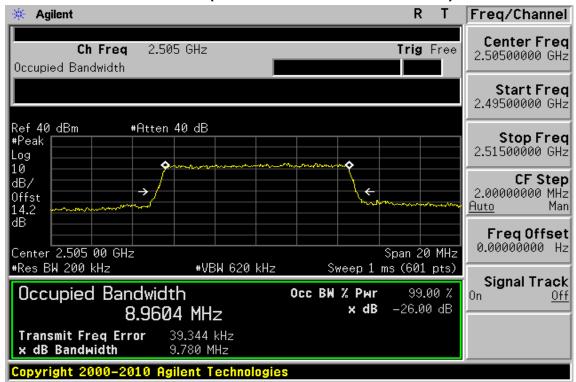
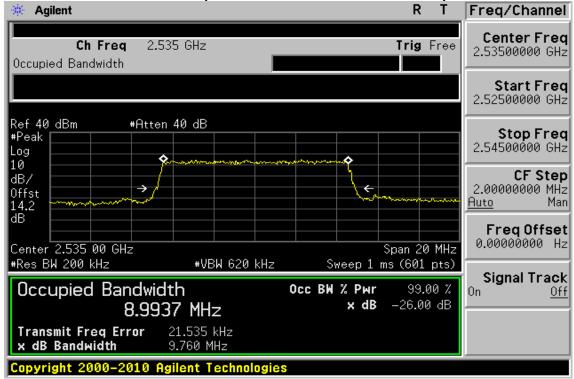


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## 10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low



### 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid



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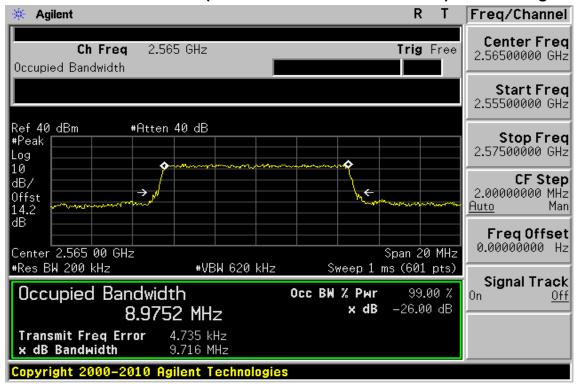
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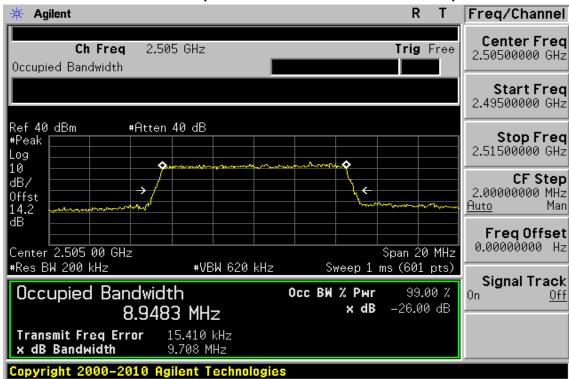


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## 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High



### 10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0) Channel Low



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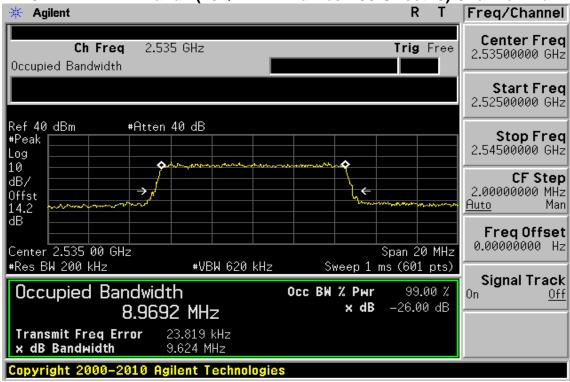
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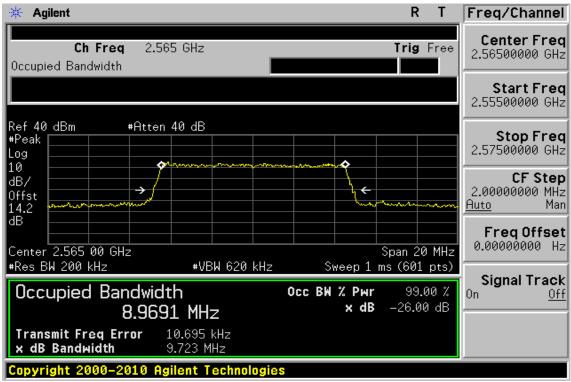


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### 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid



## 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel High



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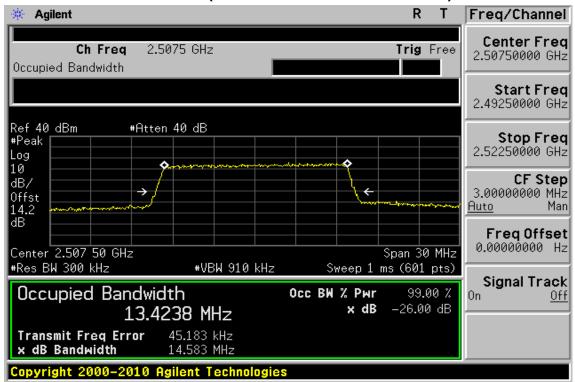
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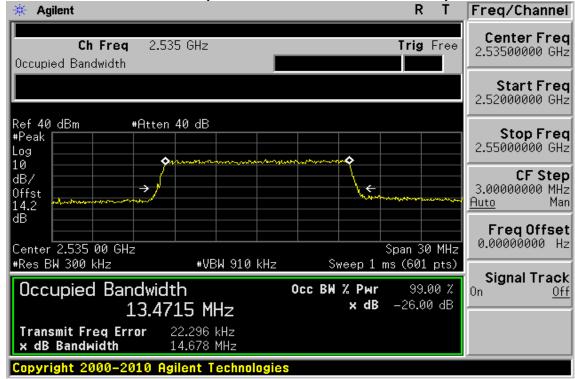


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### 15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low



### 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid



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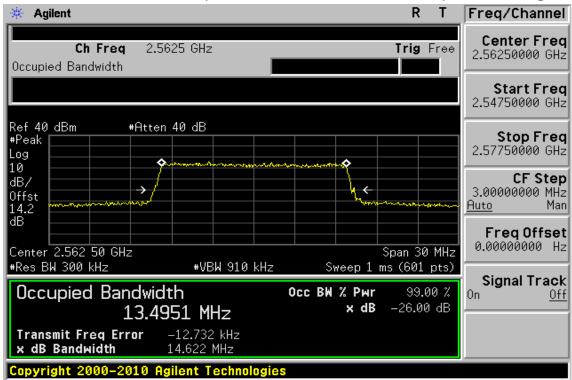
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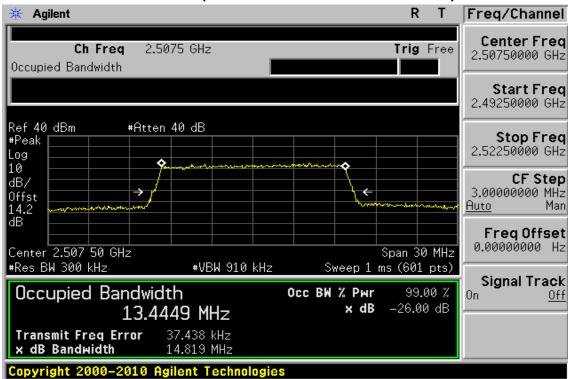


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## 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High



### 15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0) Channel Low



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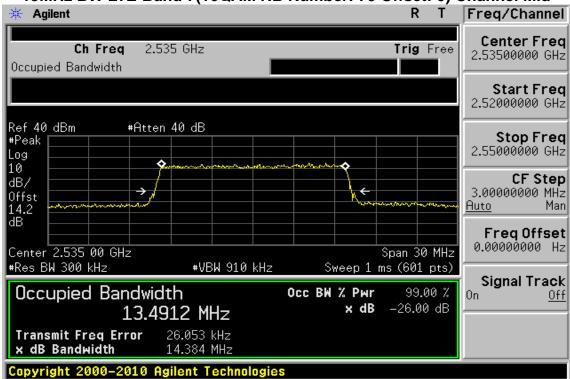
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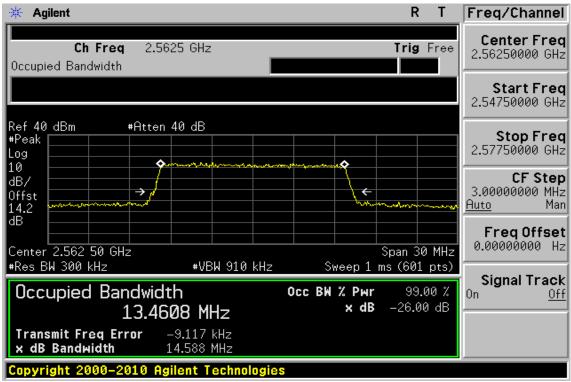


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### 15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid



## 15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel High



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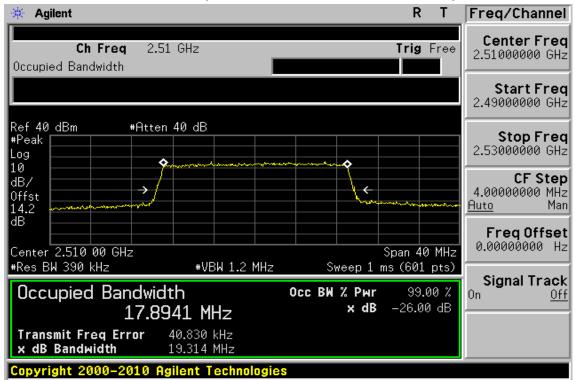
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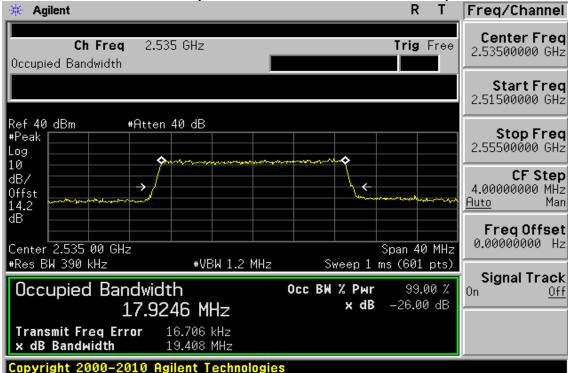


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## 20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low



