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### **OUT OF BAND EMISSION AT ANTENNA TERMINALS**

# 8.1. 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. 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.

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.

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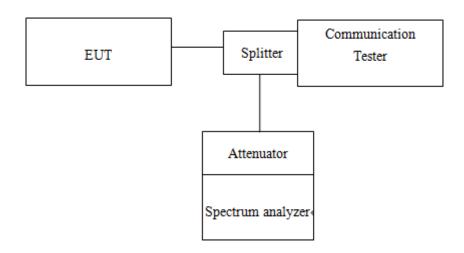
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### 8.2. Test SET-UP



#### 8.3. 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
- Repeat above procedures until all default test channel measured were complete.

### **Band Edge**

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

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# 8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

### 8.5. Measurement Result:

Refer to next pages.

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

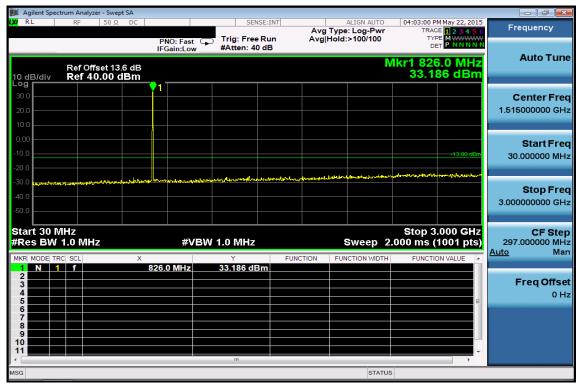
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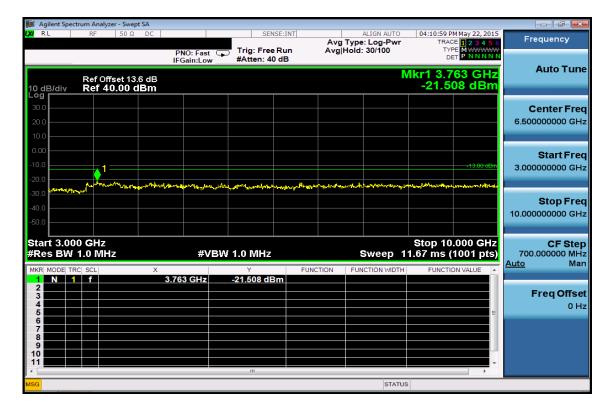
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### Out of Band emission at antenna terminals - GSM 850 Channel Lowest





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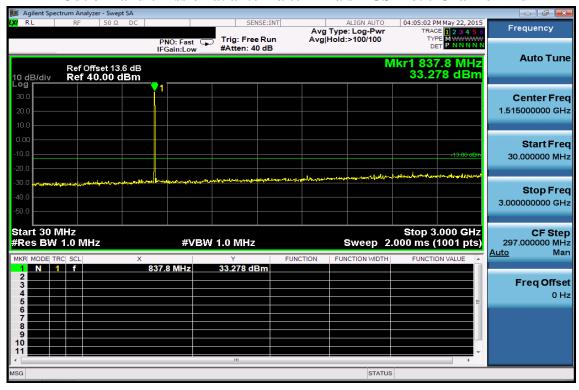
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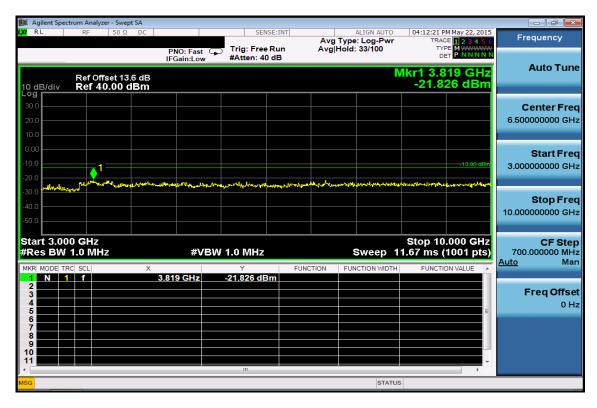
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#### Out of Band emission at antenna terminals – GSM 850 Channel Mid





