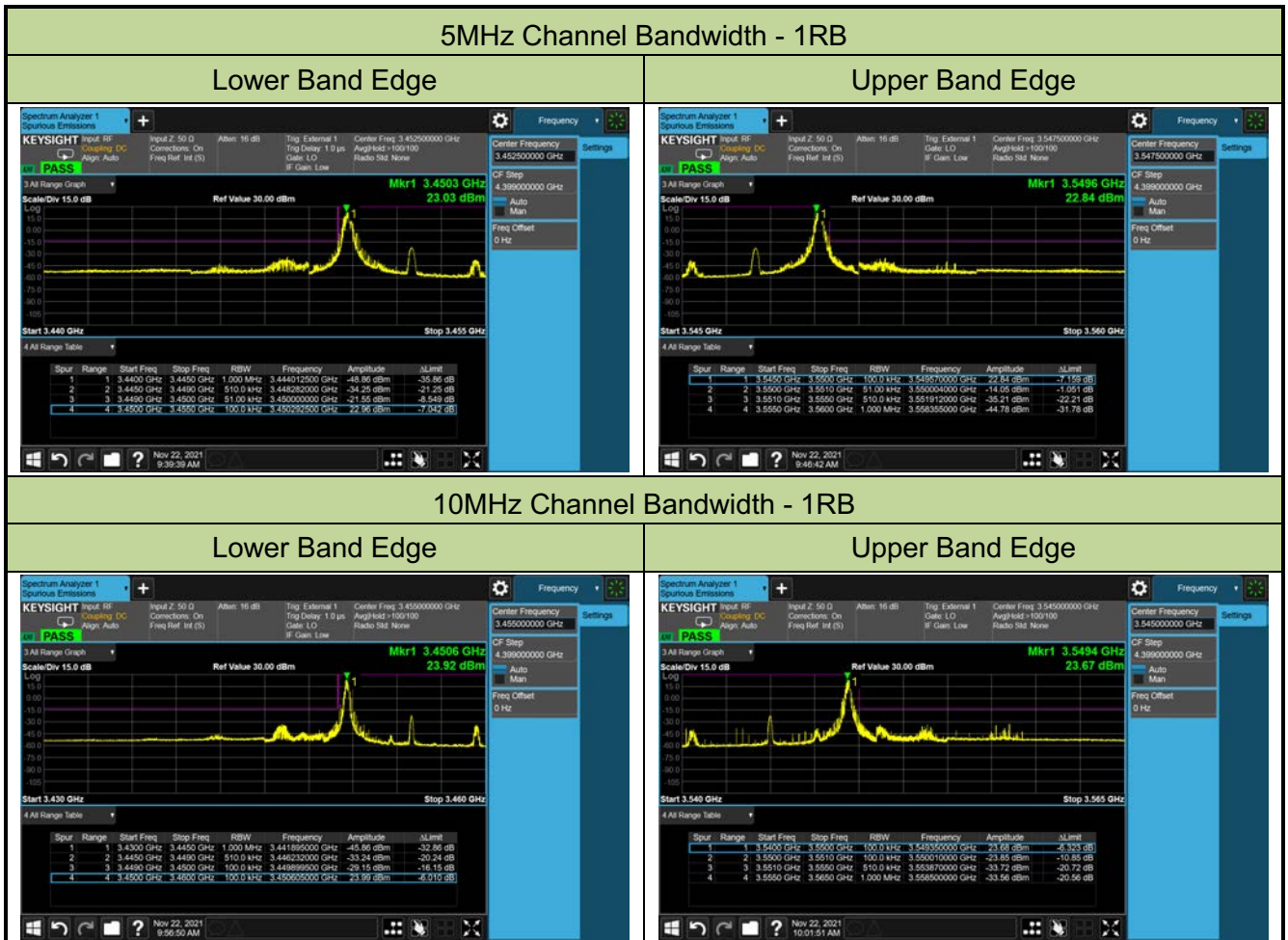
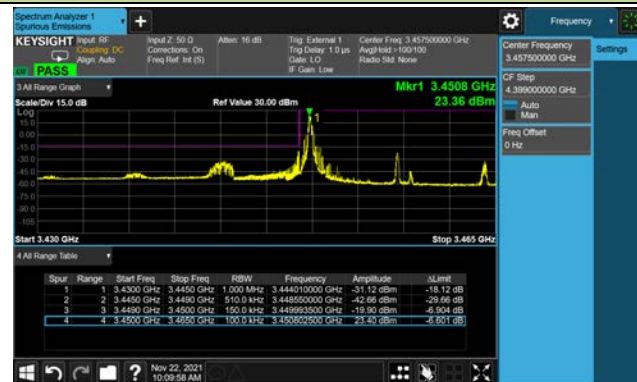


|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/22 |
| Test Band     | LTE Band 42 |           |            |