### 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid



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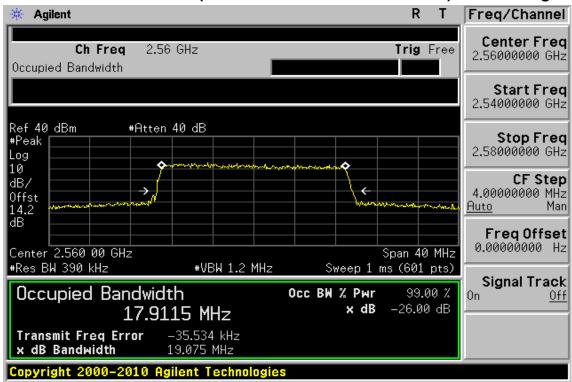
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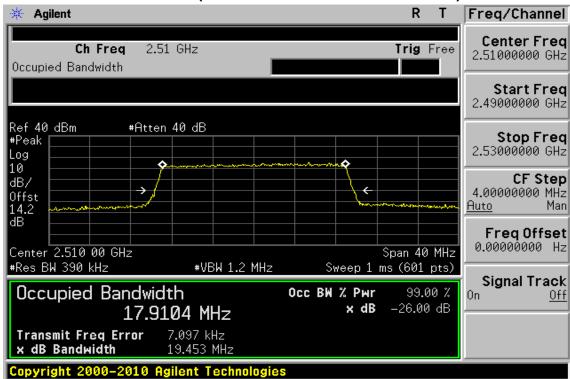


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### 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High



# 20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0) Channel Low



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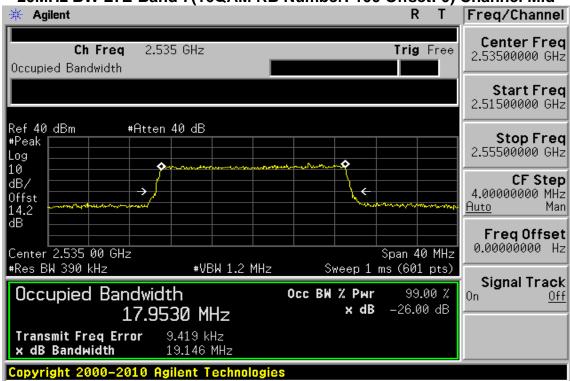
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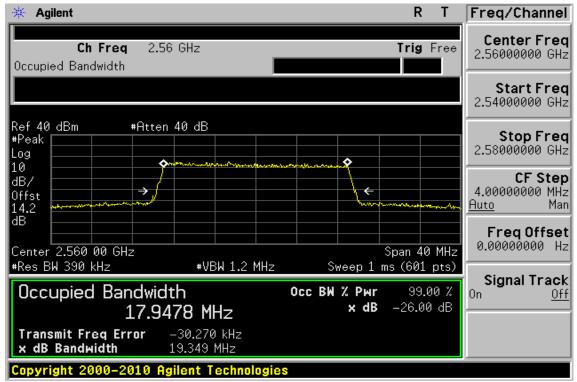


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### 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid



## 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel High



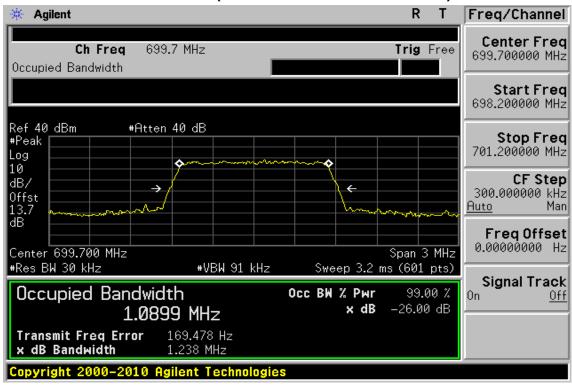
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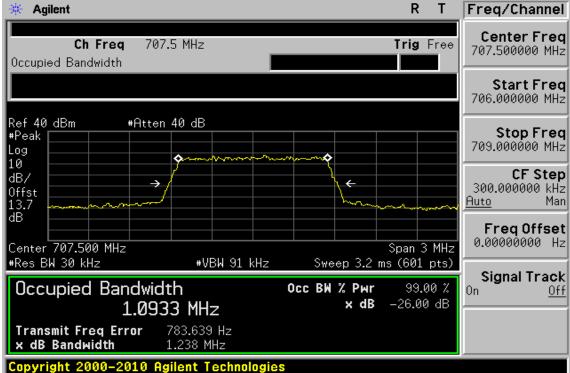


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### 1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel Low



# 1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel Mid



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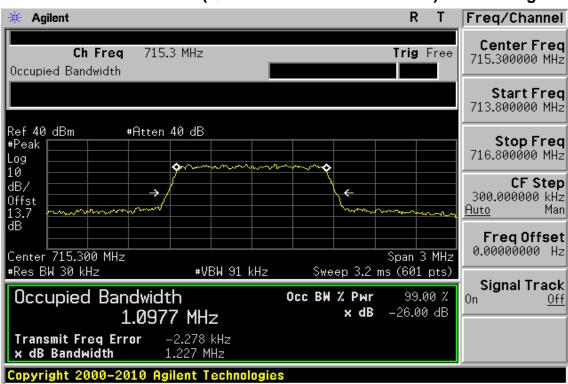
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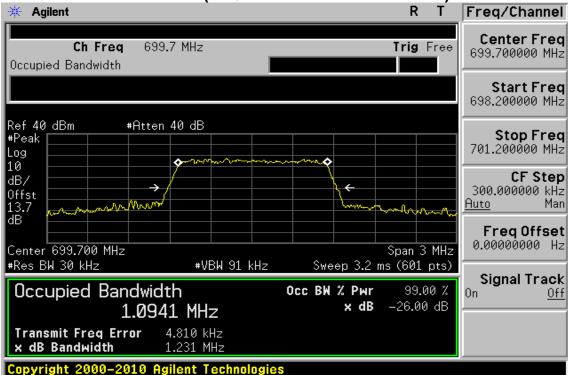


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## 1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel High



### 1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel Low



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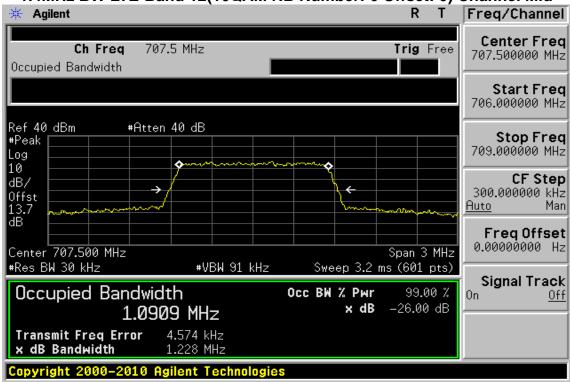
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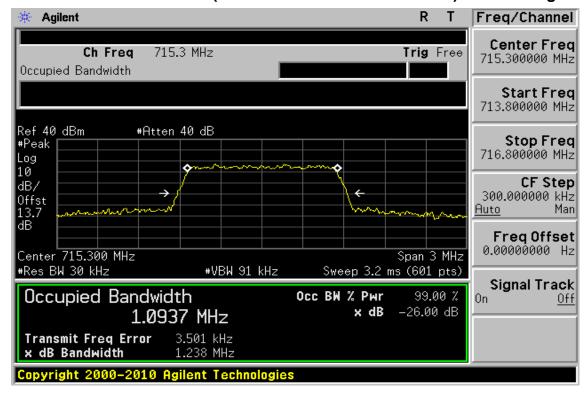


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### 1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel Mid



#### 1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel High



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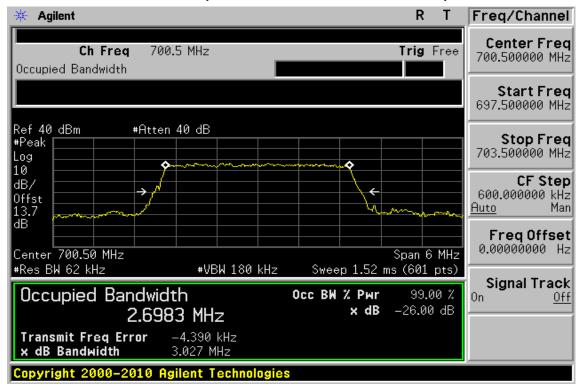
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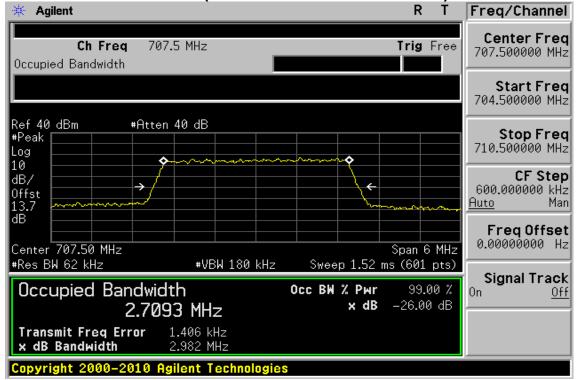


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### 3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel Low



#### 3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel Mid



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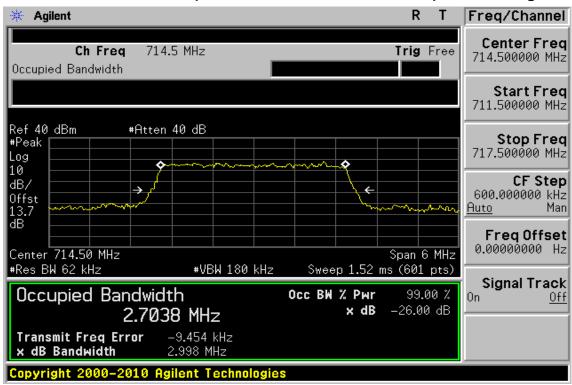
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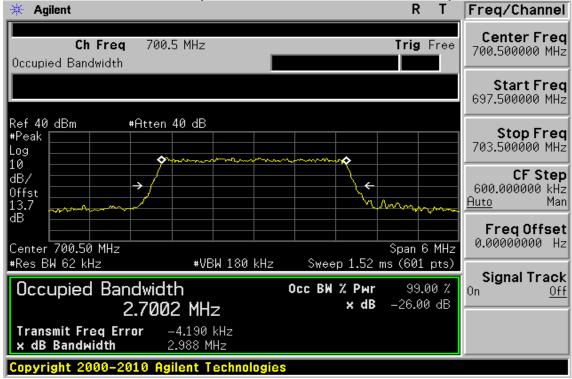


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### 3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel High



