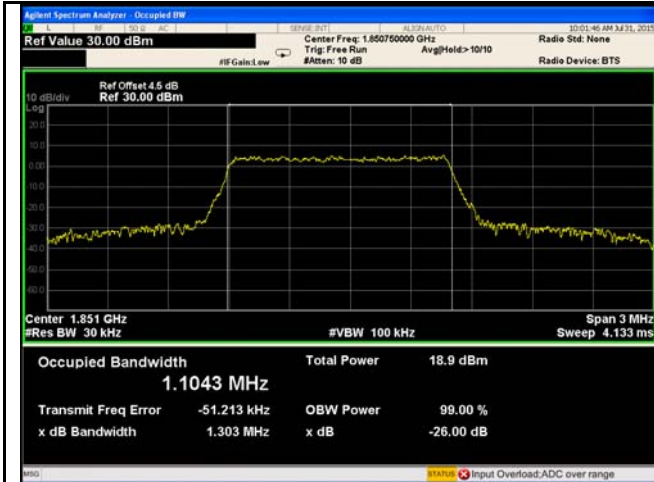
| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 23017   | 699.7           | 16QAM      | 1.0930                       | 1.265                 |
|         |         |                 | QPSK       | 1.0937                       | 1.273                 |
| 1.4     | 23095   | 707.5           | 16QAM      | 1.0945                       | 1.264                 |
|         |         |                 | QPSK       | 1.0973                       | 1.272                 |
| 1.4     | 23173   | 715.3           | 16QAM      | 1.0984                       | 1.256                 |
|         |         |                 | QPSK       | 1.0982                       | 1.261                 |
| 3       | 23025   | 700.5           | 16QAM      | 2.7468                       | 3.026                 |
|         |         |                 | QPSK       | 2.7508                       | 3.010                 |
| 3       | 23095   | 707.5           | 16QAM      | 2.7313                       | 3.023                 |
|         |         |                 | QPSK       | 2.7353                       | 3.046                 |
| 3       | 23165   | 714.5           | 16QAM      | 2.7327                       | 3.034                 |
|         |         |                 | QPSK       | 2.7188                       | 3.035                 |
| 5       | 23035   | 701.5           | 16QAM      | 4.5427                       | 5.094                 |
|         |         |                 | QPSK       | 4.5281                       | 5.049                 |
| 5       | 23095   | 707.5           | 16QAM      | 4.5184                       | 5.008                 |
|         |         |                 | QPSK       | 4.5180                       | 5.074                 |
| 5       | 23055   | 713.5           | 16QAM      | 4.5039                       | 5.039                 |
|         |         |                 | QPSK       | 4.5161                       | 5.058                 |
| 10      | 23060   | 704             | 16QAM      | 9.0427                       | 10.14                 |
|         |         |                 | QPSK       | 9.0444                       | 10.04                 |
| 10      | 23095   | 707.5           | 16QAM      | 9.0620                       | 10.06                 |
|         |         |                 | QPSK       | 9.0670                       | 10.13                 |
| 10      | 23130   | 711             | 16QAM      | 9.0726                       | 10.15                 |
|         |         |                 | QPSK       | 9.0736                       | 10.12                 |

### LTE Band 17 (Part 27)

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 5       | 23755   | 706.5           | 16QAM      | 4.5145                       | 5.069                 |
|         |         |                 | QPSK       | 4.5107                       | 5.008                 |
| 5       | 23790   | 710             | 16QAM      | 4.5046                       | 5.006                 |
|         |         |                 | QPSK       | 4.5169                       | 4.988                 |
| 5       | 23825   | 713.5           | 16QAM      | 4.5318                       | 5.017                 |
|         |         |                 | QPSK       | 4.5300                       | 5.060                 |
| 10      | 23780   | 709             | 16QAM      | 9.0632                       | 10.10                 |
|         |         |                 | QPSK       | 9.0772                       | 10.05                 |
| 10      | 23790   | 710             | 16QAM      | 9.0657                       | 9.999                 |
|         |         |                 | QPSK       | 9.0588                       | 10.07                 |
| 10      | 23800   | 711             | 16QAM      | 9.0645                       | 10.01                 |
|         |         |                 | QPSK       | 9.0815                       | 10.11                 |

## Test Plots

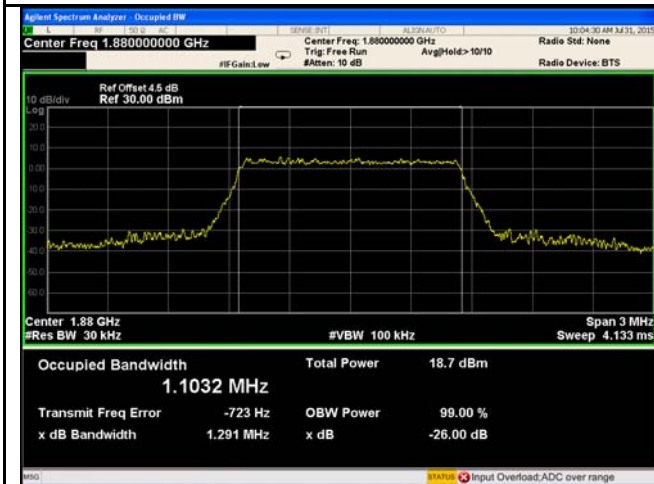
### LTE Band 2 (Part 24E)



