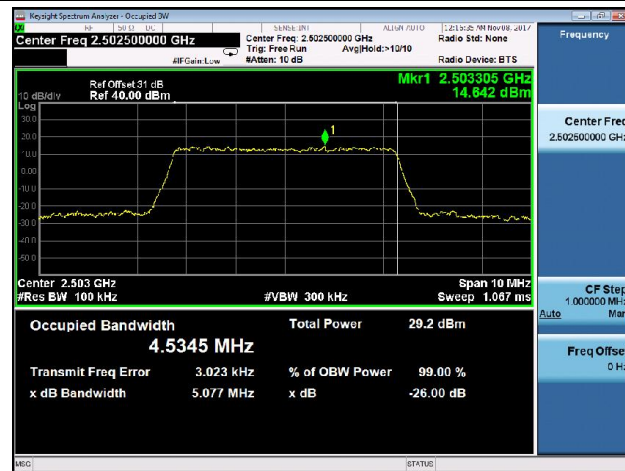
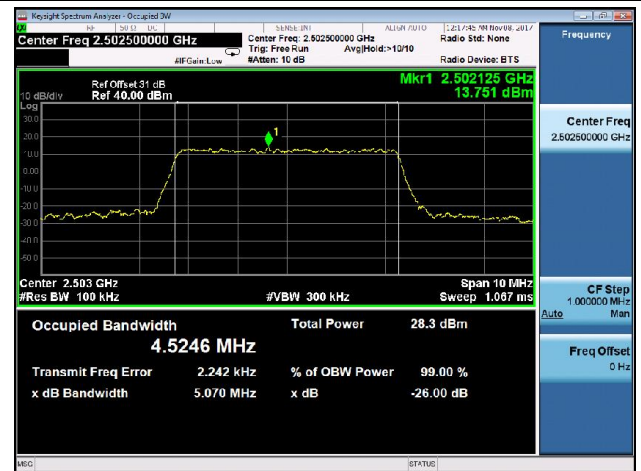