#### 3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel Low



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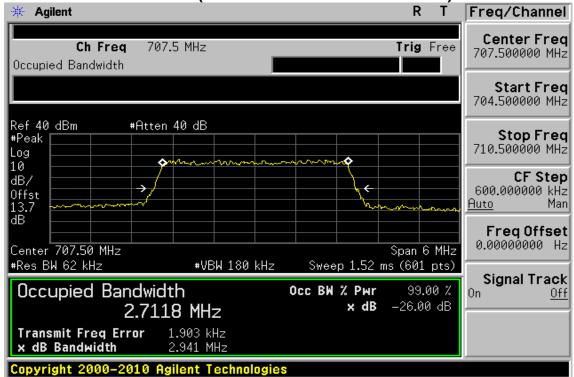
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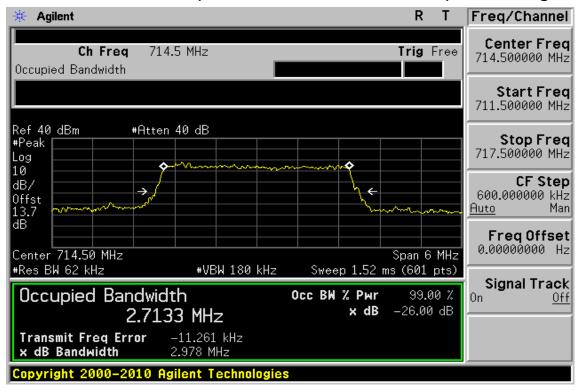


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## 3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel Mid



### 3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel High



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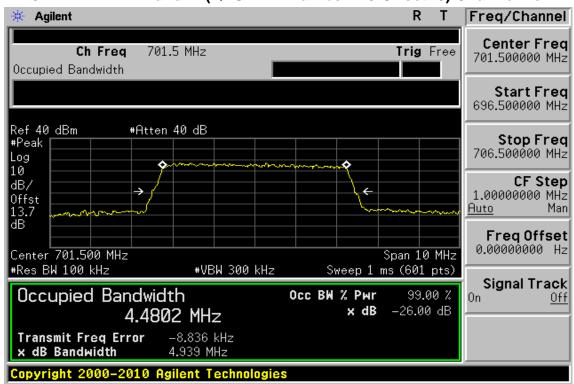
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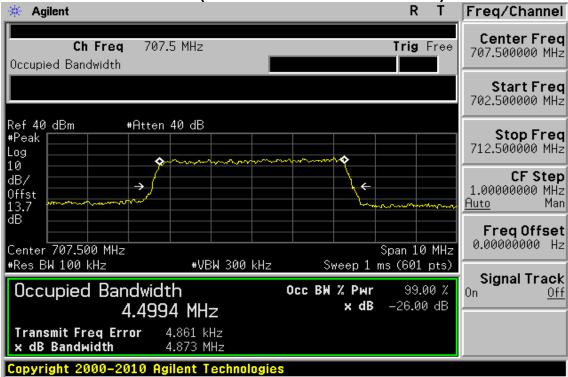


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## 5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel Low



# 5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel Mid



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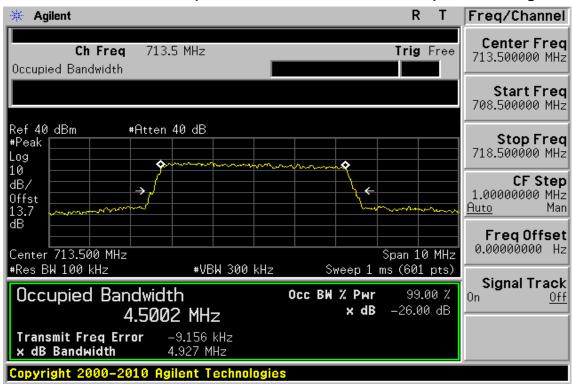
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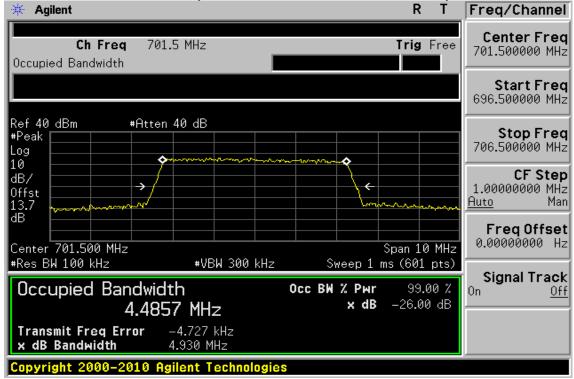


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### 5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel High



### 5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel Low



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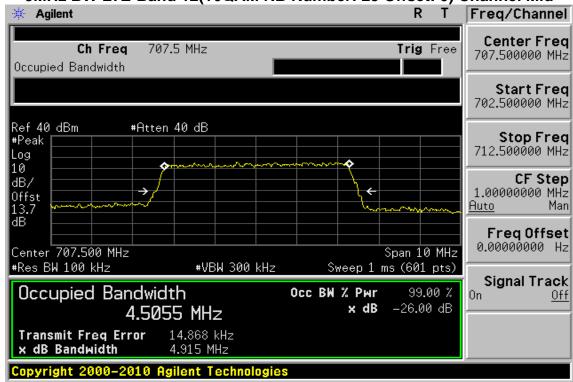
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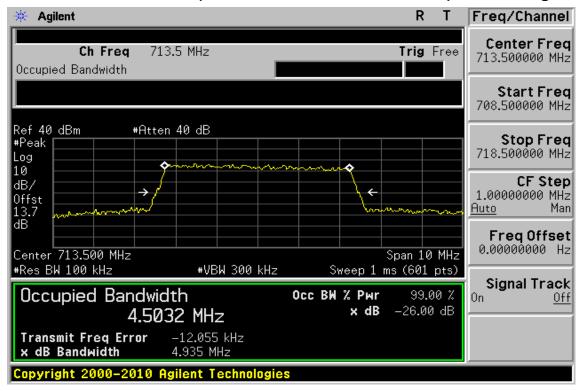


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## 5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel Mid



### 5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel High



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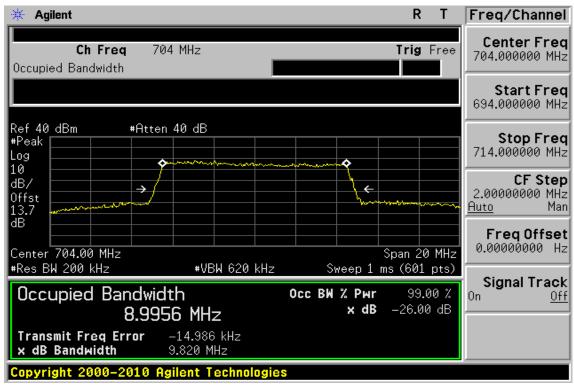
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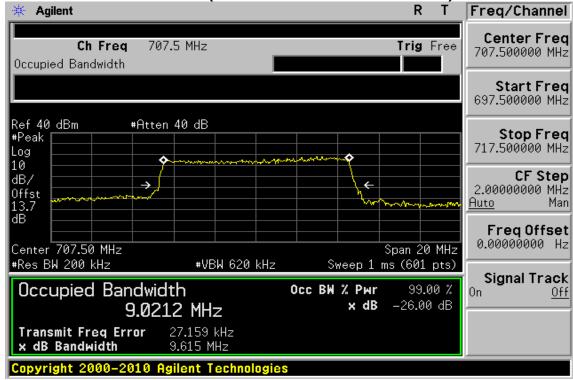


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## 10MHz BW LTE-Band 12(QPSK RB Number: 50 Offset: 0) Channel Low



#### 10MHz BW LTE-Band 12(QPSK RB Number: 50 Offset: 0) Channel Mid



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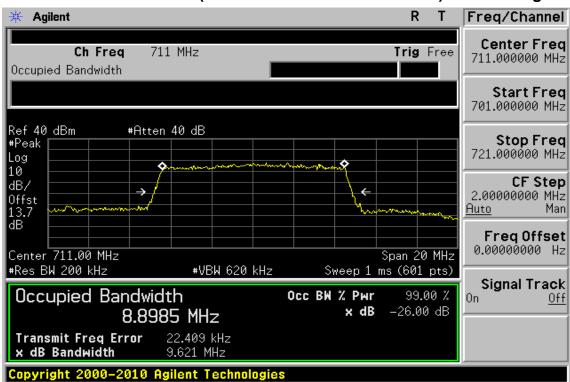
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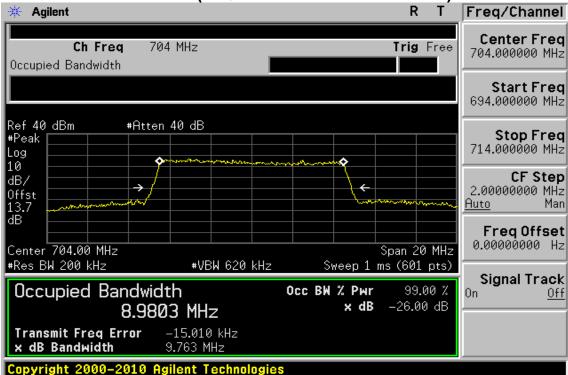


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## 10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel High



#### 10MHz BW LTE-Band 12(16QAM RB Number: 50 Offset: 0) Channel Low



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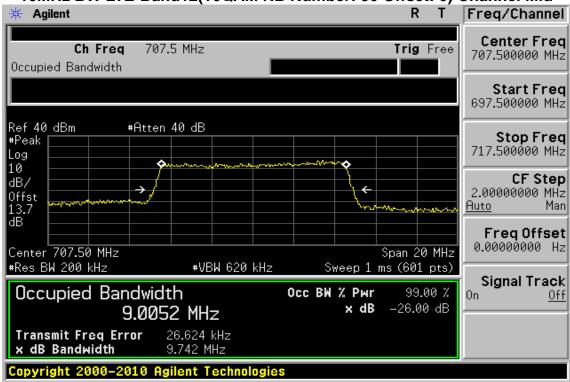
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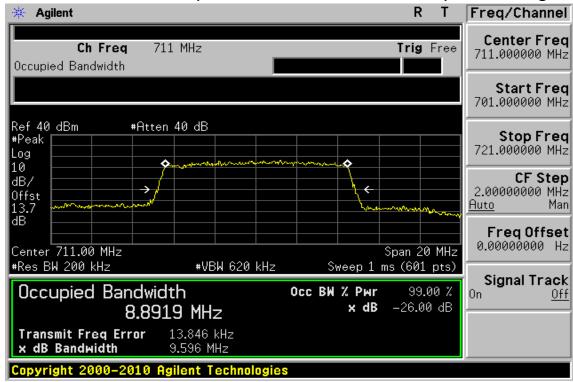