LTE band 2 - Low CH QPSK-1.4



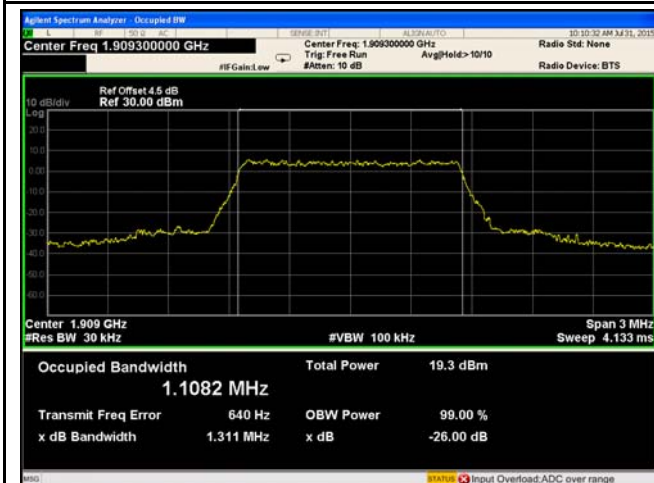
LTE band 2 - Low CH 16QAM-1.4



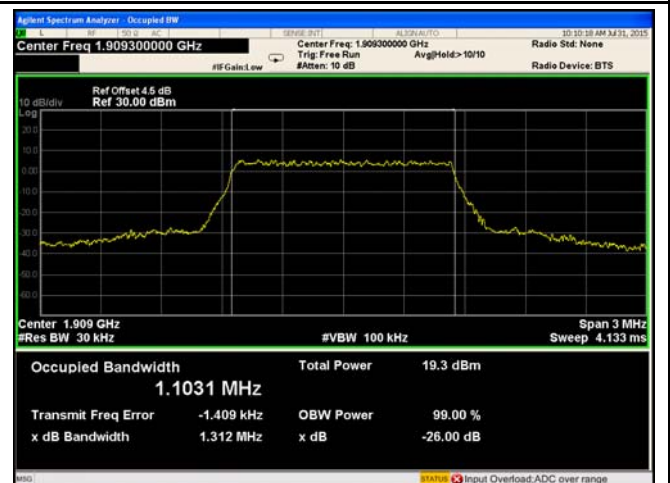
LTE band 2 - Middle CH QPSK-1.4



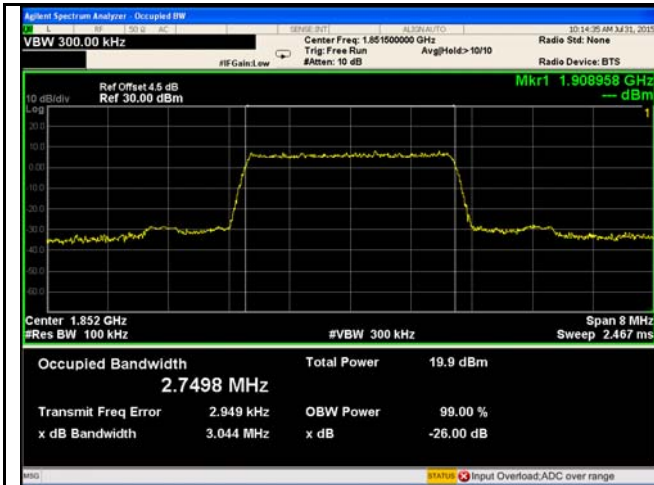
LTE band 2 - Middle CH 16QAM-1.4



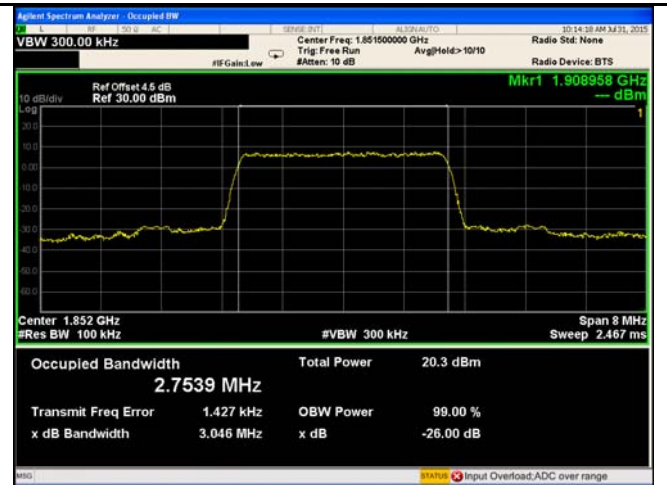
LTE band 2 - High CH QPSK-1.4



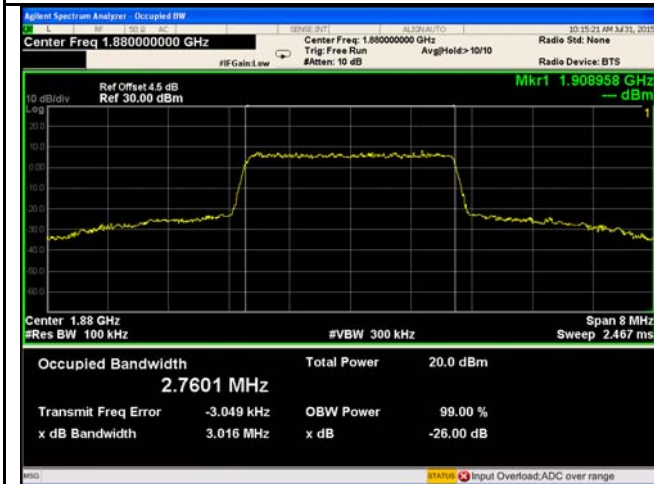
LTE band 2 - High CH 16QAM-1.4



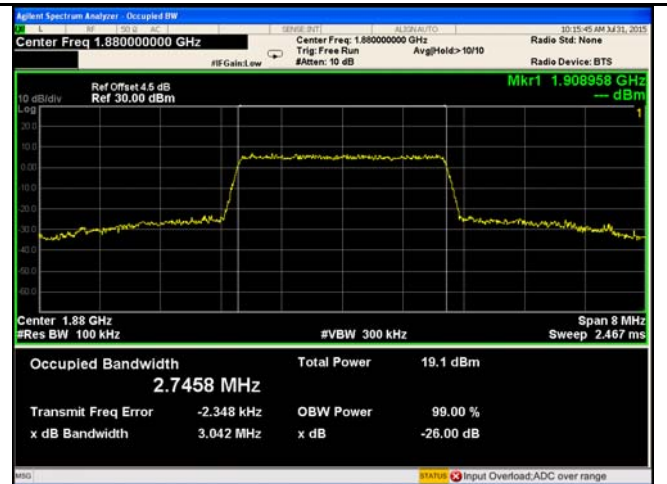
LTE band 2 - Low CH QPSK-3



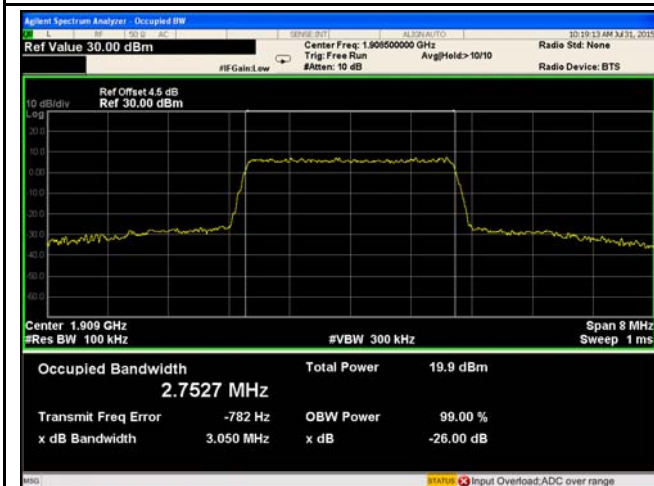
LTE band 2 - Low CH 16QAM-3



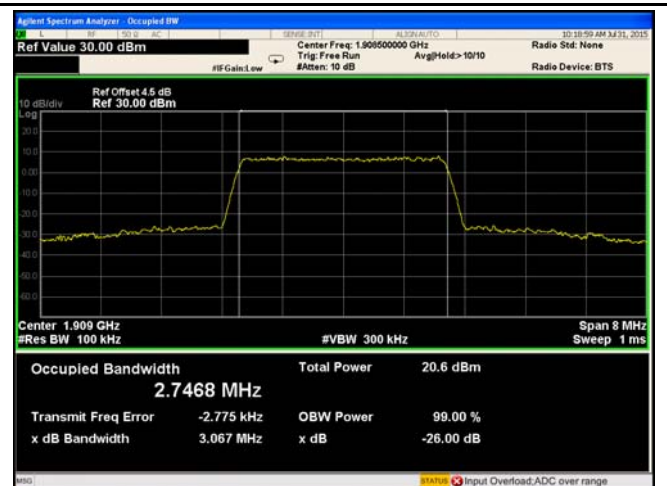
LTE band 2 - Middle CH QPSK-3



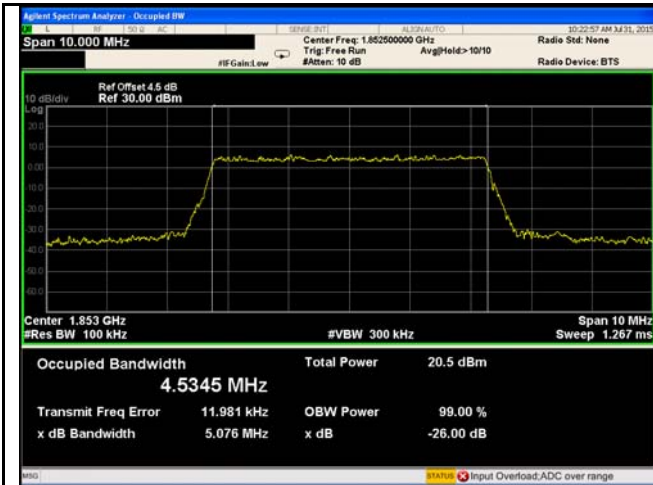
LTE band 2 - Middle CH 16QAM-3



LTE band 2 - High CH QPSK-3



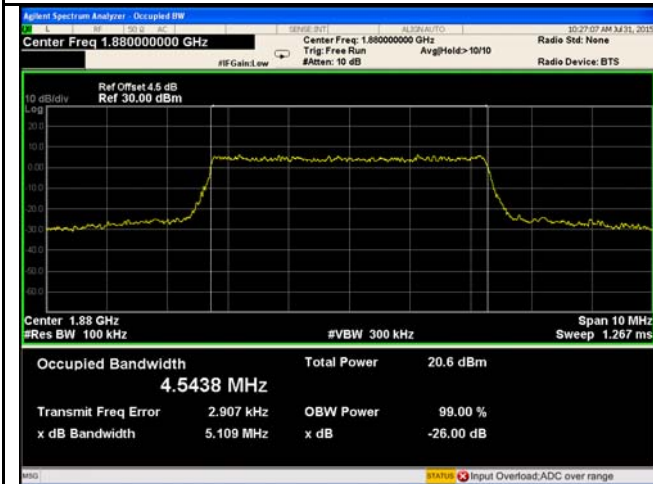
LTE band 2 - High CH 16QAM-3



LTE band 2 - Low CH QPSK-5



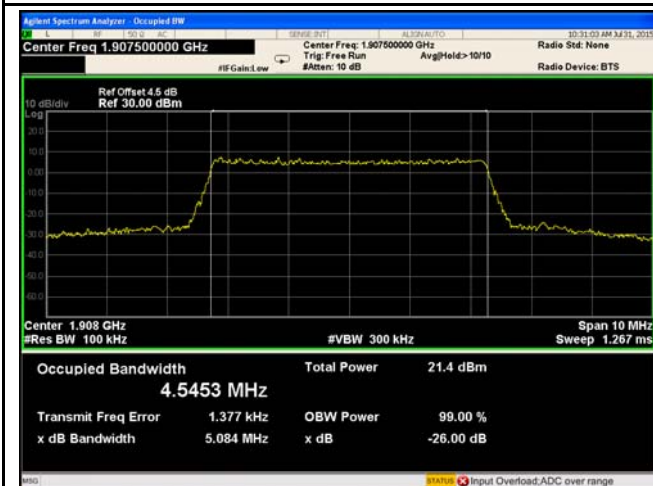
LTE band 2 - Low CH 16QAM-5



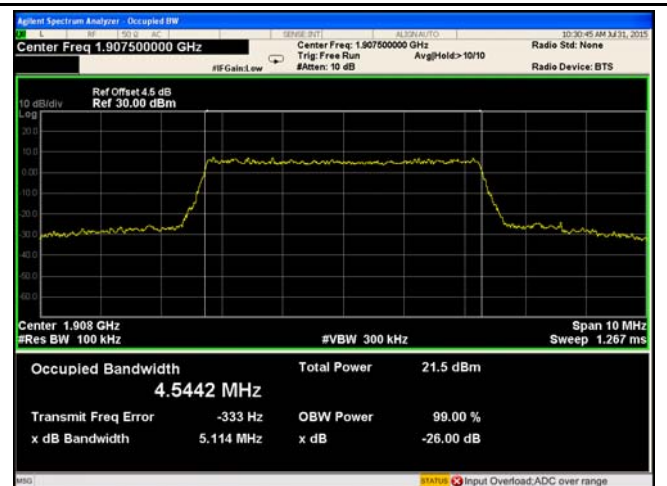
LTE band 2 - Middle CH QPSK-5



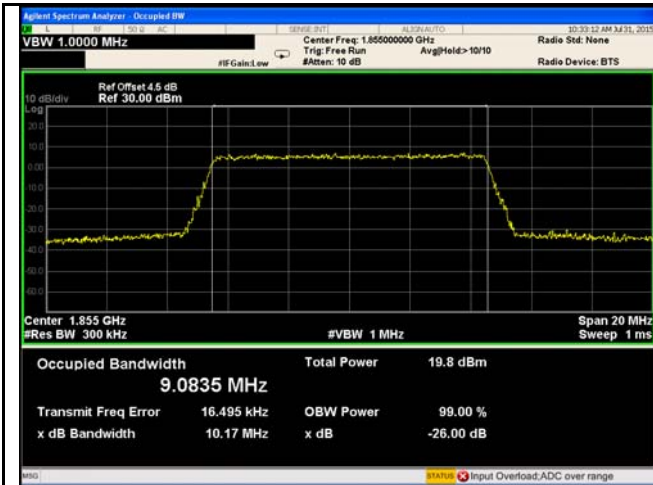
LTE band 2 - Middle CH 16QAM-5



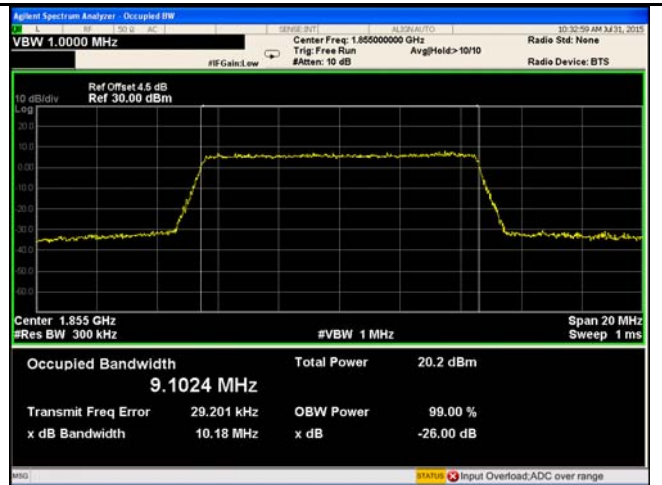
LTE band 2 - High CH QPSK-5



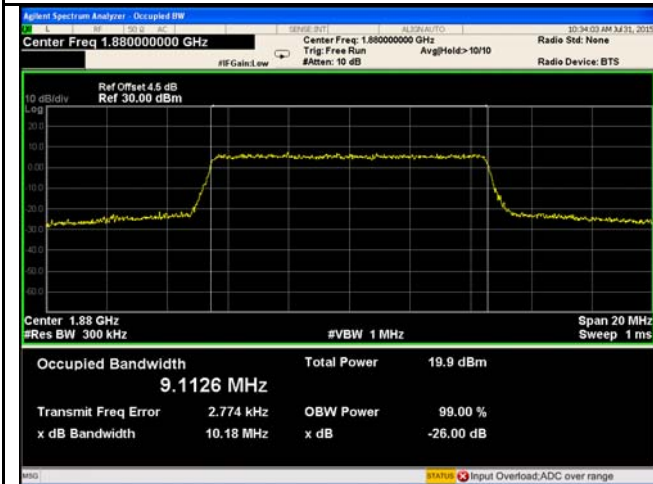
LTE band 2 - High CH 16QAM-5