## 15MHz Channel Bandwidth - 1RB

## Lower Band Edge



## Upper Band Edge



## 20MHz Channel Bandwidth - 1RB

## Lower Band Edge



## Upper Band Edge



## 5MHz Channel Bandwidth - Full RB

## Lower Band Edge



## Upper Band Edge



## 10MHz Channel Bandwidth - Full RB

## Lower Band Edge



## Upper Band Edge



### 15MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



### 20MHz Channel Bandwidth - Full RB

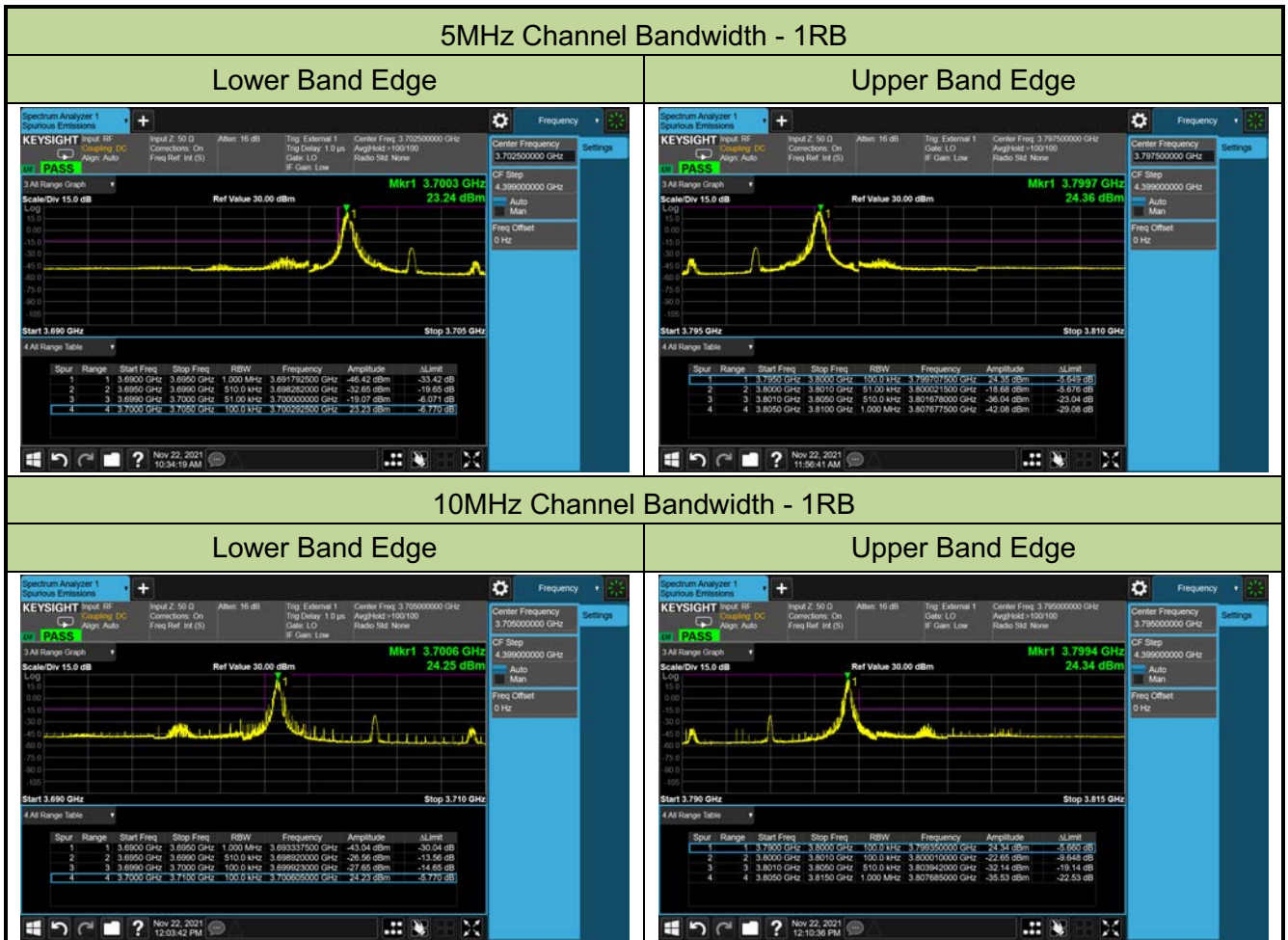
#### Lower Band Edge



#### Upper Band Edge

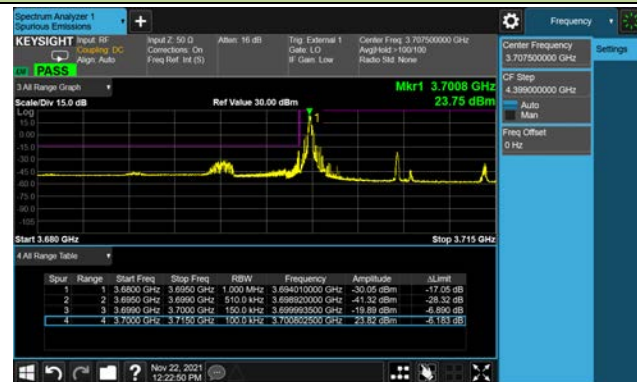


|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/22 |
| Test Band     | LTE Band 43 |           |            |