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## 10MHz BW LTE-Band12(16QAM RB Number: 50 Offset: 0) Channel Mid



### 10MHz BW LTE-Band 12(16QAM RB Number: 50 Offset: 0) Channel High



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## 5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Low



## 5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel Mid



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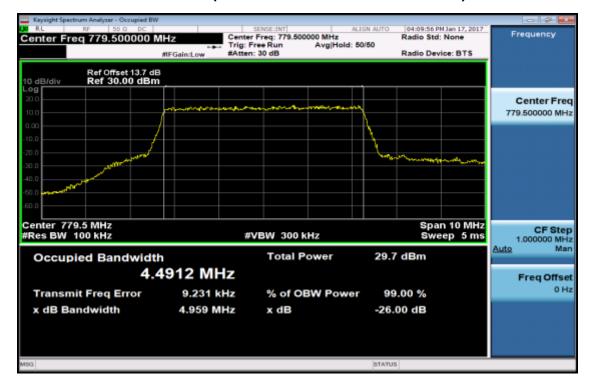


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## 5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel High



### 5MHz BW LTE-Band 13 (16QAM RB Number: 25 Offset: 0) Channel Low



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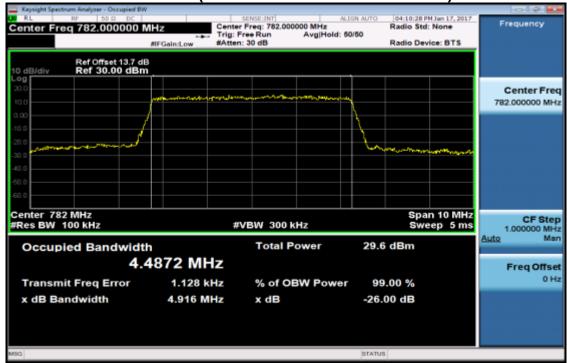
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# 5MHz BW LTE-Band 13 (16QAM RB Number: 25 Offset: 0) Channel Mid



### 5MHz BW LTE-Band 13 (16QAM RB Number: 25 Offset: 0) Channel High



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## 10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Mid



### 10MHz BW LTE-Band 13 (16QAM RB Number: 50 Offset: 0) Channel Mid



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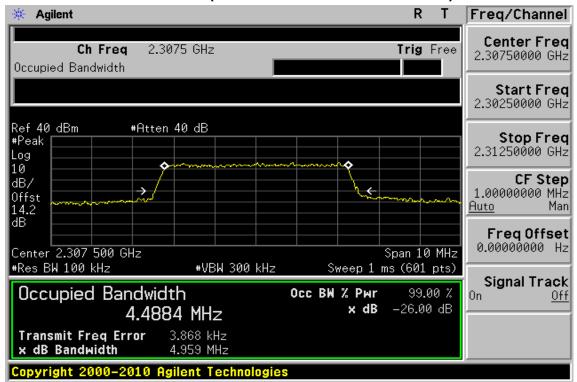
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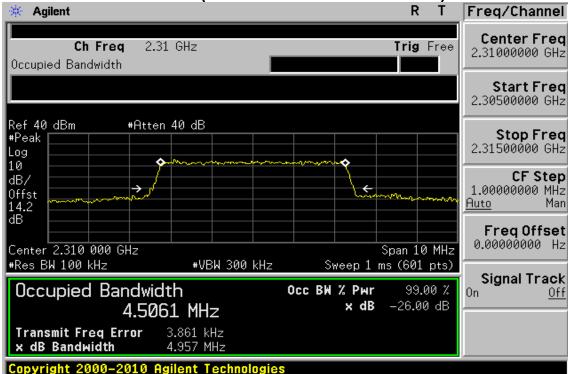


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### 5MHz BW LTE-Band 30 (QPSK RB Number: 25 Offset: 0) Channel Low



### 5MHz BW LTE-Band 30(QPSK RB Number: 25 Offset: 0) Channel Mid



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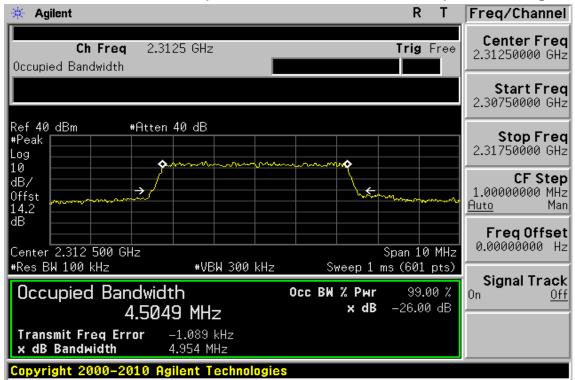
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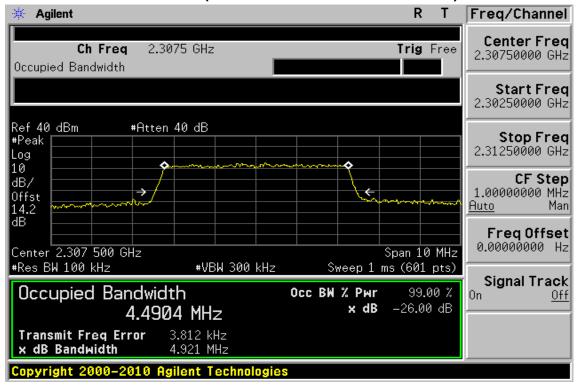


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## 5MHz BW LTE-Band 30(QPSK RB Number: 25 Offset: 0) Channel High



# 5MHz BW LTE-Band 30 (16QAM RB Number: 25 Offset: 0) Channel Low



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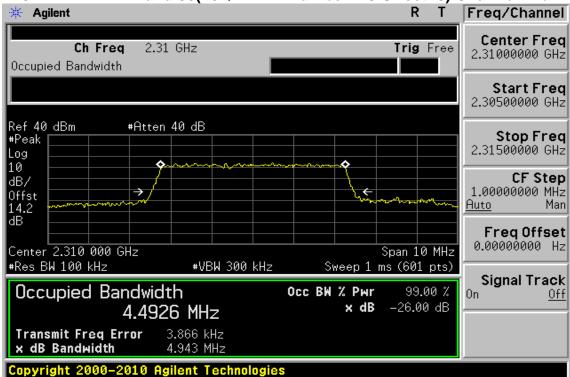
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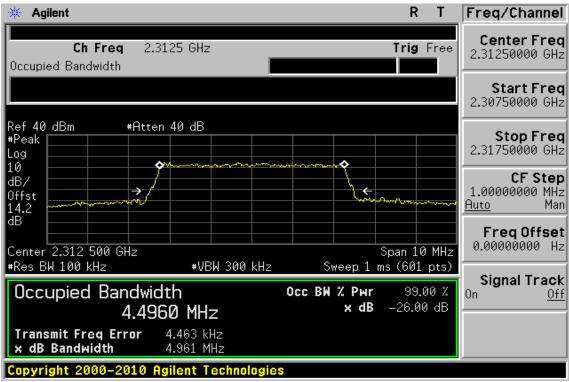


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### 5MHz BW LTE-Band 30(16QAM RB Number: 25 Offset: 0) Channel Mid



## 5MHz BW LTE-Band 30(16QAM RB Number: 25 Offset: 0) Channel High



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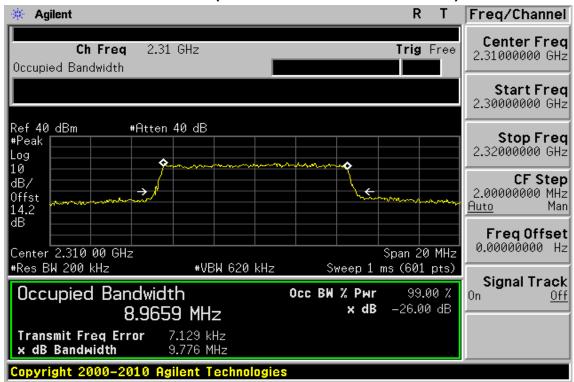
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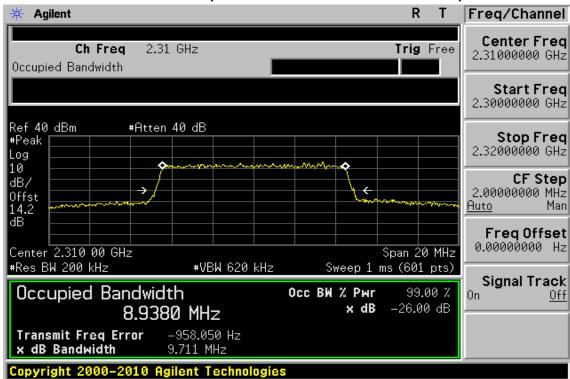


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### 10MHz BW LTE-Band 30 (QPSK RB Number: 50 Offset: 0) Channel Mid



# 10MHz BW LTE-Band 30 (16QAM RB Number: 50 Offset: 0) Channel Mid



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#### 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

FCC §27.53(c) (2) (4)

- (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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#### FCC §27.53(m) (4) (6)

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 § 27.53(m)(6). 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.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. 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; 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, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

#### FCC §27.53(a) (4)

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
- (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
- (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

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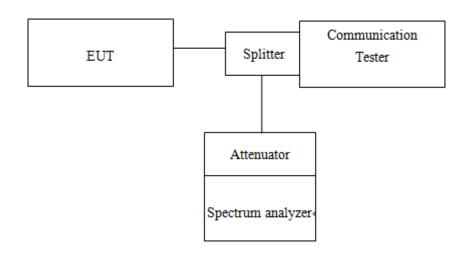
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#### 9.2. Test SET-UP