## LTE Band 7 99% & 26dB Occupied Bandwidth

### Low CH / 5MHz / QPSK



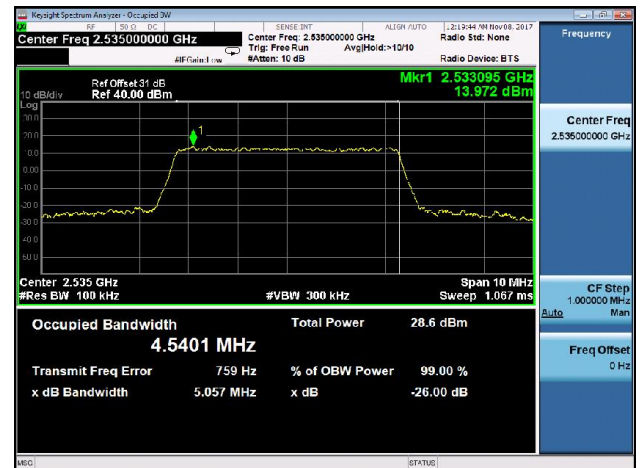
### Low CH / 5MHz / 16-QAM



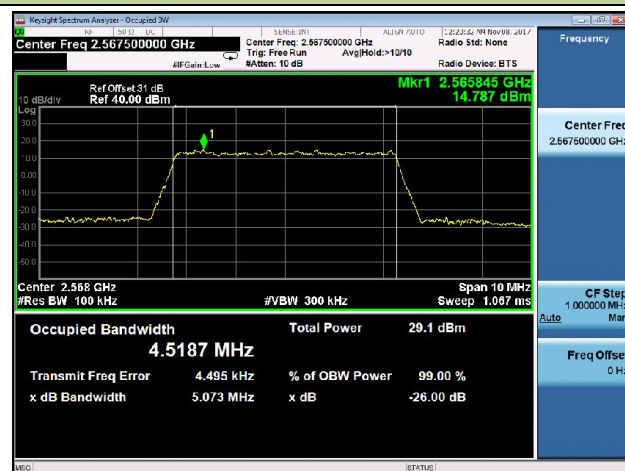
### Mid. CH / 5MHz / QPSK



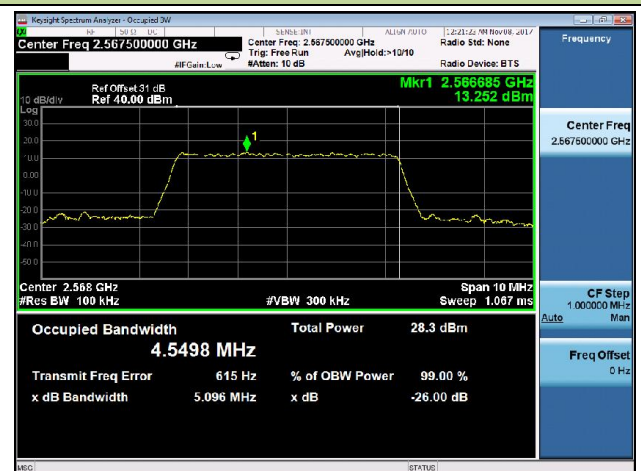
### Mid. CH / 5MHz / 16-QAM



### High CH / 5MHz / QPSK

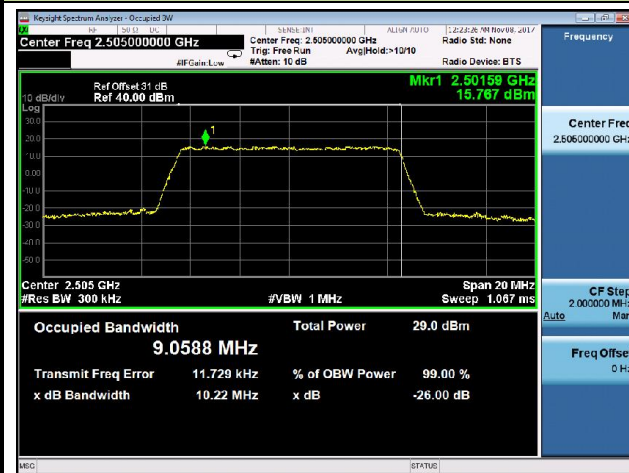


### High CH / 5MHz / 16-QAM



## LTE Band 7 99% & 26dB Occupied Bandwidth

### Low CH / 10MHz / QPSK



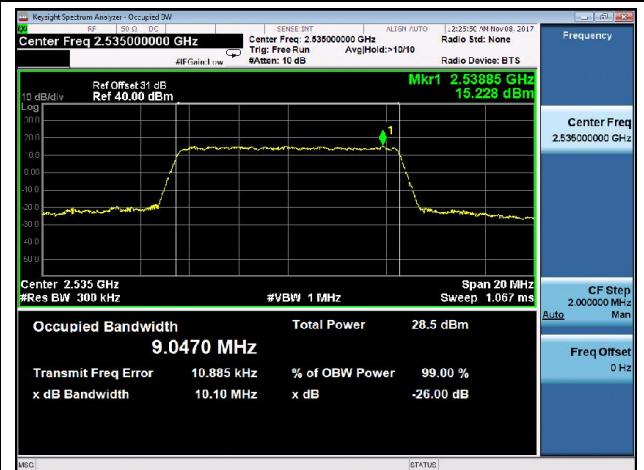
### Low CH / 10MHz / 16-QAM



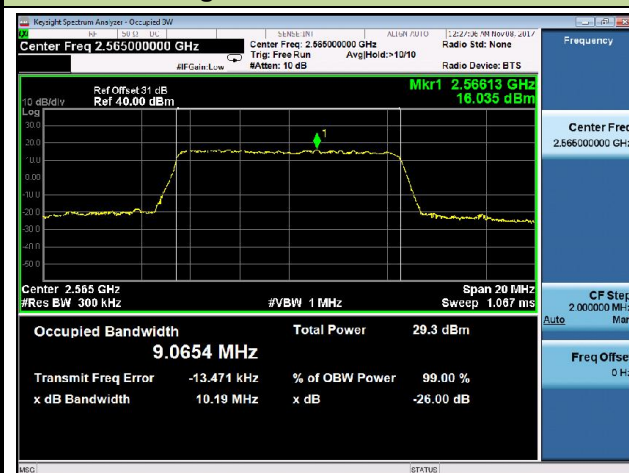
### Mid. CH / 10MHz / QPSK



### Mid. CH / 10MHz / 16-QAM



### High CH / 10MHz / QPSK

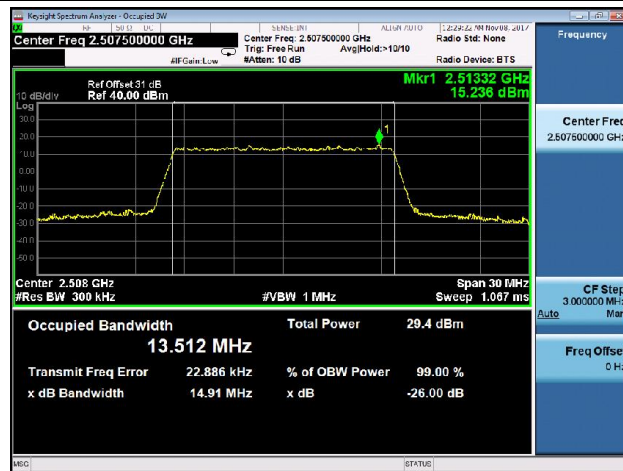


### High CH / 10MHz / 16-QAM

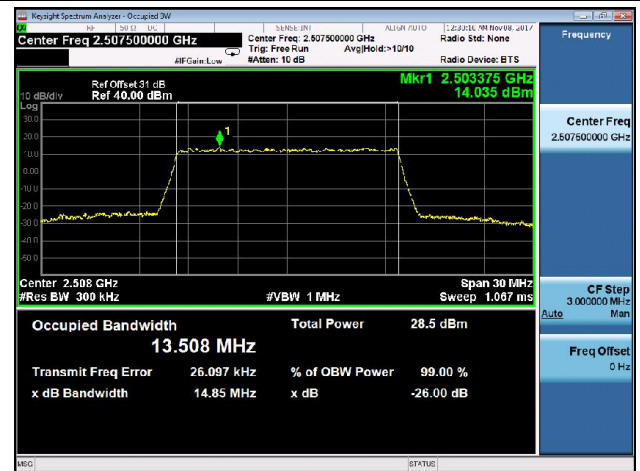


## LTE Band 7 99% & 26dB Occupied Bandwidth

### Low CH / 15MHz / QPSK



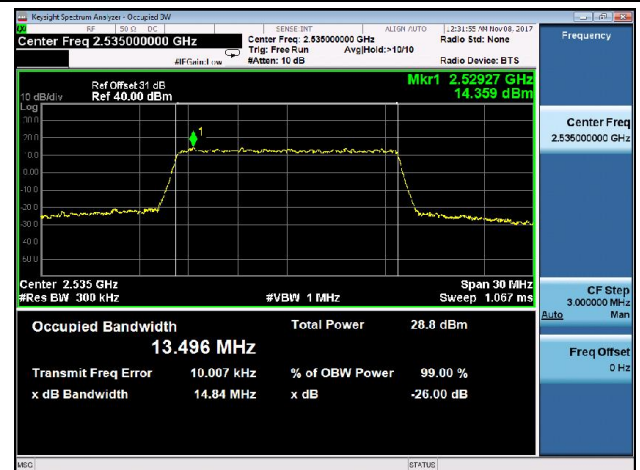