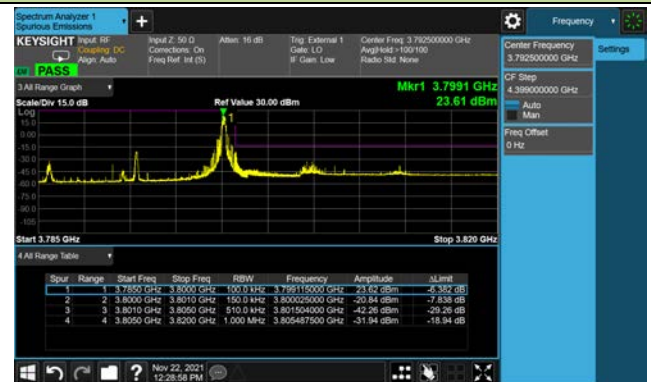


## 15MHz Channel Bandwidth - 1RB

## Lower Band Edge



## Upper Band Edge



## 20MHz Channel Bandwidth - 1RB

## Lower Band Edge



## Upper Band Edge



## 5MHz Channel Bandwidth - Full RB

## Lower Band Edge



## Upper Band Edge



## 10MHz Channel Bandwidth - Full RB

## Lower Band Edge

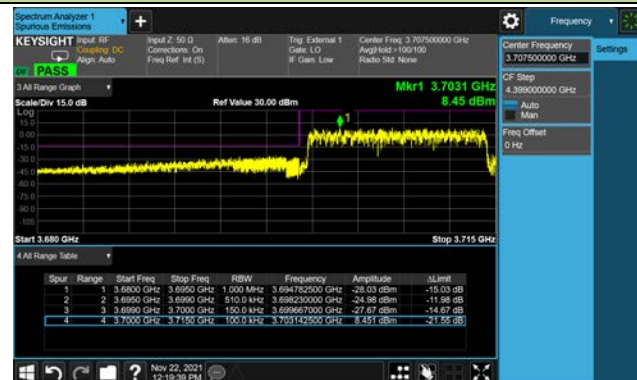


## Upper Band Edge



## 15MHz Channel Bandwidth - Full RB

## Lower Band Edge

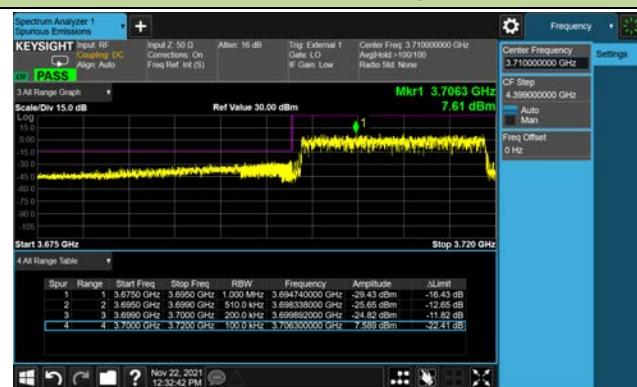


## Upper Band Edge

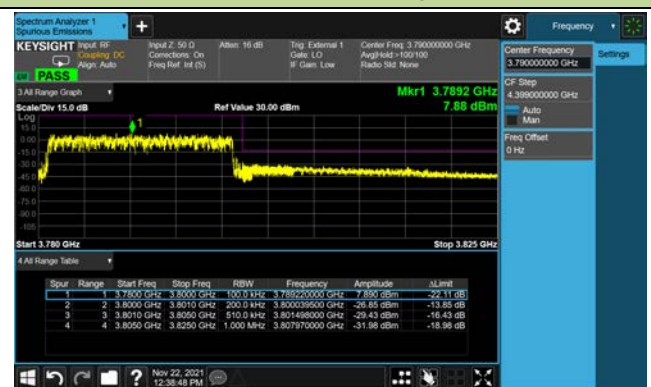


## 20MHz Channel Bandwidth - Full RB

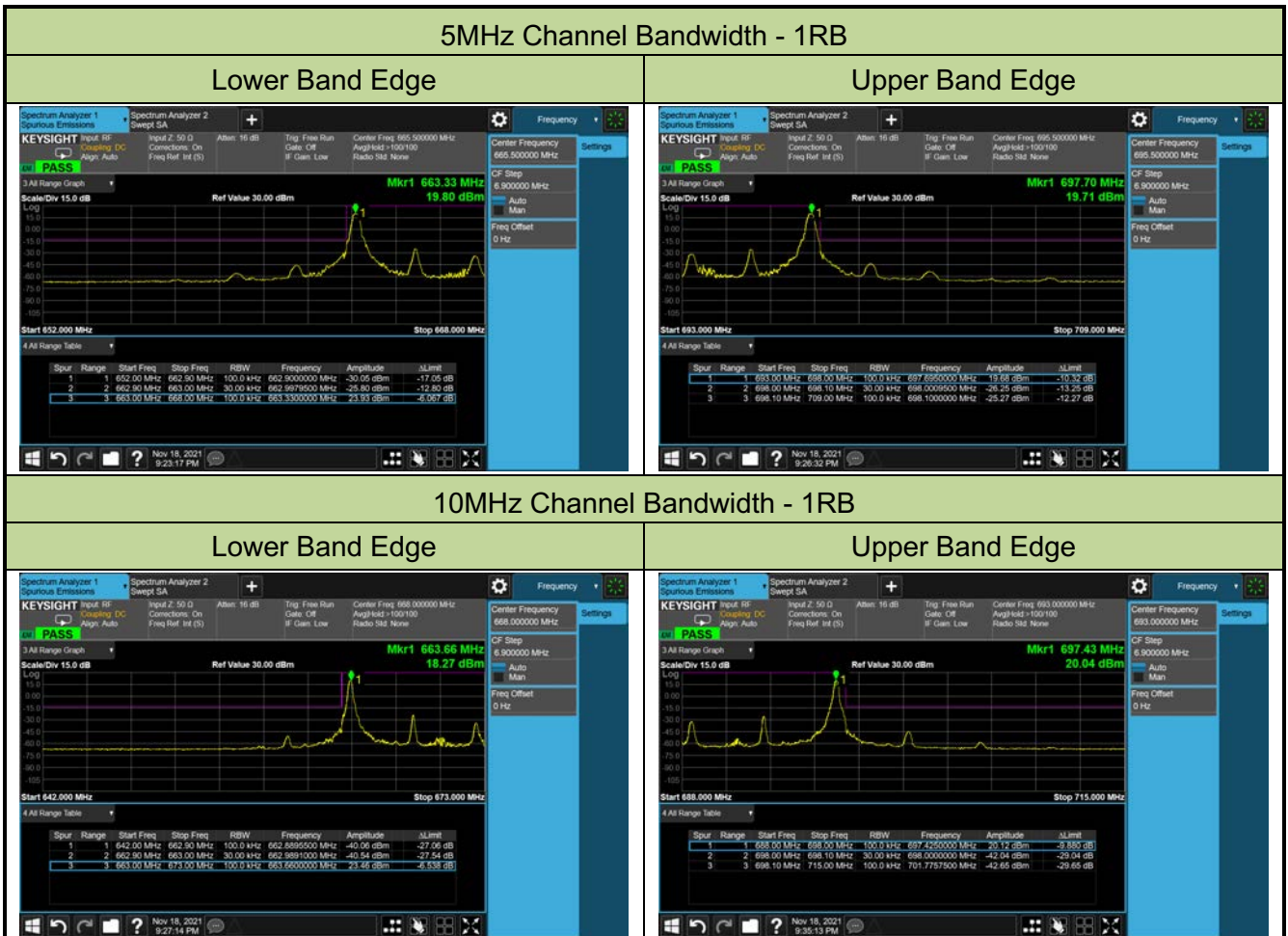
## Lower Band Edge



## Upper Band Edge

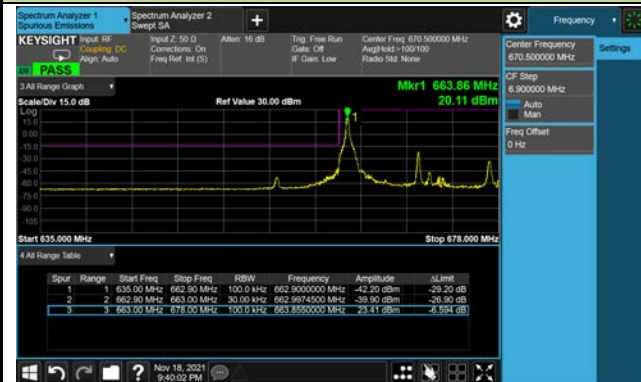


|               |                  |           |            |
|---------------|------------------|-----------|------------|
| Product       | LTE Module       | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo        | Test Date | 2021/11/18 |
| Test Band     | LTE Band 71_QPSK |           |            |

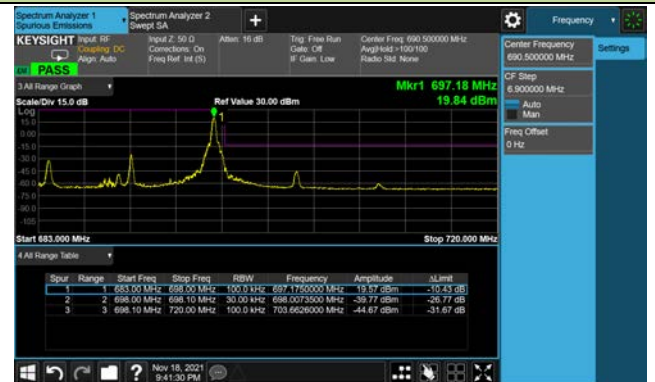


### 15MHz Channel Bandwidth - 1RB

#### Lower Band Edge

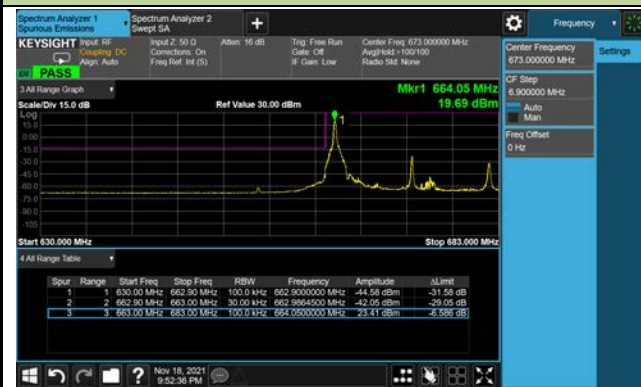


#### Upper Band Edge

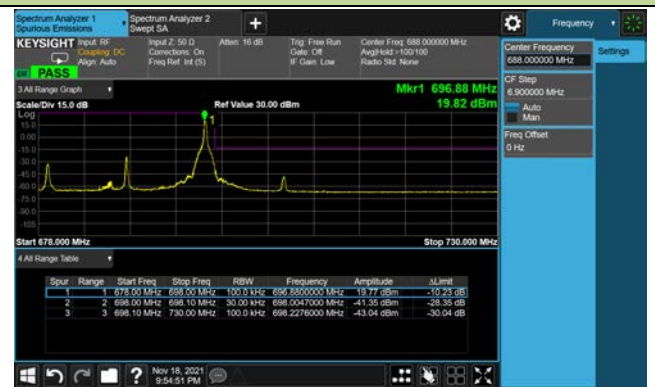


### 20MHz Channel Bandwidth - 1RB

#### Lower Band Edge



#### Upper Band Edge



### 5MHz Channel Bandwidth - Full RB

#### Lower Band Edge

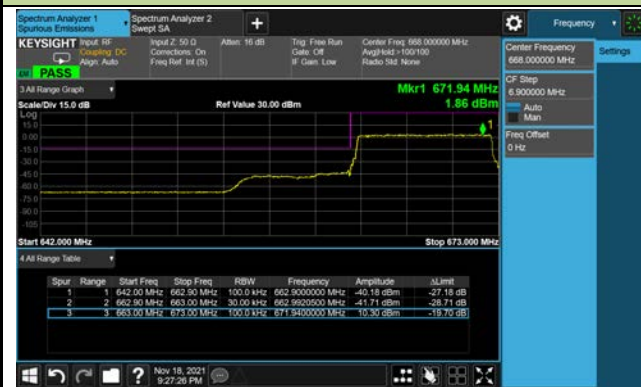


#### Upper Band Edge



### 10MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



### 15MHz Channel Bandwidth - Full RB

#### Lower Band Edge

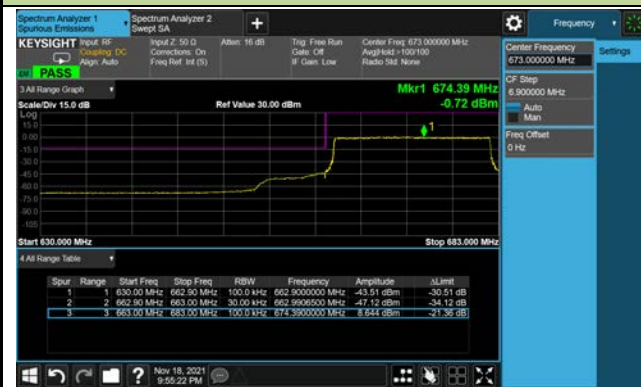


#### Upper Band Edge



### 20MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



## 5.6. Peak to Average Ratio Measurement

### 5.6.1. Test Limit

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

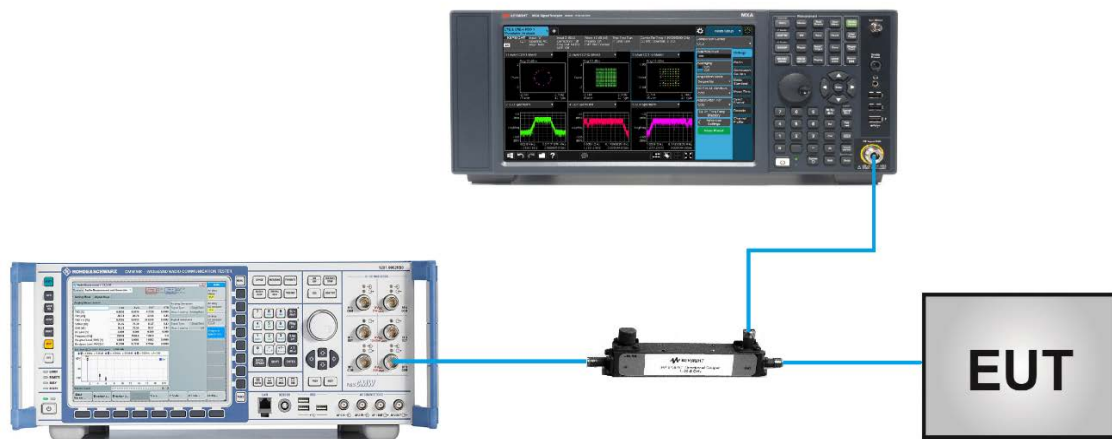
### 5.6.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

