

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts) | 10MHz                 | LIMIT (ppm) |
|-----------------|-----------------------|-------------|
|                 | FREQUENCY ERROR (ppm) |             |
|                 | Mid Channel           |             |
| $V_{nor}$       | 0.0028                | 2.5         |
| $V_{min}$       | -0.0032               | 2.5         |
| $V_{max}$       | 0.0026                | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 10MHz                 | LIMIT (ppm) |
|------------|-----------------------|-------------|
|            | FREQUENCY ERROR (ppm) |             |
|            | Mid Channel           |             |
| -30        | -0.0128               | 2.5         |
| -20        | -0.0104               | 2.5         |
| -10        | -0.0087               | 2.5         |
| 0          | -0.0081               | 2.5         |
| 10         | -0.0058               | 2.5         |
| 20         | -0.0042               | 2.5         |
| 30         | -0.0041               | 2.5         |
| 40         | -0.0017               | 2.5         |
| 50         | -0.0005               | 2.5         |

**LTE BAND 17**

**FREQUENCY ERROR VS. VOLTAGE**

| VOLTAGE (Volts)  | 5MHz                  |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0025                | 0.0028       | 2.5         |
| V <sub>min</sub> | -0.0027               | -0.0035      | 2.5         |
| V <sub>max</sub> | 0.0025                | 0.0025       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

**FREQUENCY ERROR vs. TEMPERATURE.**

| TEMP. (°C) | 5MHz                  |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0144               | -0.0134      | 2.5         |
| -20        | -0.0125               | -0.0116      | 2.5         |
| -10        | -0.0098               | -0.0098      | 2.5         |
| 0          | -0.0089               | -0.0089      | 2.5         |
| 10         | -0.0059               | -0.0064      | 2.5         |
| 20         | -0.0045               | -0.0049      | 2.5         |
| 30         | -0.0034               | -0.0038      | 2.5         |
| 40         | -0.0027               | -0.0017      | 2.5         |
| 50         | -0.0003               | -0.0005      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 10MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.003                 | 0.0029       | 2.5         |
| V <sub>min</sub> | -0.0036               | -0.0036      | 2.5         |
| V <sub>max</sub> | 0.0029                | 0.0029       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 10MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0134               | -0.0136      | 2.5         |
| -20        | -0.0124               | -0.0119      | 2.5         |
| -10        | -0.0099               | -0.0097      | 2.5         |
| 0          | -0.0091               | -0.009       | 2.5         |
| 10         | -0.0065               | -0.0059      | 2.5         |
| 20         | -0.0044               | -0.0044      | 2.5         |
| 30         | -0.0029               | -0.0031      | 2.5         |
| 40         | -0.0026               | -0.0022      | 2.5         |
| 50         | -0.0005               | -0.0004      | 2.5         |

**LTE BAND 30**

**FREQUENCY ERROR VS. VOLTAGE**

| VOLTAGE (Volts)  | 5MHz                  |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0008                | 0.0016       | 2.5         |
| V <sub>min</sub> | -0.0008               | -0.002       | 2.5         |
| V <sub>max</sub> | 0.0008                | 0.0013       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

**FREQUENCY ERROR vs. TEMPERATURE.**

| TEMP. (°C) | 5MHz                  |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0042               | -0.0043      | 2.5         |
| -20        | -0.004                | -0.0035      | 2.5         |
| -10        | -0.003                | -0.003       | 2.5         |
| 0          | -0.0027               | -0.0027      | 2.5         |
| 10         | -0.0019               | -0.0018      | 2.5         |
| 20         | -0.0014               | -0.0014      | 2.5         |
| 30         | -0.001                | -0.0014      | 2.5         |
| 40         | -0.0006               | -0.0008      | 2.5         |
| 50         | -0.0001               | -0.0002      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts) | 10MHz                 | LIMIT (ppm) |
|-----------------|-----------------------|-------------|
|                 | FREQUENCY ERROR (ppm) |             |
|                 | Middle Channel        |             |
| $V_{nor}$       | 0.0009                | 2.5         |
| $V_{min}$       | -0.0011               | 2.5         |
| $V_{max}$       | 0.0009                | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 5MHz                  | LIMIT (ppm) |
|------------|-----------------------|-------------|
|            | FREQUENCY ERROR (ppm) |             |
|            | Middle Channel        |             |
| -30        | -0.0041               | 2.5         |
| -20        | -0.0038               | 2.5         |
| -10        | -0.0029               | 2.5         |
| 0          | -0.0027               | 2.5         |
| 10         | -0.002                | 2.5         |
| 20         | -0.0014               | 2.5         |
| 30         | -0.0015               | 2.5         |
| 40         | -0.0006               | 2.5         |
| 50         | -0.0002               | 2.5         |

**LTE BAND 66**

**FREQUENCY ERROR VS. VOLTAGE**

| VOLTAGE (Volts)  | 1.4MHz                |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.001                 | 0.0011       | 2.5         |
| V <sub>min</sub> | -0.0015               | -0.0014      | 2.5         |
| V <sub>max</sub> | 0.001                 | 0.001        | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

**FREQUENCY ERROR vs. TEMPERATURE.**

| TEMP. (°C) | 1.4MHz                |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.006                | -0.0053      | 2.5         |
| -20        | -0.0051               | -0.0046      | 2.5         |
| -10        | -0.0041               | -0.004       | 2.5         |
| 0          | -0.0037               | -0.0036      | 2.5         |
| 10         | -0.0027               | -0.0023      | 2.5         |
| 20         | -0.002                | -0.002       | 2.5         |
| 30         | -0.0013               | -0.0016      | 2.5         |
| 40         | -0.0008               | -0.001       | 2.5         |
| 50         | -0.0003               | -0.0003      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 3MHz                  |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.001                 | 0.001        | 2.5         |
| V <sub>min</sub> | -0.001                | -0.0012      | 2.5         |
| V <sub>max</sub> | 0.0008                | 0.0008       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 3MHz                  |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0056               | -0.0056      | 2.5         |
| -20        | -0.0052               | -0.0047      | 2.5         |
| -10        | -0.0041               | -0.0039      | 2.5         |
| 0          | -0.0036               | -0.0036      | 2.5         |
| 10         | -0.0022               | -0.0024      | 2.5         |
| 20         | -0.0021               | -0.0018      | 2.5         |
| 30         | -0.0019               | -0.0019      | 2.5         |
| 40         | -0.0007               | -0.0007      | 2.5         |
| 50         | -0.0002               | -0.0002      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 5MHz                  |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.001                 | 0.0011       | c           |
| V <sub>min</sub> | -0.0011               | -0.0015      | 2.5         |
| V <sub>max</sub> | 0.001                 | 0.001        | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 5MHz                  |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0059               | -0.0054      | 2.5         |
| -20        | -0.0048               | -0.0051      | 2.5         |
| -10        | -0.0041               | -0.0039      | 2.5         |
| 0          | -0.0037               | -0.0035      | 2.5         |
| 10         | -0.0025               | -0.0021      | 2.5         |
| 20         | -0.0018               | -0.0019      | 2.5         |
| 30         | -0.0017               | -0.0018      | 2.5         |
| 40         | -0.0009               | -0.0009      | 2.5         |
| 50         | -0.0001               | -0.0002      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 10MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0013                | 0.0011       | 2.5         |
| V <sub>min</sub> | -0.0015               | -0.0015      | 2.5         |
| V <sub>max</sub> | 0.0012                | 0.0012       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 10MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0056               | -0.0055      | 2.5         |
| -20        | -0.0052               | -0.0047      | 2.5         |
| -10        | -0.004                | -0.0038      | 2.5         |
| 0          | -0.0036               | -0.0036      | 2.5         |
| 10         | -0.0025               | -0.0025      | 2.5         |
| 20         | -0.002                | -0.0018      | 2.5         |
| 30         | -0.0018               | -0.0012      | 2.5         |
| 40         | -0.0008               | -0.001       | 2.5         |
| 50         | -0.0001               | -0.0002      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 15MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0012                | 0.0011       | 2.5         |
| V <sub>min</sub> | -0.0015               | -0.0015      | 2.5         |
| V <sub>max</sub> | 0.0013                | 0.0012       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 15MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0055               | -0.0054      | 2.5         |
| -20        | -0.005                | -0.0048      | 2.5         |
| -10        | -0.0041               | -0.0038      | 2.5         |
| 0          | -0.0036               | -0.0035      | 2.5         |
| 10         | -0.0025               | -0.0021      | 2.5         |
| 20         | -0.002                | -0.0021      | 2.5         |
| 30         | -0.0014               | -0.0012      | 2.5         |
| 40         | -0.0008               | -0.0009      | 2.5         |
| 50         | -0.0001               | -0.0002      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 20MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0012                | 0.0012       | 2.5         |
| V <sub>min</sub> | -0.0015               | -0.0014      | 2.5         |
| V <sub>max</sub> | 0.0013                | 0.0012       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 20MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0059               | -0.0056      | 2.5         |
| -20        | -0.0052               | -0.0052      | 2.5         |
| -10        | -0.004                | -0.004       | 2.5         |
| 0          | -0.0036               | -0.0036      | 2.5         |
| 10         | -0.0027               | -0.0022      | 2.5         |
| 20         | -0.0019               | -0.002       | 2.5         |
| 30         | -0.0015               | -0.0016      | 2.5         |
| 40         | -0.0008               | -0.001       | 2.5         |
| 50         | -0.0001               | -0.0002      | 2.5         |

**LTE BAND 71**

**FREQUENCY ERROR VS. VOLTAGE**

| VOLTAGE (Volts)  | 5MHz                  |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0026                | 0.003        | 2.5         |
| V <sub>min</sub> | -0.0029               | -0.0037      | 2.5         |
| V <sub>max</sub> | 0.0026                | 0.0025       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

**FREQUENCY ERROR vs. TEMPERATURE.**

| TEMP. (°C) | 5MHz                  |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0142               | -0.0143      | 2.5         |
| -20        | -0.0129               | -0.0126      | 2.5         |
| -10        | -0.0105               | -0.0097      | 2.5         |
| 0          | -0.0092               | -0.0088      | 2.5         |
| 10         | -0.0057               | -0.0065      | 2.5         |
| 20         | -0.0049               | -0.0047      | 2.5         |
| 30         | -0.0051               | -0.0043      | 2.5         |
| 40         | -0.0025               | -0.0024      | 2.5         |
| 50         | -0.0003               | -0.0003      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 10MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0033                | 0.0032       | 2.5         |
| V <sub>min</sub> | -0.0038               | -0.0037      | 2.5         |
| V <sub>max</sub> | 0.0033                | 0.003        | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 10MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0151               | -0.0135      | 2.5         |
| -20        | -0.0123               | -0.0131      | 2.5         |
| -10        | -0.0104               | -0.0102      | 2.5         |
| 0          | -0.0094               | -0.0091      | 2.5         |
| 10         | -0.0057               | -0.0054      | 2.5         |
| 20         | -0.0047               | -0.0047      | 2.5         |
| 30         | -0.0053               | -0.0047      | 2.5         |
| 40         | -0.0026               | -0.0023      | 2.5         |
| 50         | -0.0004               | -0.0005      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 15MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0032                | 0.0031       | 2.5         |
| V <sub>min</sub> | -0.0038               | -0.0038      | 2.5         |
| V <sub>max</sub> | 0.0032                | 0.0029       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | 15MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0147               | -0.0139      | 2.5         |
| -20        | -0.0131               | -0.0123      | 2.5         |
| -10        | -0.0103               | -0.0103      | 2.5         |
| 0          | -0.0095               | -0.0088      | 2.5         |
| 10         | -0.0069               | -0.0054      | 2.5         |
| 20         | -0.0052               | -0.0051      | 2.5         |
| 30         | -0.004                | -0.0044      | 2.5         |
| 40         | -0.0028               | -0.0021      | 2.5         |
| 50         | -0.0007               | -0.0003      | 2.5         |

#### FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts)  | 20MHz                 |              | LIMIT (ppm) |
|------------------|-----------------------|--------------|-------------|
|                  | FREQUENCY ERROR (ppm) |              |             |
|                  | Low Channel           | High Channel |             |
| V <sub>nor</sub> | 0.0031                | 0.0029       | 2.5         |
| V <sub>min</sub> | -0.0038               | -0.0037      | 2.5         |
| V <sub>max</sub> | 0.003                 | 0.0029       | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from  $V_{min}$  Vdc to  $V_{max}$  Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

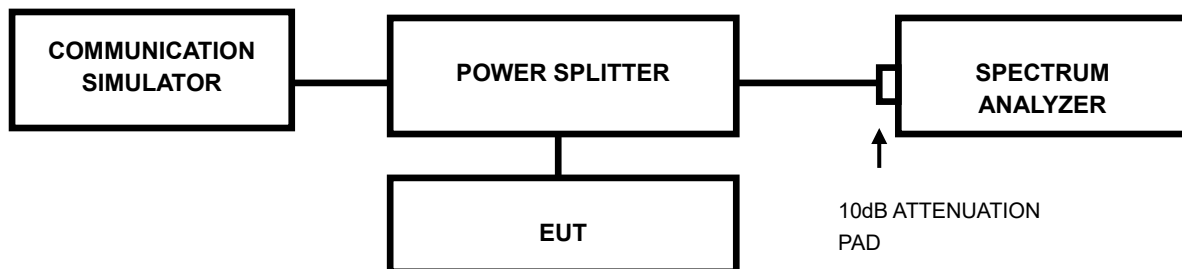
| TEMP. (°C) | 20MHz                 |              | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
|            | FREQUENCY ERROR (ppm) |              |             |
|            | Low Channel           | High Channel |             |
| -30        | -0.0151               | -0.0145      | 2.5         |
| -20        | -0.0128               | -0.0118      | 2.5         |
| -10        | -0.0106               | -0.0097      | 2.5         |
| 0          | -0.0093               | -0.0093      | 2.5         |
| 10         | -0.0059               | -0.0067      | 2.5         |
| 20         | -0.0048               | -0.0047      | 2.5         |
| 30         | -0.0047               | -0.003       | 2.5         |
| 40         | -0.0018               | -0.0021      | 2.5         |
| 50         | -0.0004               | -0.0006      | 2.5         |

### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.3.2 TEST SETUP



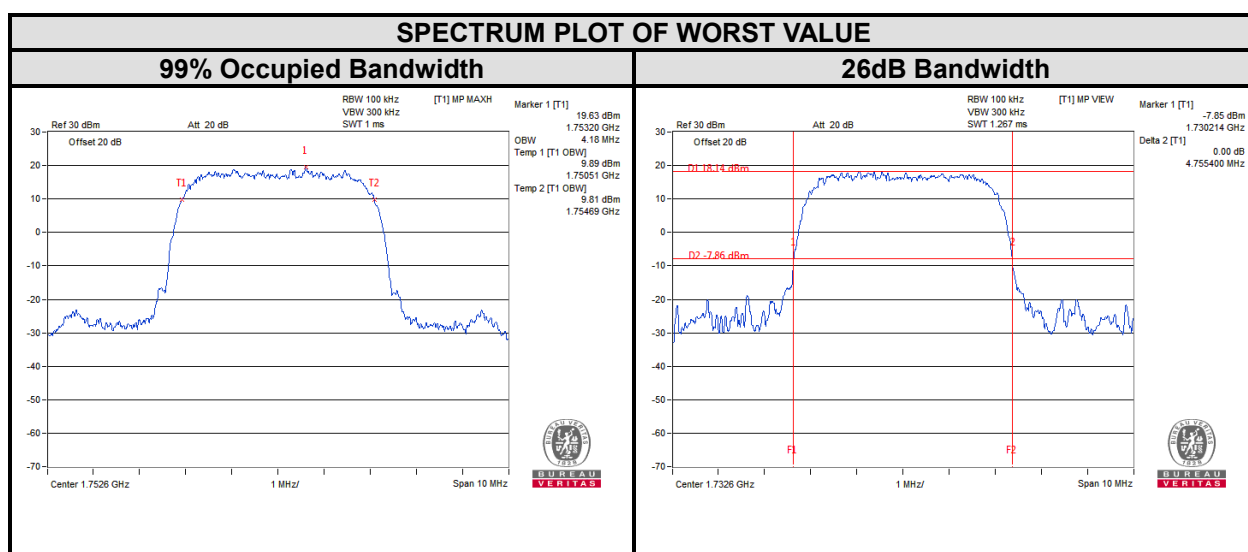
#### 3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

### 3.3.4 TEST RESULTS

#### WCDMA BAND IV

| Channel | FREQ. (MHz) | 99% Occupied Bandwidth (MHz) | Channel | FREQ. (MHz) | 26dB Bandwidth (MHz) |
|---------|-------------|------------------------------|---------|-------------|----------------------|
|         |             | WCDMA                        |         |             | WCDMA                |
| 1312    | 1712.40     | 4.17                         | 1312    | 1712.40     | 4.730                |
| 1413    | 1732.60     | 4.17                         | 1413    | 1732.60     | 4.755                |
| 1513    | 1752.60     | 4.18                         | 1513    | 1752.60     | 4.706                |



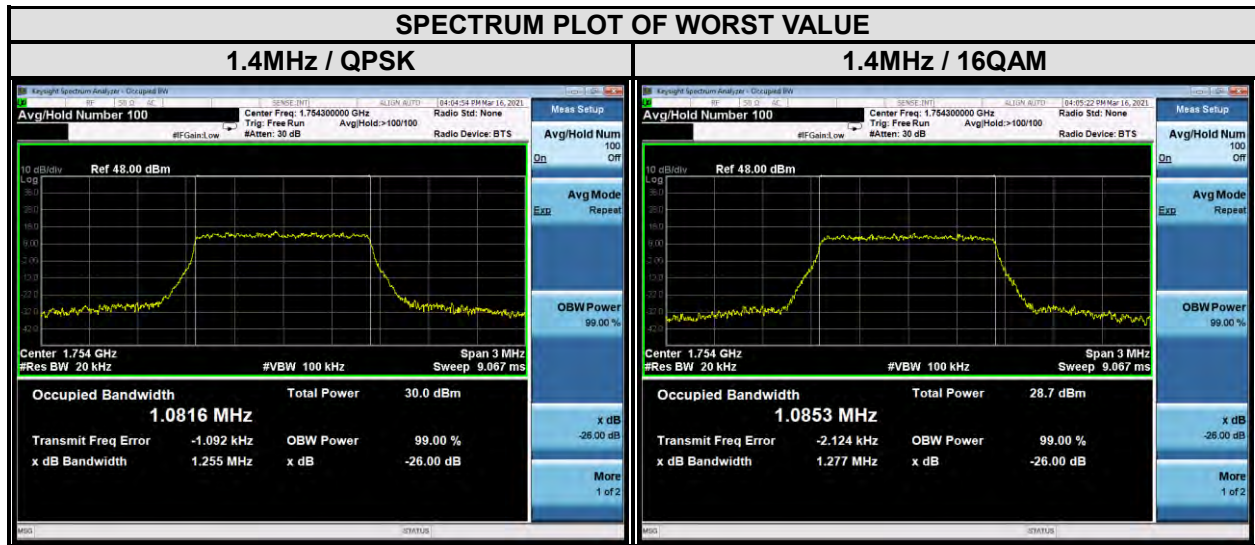


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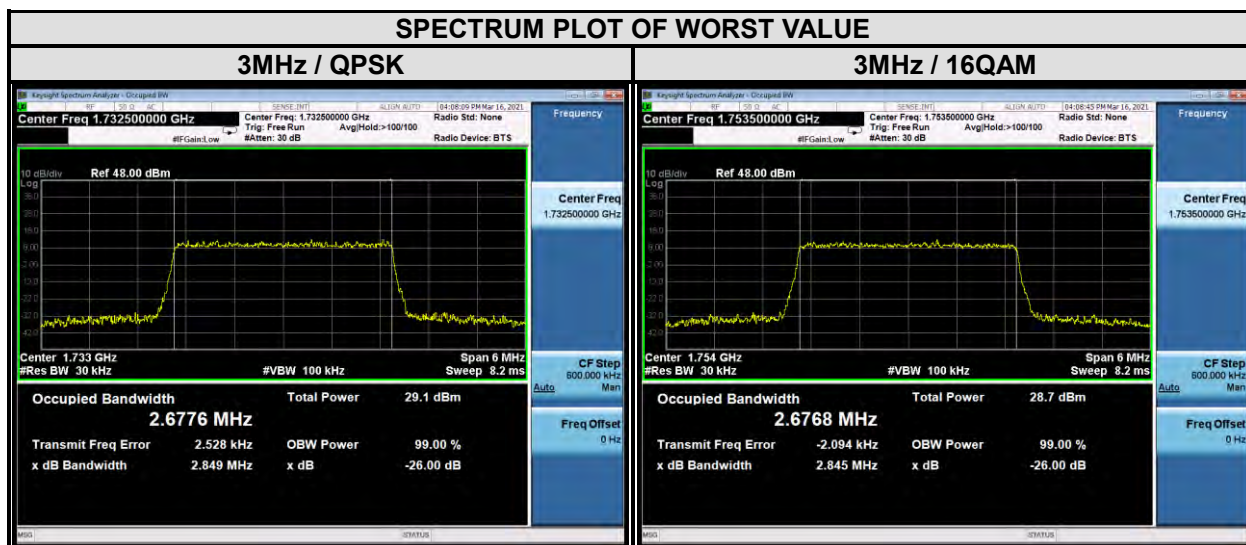
Test Report No.: RFA210222W001-3