LTE band 2 - Low CH QPSK-10



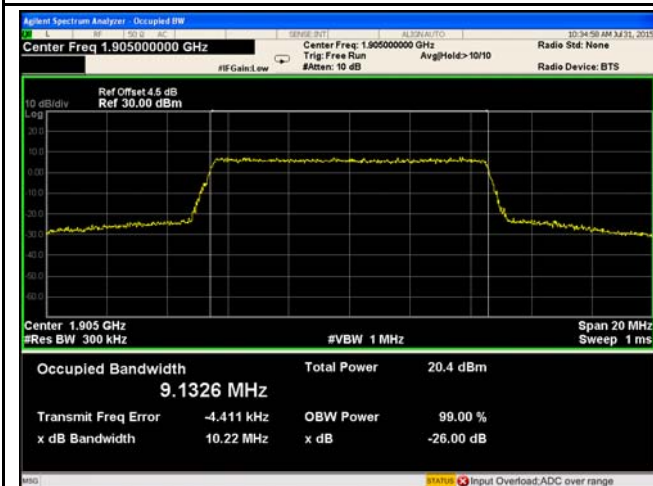
LTE band 2 - Low CH 16QAM-10



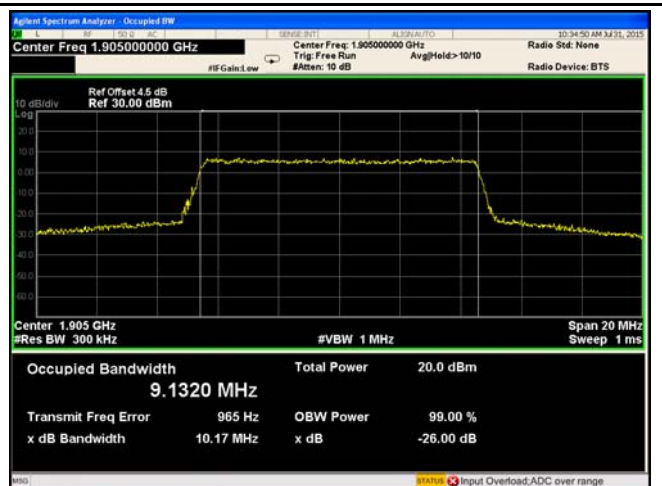
LTE band 2 - Middle CH QPSK-10



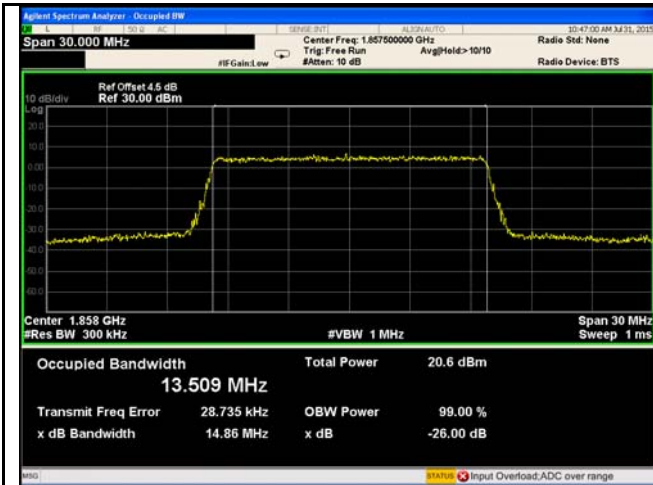
LTE band 2 - Middle CH 16QAM-10



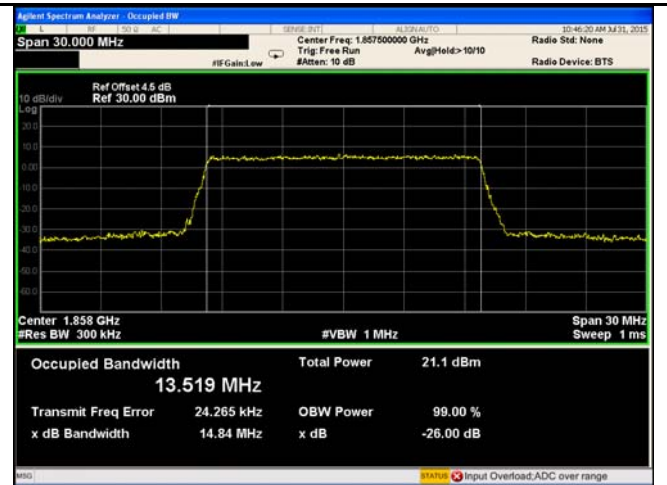
LTE band 2 - High CH QPSK-10



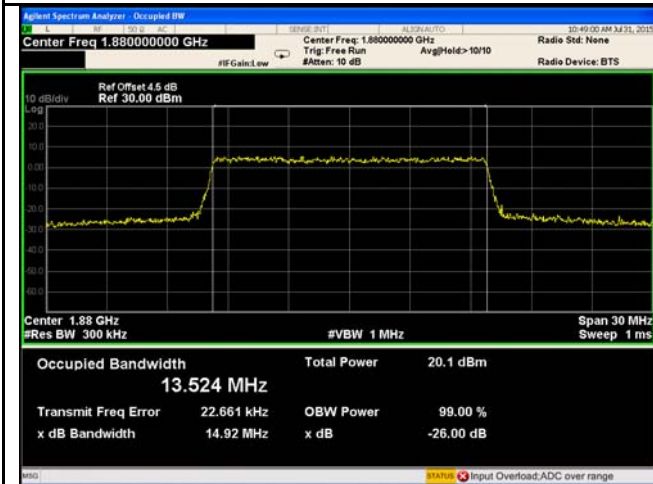
LTE band 2 - High CH 16QAM-10



LTE band 2 - Low CH QPSK-15



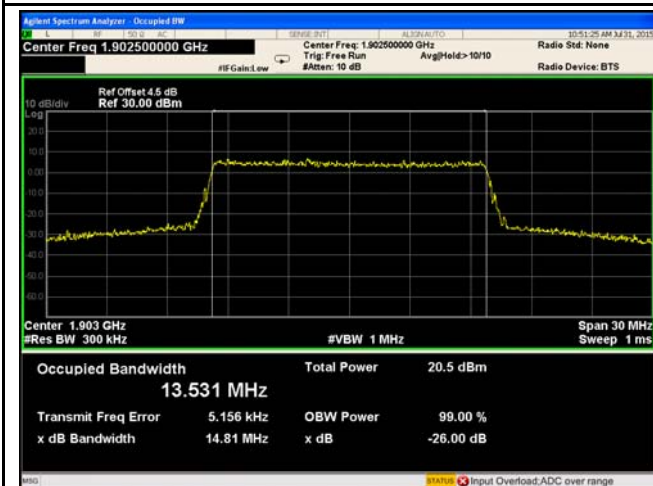
LTE band 2 - Low CH 16QAM-15



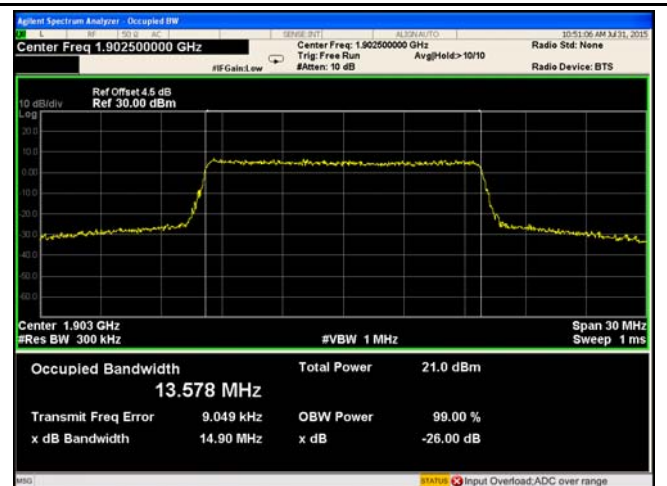
LTE band 2 - Middle CH QPSK-15



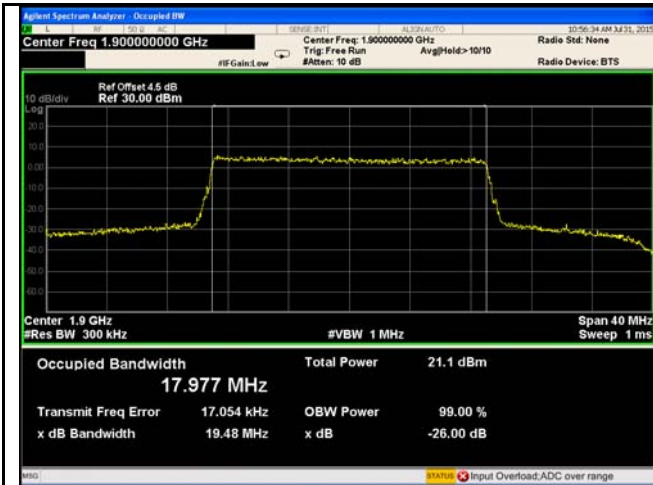
LTE band 2 - Middle CH 16QAM-15



LTE band 2 - High CH QPSK-15



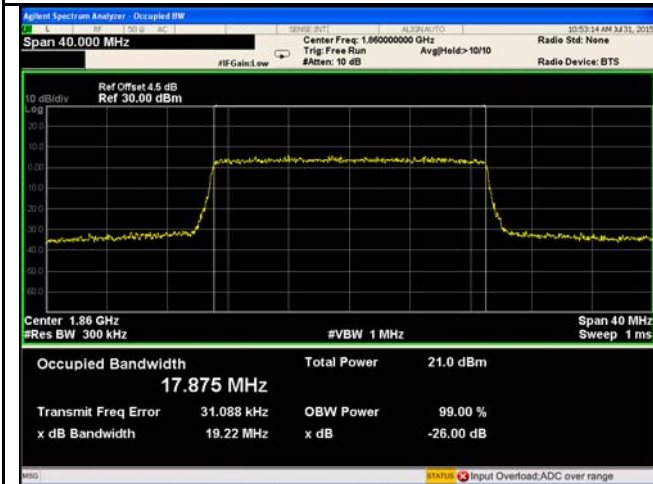
LTE band 2 - High CH 16QAM-15



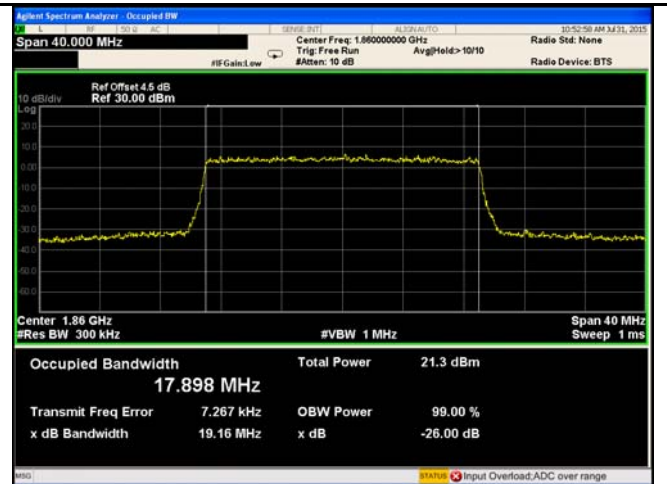
LTE band 2 - Low CH QPSK-20



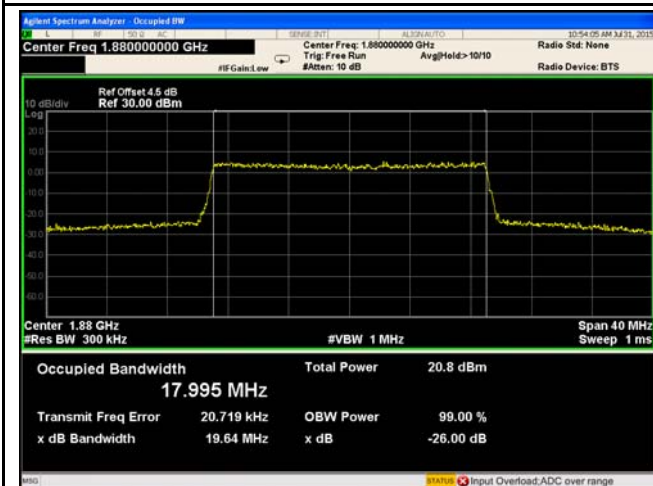
LTE band 2 - Low CH 16QAM-20



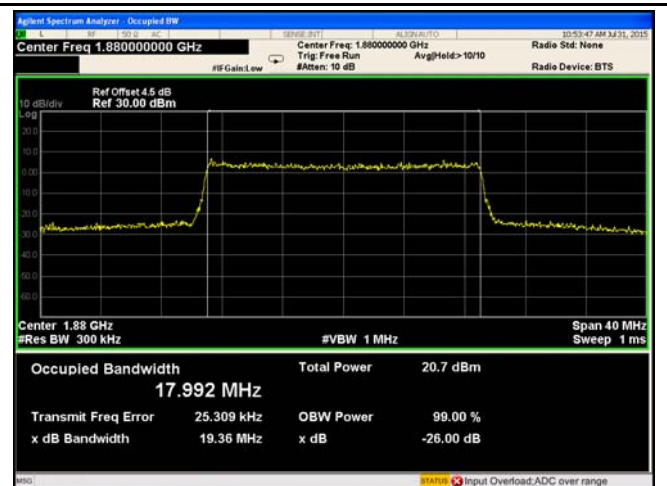
LTE band 2 - Middle CH QPSK-20



LTE band 2 - Middle CH 16QAM-20

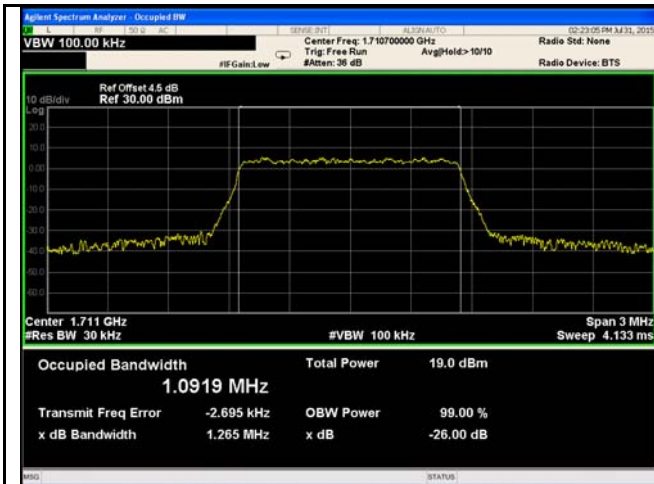


LTE band 2 - High CH QPSK-20

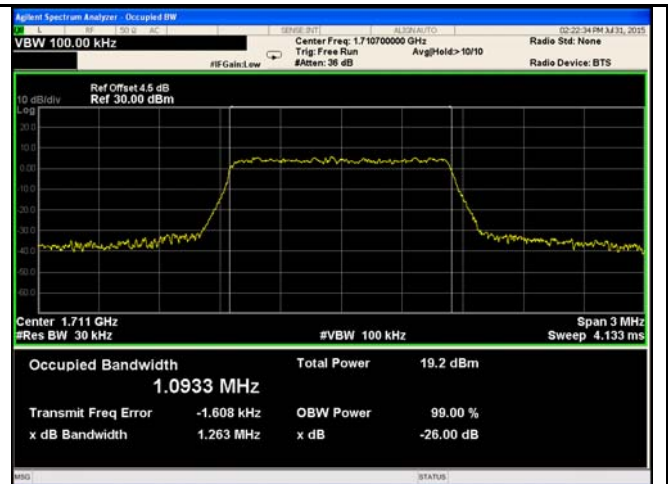


LTE band 2 - High CH 16QAM-20

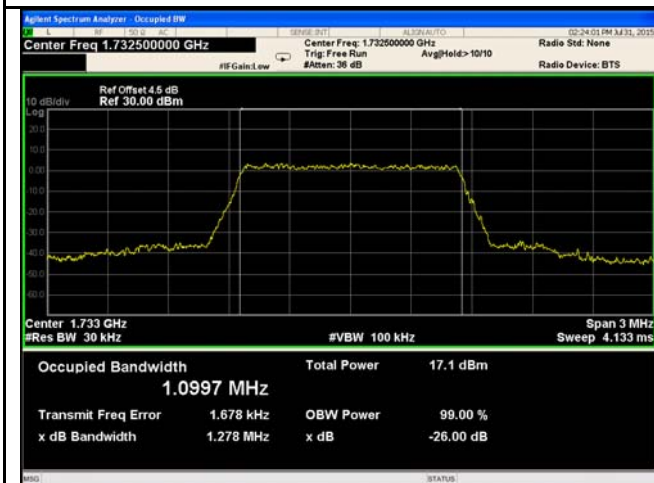
## LTE Band 4 (Part 27)