### 5.6.3. Test Setting

1. Set the resolution / measurement bandwidth  $\geq$  signal's occupied bandwidth
2. Set the number of counts to a value that stabilizes the measured CCDF curve
3. Record the maximum PARR level associated with a probability of 0.1%

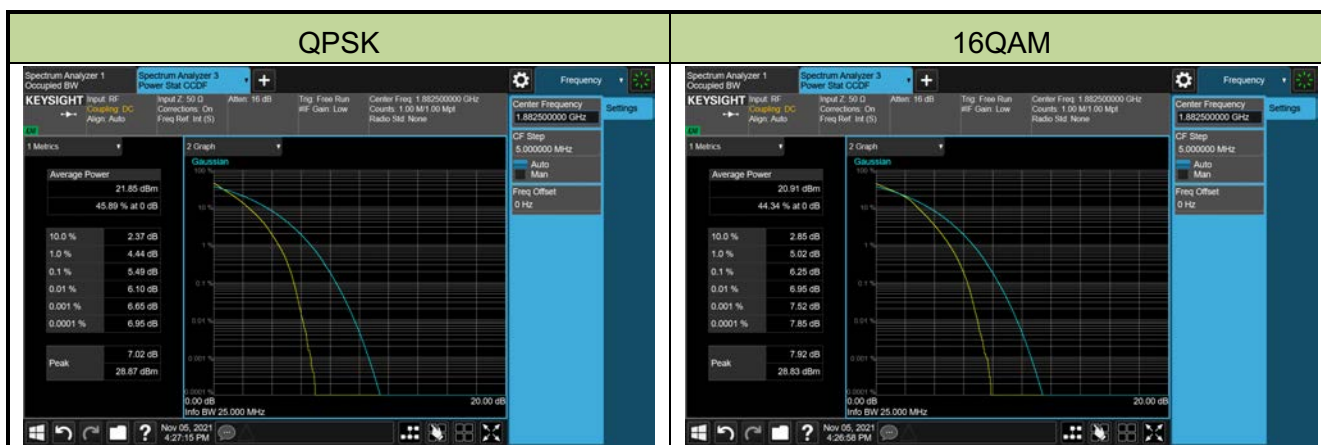
### 5.6.4. Test Setup



### 5.6.5. Test Result

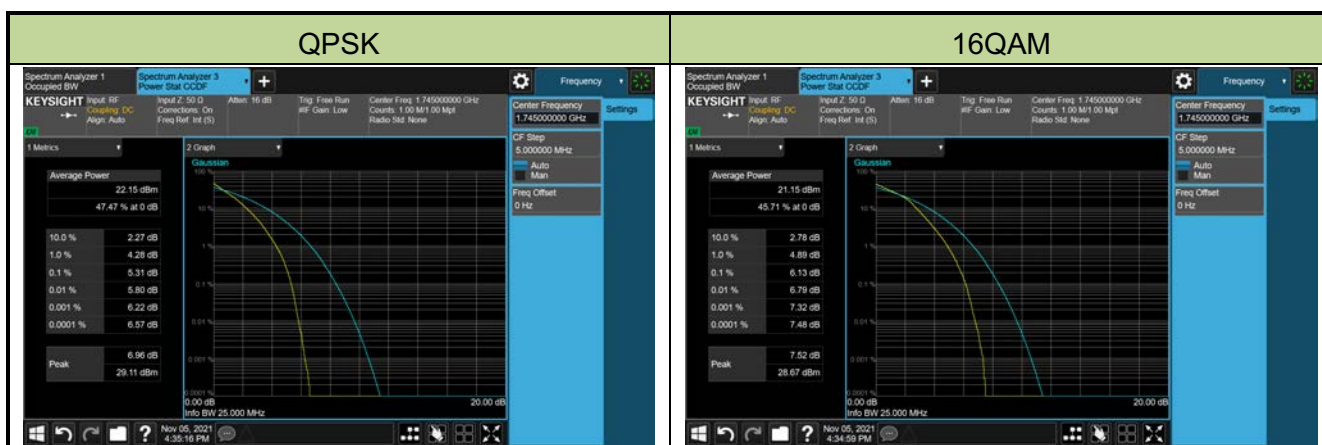
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/11/05 |
| Test Band     | Band 2/25  |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB)   | Result |
|-------------|-----------------|-------------------------|----------------------------|--------------|--------|
| QPSK        |                 |                         |                            |              |        |
| 26365       | 1882.5          | 20                      | 5.49                       | $\leq 13.00$ | Pass   |
| 16QAM       |                 |                         |                            |              |        |
| 26365       | 1882.5          | 20                      | 6.25                       | $\leq 13.00$ | Pass   |



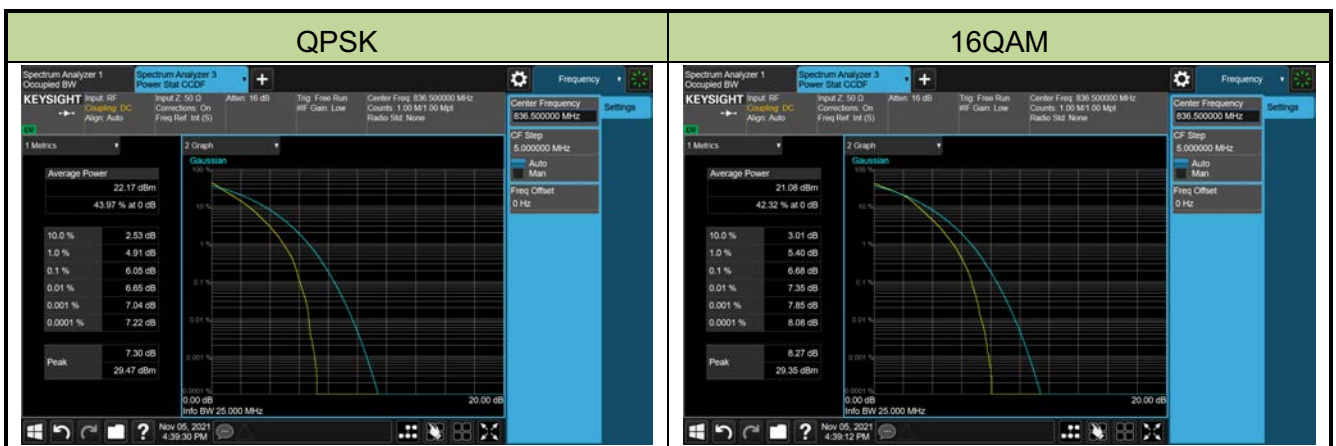
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/11/05 |
| Test Band     | Band 4/66  |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 132322      | 1745.0          | 20                      | 5.31                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 132322      | 1745.0          | 20                      | 6.13                       | ≤ 13.00    | Pass   |



|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/11/05 |
| Test Band     | Band 5/26  |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 20525       | 836.5           | 10                      | 6.05                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 20525       | 836.5           | 10                      | 6.68                       | ≤ 13.00    | Pass   |