## LTE BAND 4

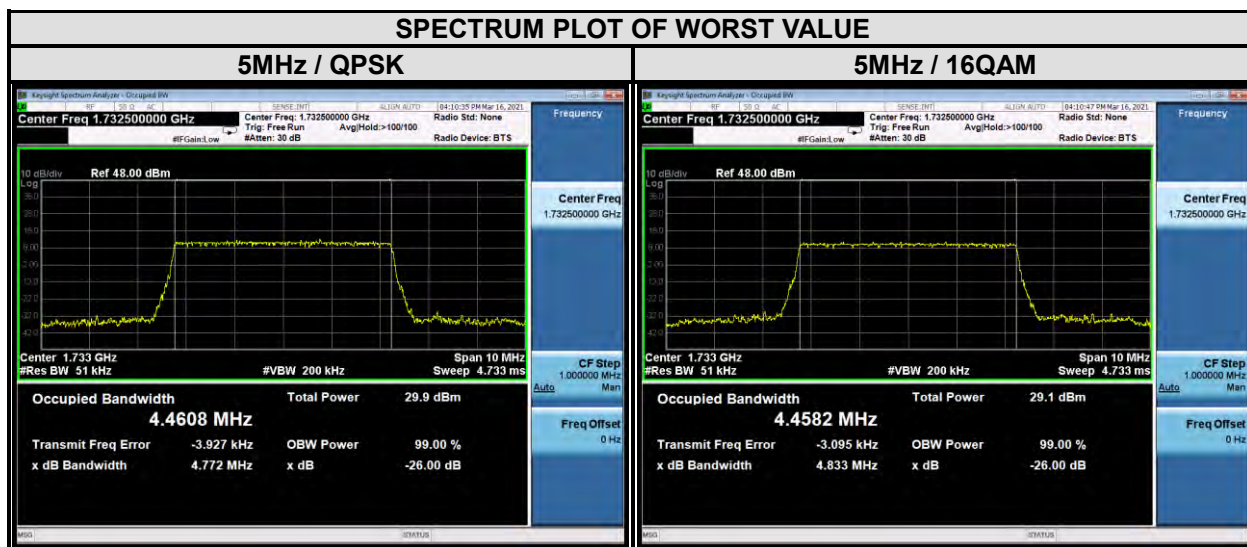
| LTE BAND 4                |                    |                                 |       |                      |       |
|---------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 1.4MHz |                    |                                 |       |                      |       |
| CHANNEL                   | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                           |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 19957                     | 1710.7             | 1.08                            | 1.08  | 1.24                 | 1.26  |
| 20175                     | 1732.5             | 1.08                            | 1.08  | 1.27                 | 1.24  |
| 20393                     | 1754.3             | 1.08                            | 1.09  | 1.26                 | 1.28  |



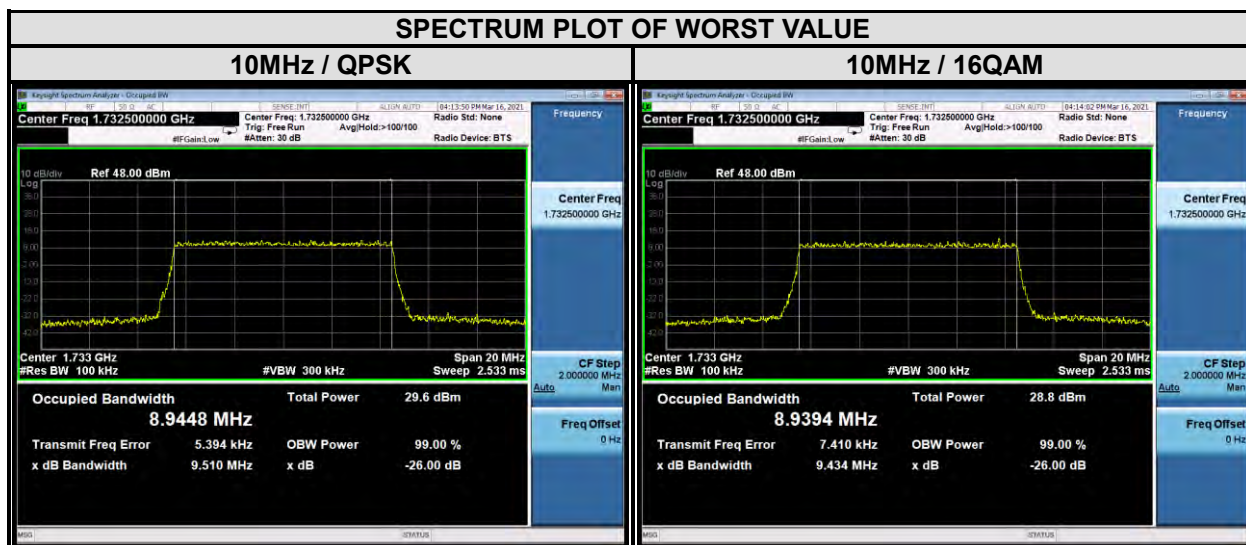
| LTE BAND 4              |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 3MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 19965                   | 1711.5             | 2.68                            | 2.67  | 2.86                 | 2.86  |
| 20175                   | 1732.5             | 2.68                            | 2.67  | 2.85                 | 2.86  |
| 20385                   | 1753.5             | 2.68                            | 2.68  | 2.86                 | 2.85  |



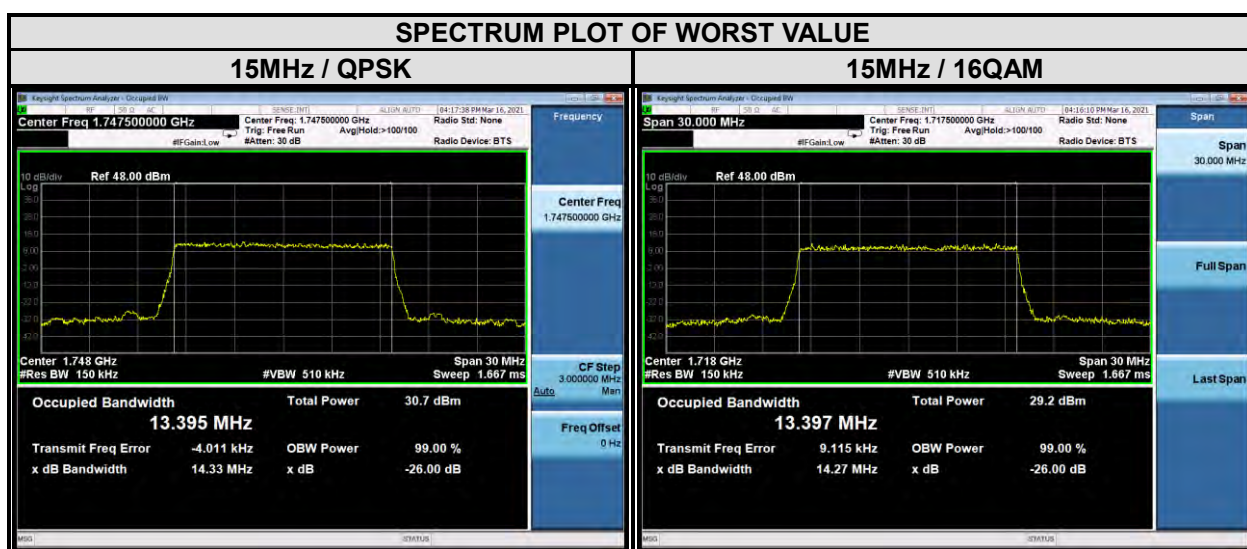
| LTE BAND 4              |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 5MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 19975                   | 1712.5             | 4.46                            | 4.46  | 4.81                 | 4.81  |
| 20175                   | 1732.5             | 4.46                            | 4.46  | 4.77                 | 4.83  |
| 20375                   | 1752.5             | 4.46                            | 4.45  | 4.80                 | 4.83  |



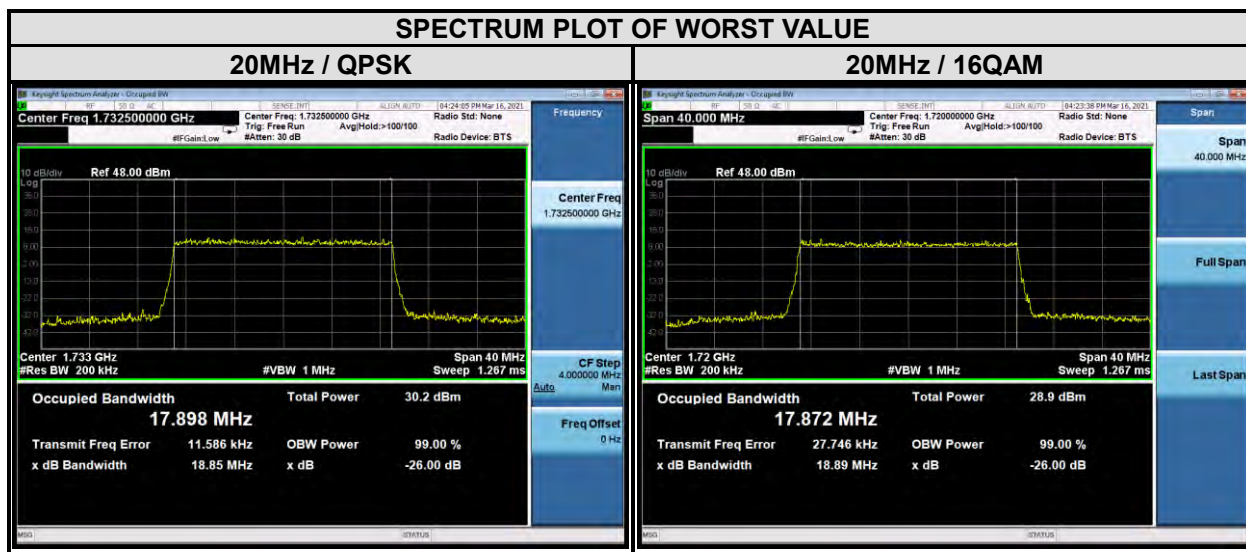
| LTE BAND 4               |                    |                                 |       |                      |       |
|--------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 10MHz |                    |                                 |       |                      |       |
| CHANNEL                  | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                          |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 20000                    | 1715               | 8.93                            | 8.93  | 9.51                 | 9.56  |
| 20175                    | 1732.5             | 8.94                            | 8.94  | 9.51                 | 9.43  |
| 20350                    | 1750               | 8.93                            | 8.93  | 9.50                 | 9.52  |



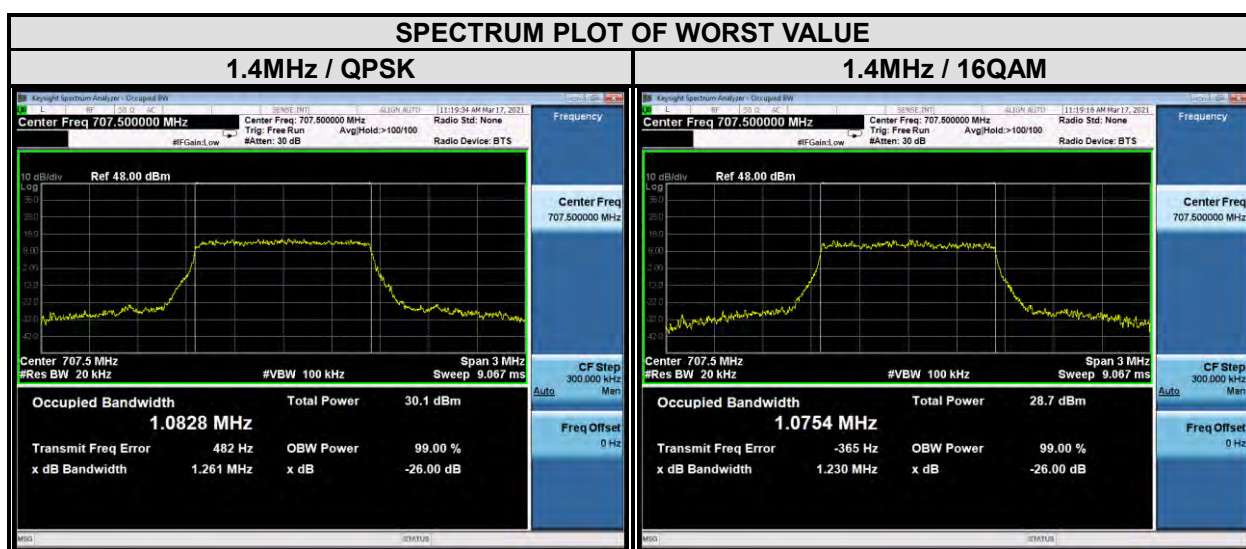
| LTE BAND 4              |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:15MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 20025                   | 1717.5             | 13.40                           | 13.40 | 14.30                | 14.27 |
| 20175                   | 1732.5             | 13.38                           | 13.39 | 14.18                | 14.31 |
| 20325                   | 1747.5             | 13.40                           | 13.39 | 14.33                | 14.23 |