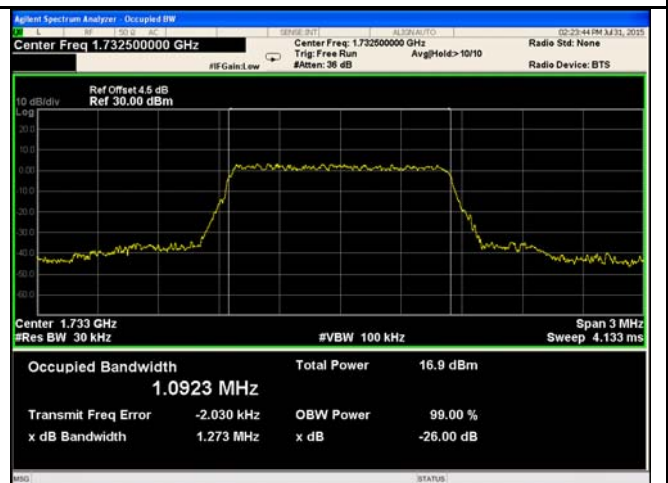
LTE band 4 - Low CH QPSK-1.4



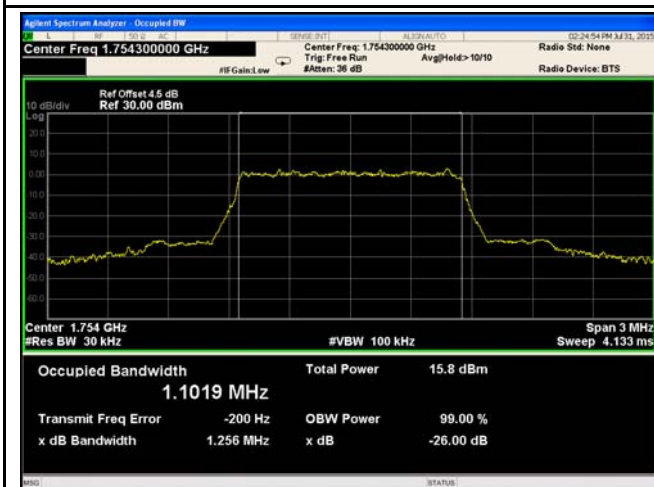
LTE band 4 - Low CH 16QAM-1.4



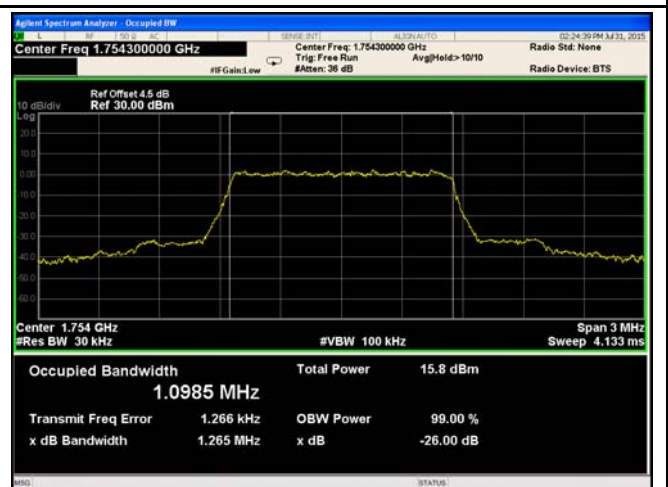
LTE band 4 - Middle CH QPSK-1.4



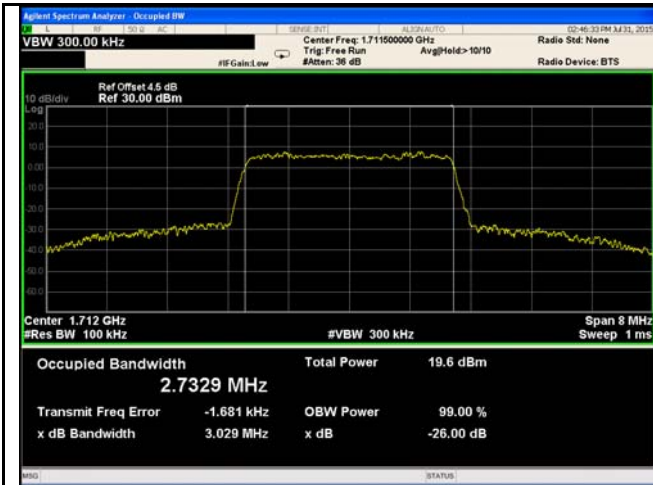
LTE band 4 - Middle CH 16QAM-1.4



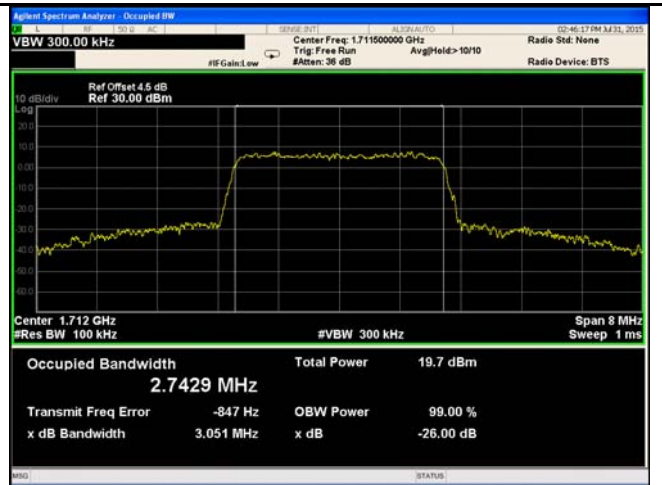
LTE band 4 - High CH QPSK-1.4



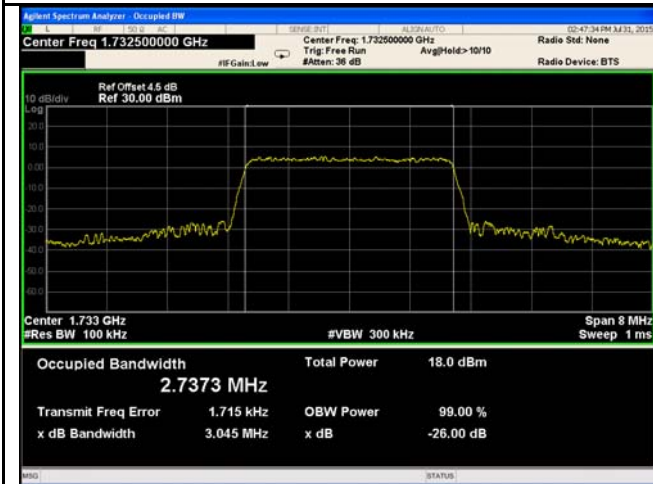
LTE band 4 - High CH 16QAM-1.4



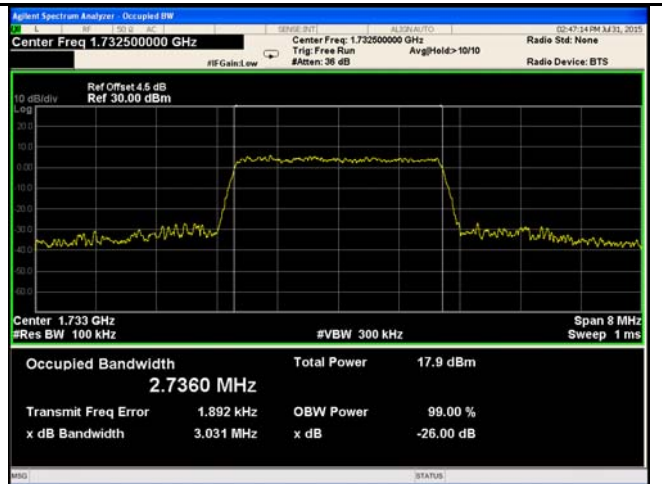
LTE band 4 - Low CH QPSK-3



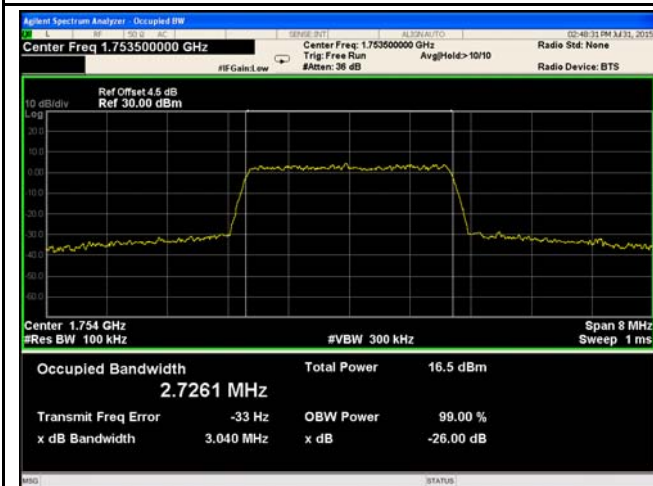
LTE band 4 - Low CH 16QAM-3



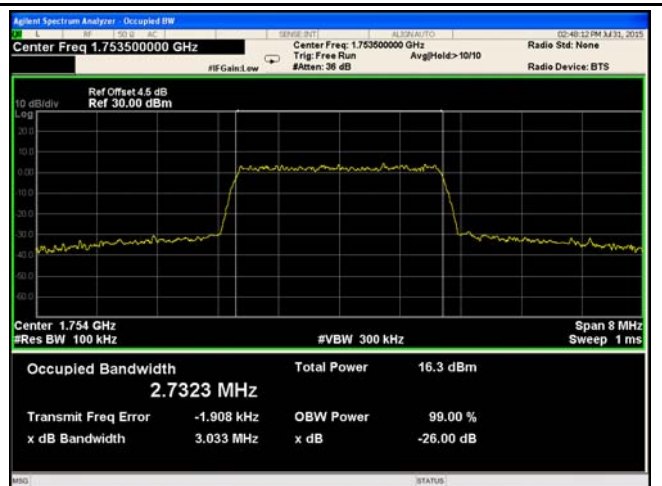
LTE band 4 - Middle CH QPSK-3



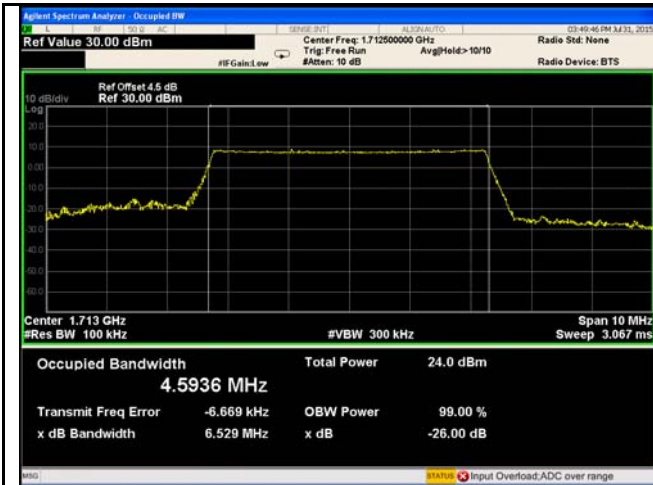
LTE band 4 - Middle CH 16QAM-3



LTE band 4 - High CH QPSK-3



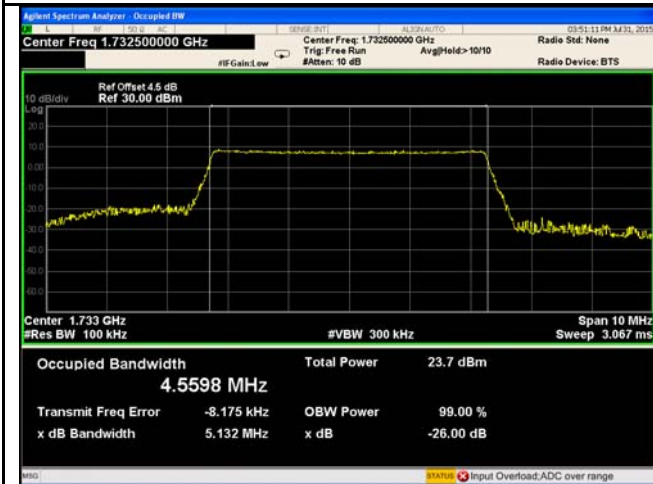
LTE band 4 - High CH 16QAM-3