#### 9.3. Measurement Procedure

#### **Conducted Emission**

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

#### **Band Edge**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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## 9.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site |               |           |            |            |            |  |  |  |
|---------------------------------------------------------|---------------|-----------|------------|------------|------------|--|--|--|
| <b>EQUIPMENT</b>                                        | MFR           | MODEL     | SERIAL     | LAST       | CAL DUE.   |  |  |  |
| TYPE                                                    |               | NUMBER    | NUMBER     | CAL.       |            |  |  |  |
| Power Meter                                             | Anritsu       | ML2495A   | 1005007    | 12/09/2015 | 12/08/2016 |  |  |  |
| Power Sensor                                            | Anritsu       | MA2411B   | 917032     | 12/09/2015 | 12/08/2016 |  |  |  |
| EXA Spectrum                                            |               |           |            |            |            |  |  |  |
| Analyzer                                                | Agilent       | N9030A    | MY53120760 | 2016/2/26  | 2017/2/25  |  |  |  |
| DC Block                                                | Mini-Circuits | BLK-18-S+ | 1          | 01/02/2016 | 01/01/2017 |  |  |  |
| Coaxial Cable                                           | HUBER+SUHNE   | SUCOFLEX  | 23670/2    | 01/02/2016 | 01/01/2017 |  |  |  |
|                                                         | R             | 102       |            |            |            |  |  |  |
| Attenuator                                              | Mini-Circuit  | BW-S10W2+ | 2          | 01/02/2016 | 01/01/2017 |  |  |  |
| Splitter                                                | Agilent       | 11636B    | N/A        | 01/02/2016 | 01/01/2017 |  |  |  |
| DC Power Supply                                         | Agilent       | E3640A    | MY52410006 | 11/05/2015 | 11/04/2016 |  |  |  |
| Temperature Chamber                                     | TERCHY        | MHG-120LF | 911009     | 05/17/2015 | 05/16/2016 |  |  |  |
| Radio Communication                                     | R&S           | CMU200    | 102189     | 02/11/2016 | 02/10/2017 |  |  |  |
| Analyzer                                                |               |           |            |            |            |  |  |  |
| Radio Communication                                     | Anritsu       | MT8820C   | 6201465317 | 12/10/2015 | 12/09/2016 |  |  |  |
| Analyer                                                 |               |           |            |            |            |  |  |  |

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| Conducted Emission (measured at antenna port) Test Site |                  |                 |            |            |            |  |  |  |
|---------------------------------------------------------|------------------|-----------------|------------|------------|------------|--|--|--|
| <b>EQUIPMENT</b>                                        | MFR              | MODEL           | SERIAL     | LAST       | CAL DUE.   |  |  |  |
| TYPE                                                    |                  | NUMBER          | NUMBER     | CAL.       |            |  |  |  |
| Power Meter                                             | Anritsu          | ML2495A         | 1005007    | 12/08/2016 | 12/07/2017 |  |  |  |
| Power Sensor                                            | Anritsu          | MA2411B         | 917032     | 12/08/2016 | 12/07/2017 |  |  |  |
| DC Block                                                | Mini-Circuits    | BLK-18-S+       | 1          | 01/01/2017 | 12/31/2017 |  |  |  |
| Coaxial Cable                                           | HUBER+SUHNE<br>R | SUCOFLEX<br>102 | 23670/2    | 01/01/2017 | 12/31/2017 |  |  |  |
| Attenuator                                              | Mini-Circuit     | BW-S10W2+       | 2          | 01/01/2017 | 12/31/2017 |  |  |  |
| Splitter                                                | Agilent          | 11636B          | N/A        | 01/01/2017 | 12/31/2017 |  |  |  |
| DC Power Supply                                         | Agilent          | E3640A          | MY52410006 | 11/04/2016 | 11/03/2017 |  |  |  |
| Temperature Chamber                                     | TERCHY           | MHG-120LF       | 911009     | 05/05/2016 | 05/04/2017 |  |  |  |
| Radio Communication Analyer                             | Anritsu          | MT8820C         | 6201465317 | 12/09/2016 | 12/08/2017 |  |  |  |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

#### 9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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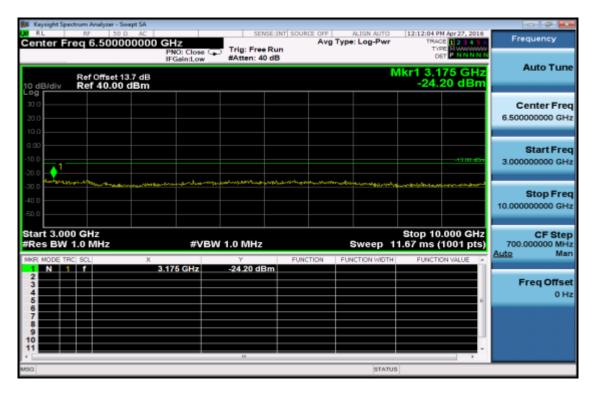
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#### Out of Band emission at antenna terminals - GSM 850 Channel Lowest





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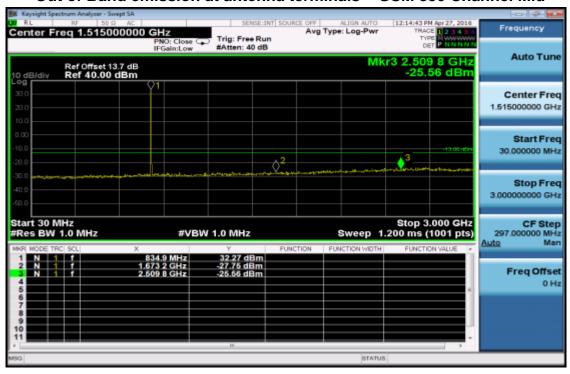
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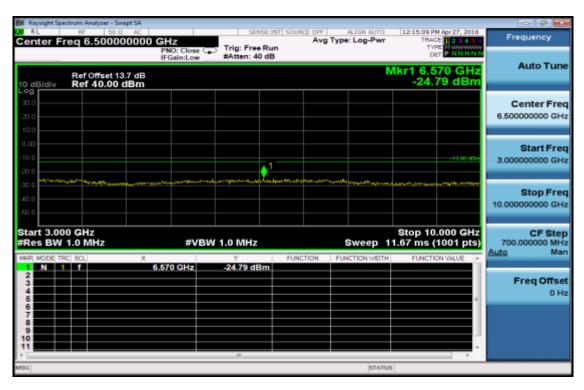
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#### Out of Band emission at antenna terminals – GSM 850 Channel Mid





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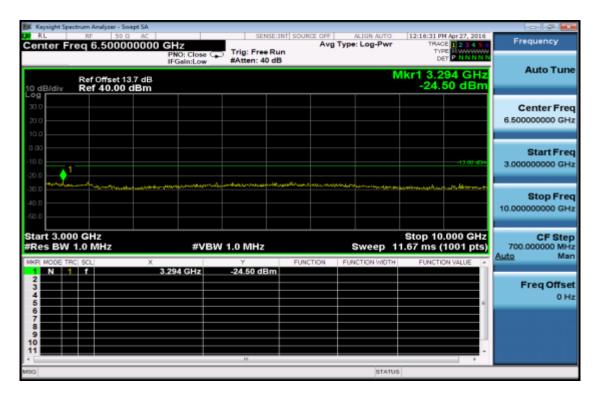
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# Out of Band emission at antenna terminals - GSM 850 Channel Highest





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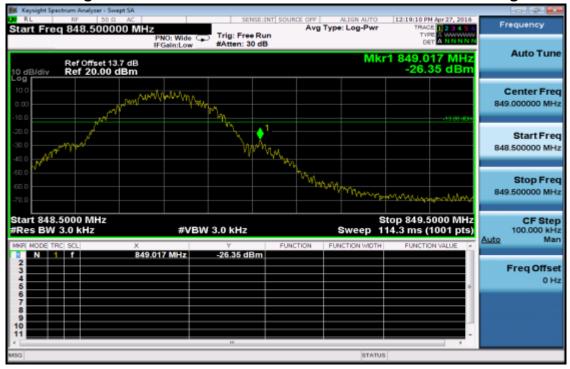


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### Band edge emission at antenna terminals – GSM 850 Channel Lowest



# Band edge emission at antenna terminals – GSM 850 Channel Highest



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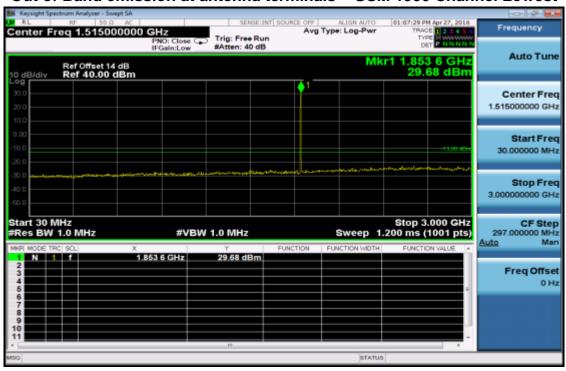
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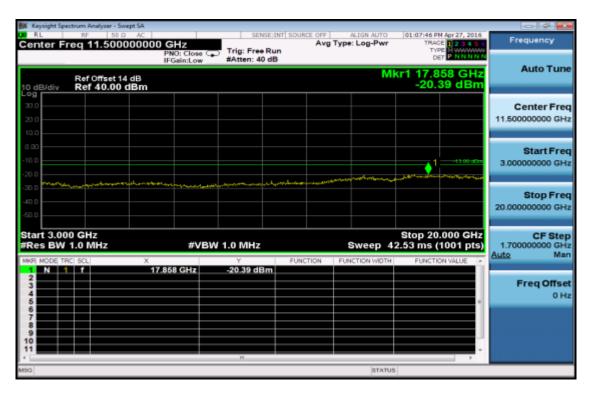
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### Out of Band emission at antenna terminals - GSM 1900 Channel Lowest





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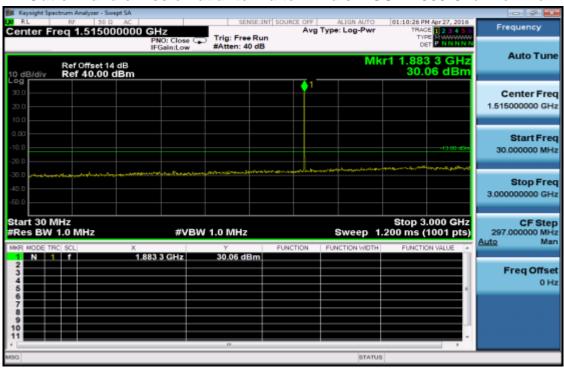
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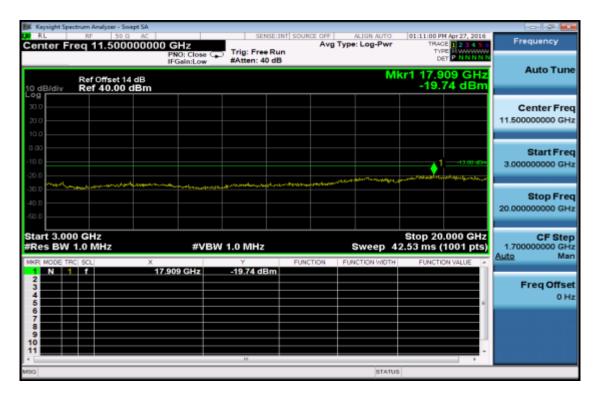
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### Out of Band emission at antenna terminals - GSM 1900 Channel Mid