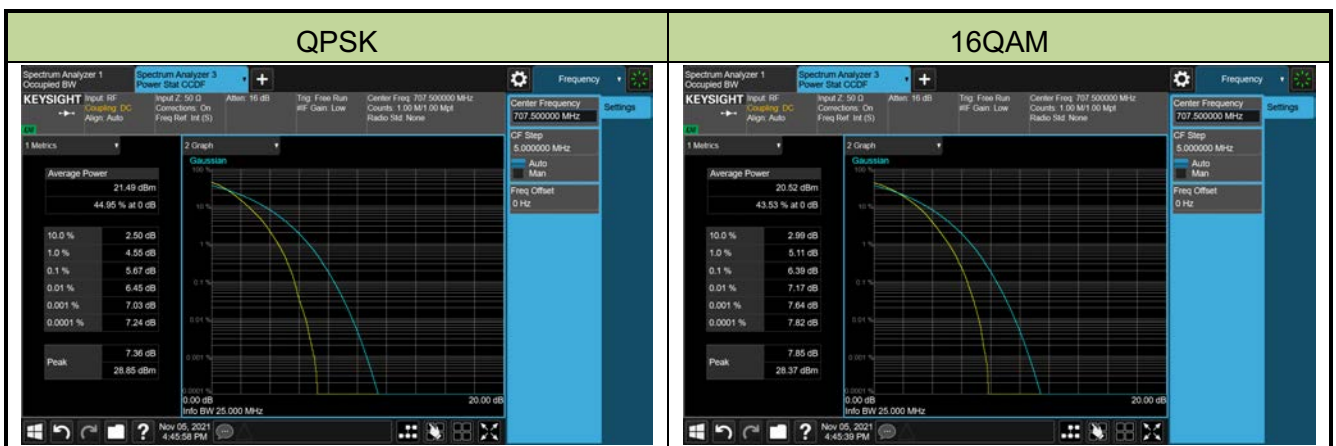
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/11/05 |
| Test Band     | LTE Band 7 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 21100       | 2535.0          | 20                      | 5.29                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 21100       | 2535.0          | 20                      | 6.11                       | ≤ 13.00    | Pass   |



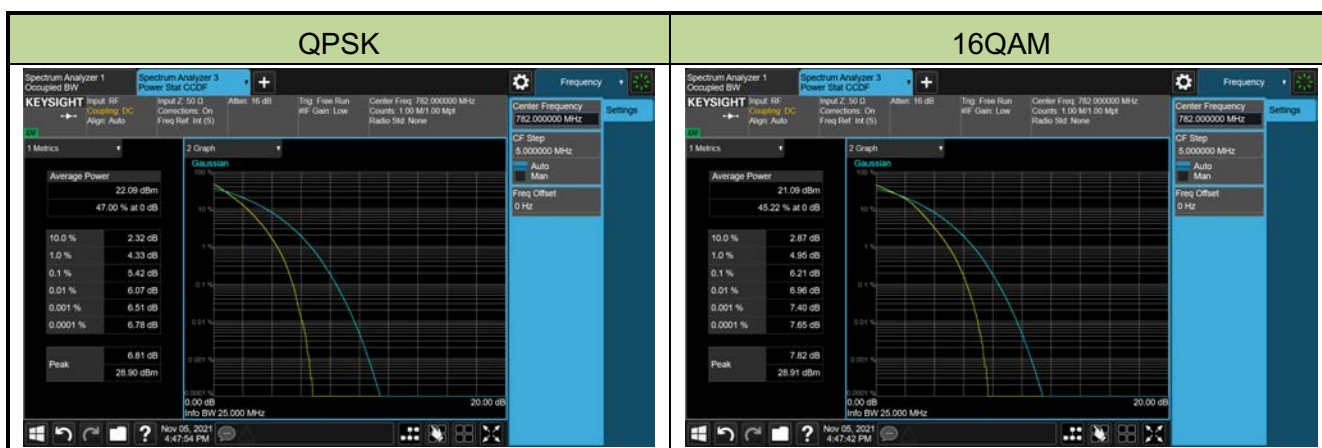
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/05 |
| Test Band     | LTE Band 12 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 26365       | 707.5           | 10                      | 5.67                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 26365       | 707.5           | 10                      | 6.39                       | ≤ 13.00    | Pass   |



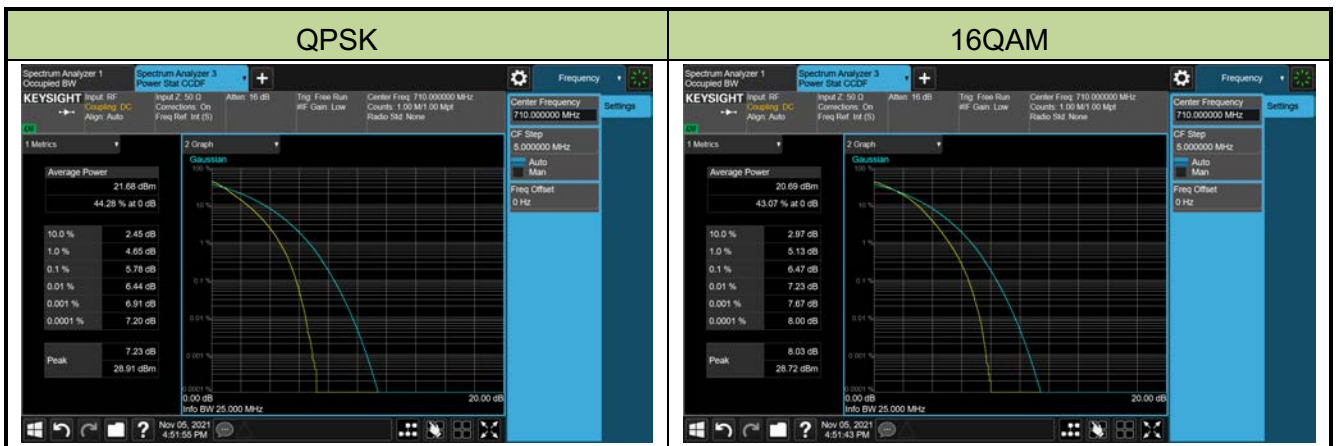
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/05 |
| Test Band     | LTE Band 13 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 132322      | 782             | 10                      | 5.42                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 132322      | 782             | 10                      | 6.21                       | ≤ 13.00    | Pass   |



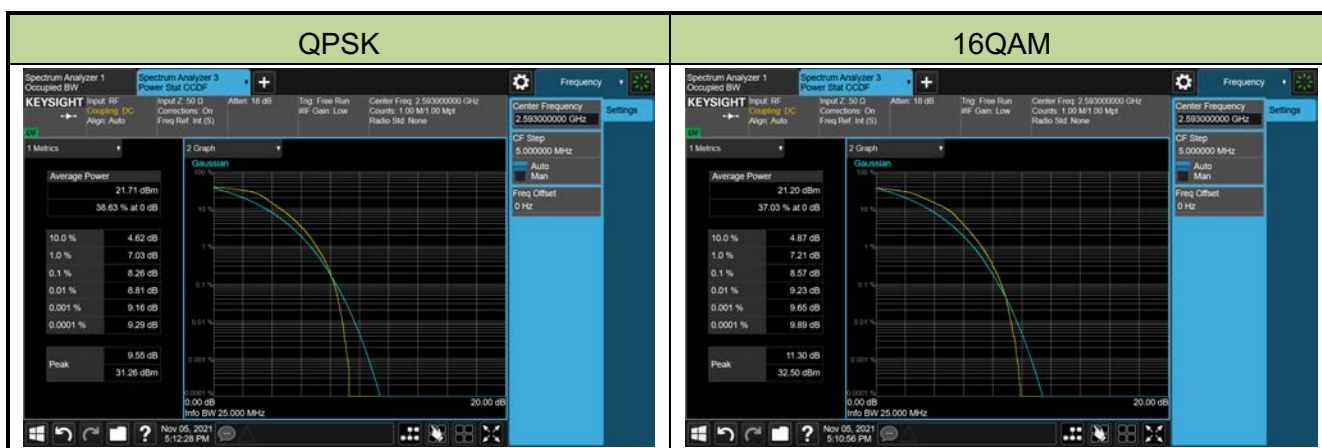
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/05 |
| Test Band     | LTE Band 17 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB)   | Result |
|-------------|-----------------|-------------------------|----------------------------|--------------|--------|
| QPSK        |                 |                         |                            |              |        |
| 23790       | 710.0           | 10                      | 5.78                       | $\leq 13.00$ | Pass   |
| 16QAM       |                 |                         |                            |              |        |
| 23790       | 710.0           | 10                      | 6.47                       | $\leq 13.00$ | Pass   |