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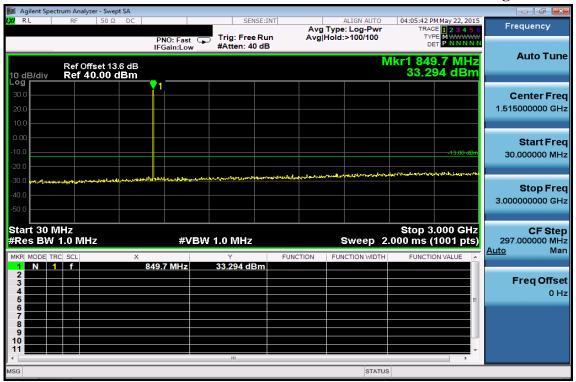
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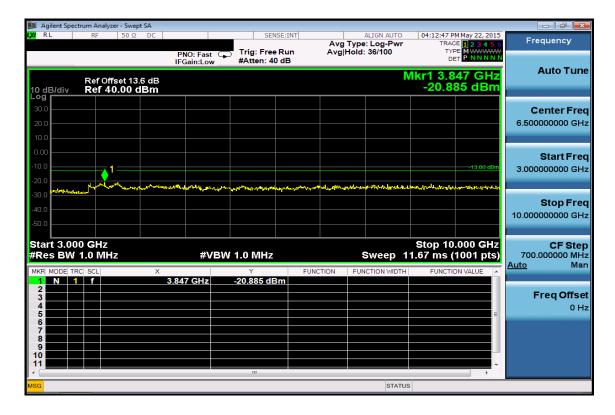
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### Out of Band emission at antenna terminals – GSM 850 Channel Highest





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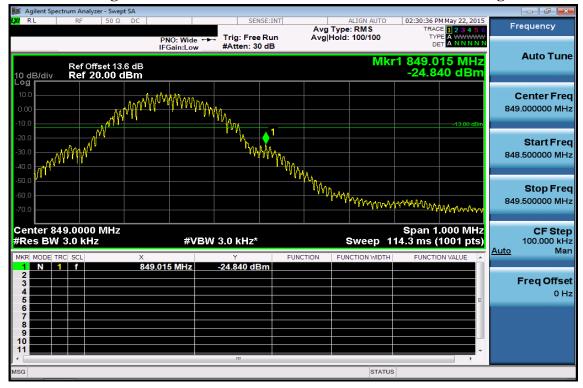
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### Band edge emission at antenna terminals - GSM 850 Channel Lowest



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



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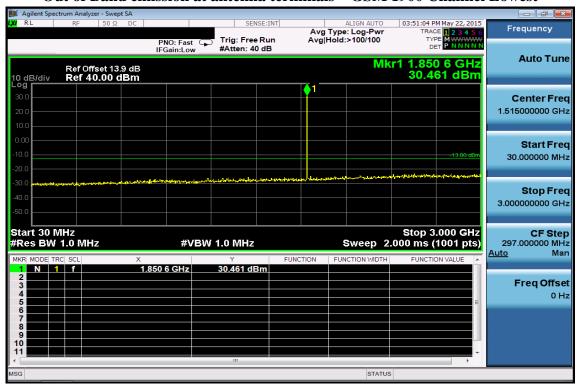
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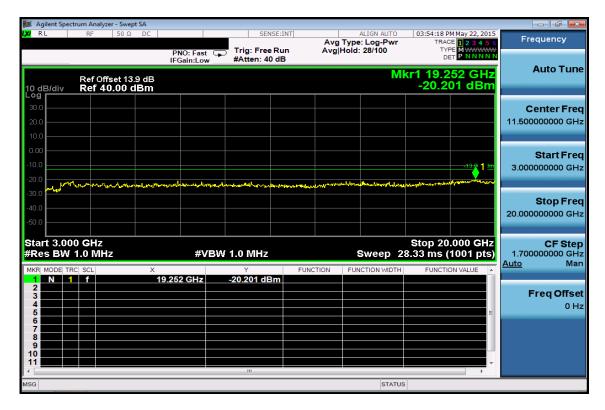
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## Out of Band emission at antenna terminals - GSM 1900 Channel Lowest





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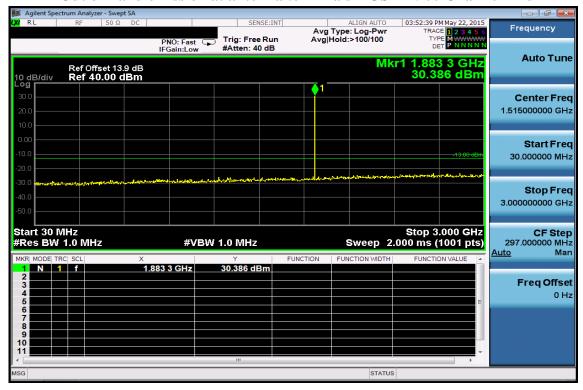
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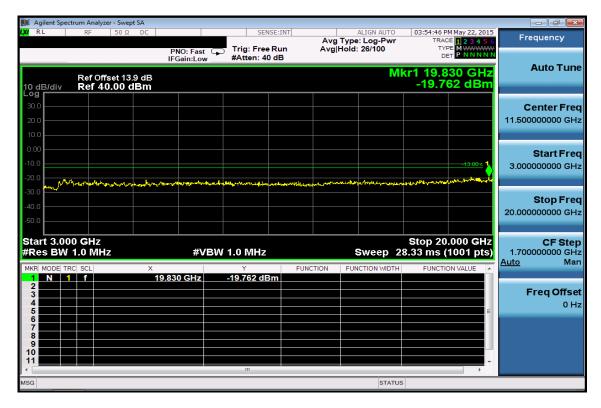
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### Out of Band emission at antenna terminals - GSM 1900 Channel Mid