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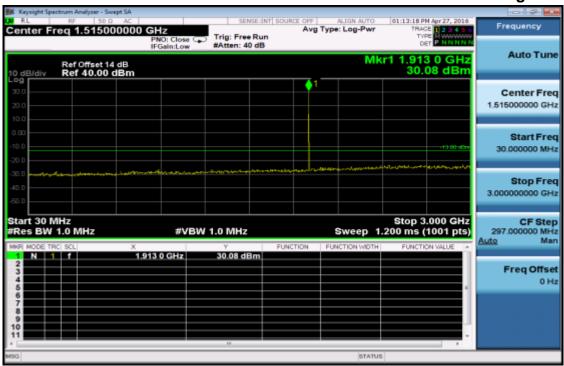
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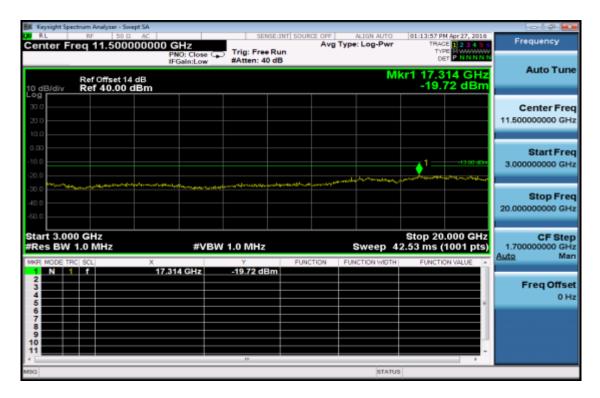
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### Out of Band emission at antenna terminals - GSM 1900 Channel Highest





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# Band edge emission at antenna terminals – GSM 1900 Channel Lowest



# Band edge emission at antenna terminals - GSM 1900 Channel Highest



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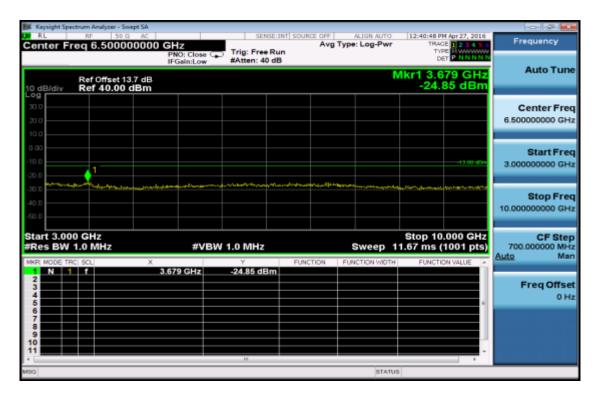
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### Out of Band emission at antenna terminals – GPRS 850 Channel Lowest





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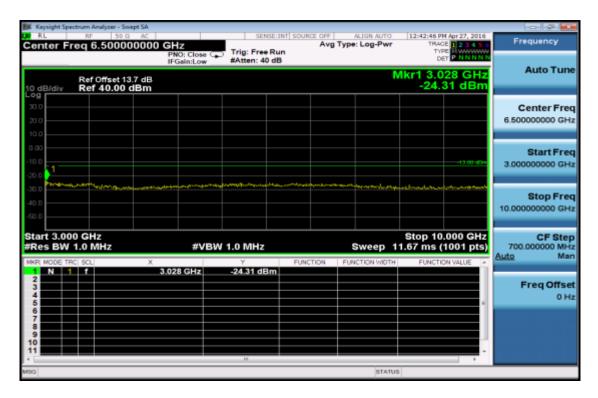
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### Out of Band emission at antenna terminals - GPRS 850 Channel Mid





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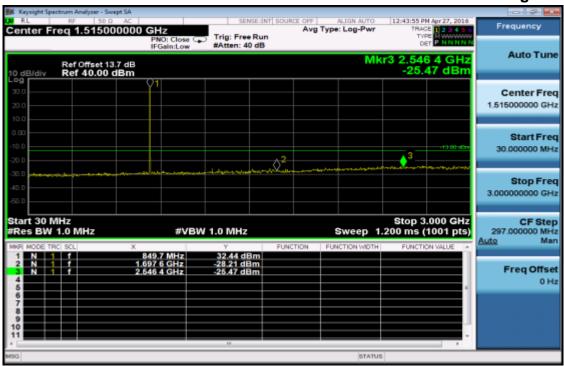
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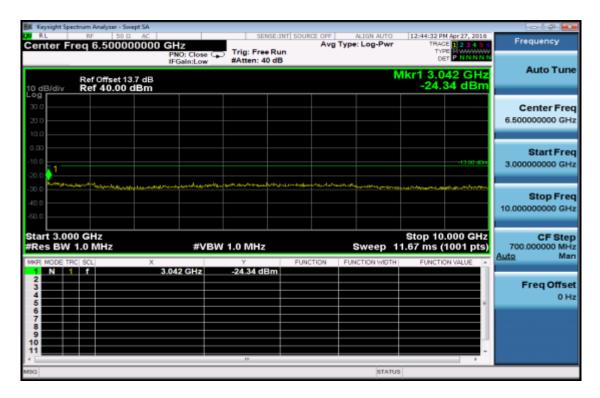
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# Out of Band emission at antenna terminals - GPRS 850 Channel Highest





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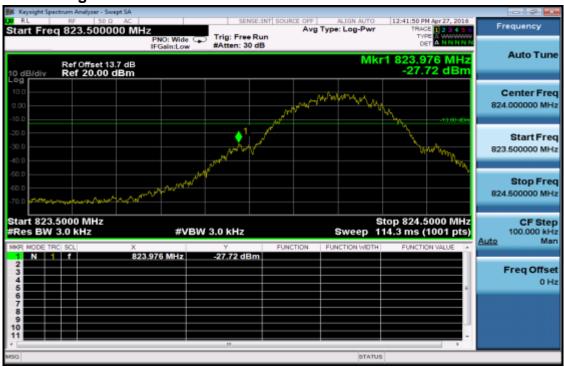
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### Band edge emission at antenna terminals – GPRS 850 Channel Lowest



# Band edge emission at antenna terminals - GPRS 850 Channel Highest



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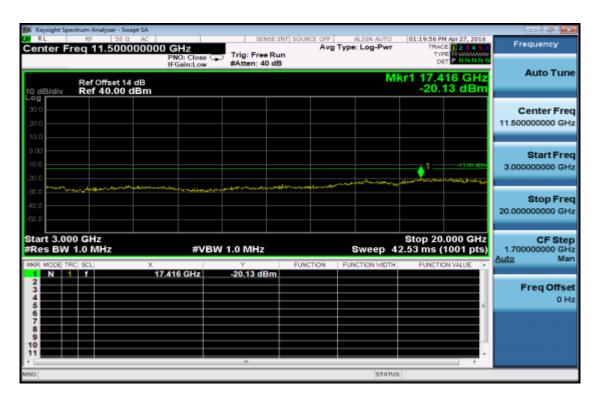
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### Out of Band emission at antenna terminals - GPRS 1900 Channel Lowest





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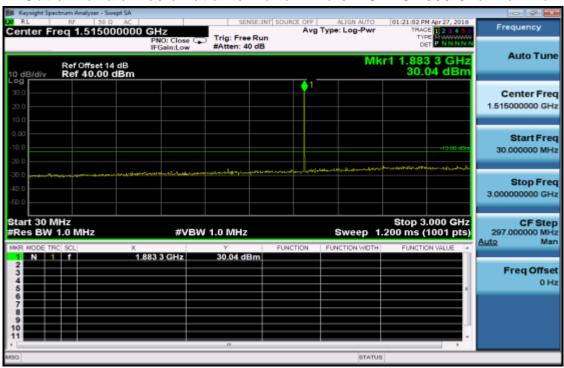
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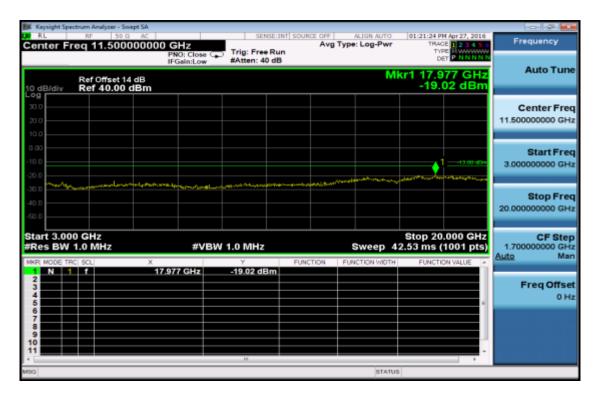
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### Out of Band emission at antenna terminals - GPRS 1900 Channel Mid





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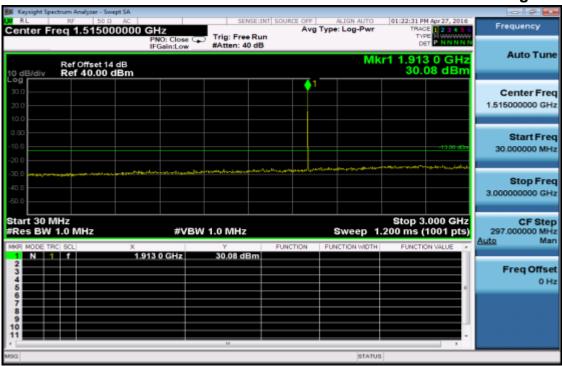
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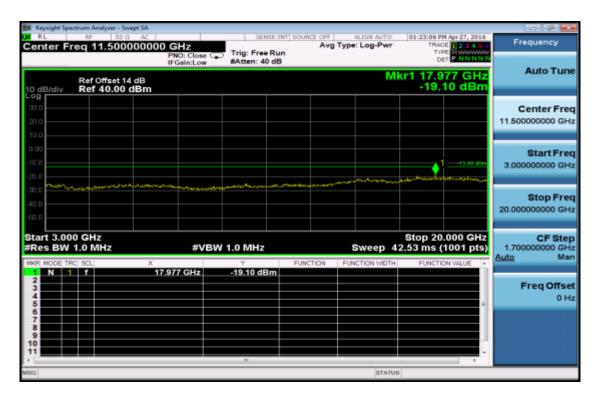
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# Out of Band emission at antenna terminals - GPRS 1900 Channel Highest





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# Band edge emission at antenna terminals – GPRS 1900 Channel Lowest