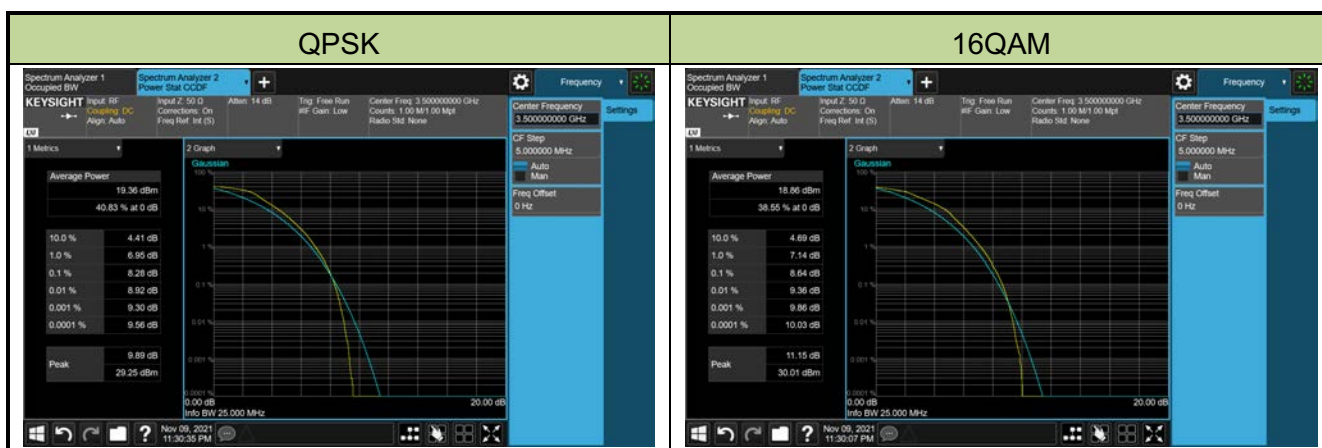
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/05 |
| Test Band     | LTE Band 41 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 40620       | 2593.0          | 20                      | 8.26                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 40620       | 2593.0          | 20                      | 8.57                       | ≤ 13.00    | Pass   |



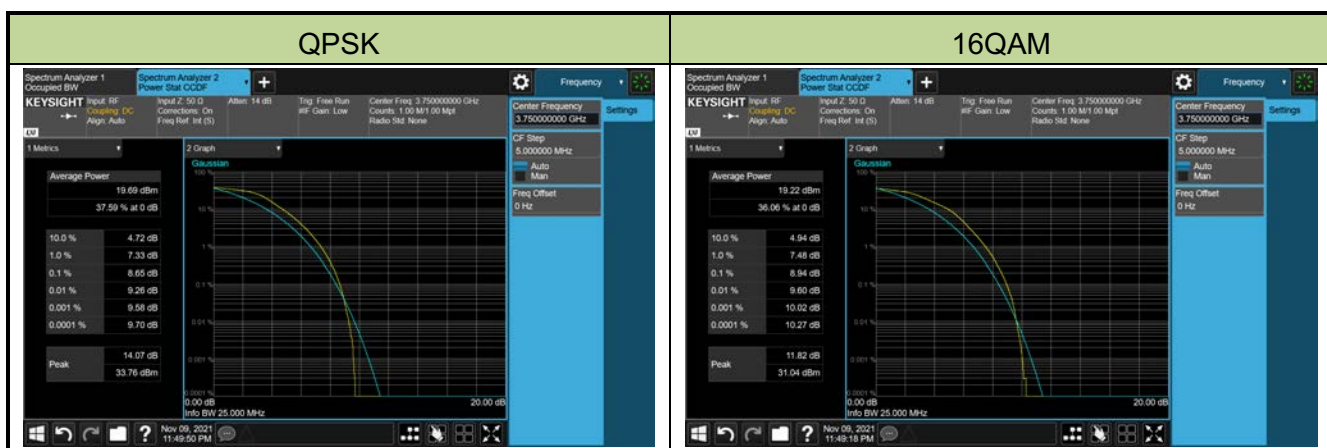
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/09 |
| Test Band     | LTE Band 42 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 42590       | 3500.0          | 20                      | 8.28                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 42590       | 3500.0          | 20                      | 8.64                       | ≤ 13.00    | Pass   |



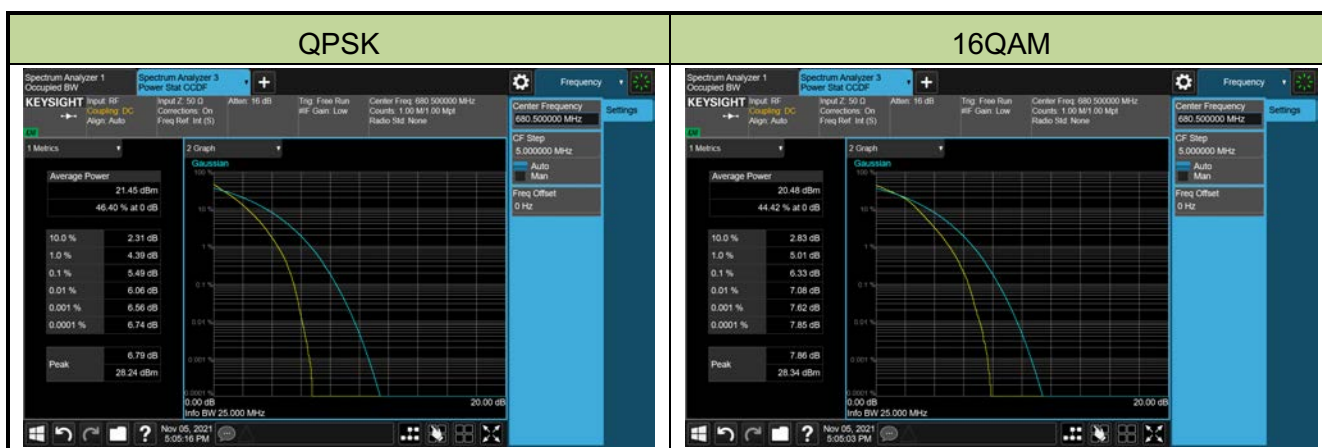
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/09 |
| Test Band     | LTE Band 43 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB)   | Result |
|-------------|-----------------|-------------------------|----------------------------|--------------|--------|
| QPSK        |                 |                         |                            |              |        |
| 45090       | 3750.0          | 20                      | 6.65                       | $\leq 13.00$ | Pass   |
| 16QAM       |                 |                         |                            |              |        |
| 45090       | 3750.0          | 20                      | 8.94                       | $\leq 13.00$ | Pass   |



|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/05 |
| Test Band     | LTE Band 71 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 133297      | 680.5           | 20                      | 5.49                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 133297      | 680.5           | 20                      | 6.33                       | ≤ 13.00    | Pass   |



## **5.7. Conducted Spurious Emission Measurement**

### **5.7.1. Test Limit**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

For Band 7, 41 the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB.