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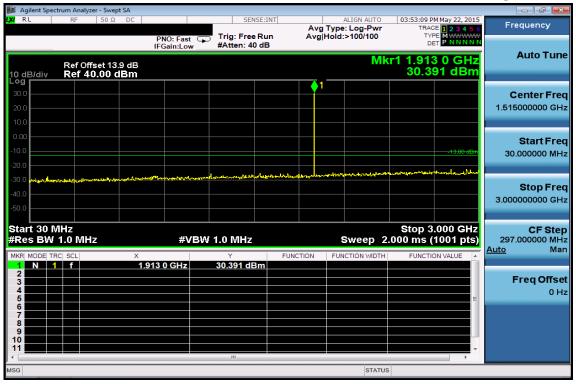
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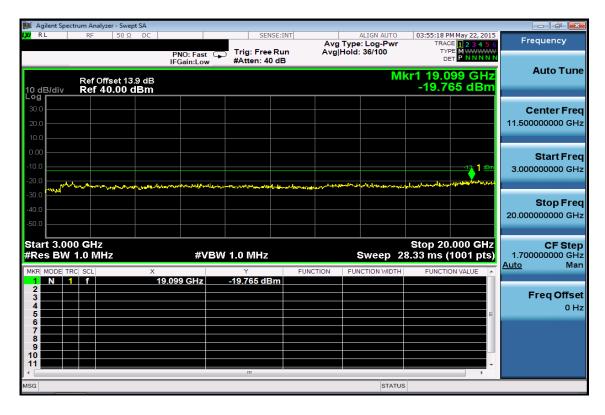
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## Out of Band emission at antenna terminals – GSM 1900 Channel Highest





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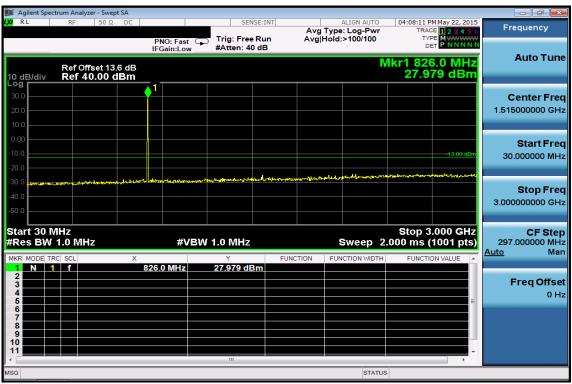
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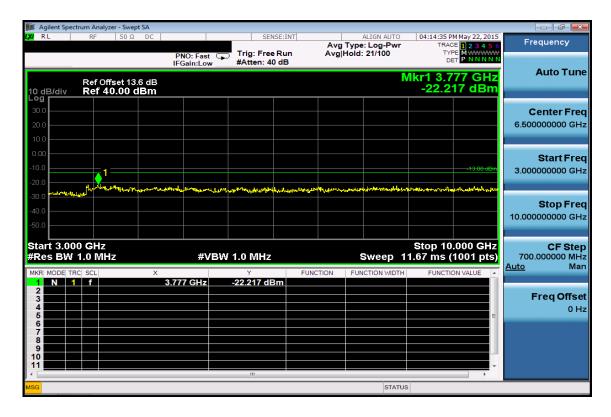
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### Out of Band emission at antenna terminals - EDGE 850 Channel Lowest





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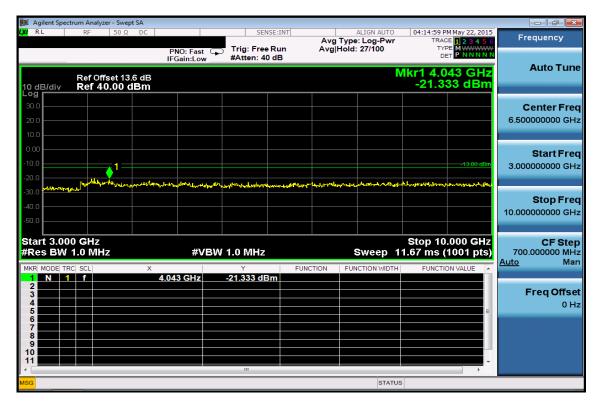
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#### Out of Band emission at antenna terminals – EDGE 850 Channel Mid