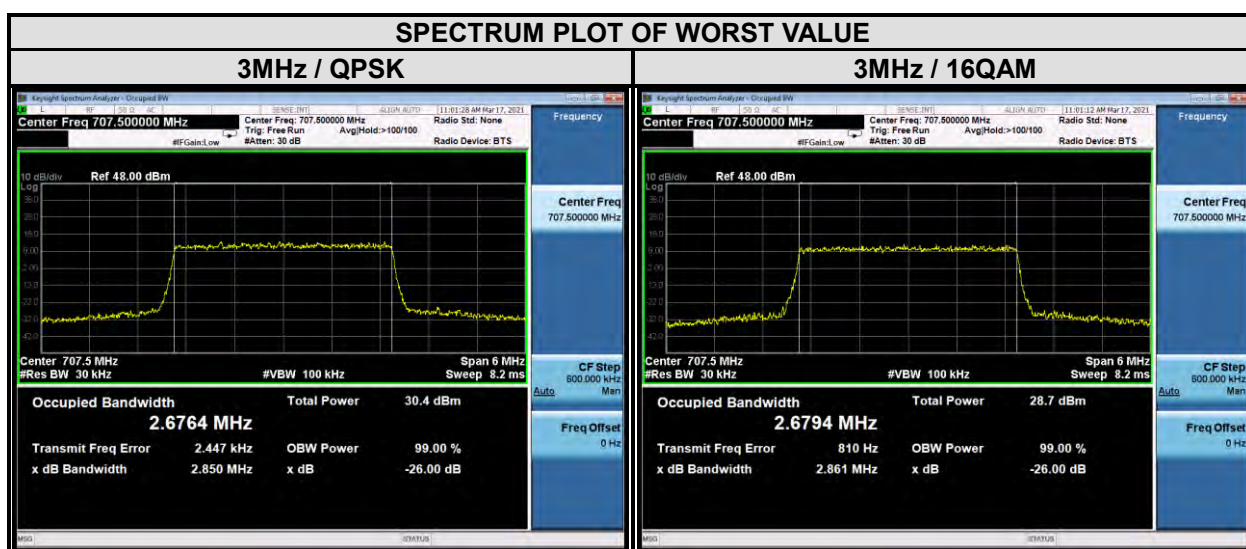
| LTE BAND 4               |                    |                                 |       |                      |       |
|--------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 20MHz |                    |                                 |       |                      |       |
| CHANNEL                  | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                          |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 20050                    | 1720               | 17.90                           | 17.87 | 18.84                | 18.89 |
| 20175                    | 1732.5             | 17.90                           | 17.85 | 18.85                | 18.84 |
| 20300                    | 1745               | 17.86                           | 17.87 | 18.89                | 19.01 |



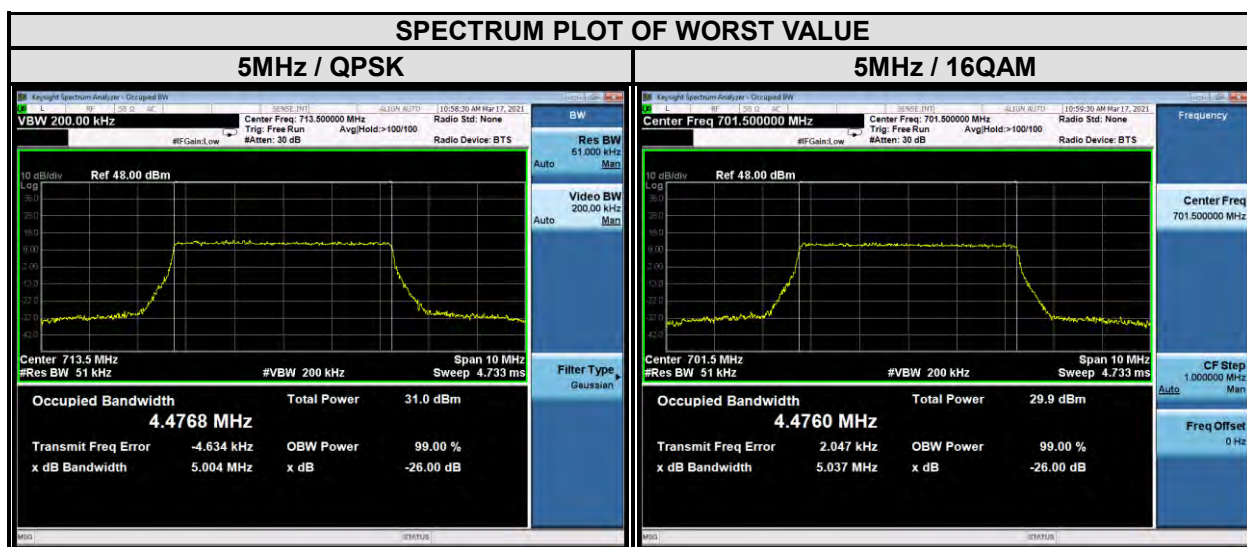
| LTE BAND 12               |                    |                                 |       |                      |       |
|---------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 1.4MHz |                    |                                 |       |                      |       |
| CHANNEL                   | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                           |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23017                     | 699.7              | 1.08                            | 1.09  | 1.24                 | 1.28  |
| 23095                     | 707.5              | 1.08                            | 1.08  | 1.26                 | 1.23  |
| 23173                     | 715.3              | 1.08                            | 1.08  | 1.25                 | 1.25  |



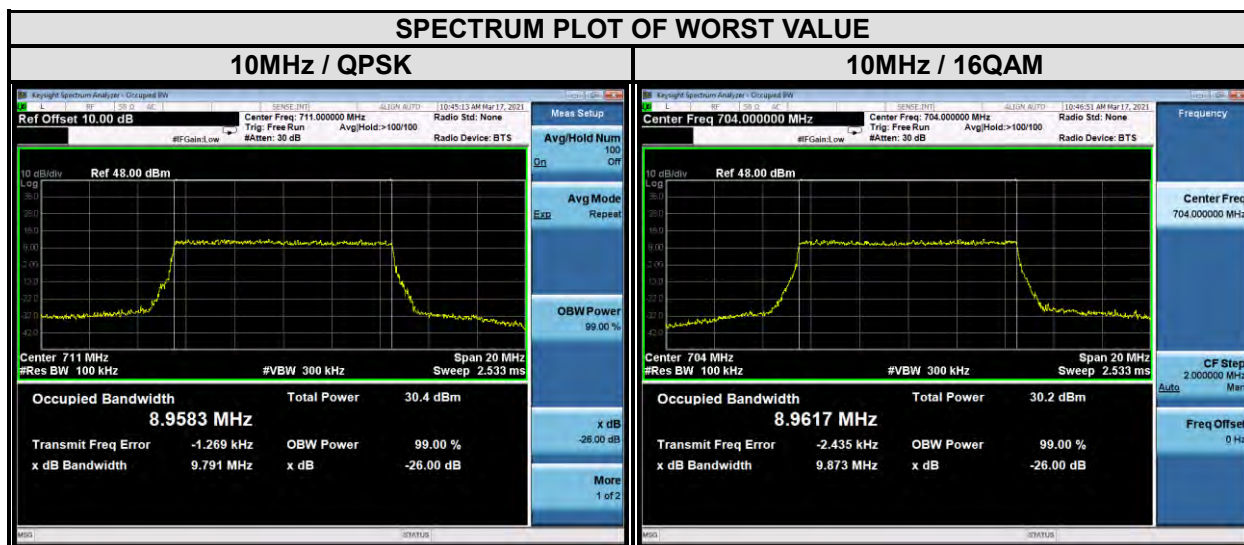
| LTE BAND 12             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH: 3MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23025                   | 700.5              | 2.68                            | 2.67  | 2.86                 | 2.86  |
| 23095                   | 707.5              | 2.68                            | 2.68  | 2.85                 | 2.86  |
| 23165                   | 714.5              | 2.67                            | 2.67  | 2.85                 | 2.84  |



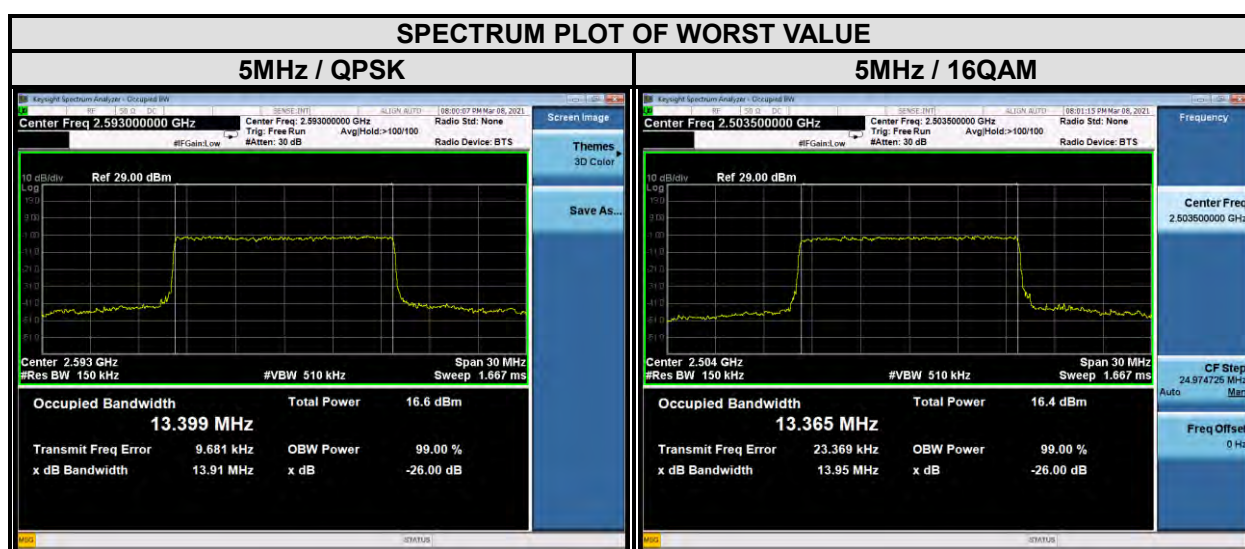
| LTE BAND 12            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23035                  | 701.5              | 4.47                            | 4.48  | 5.00                 | 5.04  |
| 23095                  | 707.5              | 4.46                            | 4.47  | 5.00                 | 5.04  |
| 23155                  | 713.5              | 4.48                            | 4.47  | 5.00                 | 4.92  |