# Band edge emission at antenna terminals - GSM 1900 Channel Highest



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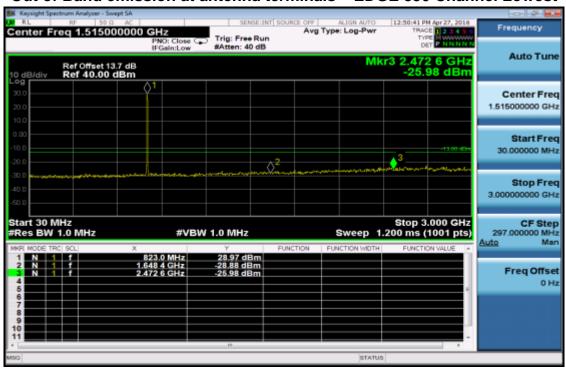
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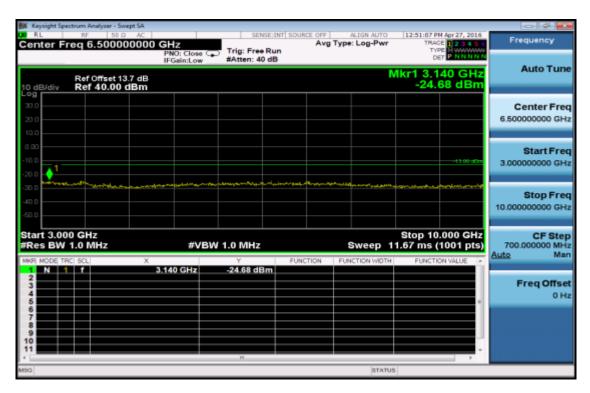
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### Out of Band emission at antenna terminals - EDGE 850 Channel Lowest





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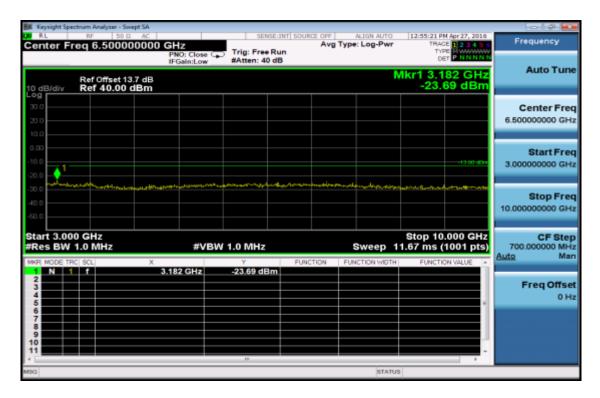
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### Out of Band emission at antenna terminals - EDGE 850 Channel Mid





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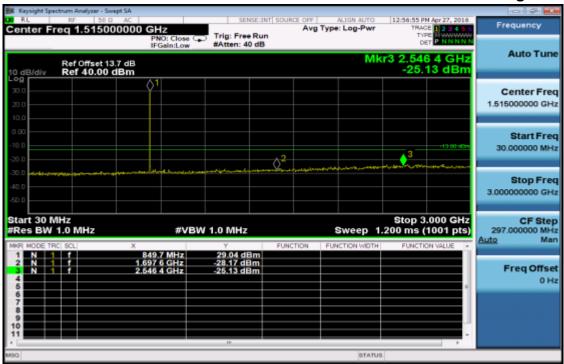
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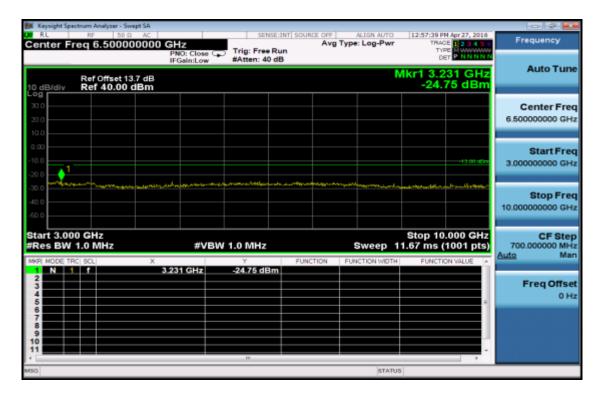
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### Out of Band emission at antenna terminals - EDGE 850 Channel Highest





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# Band edge emission at antenna terminals – EDGE 850 Channel Lowest



# Band edge emission at antenna terminals - EDGE 850 Channel Highest



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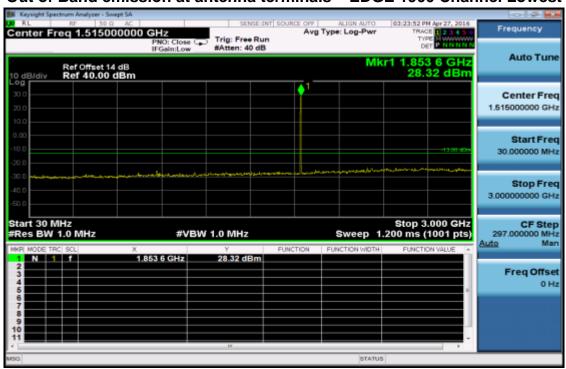
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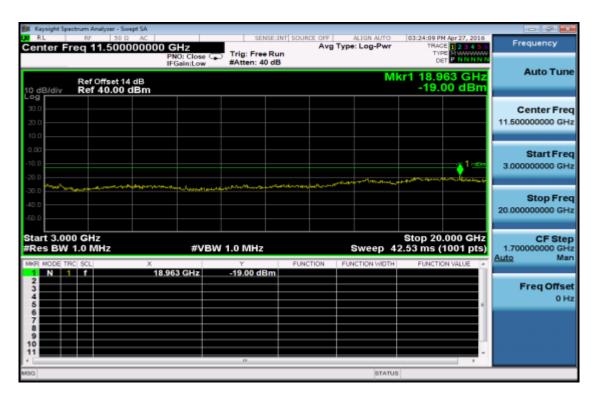
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### Out of Band emission at antenna terminals - EDGE 1900 Channel Lowest





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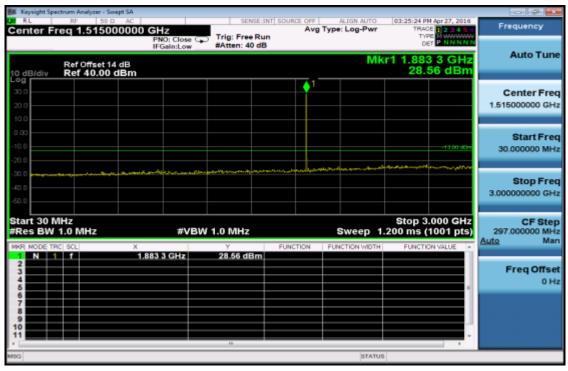
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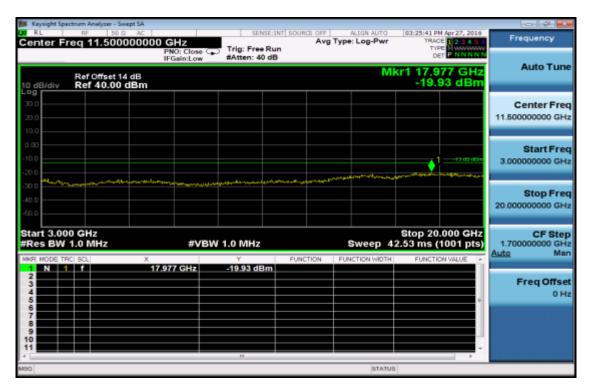
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### Out of Band emission at antenna terminals - EDGE 1900 Channel Mid





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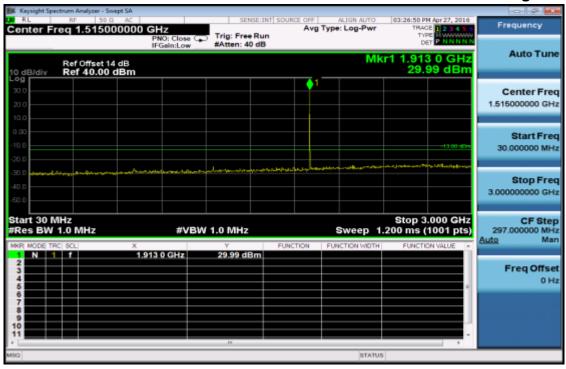
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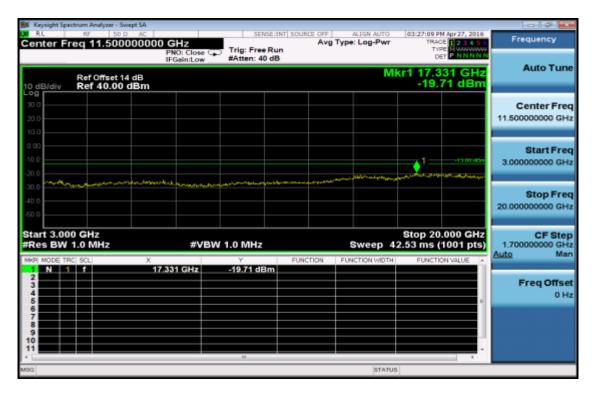
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# Out of Band emission at antenna terminals - EDGE 1900 Channel Highest





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# Band edge emission at antenna terminals – EDGE 1900 Channel Lowest



# Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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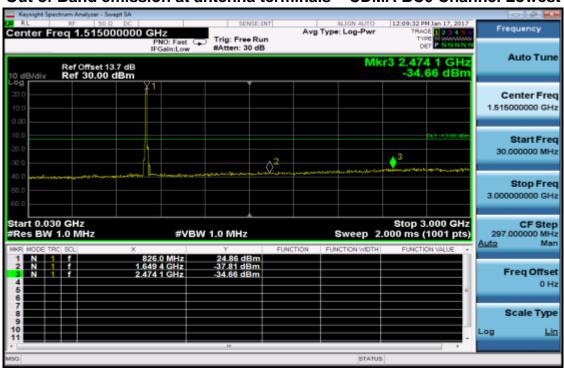
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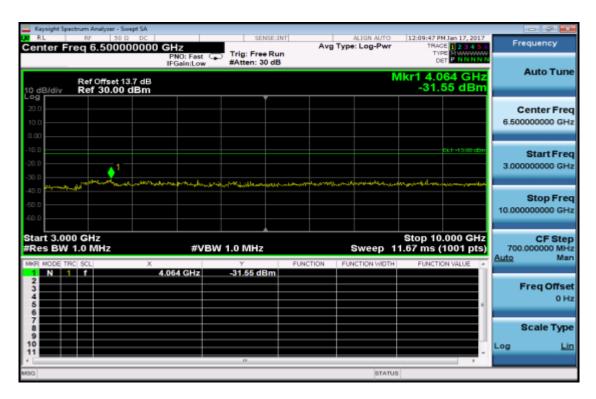
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### Out of Band emission at antenna terminals - CDMA BC0 Channel Lowest