LTE band 4 - Low CH QPSK-5



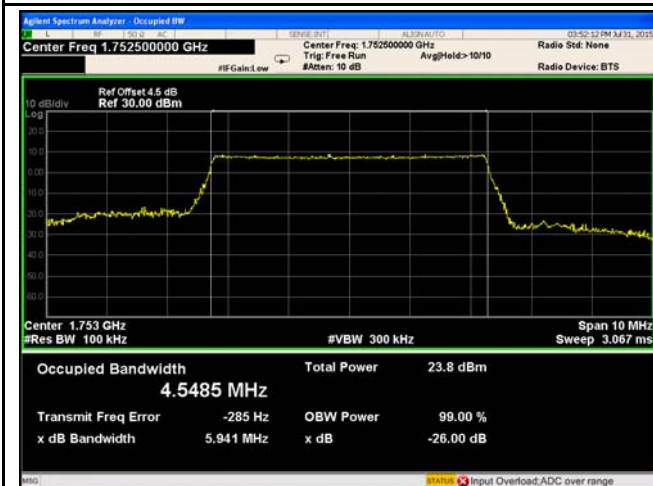
LTE band 4 - Low CH 16QAM-5



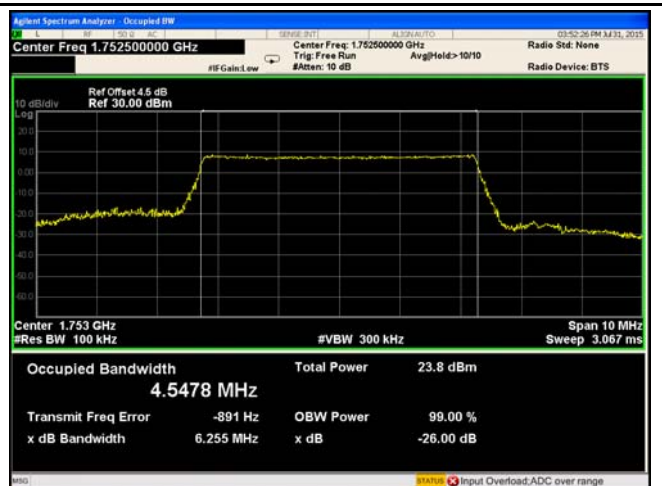
LTE band 4 - Middle CH QPSK-5



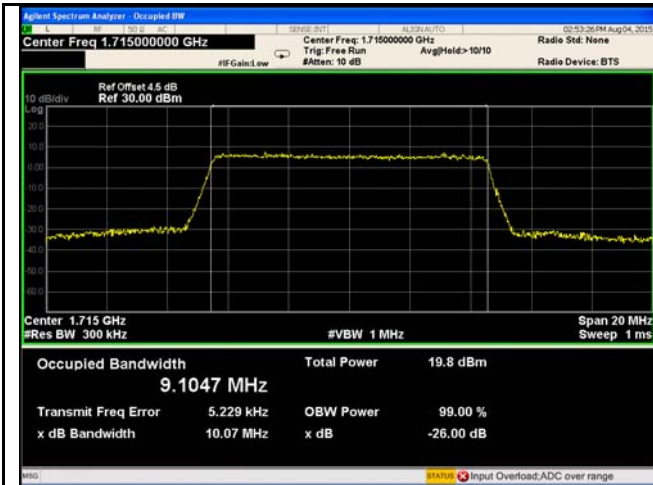
LTE band 4 - Middle CH 16QAM-5



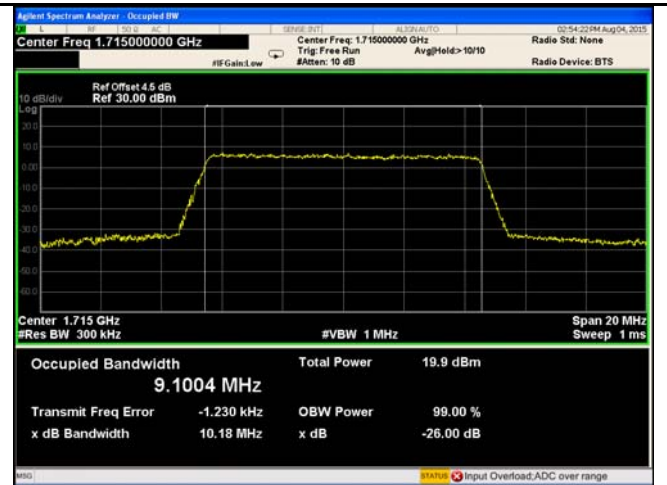
LTE band 4 - High CH QPSK-5



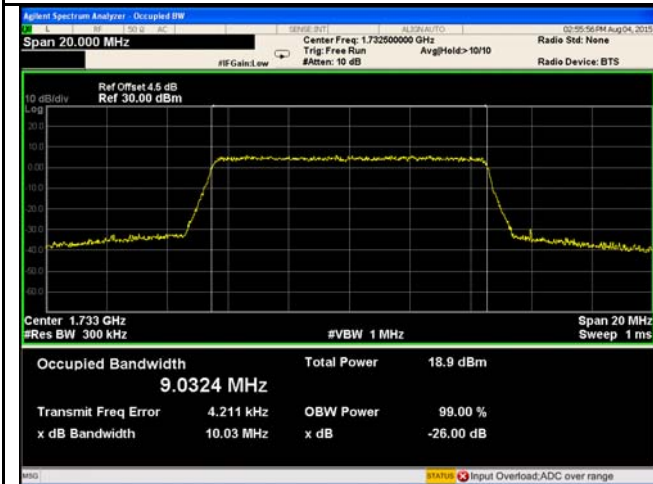
LTE band 4 - High CH 16QAM-5



LTE band 4 - Low CH QPSK-10



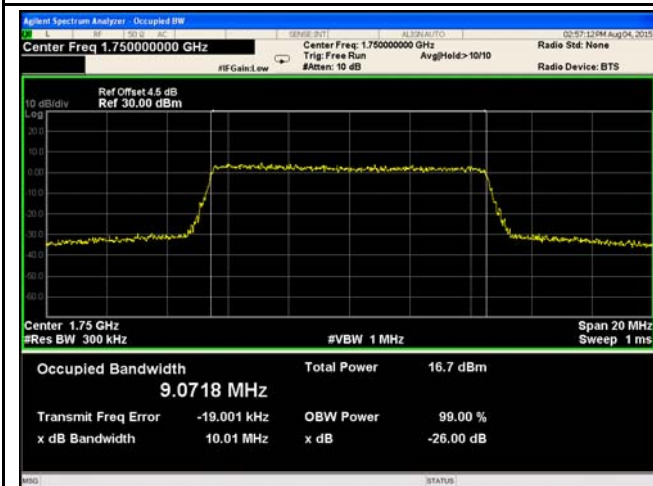
LTE band 4 - Low CH 16QAM-10



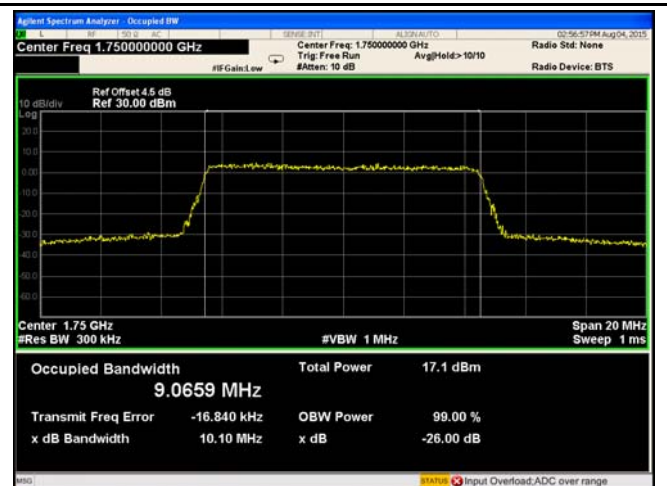
LTE band 4 - Middle CH QPSK-10



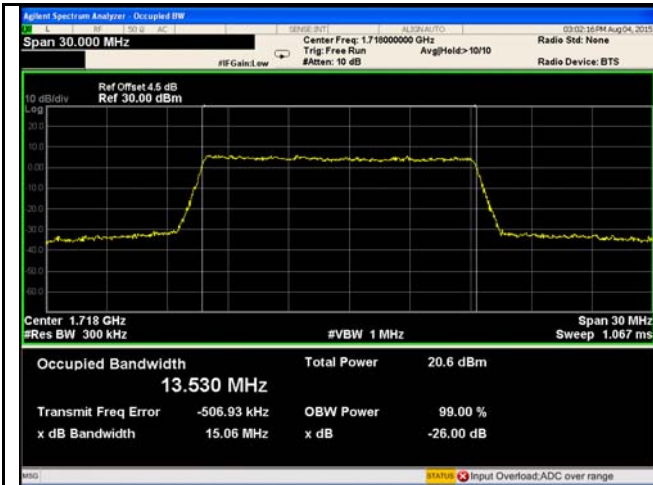
LTE band 4 - Middle CH 16QAM-10



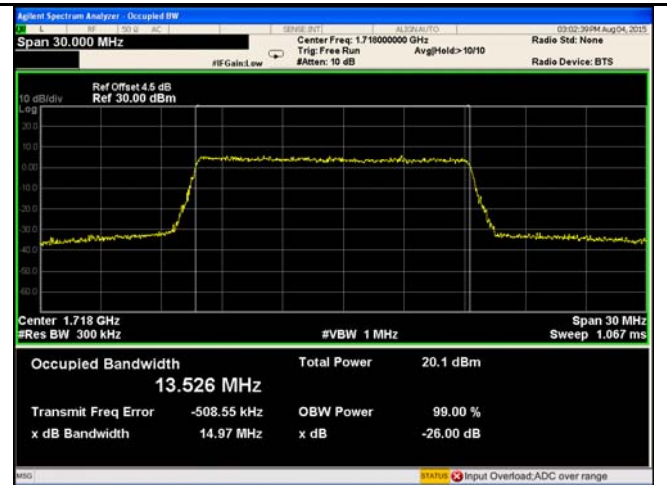
LTE band 4 - High CH QPSK-10



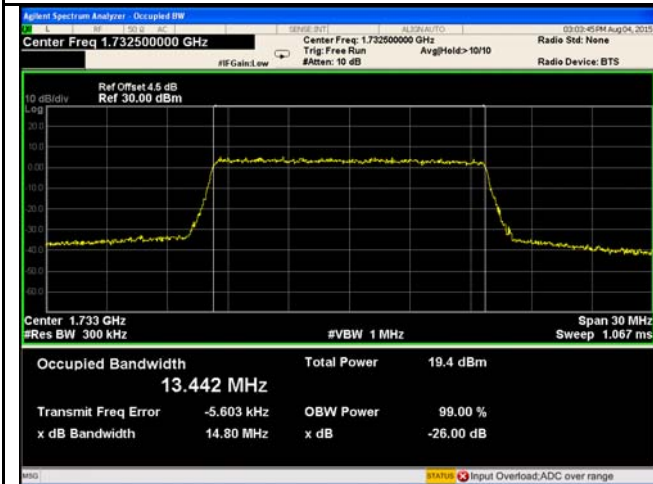
LTE band 4 - High CH 16QAM-10



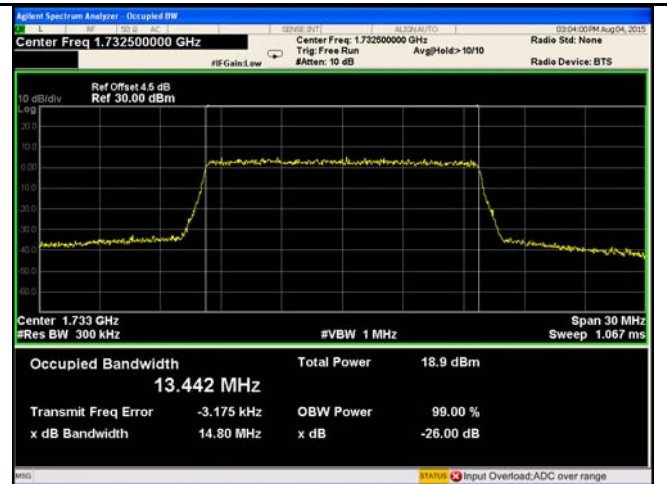