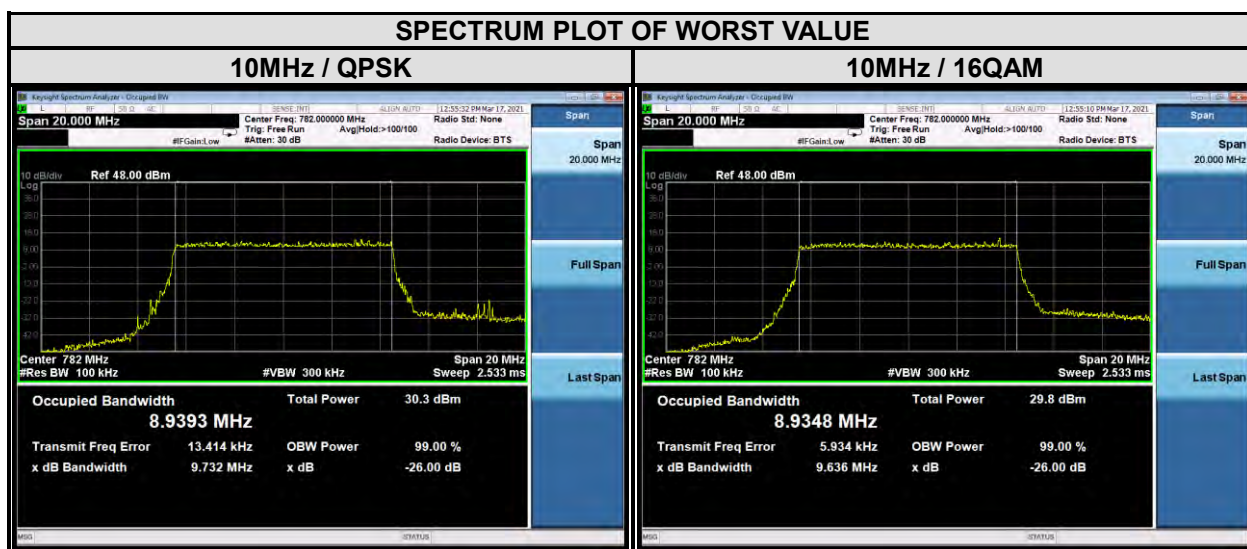
| LTE BAND 12             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23060                   | 704                | 8.95                            | 8.96  | 9.29                 | 9.28  |
| 23095                   | 707.5              | 8.93                            | 8.93  | 9.27                 | 9.29  |
| 23130                   | 711                | 8.95                            | 8.95  | 9.30                 | 9.27  |



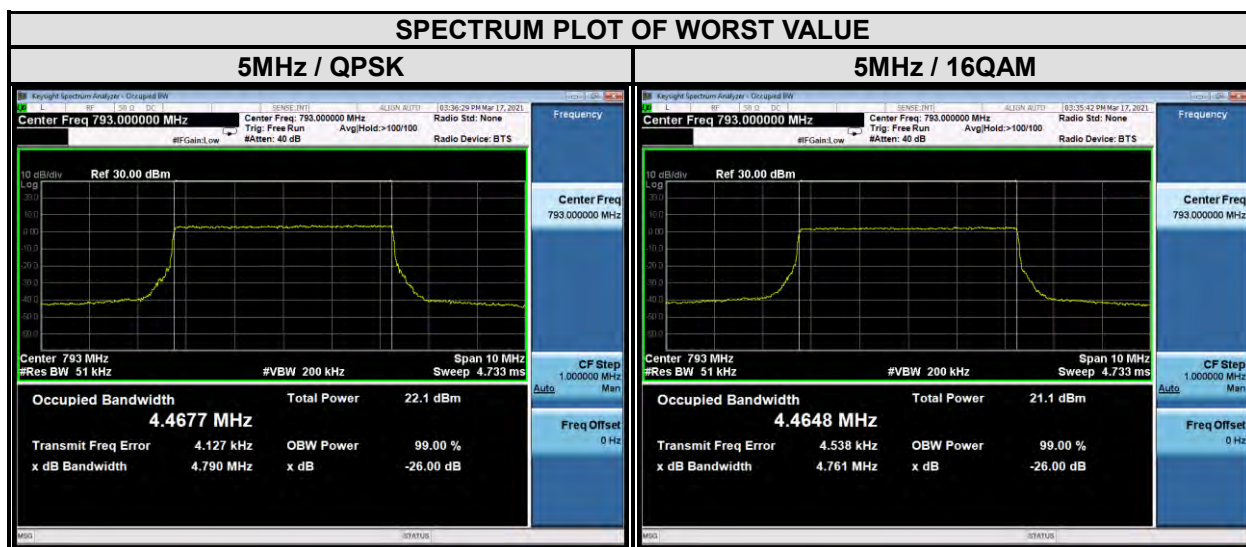
| LTE BAND 13            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23205                  | 779.5              | 4.46                            | 4.45  | 4.99                 | 4.99  |
| 23230                  | 782                | 4.47                            | 4.48  | 5.00                 | 5.04  |
| 23255                  | 784.5              | 4.49                            | 4.48  | 5.04                 | 4.95  |



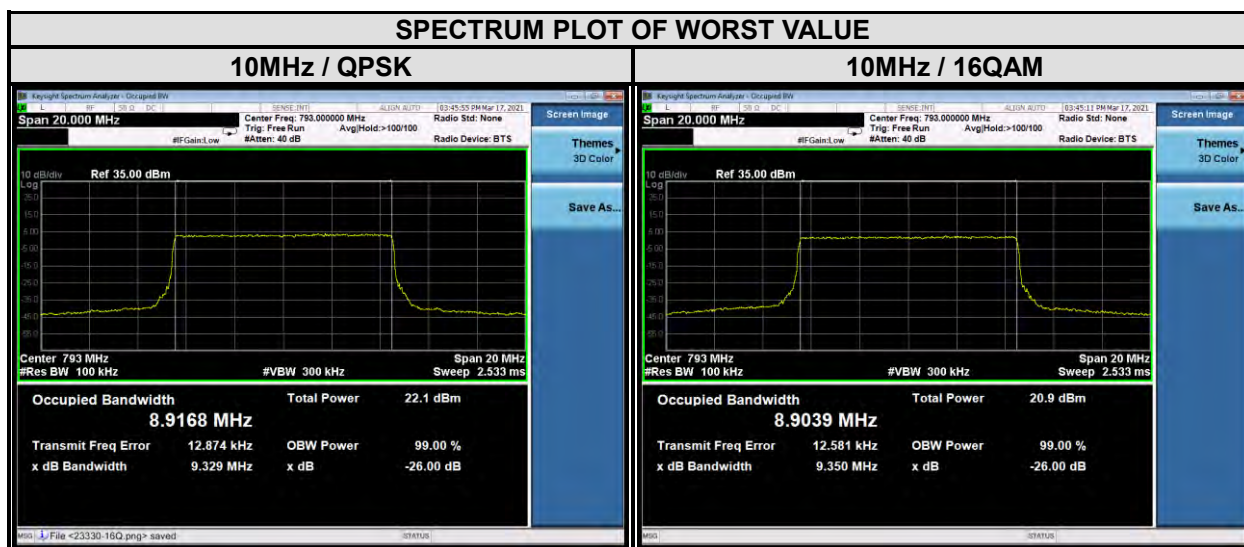
| LTE BAND 13             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| -                       | -                  | -                               | -     | -                    | -     |
| 23230                   | 782                | 8.94                            | 8.93  | 9.73                 | 9.64  |
| -                       | -                  | -                               | -     | -                    | -     |



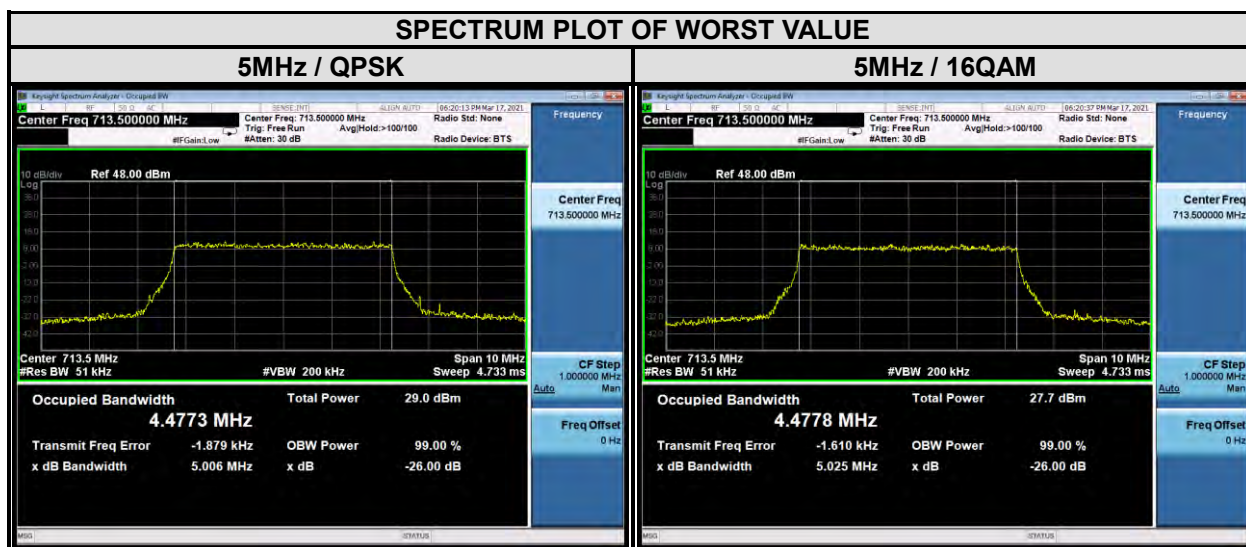
| LTE BAND 14            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23305                  | 790.5              | 4.47                            | 4.46  | 4.81                 | 4.78  |
| 23330                  | 793                | 4.47                            | 4.46  | 4.79                 | 4.76  |
| 23355                  | 795.5              | 4.46                            | 4.46  | 4.75                 | 4.77  |



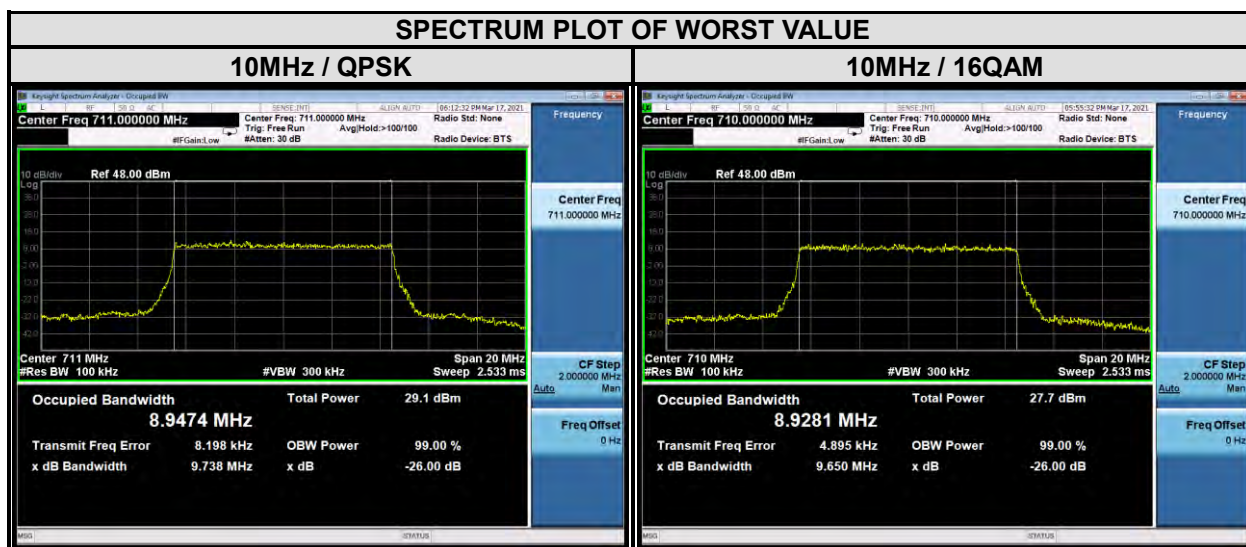
| LTE BAND 14             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| -                       | -                  | -                               | -     | -                    | -     |
| 23330                   | 793                | 8.92                            | 8.90  | 9.33                 | 9.35  |
| -                       | -                  | -                               | -     | -                    | -     |