### Low CH / 15MHz / 16-QAM



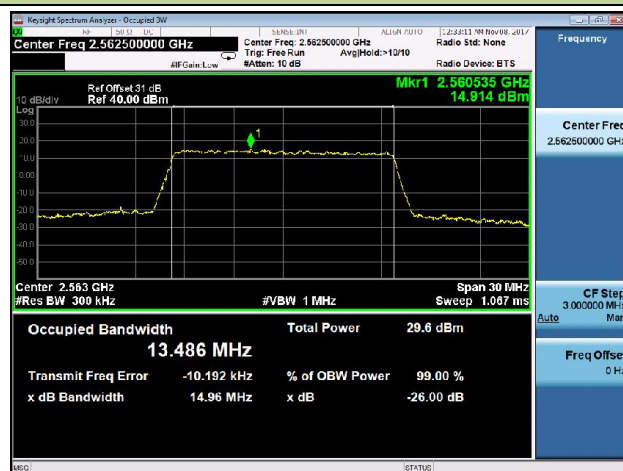
### Mid. CH / 15MHz / QPSK



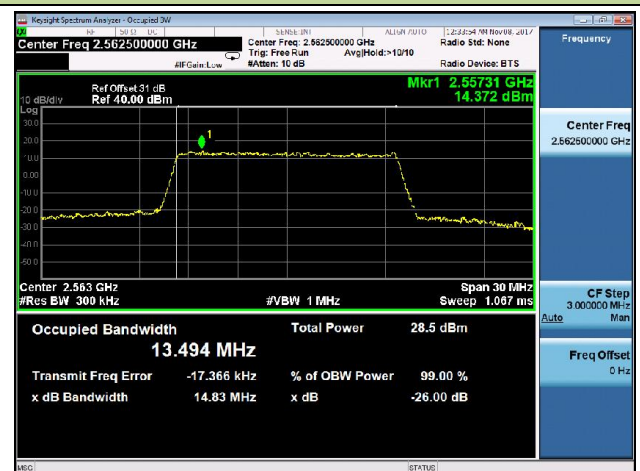
### Mid. CH / 15MHz / 16-QAM



### High CH / 15MHz / QPSK

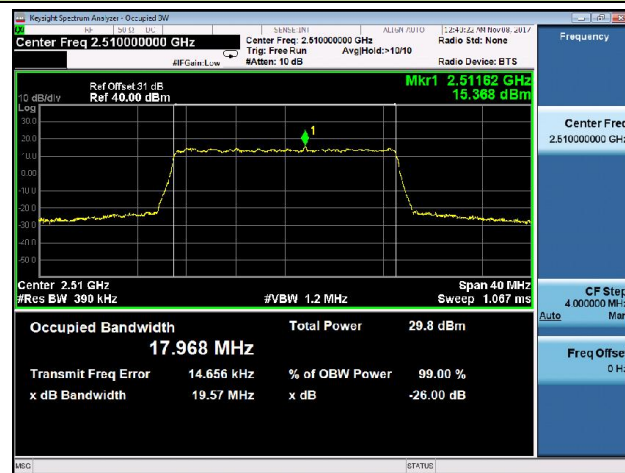


### High CH / 15MHz / 16-QAM



## LTE Band 7 99% & 26dB Occupied Bandwidth

### Low CH / 20MHz / QPSK



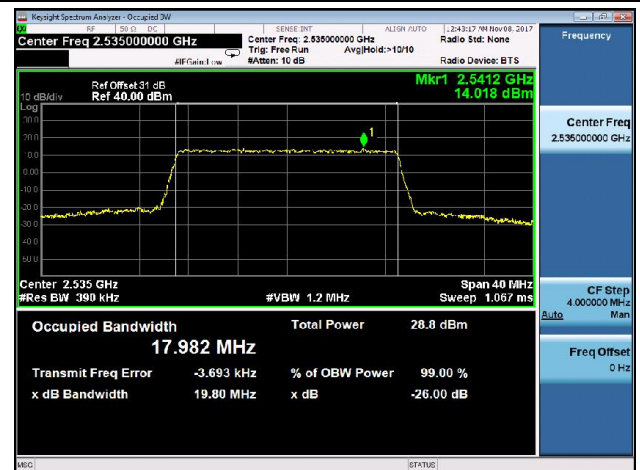
### Low CH / 20MHz / 16-QAM



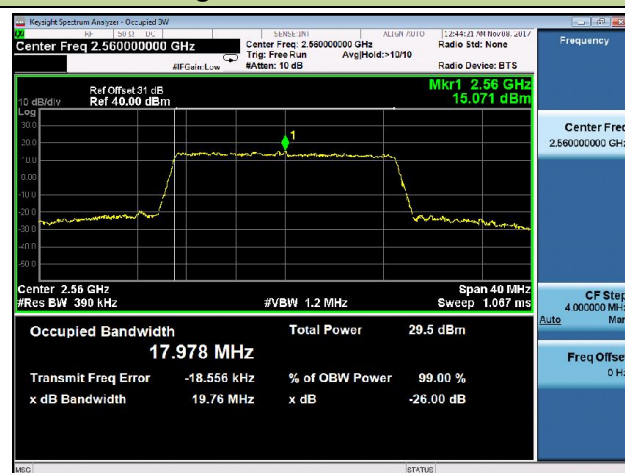
### Mid. CH / 20MHz / QPSK



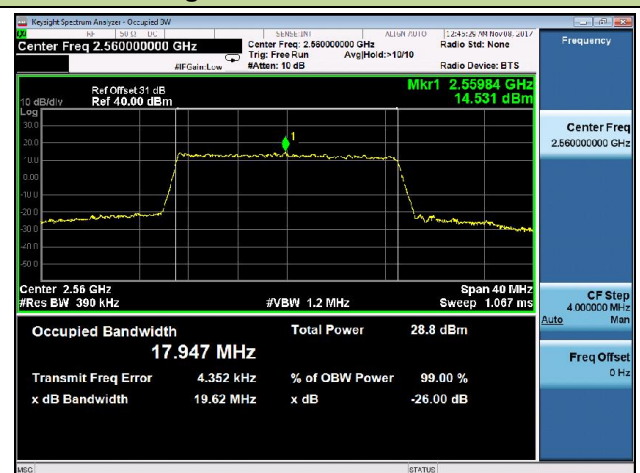
### Mid. CH / 20MHz / 16-QAM



### High CH / 20MHz / QPSK

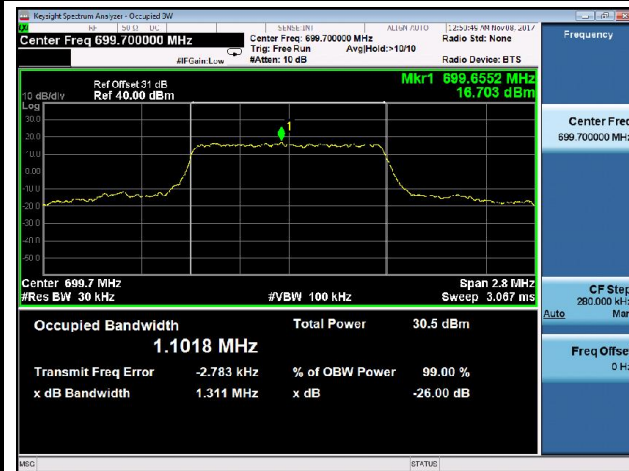


### High CH / 20MHz / 16-QAM

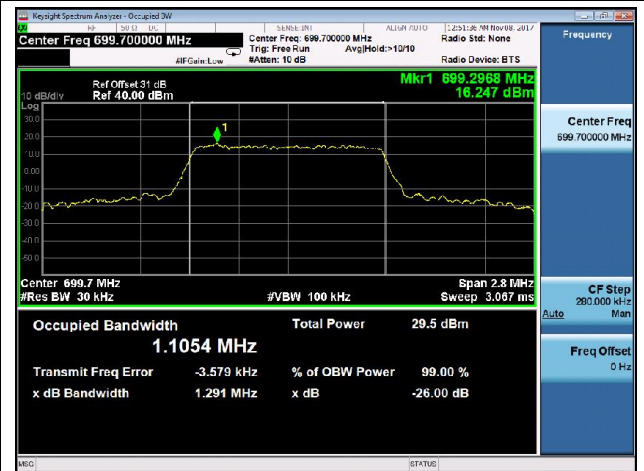


## LTE Band 12 99% & 26dB Occupied Bandwidth

### Low CH / 1.4MHz / QPSK



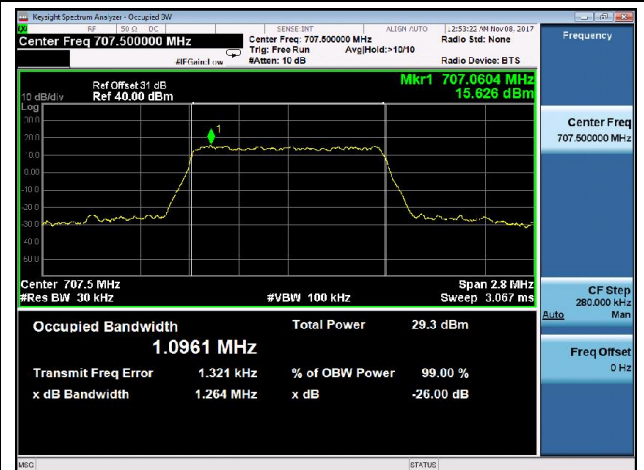