### **5.7.2. Test Procedure**

ANSI C63.26-2015 - Section 5.7

### **5.7.3. Test Setting**

1. Set the analyzer frequency to low, mid, high channel.
  2. RBW = 1MHz
  3. VBW  $\geq 3 \times$  RBW
  4. Sweep time = auto
  5. Detector = power averaging (rms)
  6. Set sweep trigger to "free run."
  7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
  8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
- To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

#### 5.7.4. Test Setup



### 5.7.5.Test Result

|               |                        |           |            |
|---------------|------------------------|-----------|------------|
| Product       | LTE Module             | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo              | Test Date | 2021/11/15 |
| Test Band     | LTE Band 2/25_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 26047   | 1850.7          | 1.4                     | 30 ~ 20000            | -35.38                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 1.4                     | 30 ~ 20000            | -35.13                       | ≤ -13.00    | Pass   |
| 26683   | 1914.3          | 1.4                     | 30 ~ 20000            | -35.93                       | ≤ -13.00    | Pass   |
| 26055   | 1851.5          | 3                       | 30 ~ 20000            | -35.14                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 3                       | 30 ~ 20000            | -35.73                       | ≤ -13.00    | Pass   |
| 26675   | 1913.5          | 3                       | 30 ~ 20000            | -35.51                       | ≤ -13.00    | Pass   |
| 26065   | 1852.5          | 5                       | 30 ~ 20000            | -35.07                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 5                       | 30 ~ 20000            | -35.72                       | ≤ -13.00    | Pass   |
| 26665   | 1912.5          | 5                       | 30 ~ 20000            | -34.86                       | ≤ -13.00    | Pass   |
| 16390   | 1855.0          | 10                      | 30 ~ 20000            | -36.04                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 10                      | 30 ~ 20000            | -35.85                       | ≤ -13.00    | Pass   |
| 26640   | 1910.0          | 10                      | 30 ~ 20000            | -34.78                       | ≤ -13.00    | Pass   |
| 26115   | 1857.5          | 15                      | 30 ~ 20000            | -28.13                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 15                      | 30 ~ 20000            | -34.16                       | ≤ -13.00    | Pass   |
| 26615   | 1907.5          | 15                      | 30 ~ 20000            | -35.96                       | ≤ -13.00    | Pass   |
| 26140   | 1860.0          | 20                      | 30 ~ 20000            | -34.12                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 20                      | 30 ~ 20000            | -32.67                       | ≤ -13.00    | Pass   |
| 26590   | 1905.0          | 20                      | 30 ~ 20000            | -35.87                       | ≤ -13.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

### Channel 26047 (1850.7MHz)



### Channel 26365 (1882.5MHz)

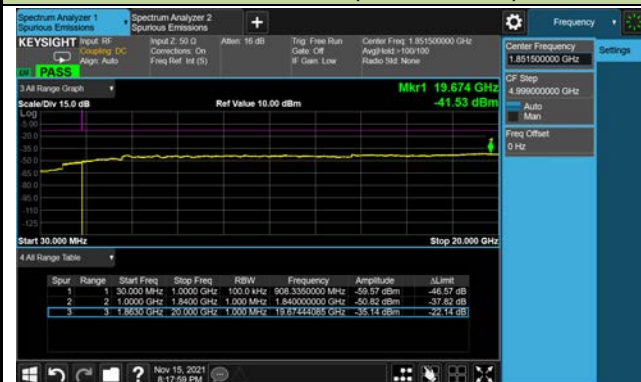


### Channel 26683 (1914.3MHz)



## 3MHz Channel Bandwidth

### Channel 26055 (1851.5MHz)



### Channel 26365 (1882.5MHz)



### Channel 26675 (1913.5MHz)



## 5MHz Channel Bandwidth

### Channel 26065 (1852.5MHz)



### Channel 26365 (1882.5MHz)



### Channel 26665 (1912.5MHz)



## 10MHz Channel Bandwidth

### Channel 16390 (1855MHz)



### Channel 26365 (1882.5MHz)



### Channel 26640 (1910MHz)

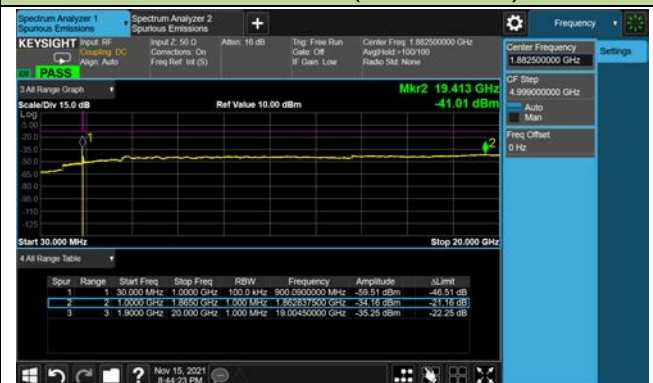


## 15MHz Channel Bandwidth

## Channel 26115 (1857MHz)



## Channel 26365 (1882.5MHz)



## Channel 26615 (1907.5MHz)

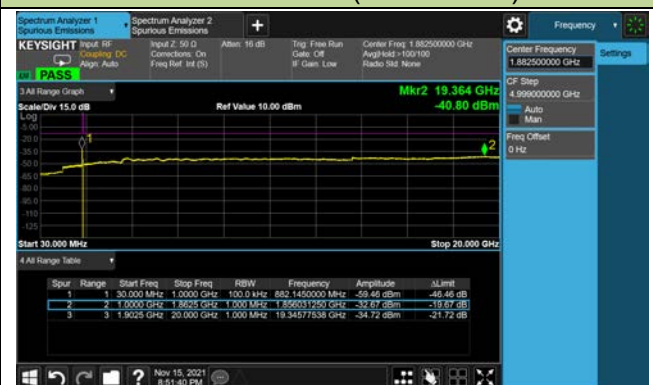


## 20MHz Channel Bandwidth

## Channel 26140 (1860MHz)



## Channel 26365 (1882.5MHz)



## Channel 26590 (1905MHz)



|               |                        |           |            |
|---------------|------------------------|-----------|------------|
| Product       | LTE Module             | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo              | Test Date | 2021/11/15 |
| Test Band     | LTE Band 4/66_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 131979  | 1710.7          | 1.4                     | 30 ~ 20000            | -35.76                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 1.4                     | 30 ~ 20000            | -36.55                       | ≤ -13.00    | Pass   |
| 132665  | 1779.3          | 1.4                     | 30 ~ 20000            | -36.92                       | ≤ -13.00    | Pass   |
| 131987  | 1711.5          | 3                       | 30 ~ 20000            | -35.83                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 3                       | 30 ~ 20000            | -36.46                       | ≤ -13.00    | Pass   |
| 132657  | 1778.5          | 3                       | 30 ~ 20000            | -35.18                       | ≤ -13.00    | Pass   |
| 131997  | 1712.5          | 5                       | 30 ~ 20000            | -37.02                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 5                       | 30 ~ 20000            | -36.61                       | ≤ -13.00    | Pass   |
| 132647  | 1777.5          | 5                       | 30 ~ 20000            | -37.34                       | ≤ -13.00    | Pass   |
| 132022  | 1715.0          | 10                      | 30 ~ 20000            | -36.53                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 10                      | 30 ~ 20000            | -36.21                       | ≤ -13.00    | Pass   |
| 132622  | 1775.0          | 10                      | 30 ~ 20000            | -36.11                       | ≤ -13.00    | Pass   |
| 132047  | 1717.5          | 15                      | 30 ~ 20000            | -34.61                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 15                      | 30 ~ 20000            | -34.93                       | ≤ -13.00    | Pass   |
| 132597  | 1772.5          | 15                      | 30 ~ 20000            | -35.79                       | ≤ -13.00    | Pass   |
| 132072  | 1720.0          | 20                      | 30 ~ 20000            | -32.62                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 20                      | 30 ~ 20000            | -33.62                       | ≤ -13.00    | Pass   |
| 132572  | 1770.0          | 20                      | 30 ~ 20000            | -36.38                       | ≤ -13.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