LTE band 4 - Low CH QPSK-15



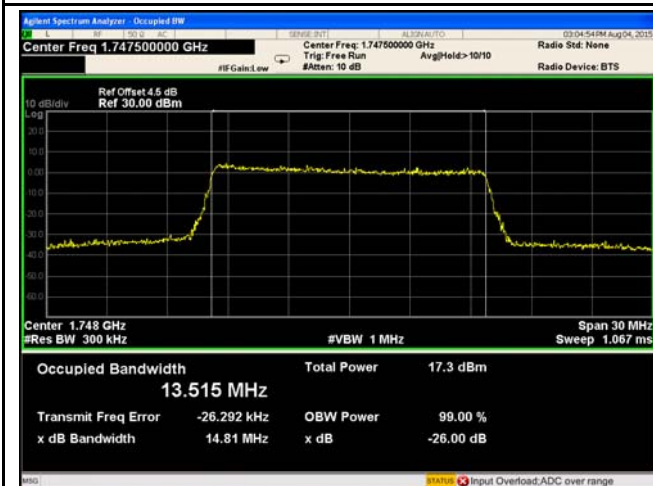
LTE band 4 - Low CH 16QAM-15



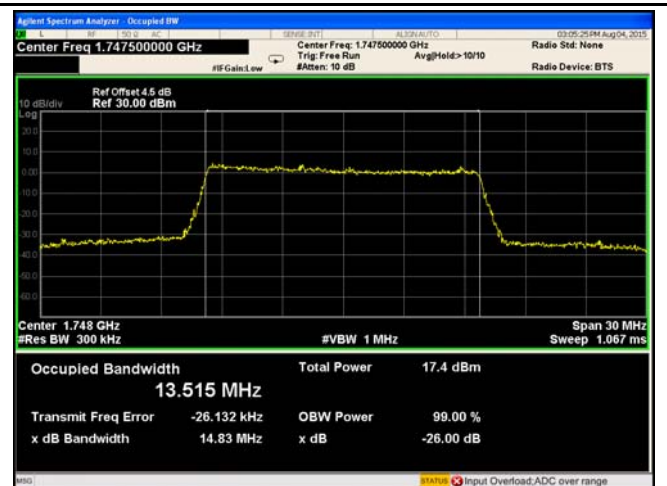
LTE band 4 - Middle CH QPSK-15



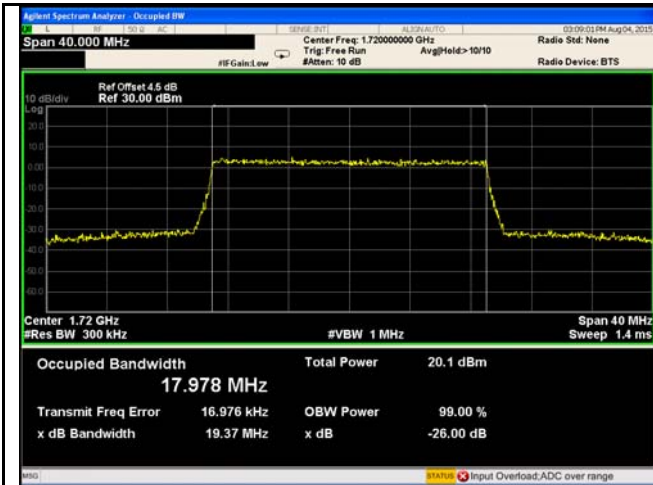
LTE band 4 - Middle CH 16QAM-15



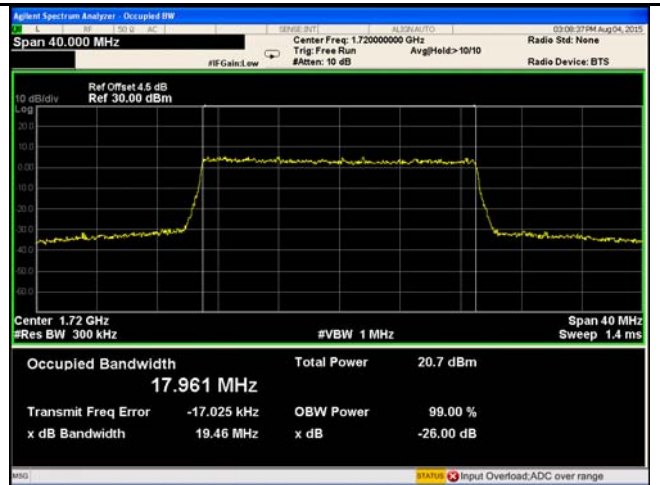
LTE band 4 - High CH QPSK-15



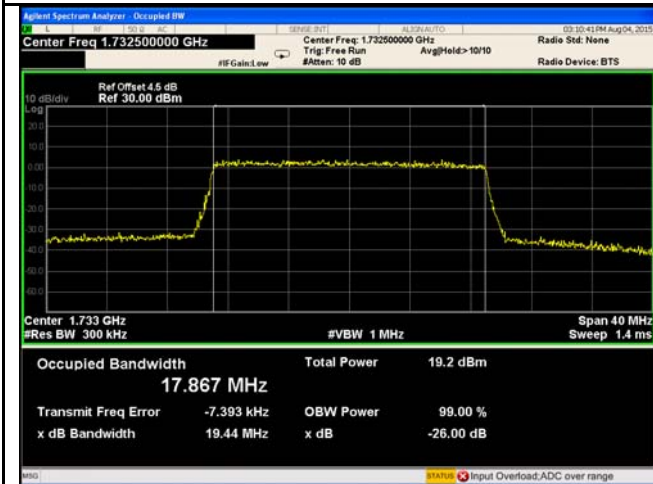
LTE band 4 - High CH 16QAM-15



LTE band 4 - Low CH QPSK-20



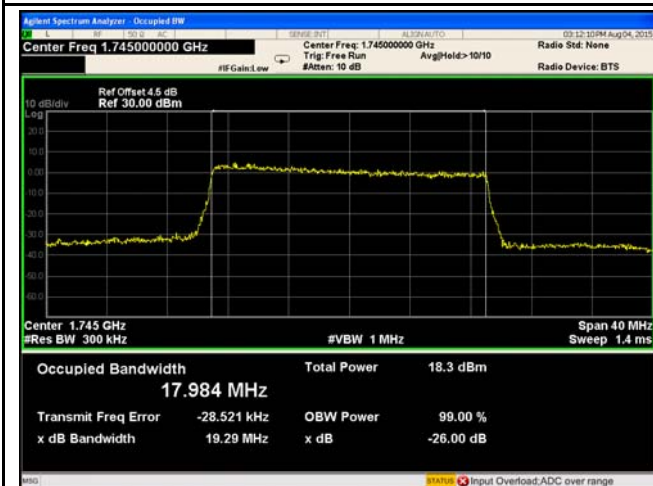
LTE band 4 - Low CH 16QAM-20



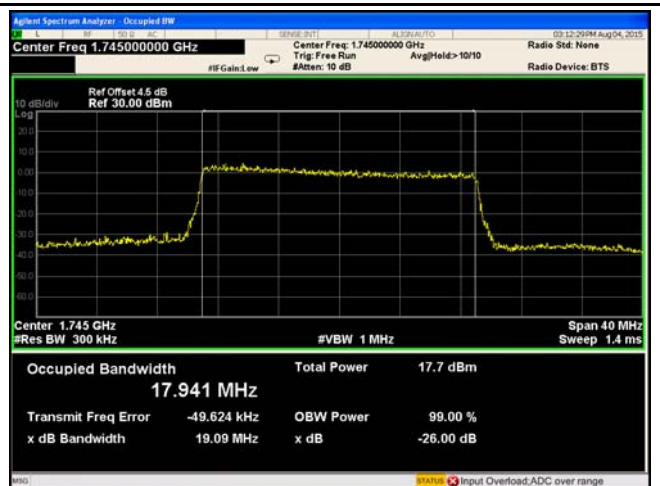
LTE band 4 - Middle CH QPSK-20



LTE band 4 - Middle CH 16QAM-20

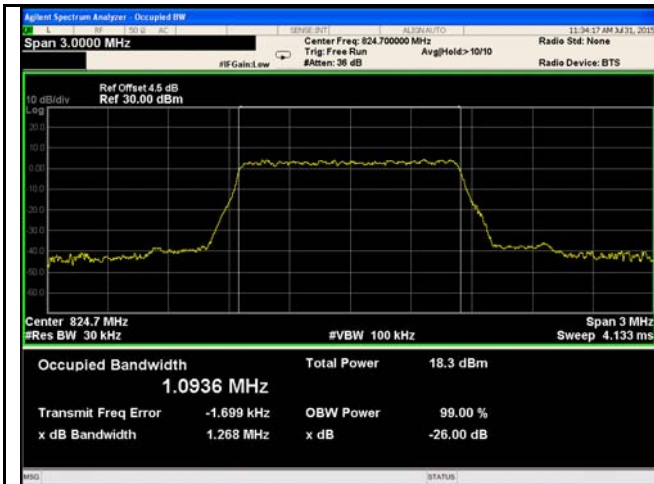


LTE band 4 - High CH QPSK-20

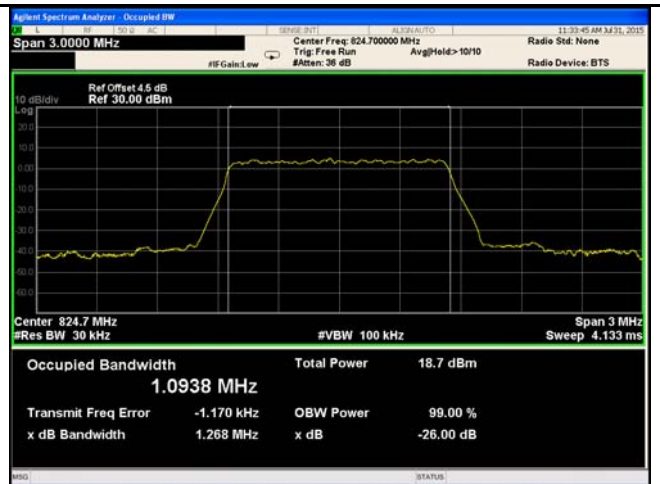


LTE band 4 - High CH 16QAM-20

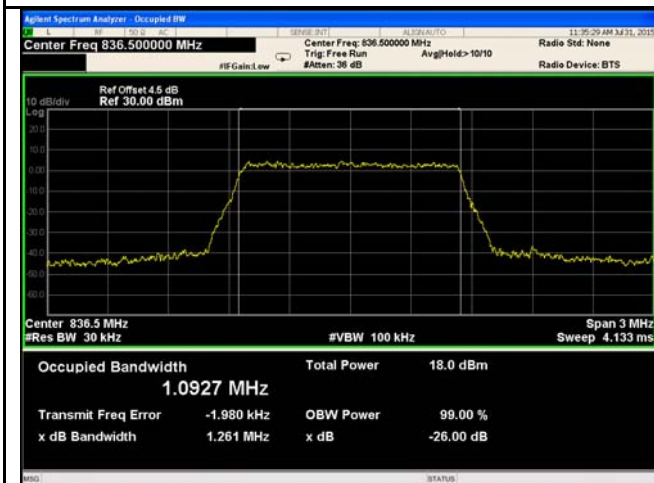
## LTE Band 5 (Part 22H)