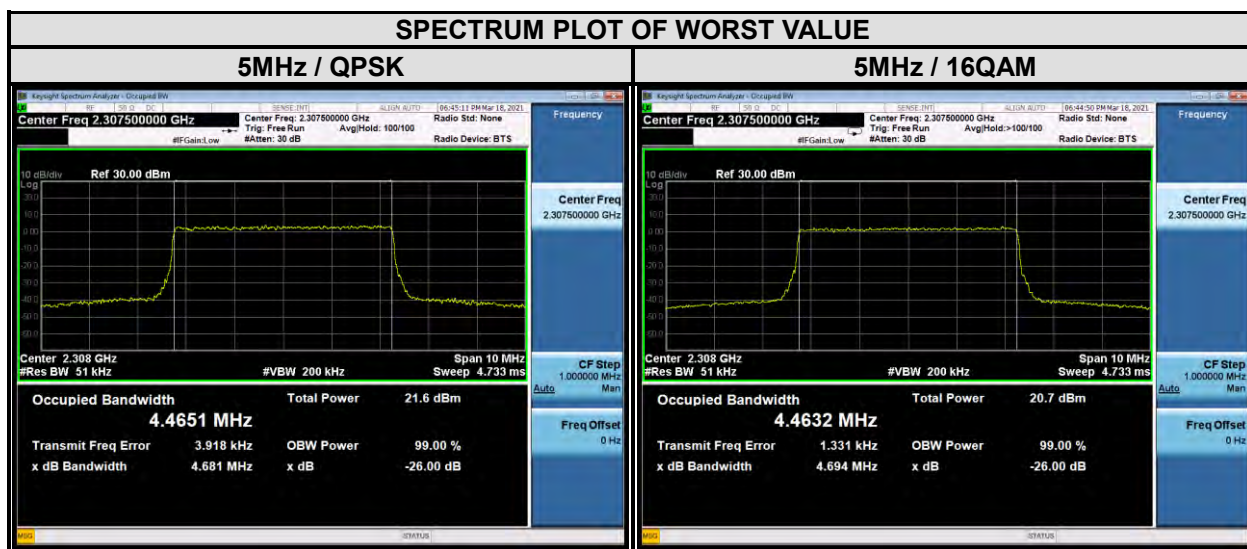
| LTE BAND 17            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23755                  | 706.5              | 4.48                            | 4.47  | 5.09                 | 5.00  |
| 23790                  | 710                | 4.47                            | 4.47  | 5.02                 | 5.00  |
| 23825                  | 713.5              | 4.48                            | 4.48  | 5.00                 | 5.03  |



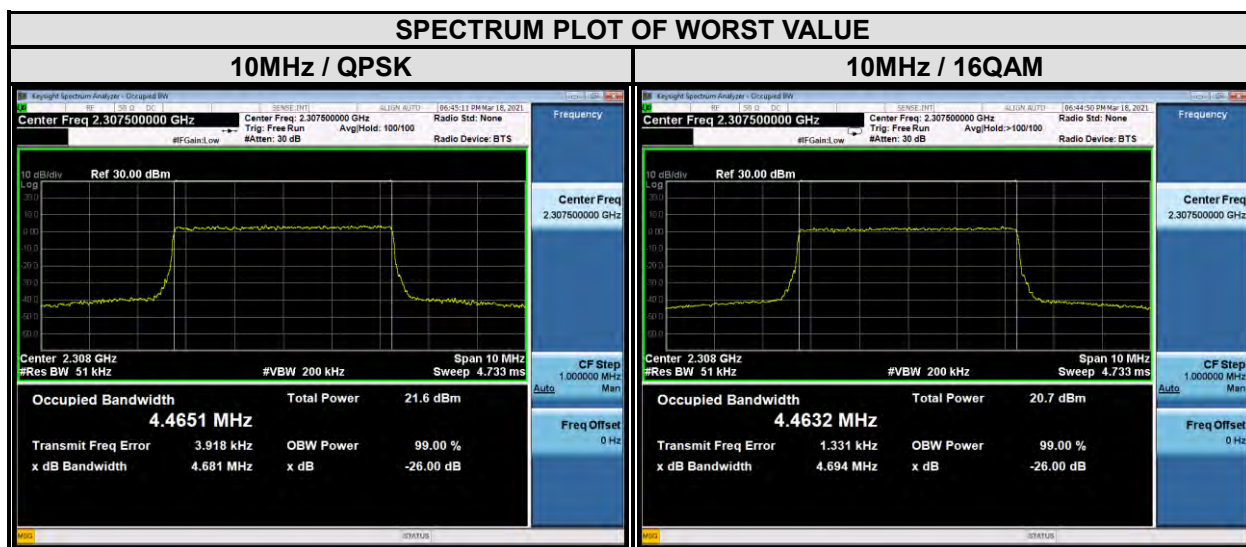
| LTE BAND 17             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 23780                   | 709                | 8.91                            | 8.91  | 9.69                 | 9.73  |
| 23790                   | 710                | 8.94                            | 8.93  | 9.64                 | 9.65  |
| 23800                   | 711                | 8.95                            | 8.93  | 9.74                 | 9.68  |



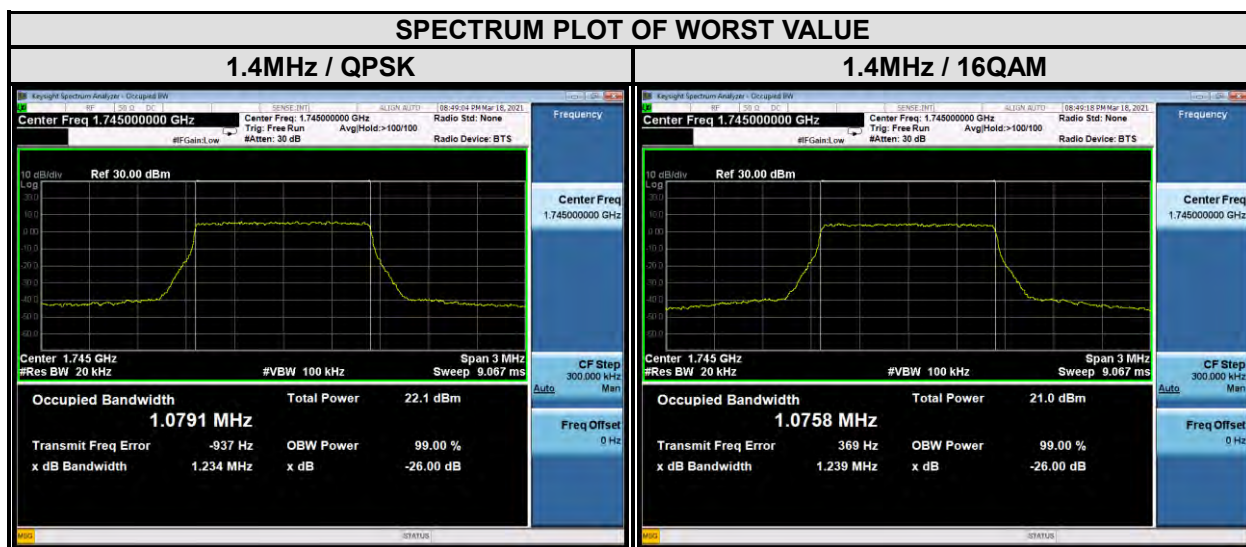
| LTE BAND 30            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 27685                  | 2307.5             | 4.47                            | 4.46  | 4.68                 | 4.69  |
| 27710                  | 2310               | 4.46                            | 4.46  | 4.66                 | 4.69  |
| 27735                  | 2312.5             | 4.46                            | 4.46  | 4.70                 | 4.69  |



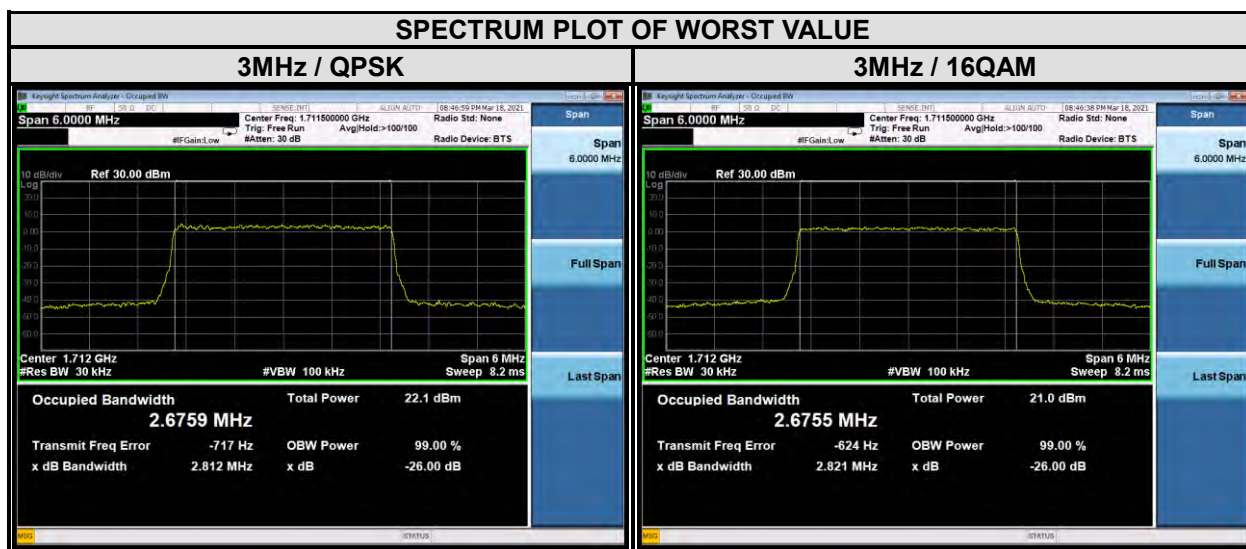
| LTE BAND 30             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| -                       | -                  | -                               | -     | -                    | -     |
| 27710                   | 2310               | 8.92                            | 8.93  | 9.31                 | 9.29  |
| -                       | -                  | -                               | -     | -                    | -     |