### Channel 131979 (1710.7MHz)



### Channel 132322 (1745MHz)



### Channel 132665 (1779.3MHz)



## 3MHz Channel Bandwidth

### Channel 131987 (1711.5MHz)



### Channel 132322 (1745MHz)



### Channel 132657 (1778.5MHz)



## 5MHz Channel Bandwidth

### Channel 131997 (1712.5MHz)



### Channel 132322 (1745MHz)



### Channel 132647 (1777.5MHz)

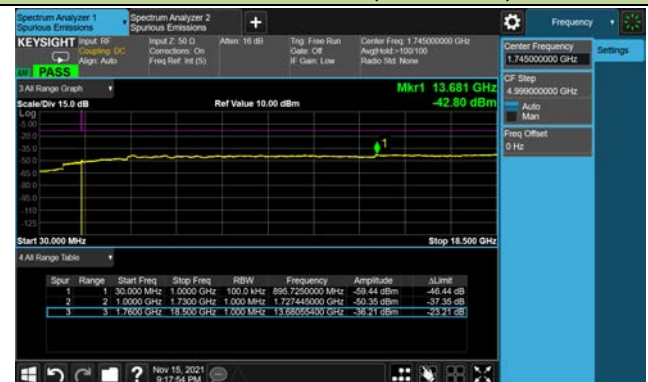


## 10MHz Channel Bandwidth

### Channel 132022 (1715MHz)



### Channel 132322 (1745MHz)



### Channel 132622 (1775MHz)



## 15MHz Channel Bandwidth

### Channel 132047 (1717.5MHz)



### Channel 132322 (1745MHz)



### Channel 132597 (1772.5Hz)

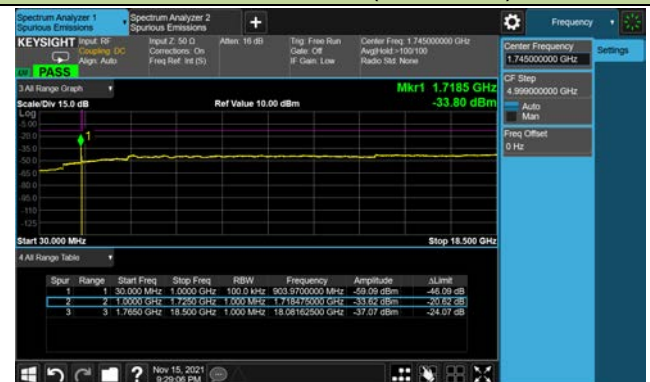


## 20MHz Channel Bandwidth

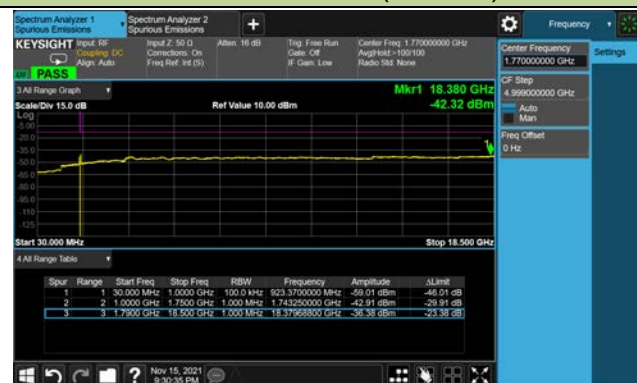
### Channel 132072 (1720MHz)



### Channel 132322 (1745MHz)



### Channel 132572 (1770Hz)



|               |                        |           |            |
|---------------|------------------------|-----------|------------|
| Product       | LTE Module             | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo              | Test Date | 2021/11/15 |
| Test Band     | LTE Band 5/26_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 26797   | 824.7           | 1.4                     | 30 ~ 10000            | -36.83                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 1.4                     | 30 ~ 10000            | -37.20                       | ≤ -13.00    | Pass   |
| 27033   | 848.3           | 1.4                     | 30 ~ 10000            | -37.16                       | ≤ -13.00    | Pass   |
| 26805   | 825.5           | 3                       | 30 ~ 10000            | -37.37                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 3                       | 30 ~ 10000            | -37.11                       | ≤ -13.00    | Pass   |
| 27025   | 847.5           | 3                       | 30 ~ 10000            | -37.24                       | ≤ -13.00    | Pass   |
| 26815   | 826.5           | 5                       | 30 ~ 10000            | -37.80                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 5                       | 30 ~ 10000            | -37.53                       | ≤ -13.00    | Pass   |
| 27015   | 846.5           | 5                       | 30 ~ 10000            | -37.69                       | ≤ -13.00    | Pass   |
| 26840   | 829.0           | 10                      | 30 ~ 10000            | -37.79                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 10                      | 30 ~ 10000            | -37.34                       | ≤ -13.00    | Pass   |
| 26990   | 844.0           | 10                      | 30 ~ 10000            | -38.06                       | ≤ -13.00    | Pass   |
| 26865   | 831.5           | 15                      | 30 ~ 10000            | -37.66                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 15                      | 30 ~ 10000            | -37.24                       | ≤ -13.00    | Pass   |
| 26965   | 841.5           | 15                      | 30 ~ 10000            | -37.77                       | ≤ -13.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

### Channel 26697 (814.7MHz)



### Channel 25865 (831.5MHz)



### Channel 27033 (848.3MHz)



## 3MHz Channel Bandwidth

### Channel 26705 (815.5MHz)



### Channel 26865 (831.5MHz)



### Channel 27025 (847.5MHz)



## 5MHz Channel Bandwidth

### Channel 26715 (816.5MHz)



### Channel 26865 (831.5MHz)

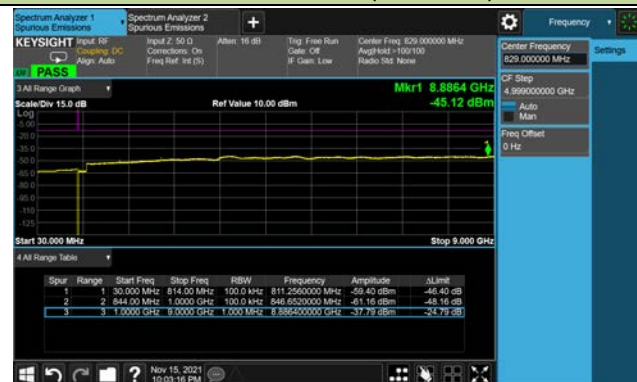


### Channel 27015 (846.5MHz)



## 10MHz Channel Bandwidth

### Channel 26740 (819MHz)



### Channel 26865 (831.5MHz)



### Channel 26990 (844MHz)



## 15MHz Channel Bandwidth

## Channel 26865 (831.5MHz)



## Channel 26915 (836.5MHz)



## Channel 26965 (841.5MHz)



|               |                     |           |            |
|---------------|---------------------|-----------|------------|
| Product       | LTE Module          | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo           | Test Date | 2021/11/15 |
| Test Band     | LTE Band 7_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 20775   | 2502.5          | 5                       | 30 ~ 26000            | -31.60                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 5                       | 30 ~ 26000            | -31.91                       | ≤ -25.00    | Pass   |
| 21425   | 2567.5          | 5                       | 30 ~ 26000            | -32.36                       | ≤ -25.00    | Pass   |
| 20800   | 2505.0          | 10                      | 30 ~ 26000            | -33.26                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 10                      | 30 ~ 26000            | -33.19                       | ≤ -25.00    | Pass   |
| 21400   | 2565.0          | 10                      | 30 ~ 26000            | -33.40                       | ≤ -25.00    | Pass   |
| 20825   | 2507.5          | 15                      | 30 ~ 26000            | -32.71                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 15                      | 30 ~ 26000            | -32.94                       | ≤ -25.00    | Pass   |
| 21375   | 2562.5          | 15                      | 30 ~ 26000            | -33.28                       | ≤ -25.00    | Pass   |
| 20850   | 2510.0          | 20                      | 30 ~ 26000            | -33.40                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 20                      | 30 ~ 26000            | -33.03                       | ≤ -25.00    | Pass   |
| 21350   | 2560.0          | 20                      | 30 ~ 26000            | -32.78                       | ≤ -25.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 5MHz Channel Bandwidth

## Channel 20775 (2502.5MHz)/



## Channel 21100 (2535MHz)



## Channel 21425 (2567.5MHz)



## 10MHz Channel Bandwidth

## Channel 20800 (2505MHz)



## Channel 21100 (2535MHz)



## Channel 21400 (2565MHz)