### Low CH / 1.4MHz / 16-QAM



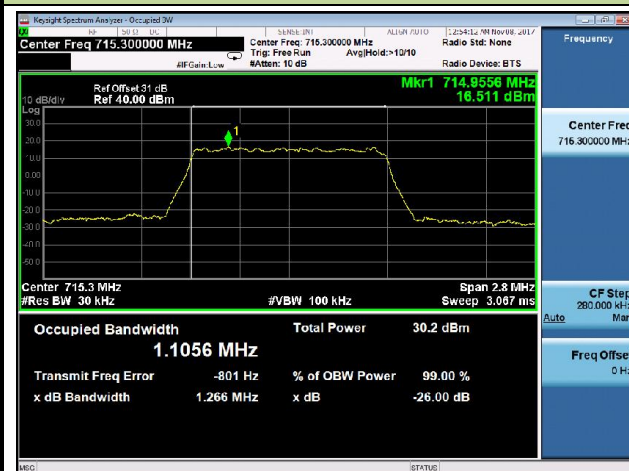
### Mid. CH / 1.4MHz / QPSK



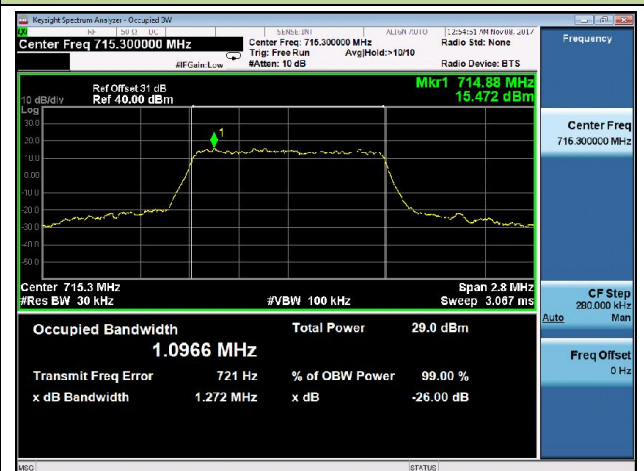
### Mid. CH / 1.4MHz / 16-QAM



### High CH / 1.4MHz / QPSK



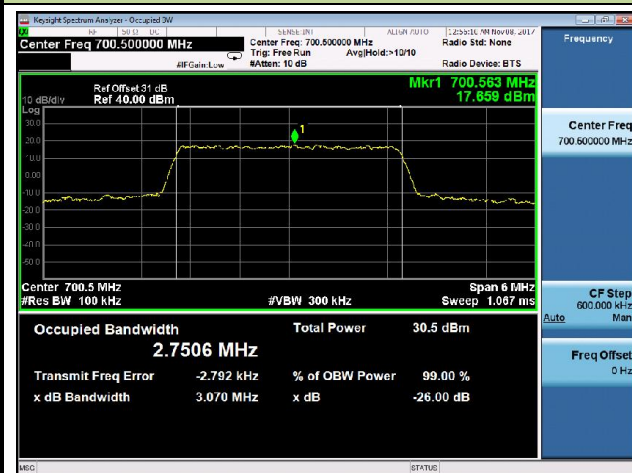
### High CH / 1.4MHz / 16-QAM



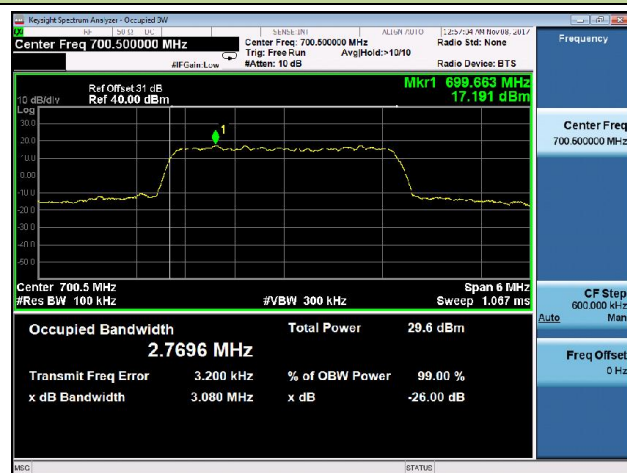


## LTE Band 12 99% & 26dB Occupied Bandwidth

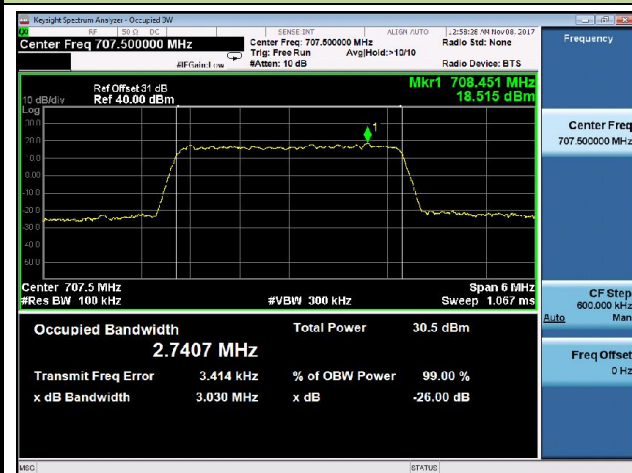
### Low CH / 3MHz / QPSK



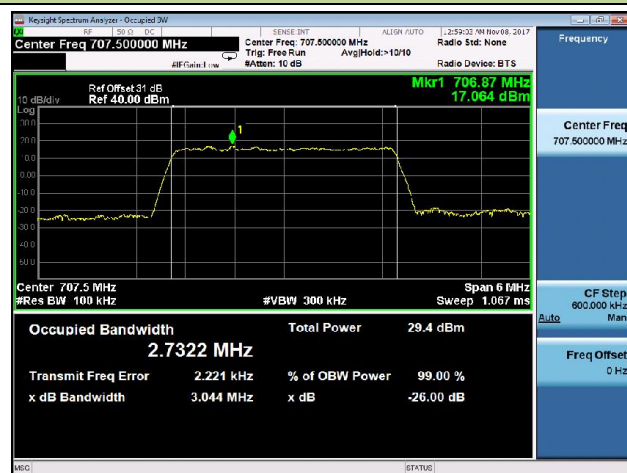
### Low CH / 3MHz / 16-QAM



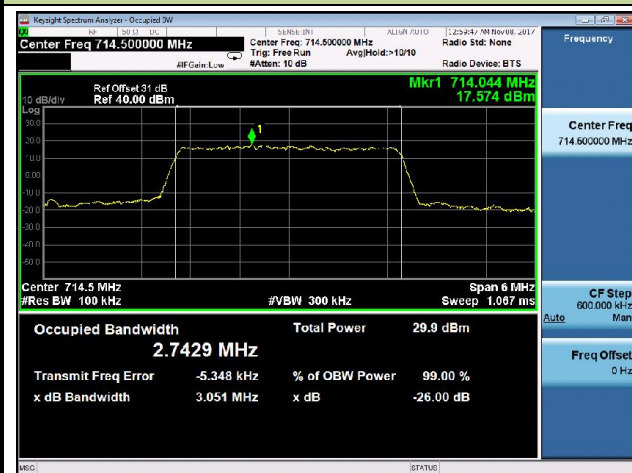
### Mid. CH / 3MHz / QPSK



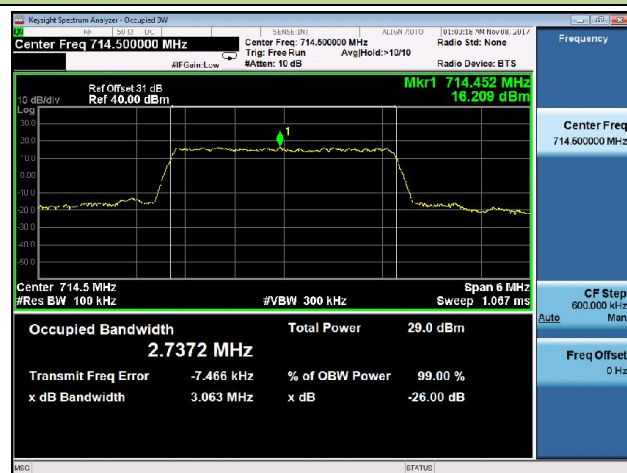
### Mid. CH / 3MHz / 16-QAM



### High CH / 3MHz / QPSK

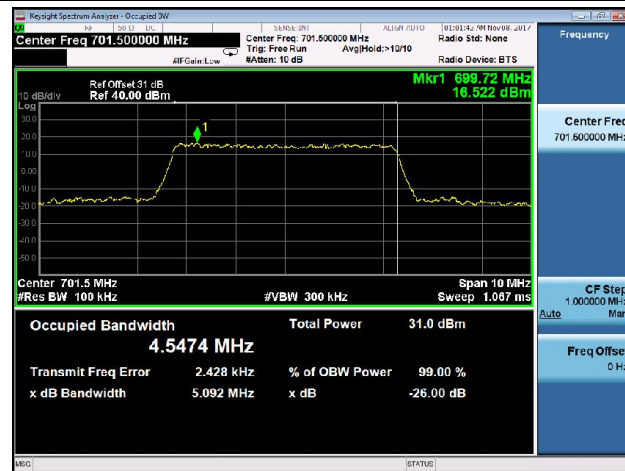


### High CH / 3MHz / 16-QAM

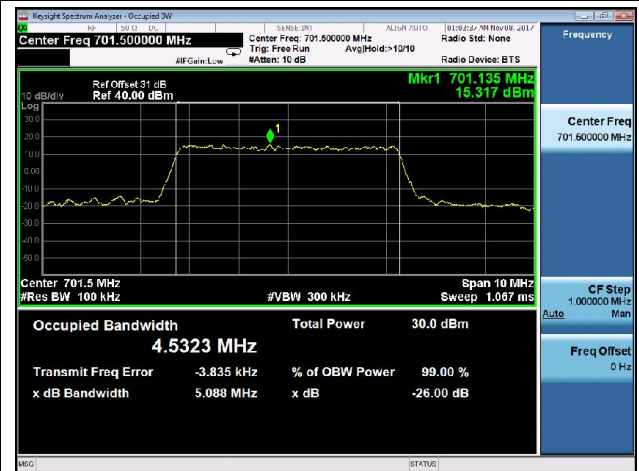