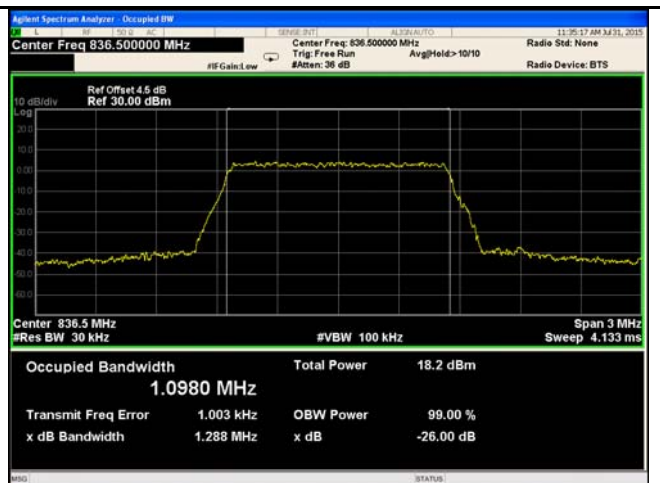
LTE band 5 - Low CH QPSK-1.4



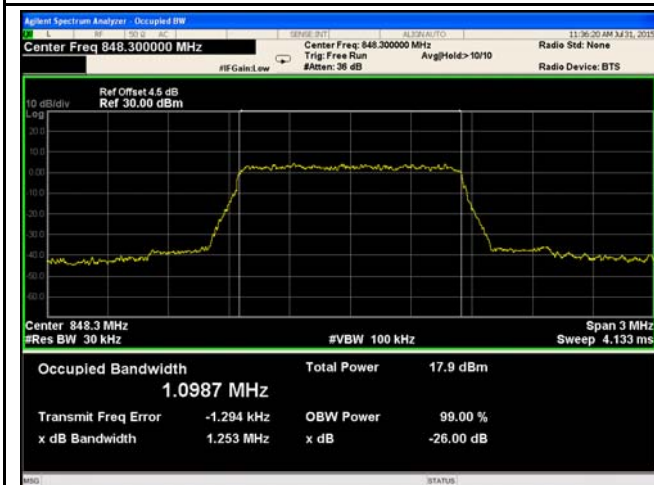
LTE band 5 - Low CH 16QAM-1.4



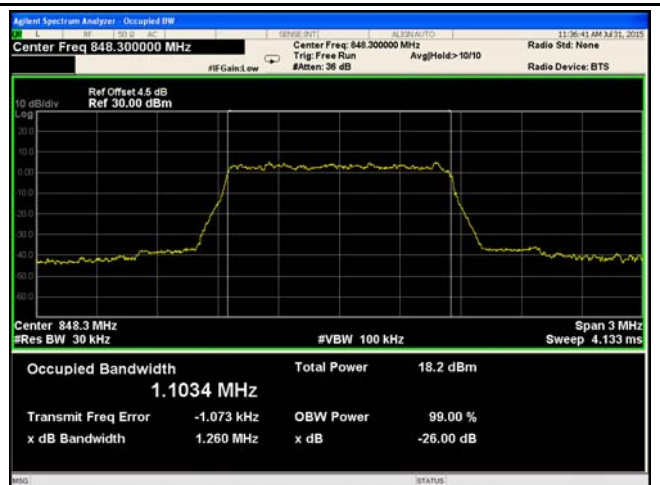
LTE band 5 - Middle CH QPSK-1.4



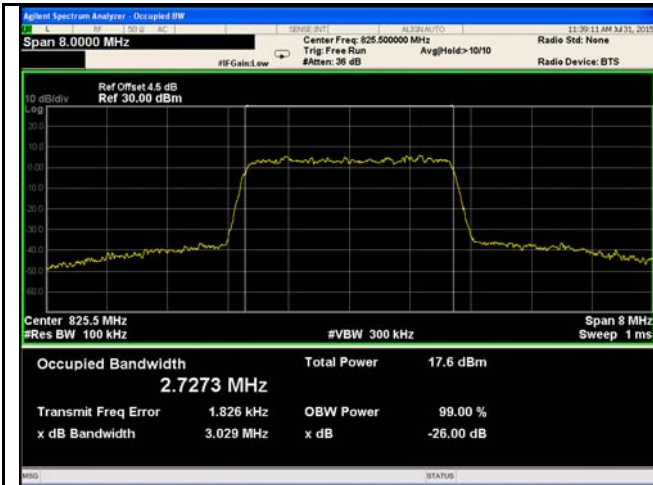
LTE band 5 - Middle CH 16QAM-1.4



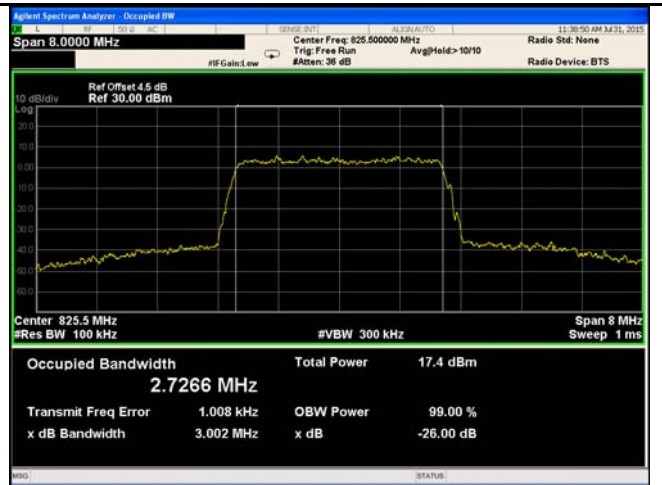
LTE band 5 - High CH QPSK-1.4



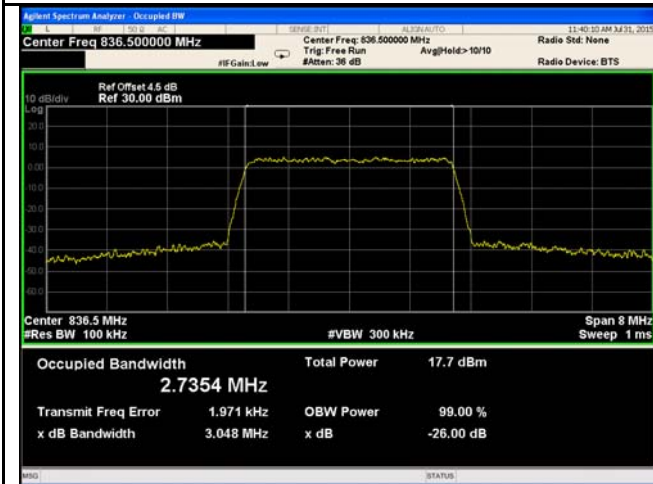
LTE band 5 - High CH 16QAM-1.4



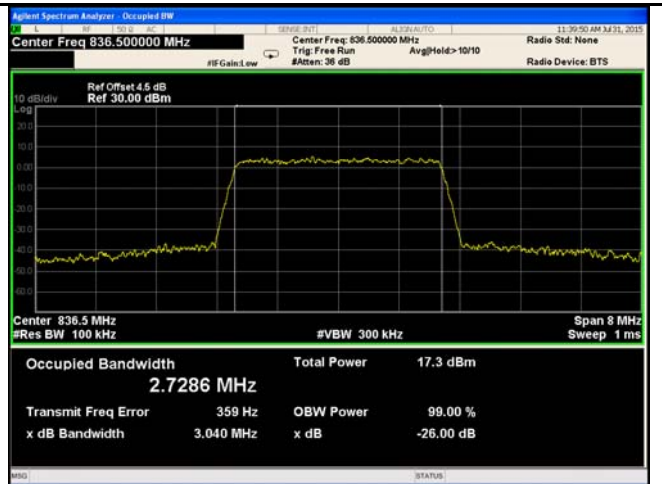
LTE band 5 - Low CH QPSK-3



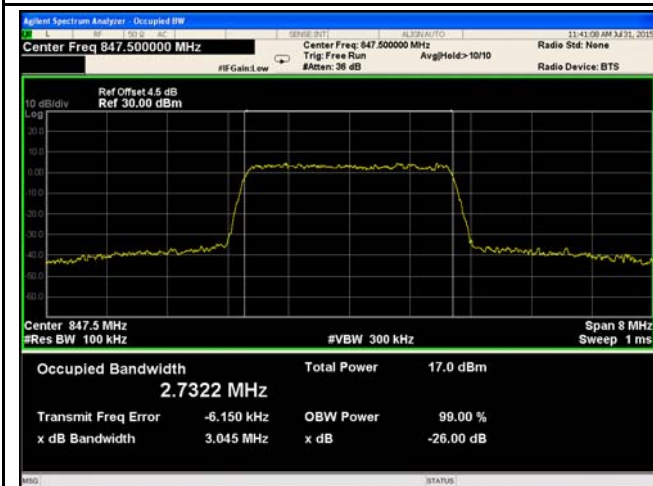
LTE band 5 - Low CH 16QAM-3



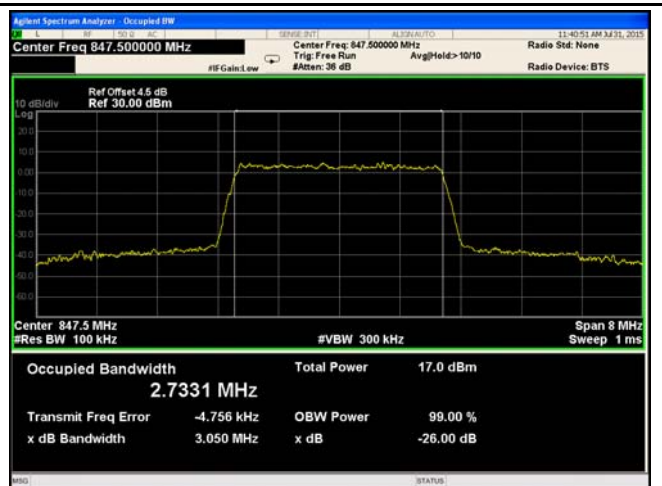
LTE band 5 - Middle CH QPSK-3



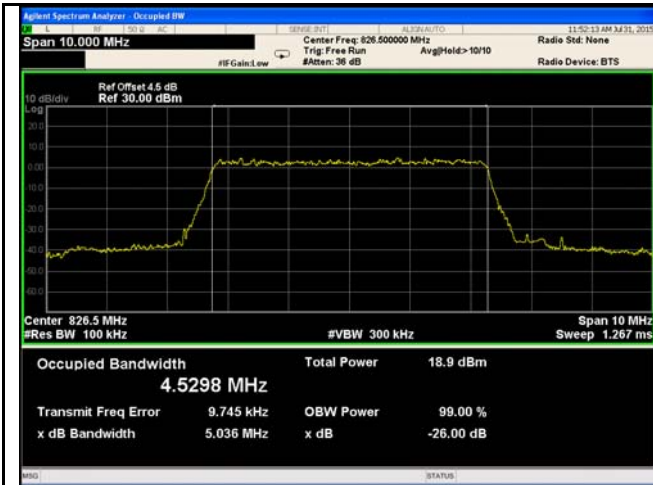
LTE band 5 - Middle CH 16QAM-3



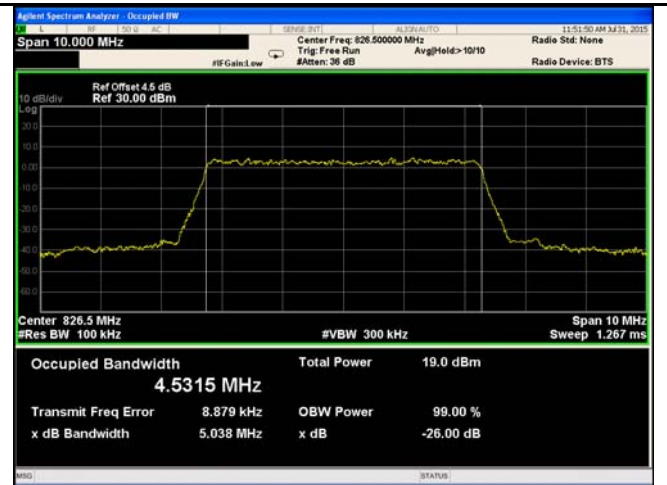
LTE band 5 - High CH QPSK-3



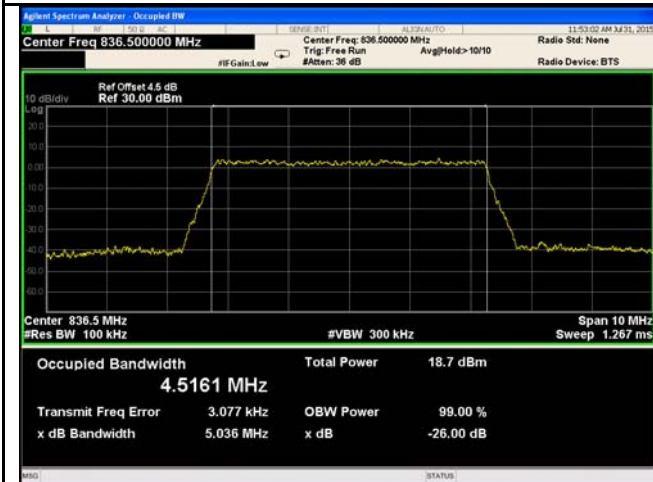
LTE band 5 - High CH 16QAM-3



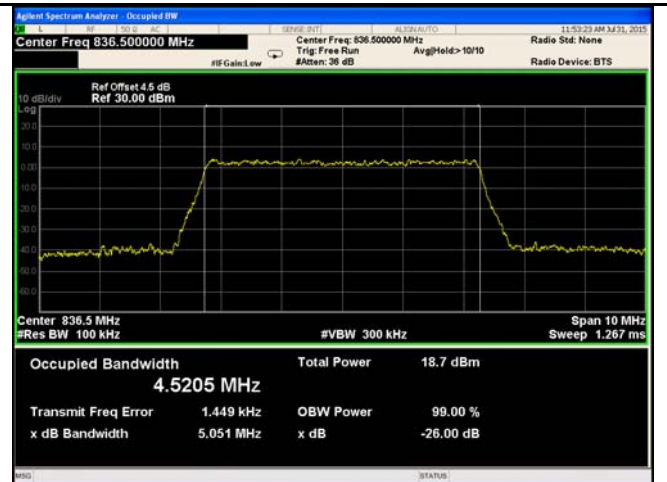
LTE band 5 - Low CH QPSK-5



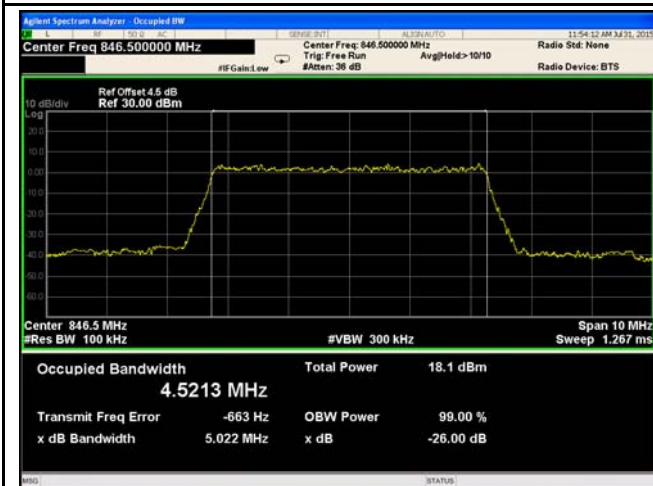
LTE band 5 - Low CH 16QAM-5



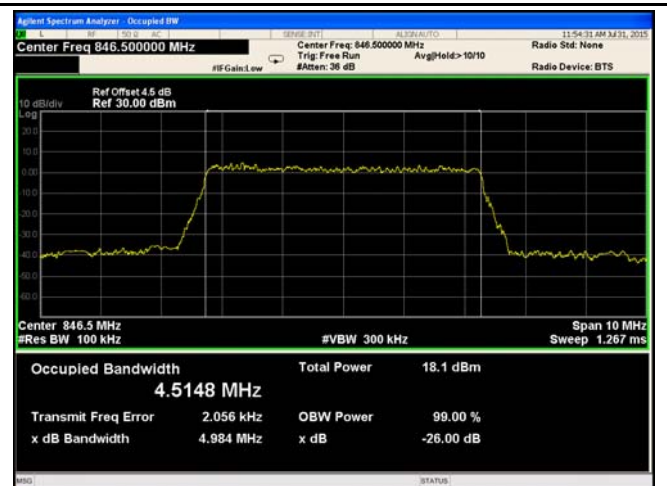
LTE band 5 - Middle CH QPSK-5



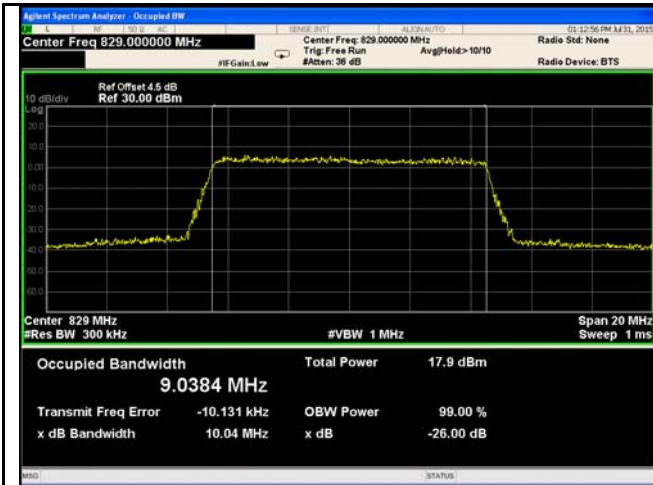
LTE band 5 - Middle CH 16QAM-5



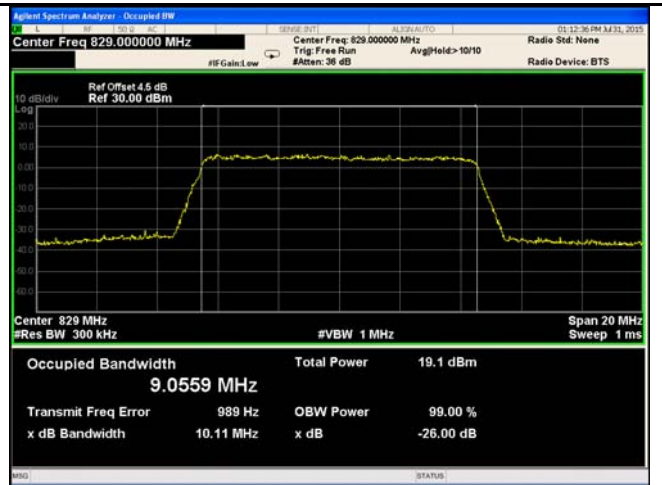