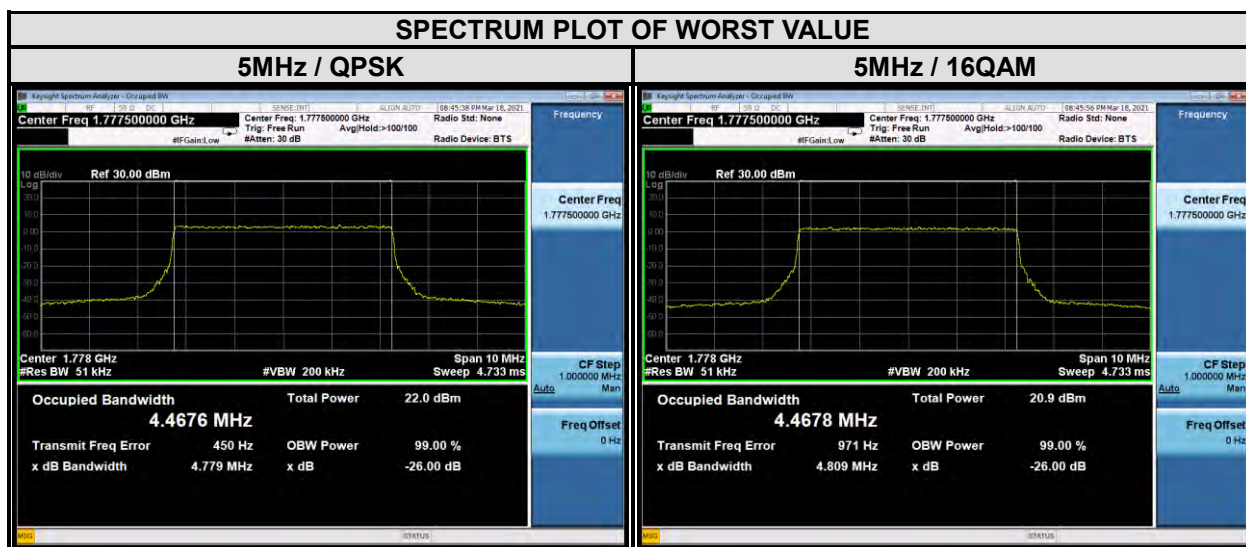
| LTE BAND 66              |                    |                                 |       |                      |       |
|--------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:1.4MHz |                    |                                 |       |                      |       |
| CHANNEL                  | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                          |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 131979                   | 1710.7             | 1.08                            | 1.08  | 1.24                 | 1.22  |
| 132322                   | 1745               | 1.08                            | 1.08  | 1.23                 | 1.24  |
| 132665                   | 1779.3             | 1.08                            | 1.08  | 1.24                 | 1.23  |



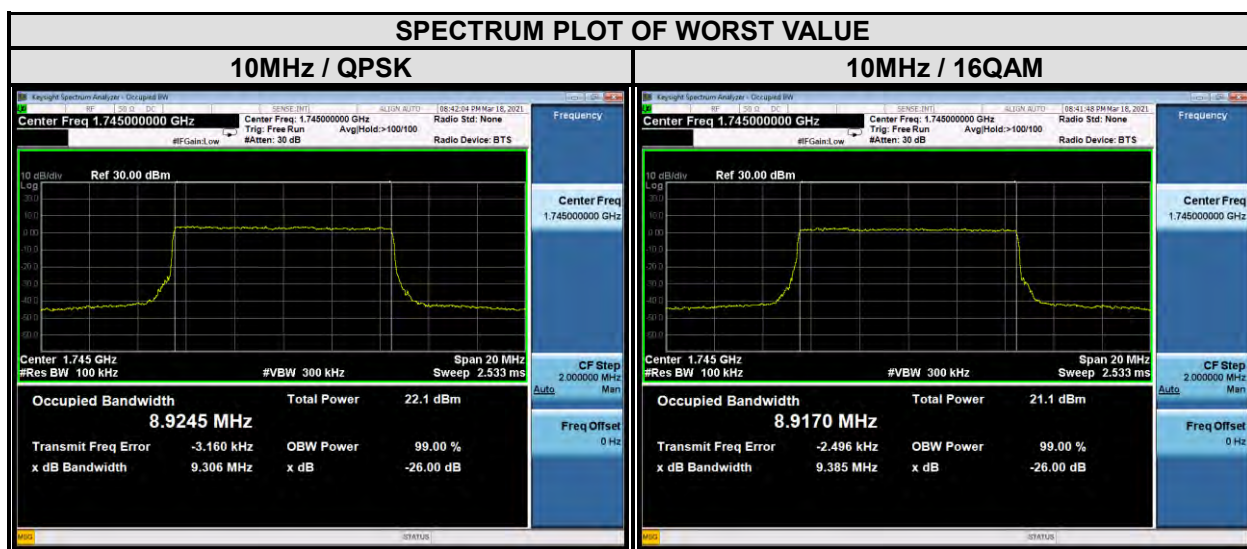
| LTE BAND 66            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:3MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 131987                 | 1711.5             | 2.68                            | 2.68  | 2.81                 | 2.82  |
| 132322                 | 1745               | 2.67                            | 2.67  | 2.81                 | 2.81  |
| 132657                 | 1778.5             | 2.68                            | 2.67  | 2.82                 | 2.81  |



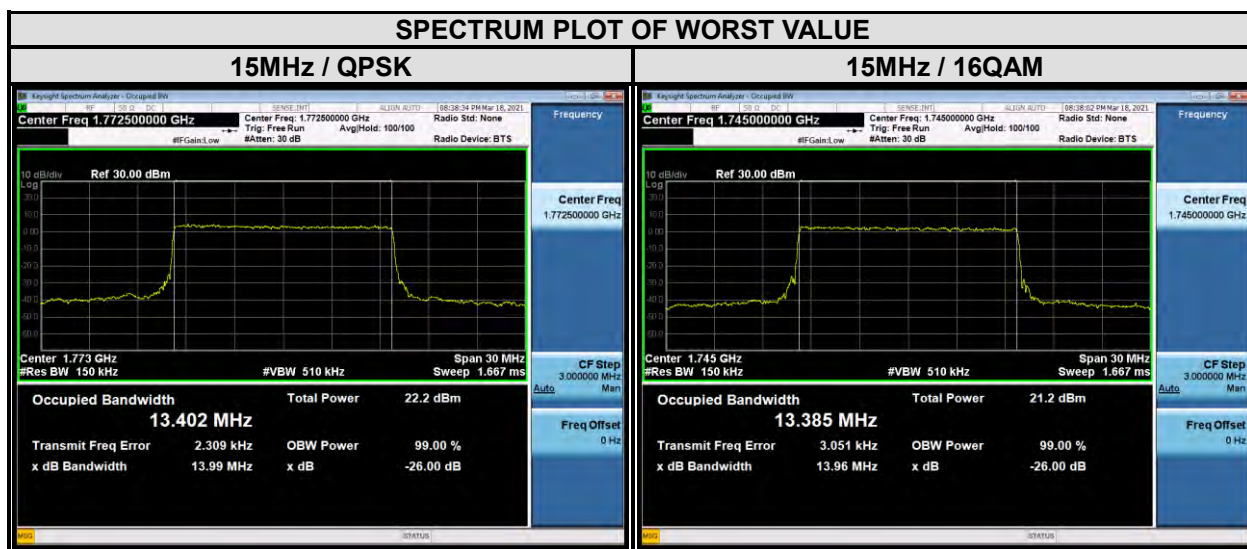
| LTE BAND 66            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 131997                 | 1712.5             | 4.46                            | 4.47  | 4.76                 | 4.80  |
| 132322                 | 1745               | 4.45                            | 4.47  | 4.76                 | 4.81  |
| 132647                 | 1777.5             | 4.47                            | 4.47  | 4.78                 | 4.81  |



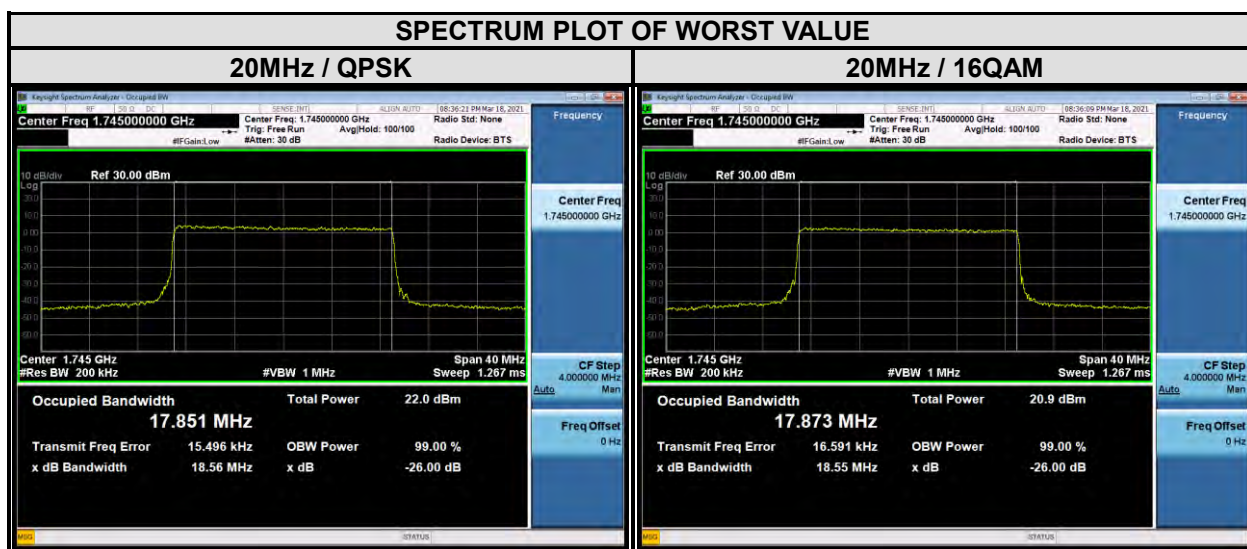
| LTE BAND 66             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 132022                  | 1715               | 8.92                            | 8.92  | 9.32                 | 9.36  |
| 132322                  | 1745               | 8.92                            | 8.92  | 9.31                 | 9.39  |
| 132622                  | 1775               | 8.92                            | 8.92  | 9.37                 | 9.36  |



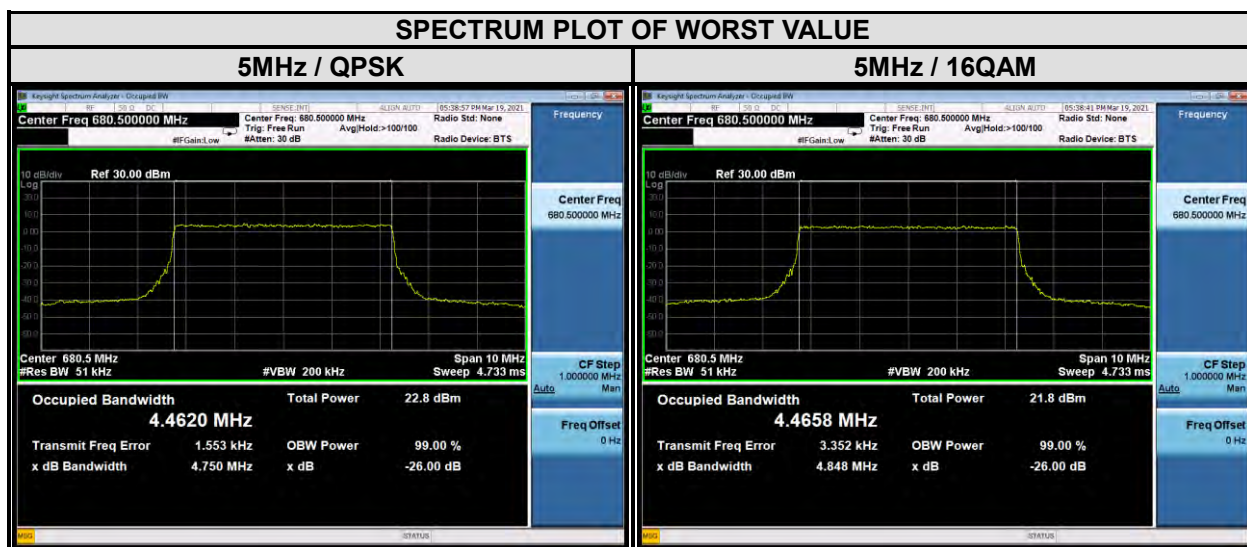
| LTE BAND 66             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:15MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 132047                  | 1717.5             | 13.40                           | 13.37 | 13.93                | 13.96 |
| 132322                  | 1745               | 13.38                           | 13.39 | 13.92                | 13.96 |
| 132597                  | 1772.5             | 13.40                           | 13.38 | 13.99                | 13.90 |