## LTE Band 12 99% & 26dB Occupied Bandwidth

### Low CH / 5MHz / QPSK



### Low CH / 5MHz / 16-QAM



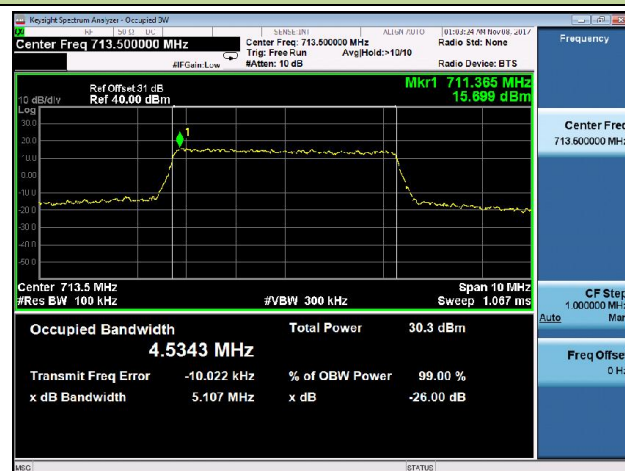
### Mid. CH / 5MHz / QPSK



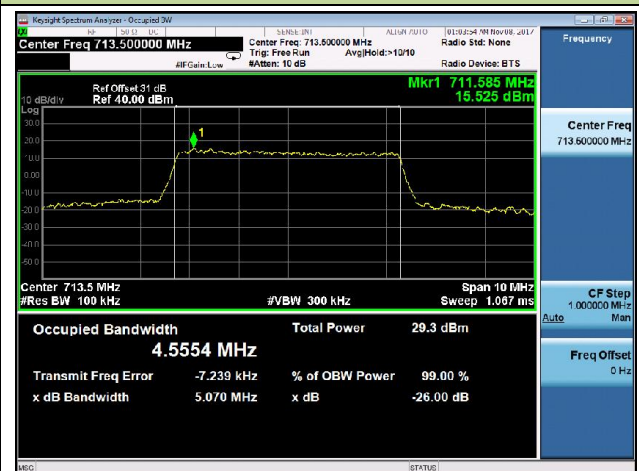
### Mid. CH / 5MHz / 16-QAM



### High CH / 5MHz / QPSK

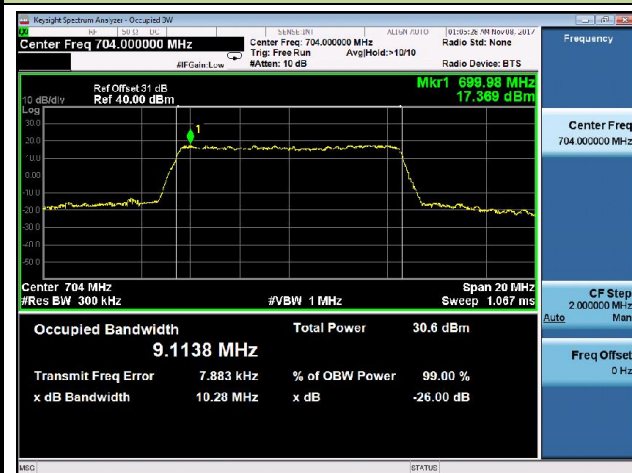


### High CH / 5MHz / 16-QAM



## LTE Band 12 99% & 26dB Occupied Bandwidth

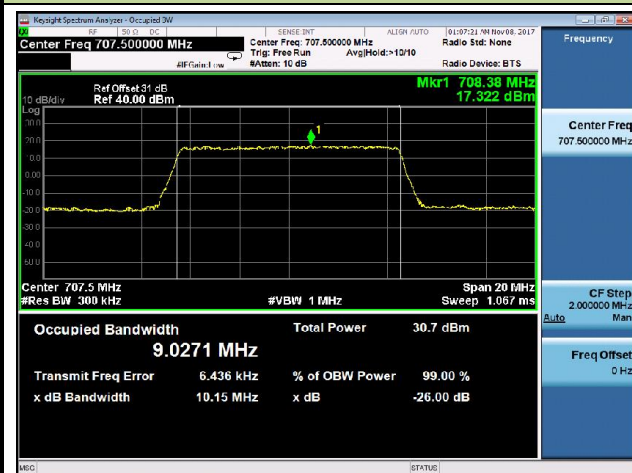
### Low CH / 10MHz / QPSK



### Low CH / 10MHz / 16-QAM



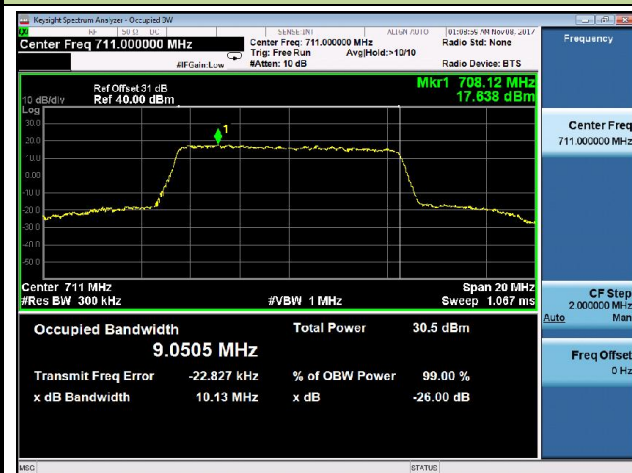
### Mid. CH / 10MHz / QPSK



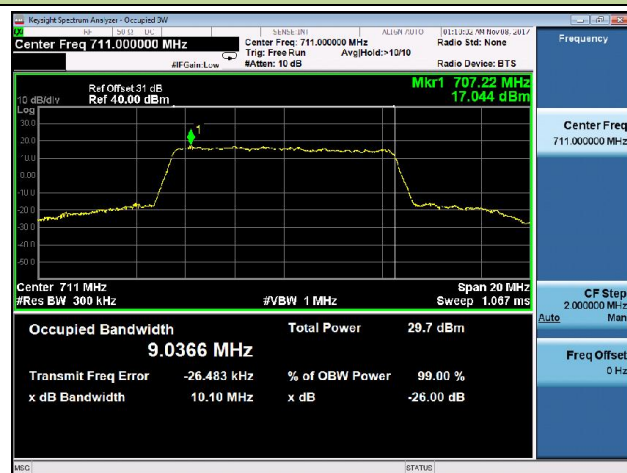
### Mid. CH / 10MHz / 16-QAM



### High CH / 10MHz / QPSK



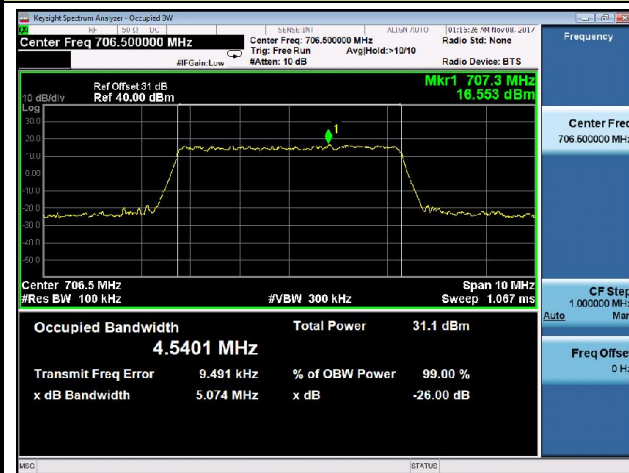
### High CH / 10MHz / 16-QAM





## LTE Band 17 99% & 26dB Occupied Bandwidth

### Low CH / 5MHz / QPSK



### Low CH / 5MHz / 16-QAM



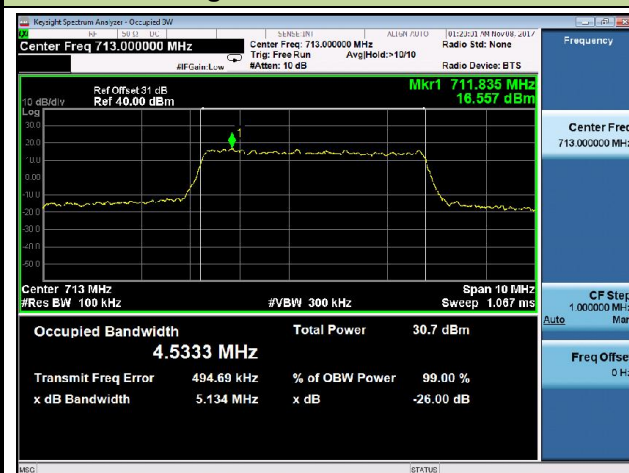