LTE band 5 - High CH QPSK-5



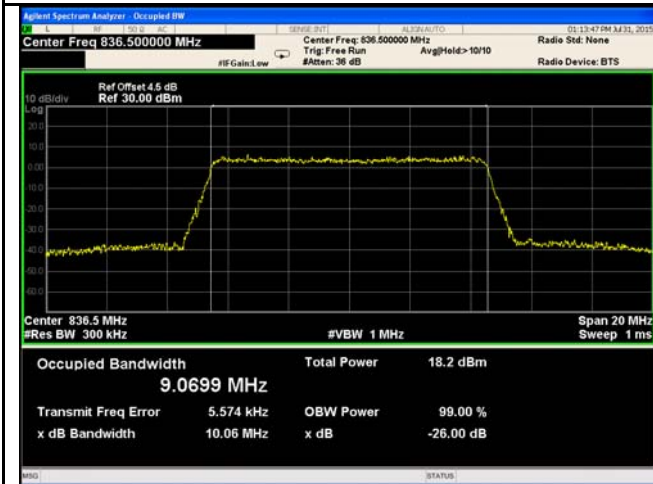
LTE band 5 - High CH 16QAM-5



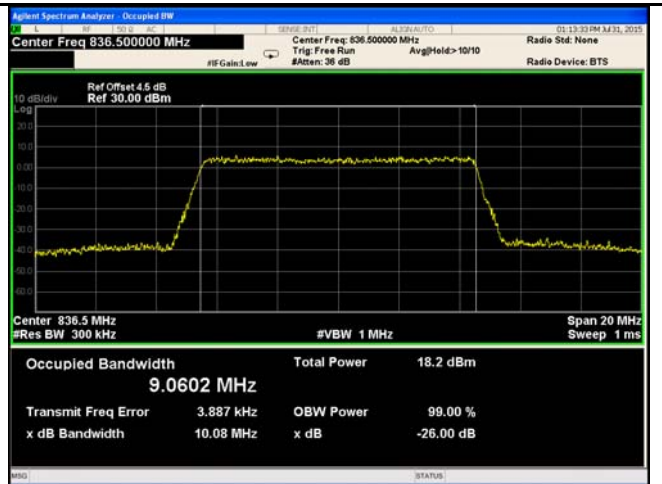
LTE band 5 - Low CH QPSK-10



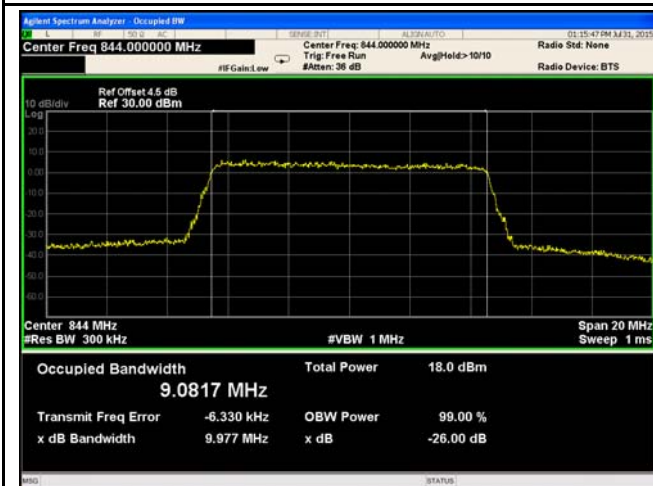
LTE band 5 - Low CH 16QAM-10



LTE band 5 - Middle CH QPSK-10



LTE band 5 - Middle CH 16QAM-10

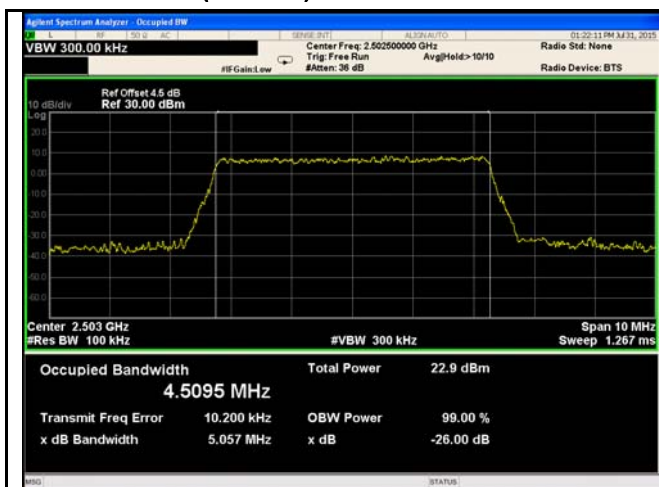


LTE band 5 - High CH QPSK-10

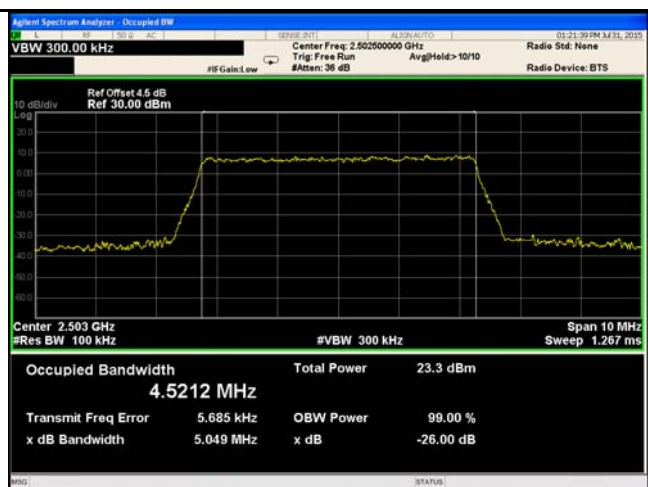


LTE band 5 - High CH 16QAM-10

## LTE Band 7 (Part 27)



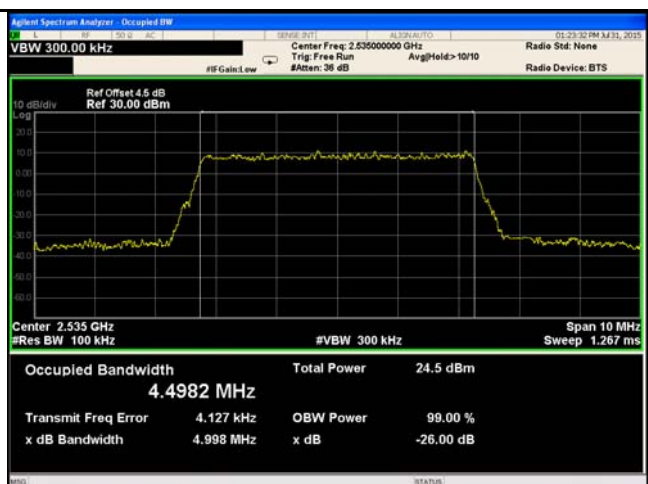
LTE band 7 - Low CH QPSK-5



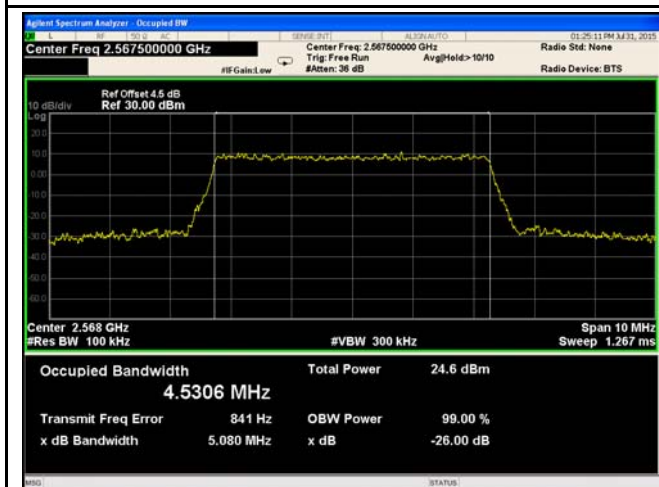
LTE band 7 - Low CH 16QAM-5



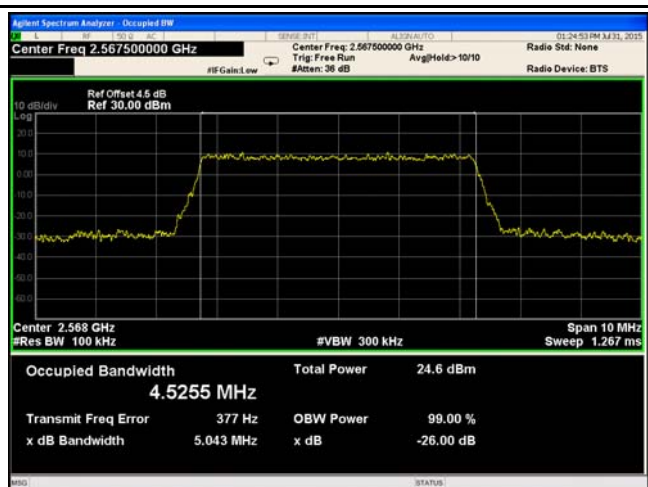
LTE band 7 - Middle CH QPSK-5



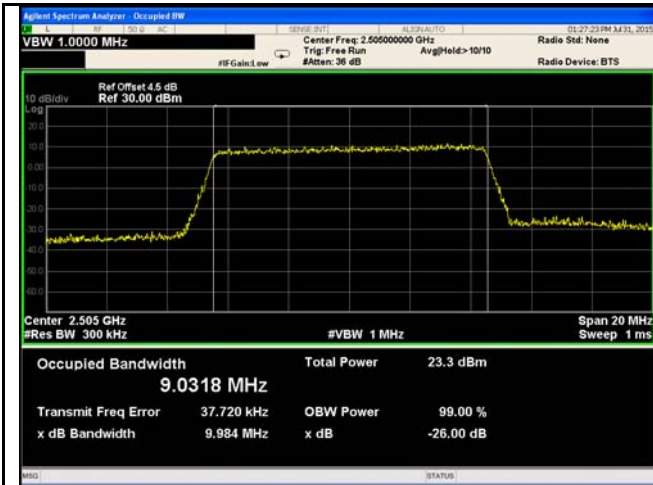
LTE band 7 - Middle CH 16QAM-5



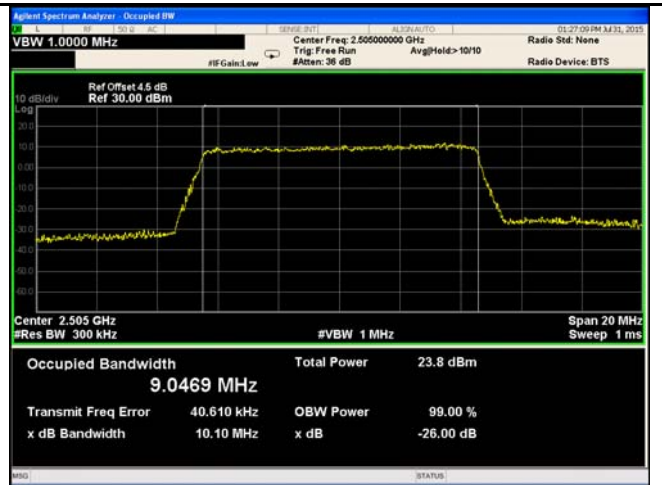
LTE band 7 - High CH QPSK-5



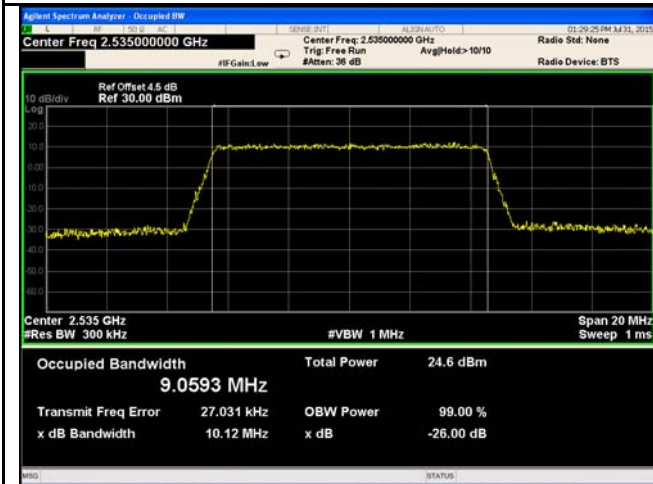
LTE band 7 - High CH 16QAM-5



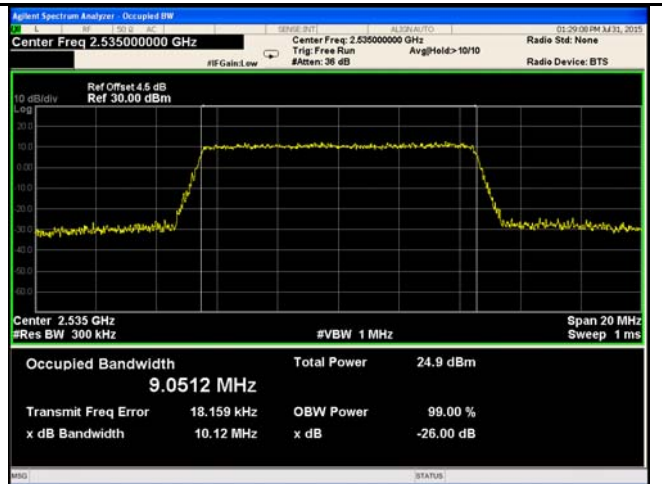
LTE band 7 - Low CH QPSK-10



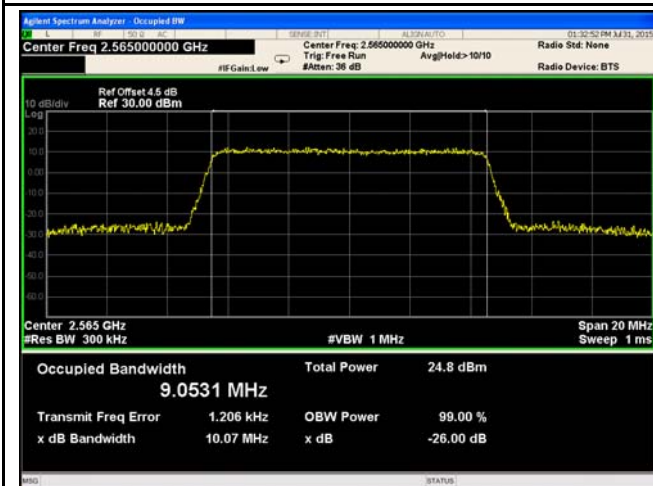
LTE band 7 - Low CH 16QAM-10



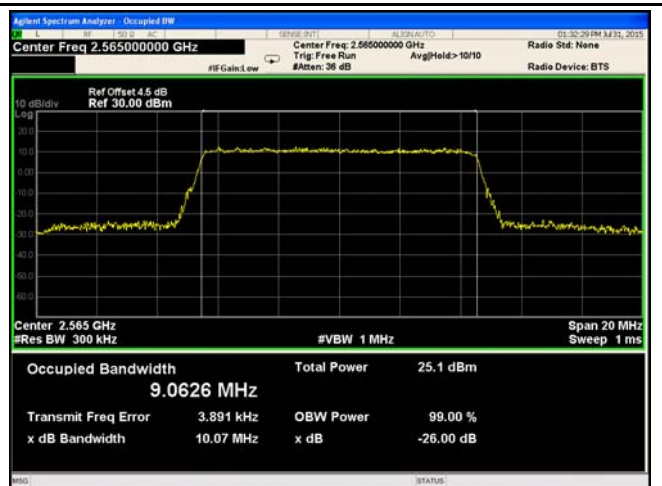
LTE band 7 - Middle CH QPSK-10



LTE band 7 - Middle CH 16QAM-10



LTE band 7 - High CH QPSK-10



LTE band 7 - High CH 16QAM-10