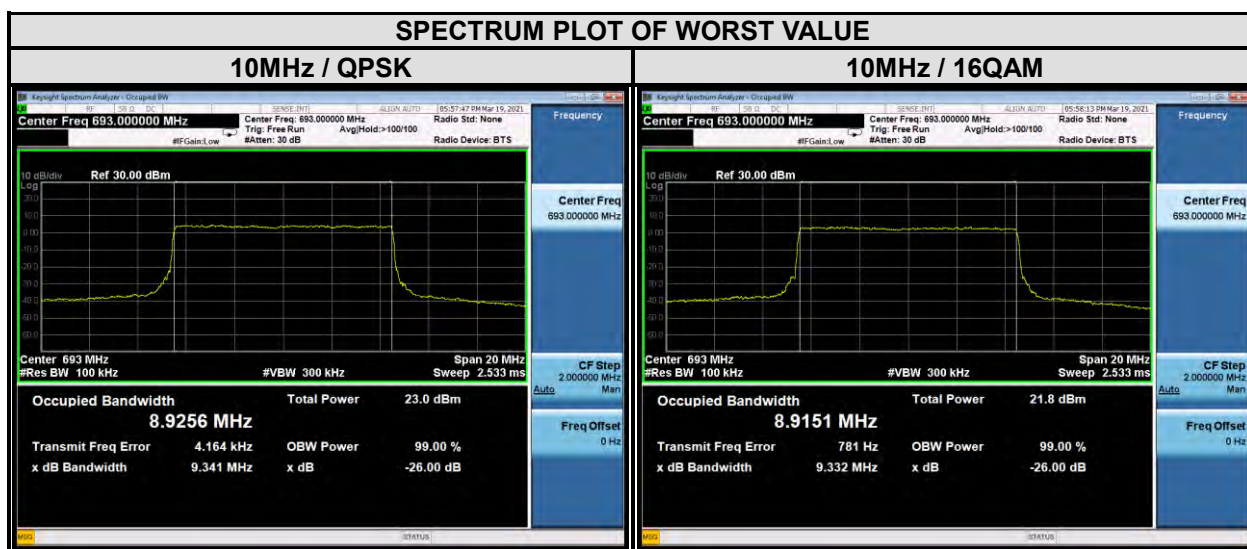
| LTE BAND 66             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:20MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 132072                  | 1720               | 17.84                           | 17.84 | 18.57                | 18.57 |
| 132322                  | 1745               | 17.85                           | 17.87 | 18.56                | 18.55 |
| 132572                  | 1770               | 17.84                           | 17.86 | 18.59                | 18.57 |



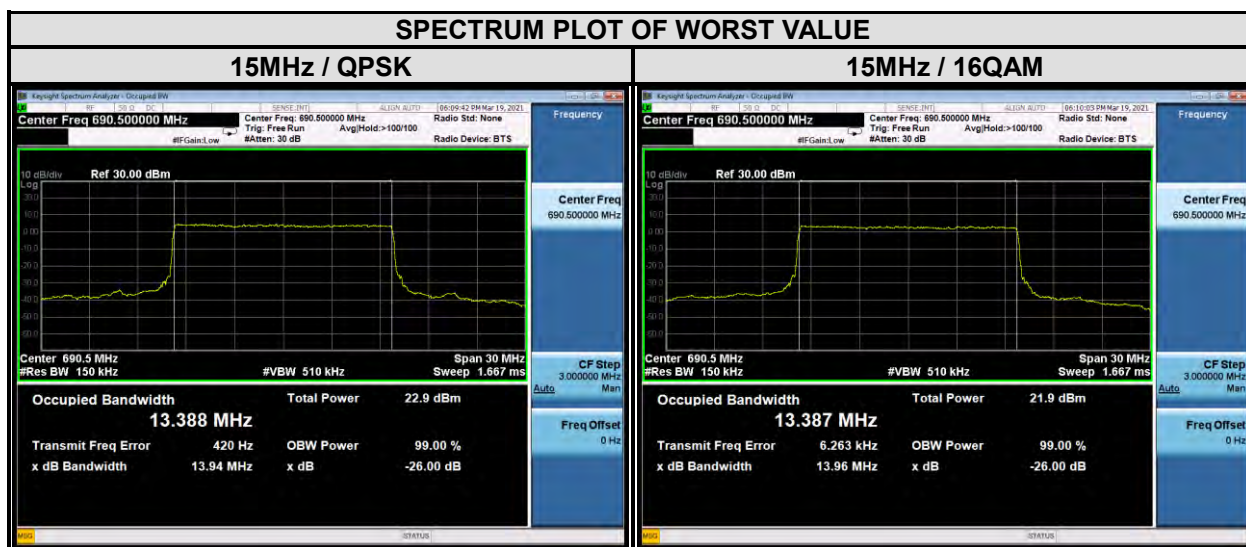
| LTE BAND 71            |                    |                                 |       |                      |       |
|------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:5MHz |                    |                                 |       |                      |       |
| CHANNEL                | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                        |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 133147                 | 665.5              | 4.46                            | 4.47  | 4.78                 | 4.84  |
| 133297                 | 680.5              | 4.46                            | 4.47  | 4.75                 | 4.85  |
| 133447                 | 695.5              | 4.46                            | 4.46  | 4.79                 | 4.79  |



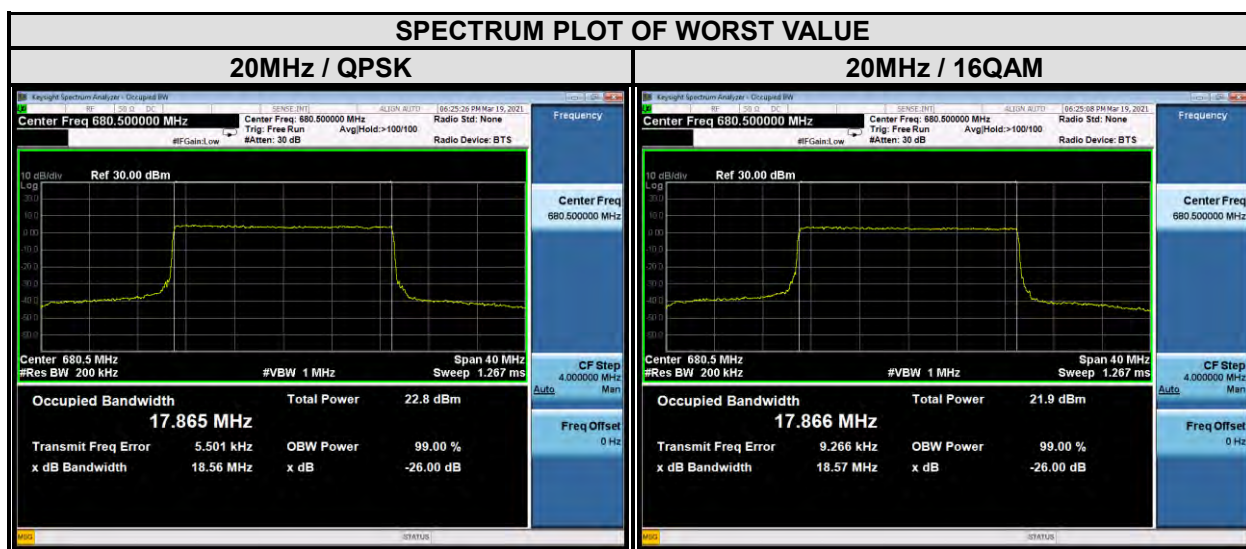
| LTE BAND 71             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:10MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 133172                  | 668                | 8.92                            | 8.91  | 9.36                 | 9.31  |
| 133297                  | 680.5              | 8.92                            | 8.92  | 9.41                 | 9.40  |
| 133422                  | 693                | 8.93                            | 8.92  | 9.34                 | 9.33  |



| LTE BAND 71             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:15MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 133197                  | 670.5              | 13.38                           | 13.38 | 14.00                | 13.93 |
| 133297                  | 680.5              | 13.39                           | 13.38 | 13.97                | 13.96 |
| 133397                  | 690.5              | 13.39                           | 13.39 | 13.94                | 13.96 |



| LTE BAND 71             |                    |                                 |       |                      |       |
|-------------------------|--------------------|---------------------------------|-------|----------------------|-------|
| CHANNEL BANDWIDTH:20MHz |                    |                                 |       |                      |       |
| CHANNEL                 | FREQUENCY<br>(MHz) | 99% OCCUPIED BANDWIDTH<br>(MHz) |       | 26dB BANDWIDTH (MHz) |       |
|                         |                    | QPSK                            | 16QAM | QPSK                 | 16QAM |
| 133222                  | 673                | 17.84                           | 17.83 | 18.60                | 18.56 |
| 133297                  | 680.5              | 17.87                           | 17.87 | 18.56                | 18.57 |
| 133372                  | 688                | 17.84                           | 17.85 | 18.55                | 18.59 |

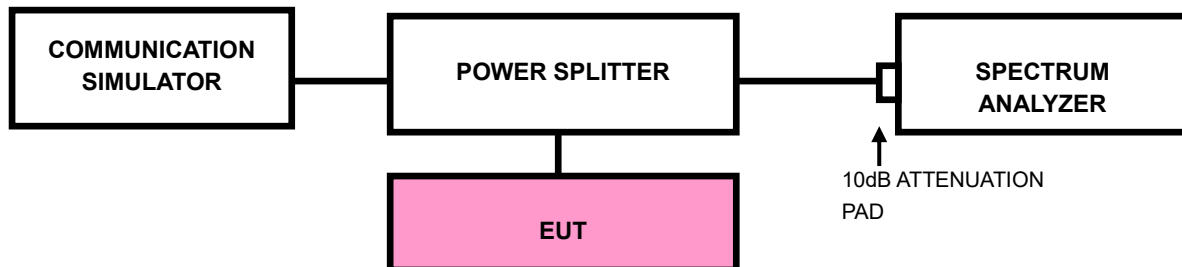


### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

#### 3.4.2 TEST SETUP



### 3.4.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 150kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- i. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- j. Record the max trace plot into the test report.

### 3.4.4 TEST RESULTS

#### WCDMA BAND 4