### Mid. CH / 5MHz / QPSK



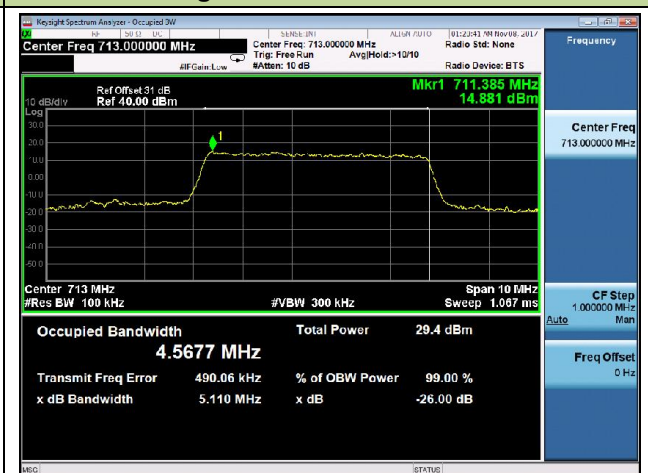
### Mid. CH / 5MHz / 16-QAM



### High CH / 5MHz / QPSK

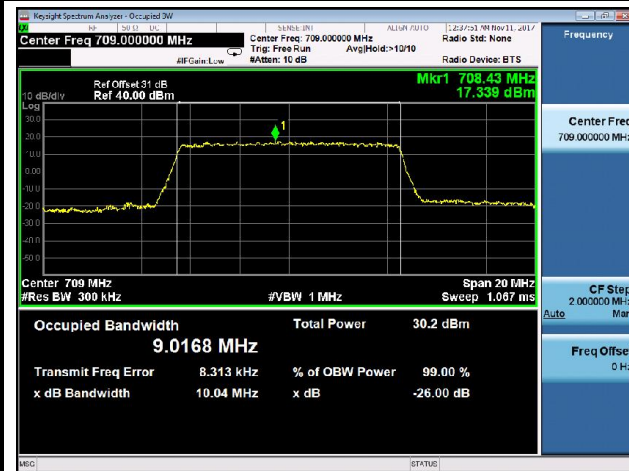


### High CH / 5MHz / 16-QAM



## LTE Band 17 99% & 26dB Occupied Bandwidth

### Low CH / 10MHz / QPSK



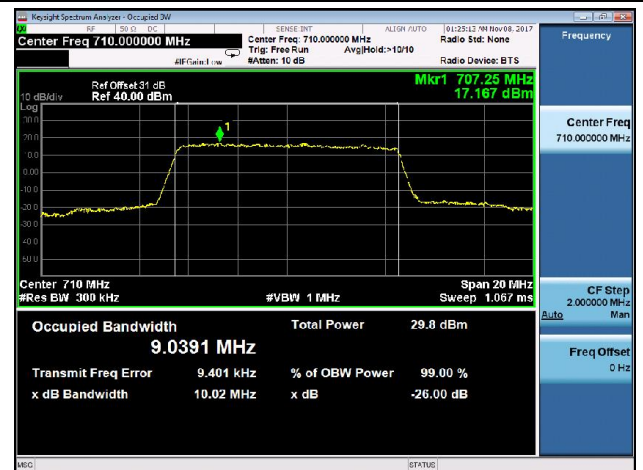
### Low CH / 10MHz / 16-QAM



### Mid. CH / 10MHz / QPSK



### Mid. CH / 10MHz / 16-QAM



### High CH / 10MHz / QPSK



### High CH / 10MHz / 16-QAM



### **7.3. Band Edge Emissions at Antenna Terminal**

#### **7.3.1. Test Limit**

##### **24.238 (a)**

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}$  (P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

##### **27.53 (g)**

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30kHz may be employed.