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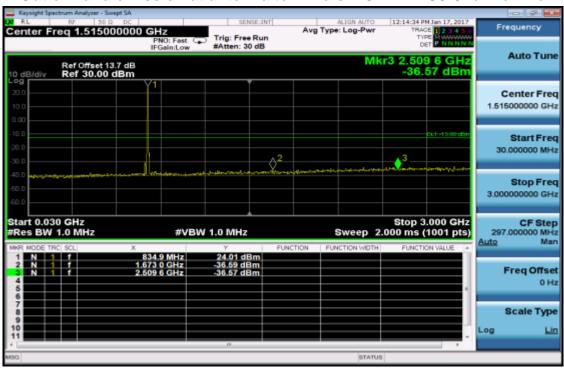
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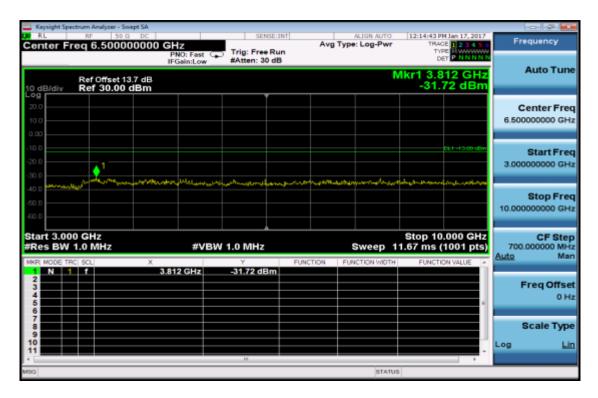
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### Out of Band emission at antenna terminals - CDMA BC0 Channel Mid





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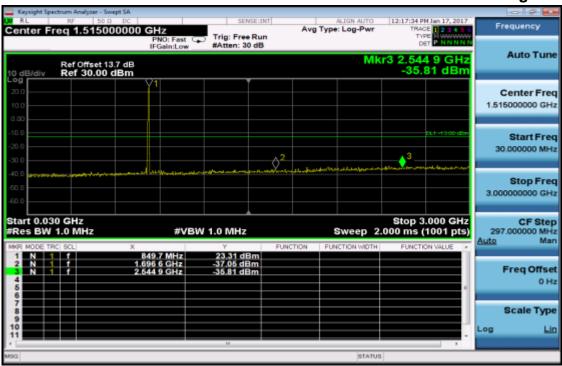
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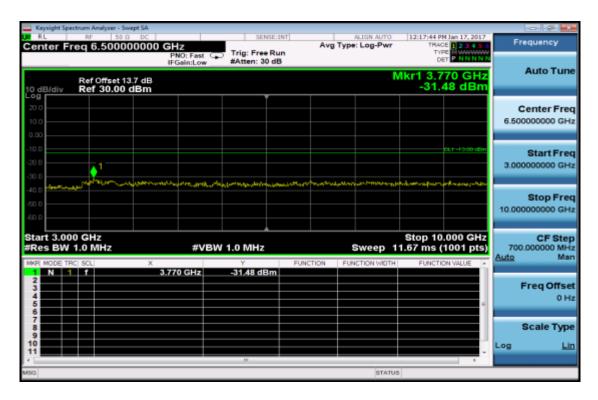
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# Out of Band emission at antenna terminals - CDMA BC0 Channel Highest





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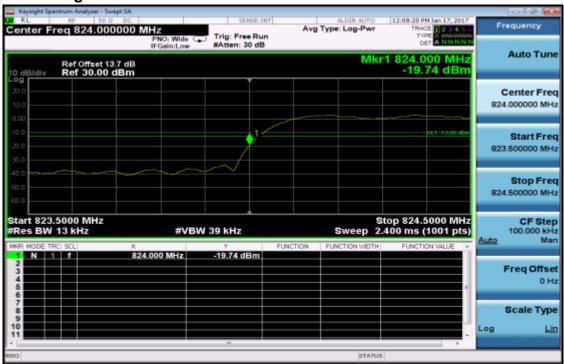
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# Band edge emission at antenna terminals – CDMA BC0 Channel Lowest



# Band edge emission at antenna terminals – CDMA BC0 Channel Highest



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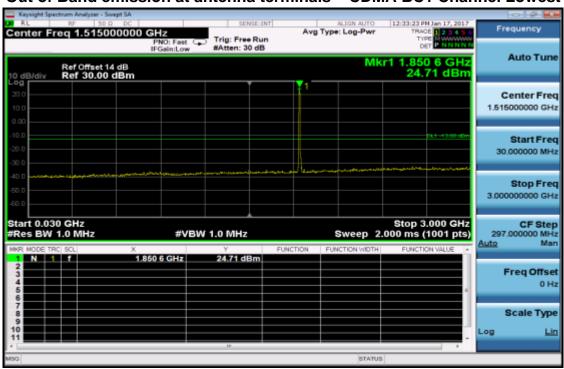
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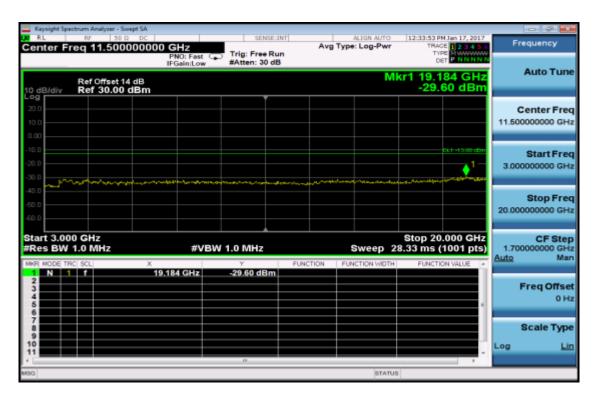
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### Out of Band emission at antenna terminals - CDMA BC1 Channel Lowest





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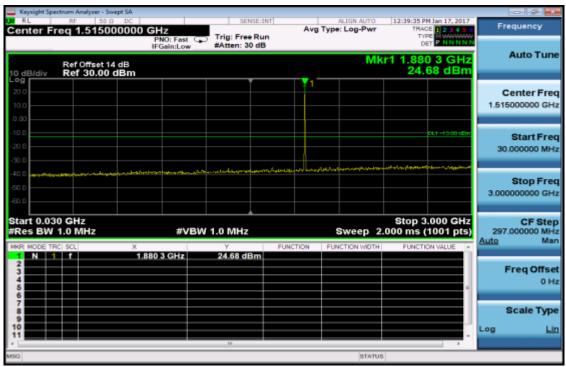
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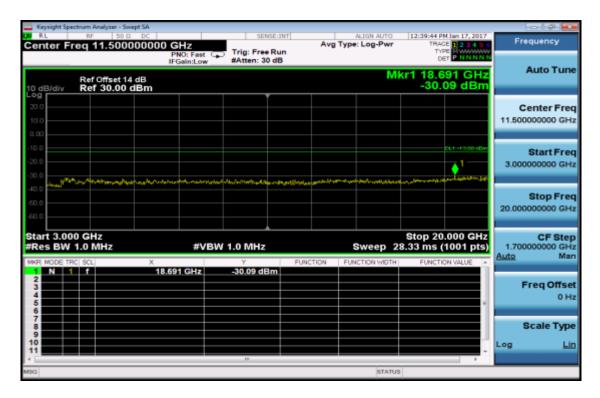
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### Out of Band emission at antenna terminals - CDMA BC1 Channel Mid





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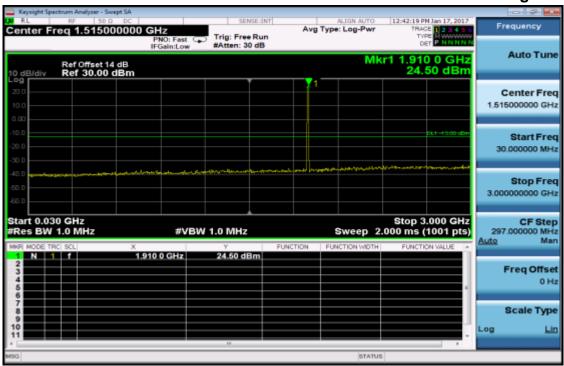
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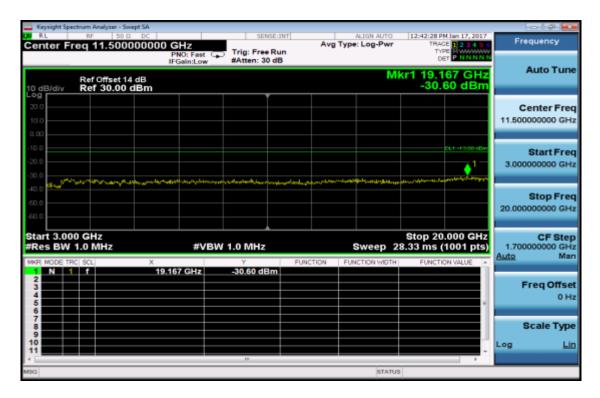
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# Out of Band emission at antenna terminals - CDMA BC1 Channel Highest





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# Band edge emission at antenna terminals – CDMA BC1 Channel Lowest



# Band edge emission at antenna terminals – CDMA BC1 Channel Highest



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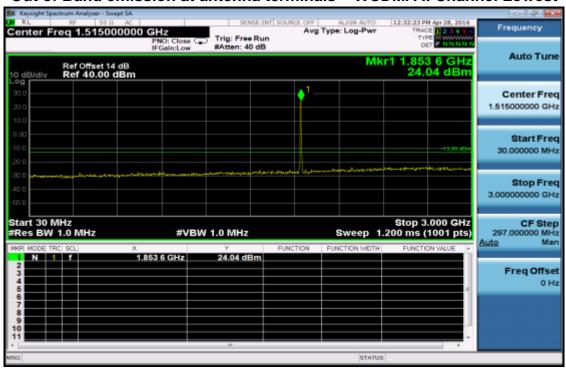
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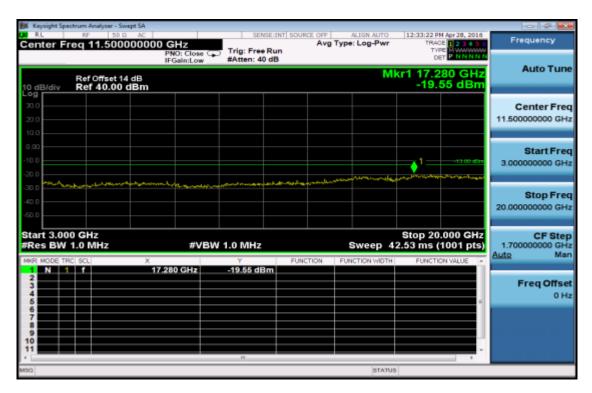
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### Out of Band emission at antenna terminals - WCDMA II Channel Lowest





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