##### **27.53 (h)**

For operations in the 1710 - 1755 MHz band, the FCC limit is  $43 + 10\log_{10}$  (P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

##### **27.53(m)(4)**

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 than  $43 + 10 \log(P)$  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.

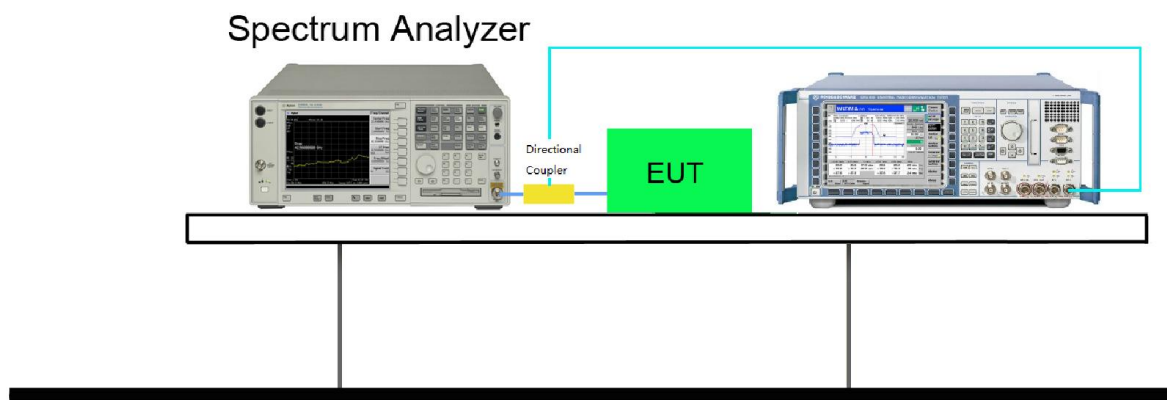
### **7.3.2. Test Procedure Used**

KDB 971168 D01v03 - Section 6.0 & ANSI/TIA-603-E-2016

### **7.3.3. Test Setting**

1. Start frequency was set to 30MHz and stop frequency was set to at least  $10 \times$  the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

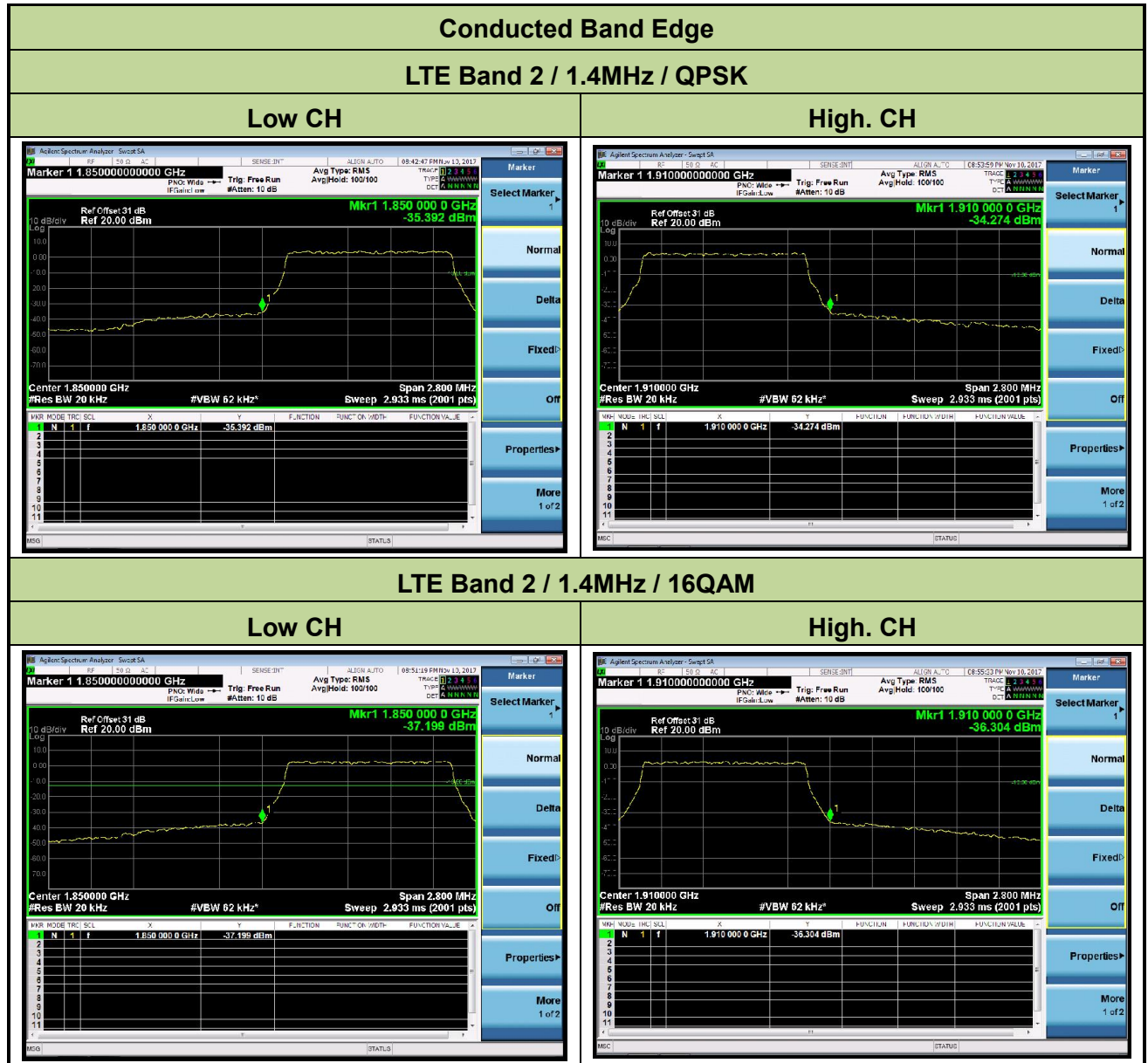
### 7.3.4. Test Setup





### 7.3.5. Test Result

Product	Mobile Data Terminal	Temperature	25°C
Test Engineer	Milo Li	Relative Humidity	54%
Test Site	TR3	Test Date	2017/11/07



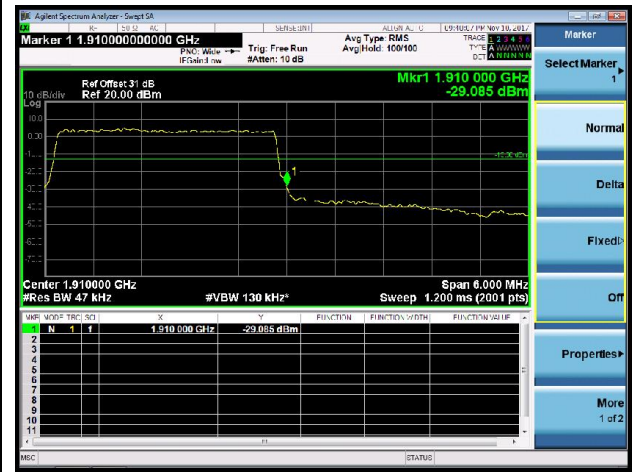
## Conducted Band Edge

### LTE Band 2 / 3MHz / QPSK

#### Low CH



#### High. CH

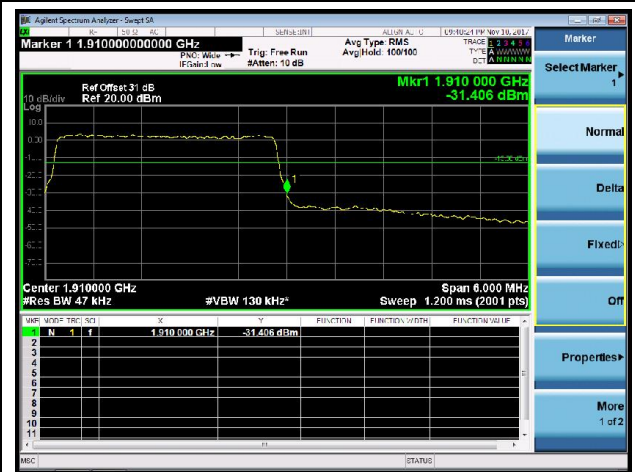


### LTE Band 2 / 3MHz / 16QAM

#### Low CH



#### High. CH



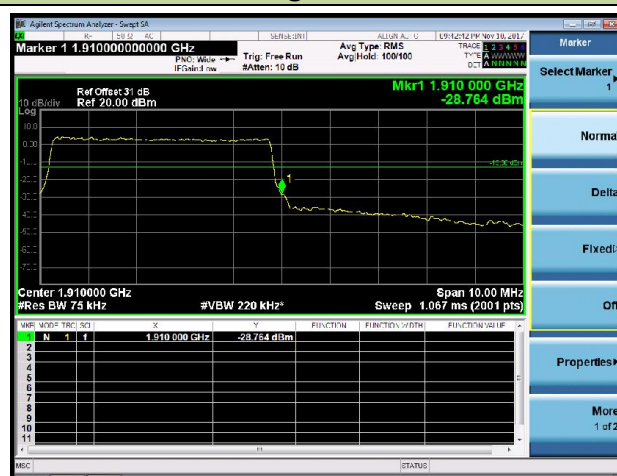
## Conducted Band Edge

### LTE Band 2 / 5MHz / QPSK

#### Low CH

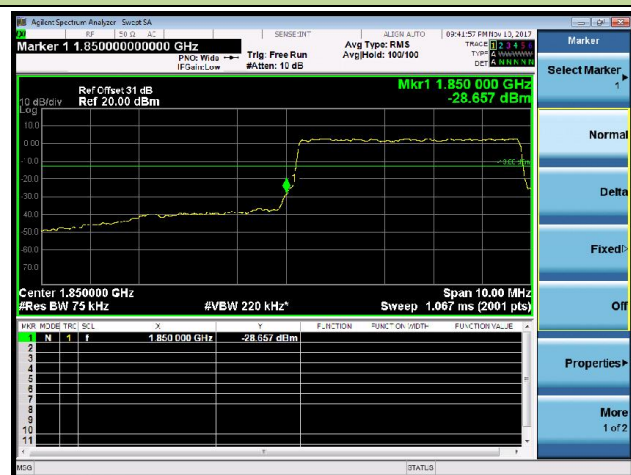


#### High. CH

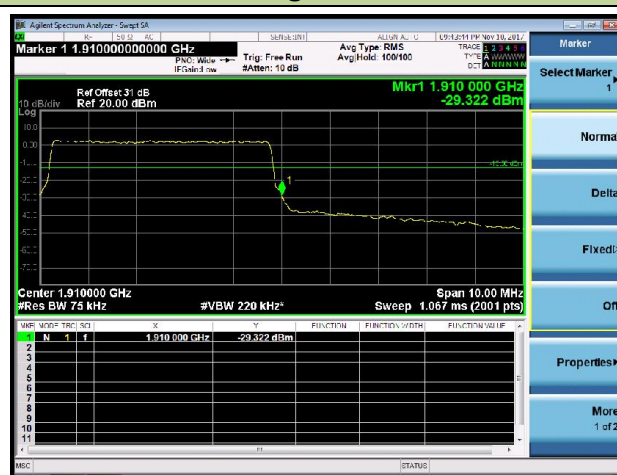


### LTE Band 2 / 5MHz / 16QAM

#### Low CH



#### High. CH



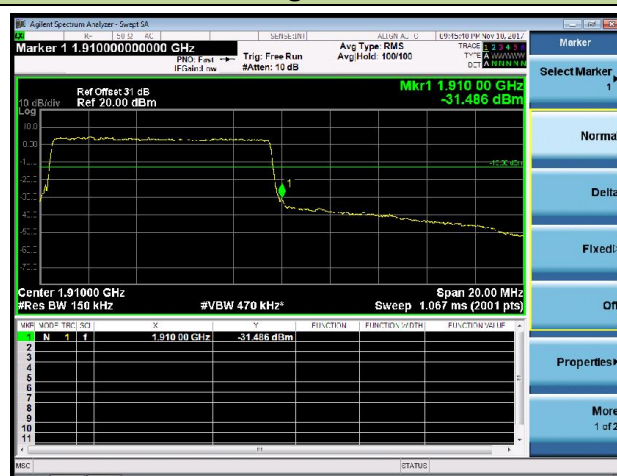
## Conducted Band Edge

### LTE Band 2 / 10MHz / QPSK

#### Low CH

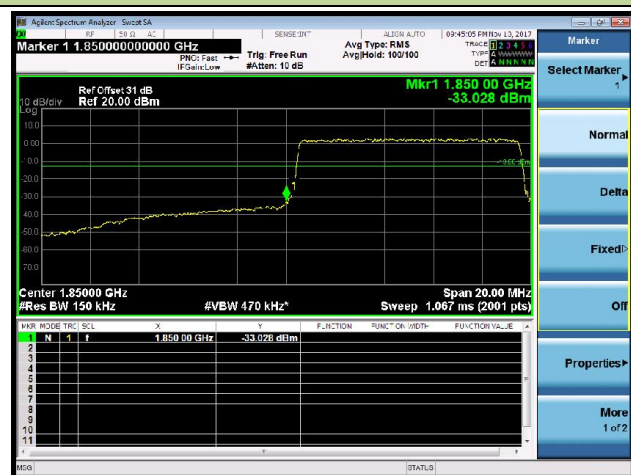


#### High. CH



### LTE Band 2 / 10MHz / 16QAM

#### Low CH



#### High. CH



## Conducted Band Edge

### LTE Band 2 / 15MHz / QPSK

#### Low CH



#### High. CH



### LTE Band 2 / 15MHz / 16QAM

#### Low CH



#### High. CH