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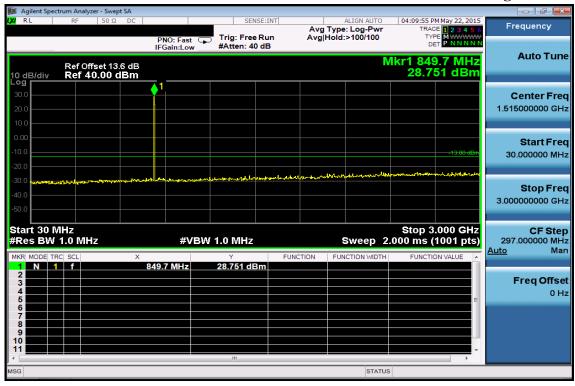
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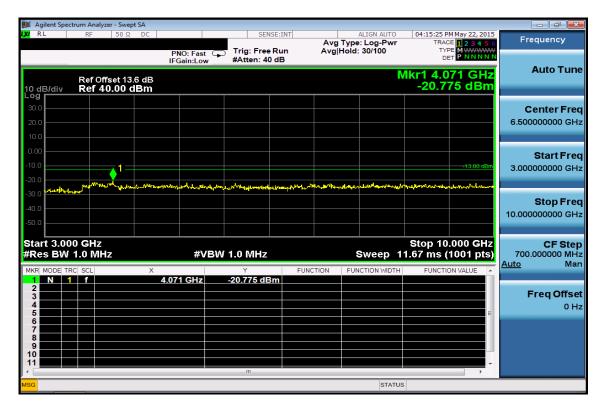
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### Out of Band emission at antenna terminals – EDGE 850 Channel Highest





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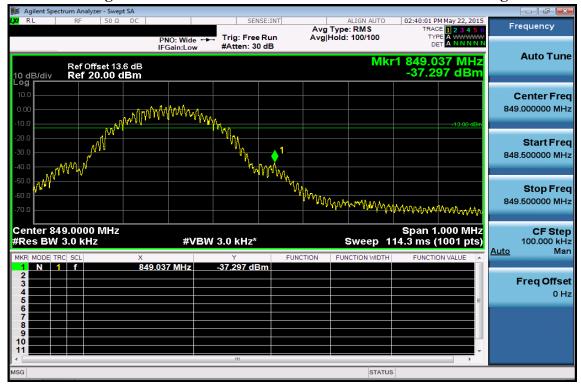
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## Band edge emission at antenna terminals - EDGE 850 Channel Lowest



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



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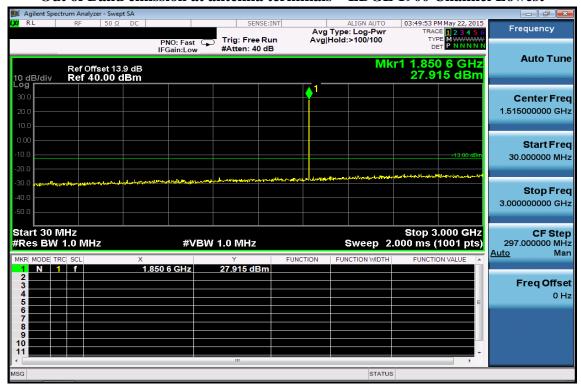
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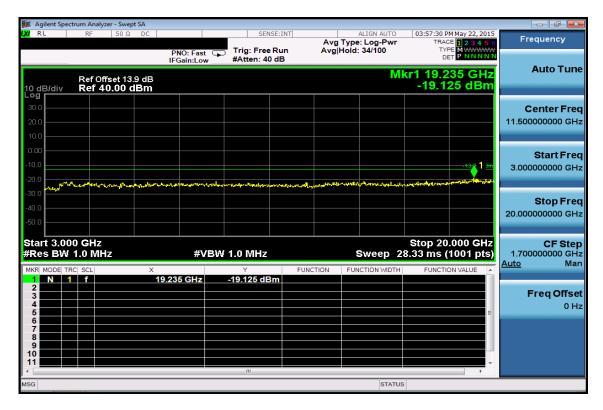
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## Out of Band emission at antenna terminals - EDGE 1900 Channel Lowest





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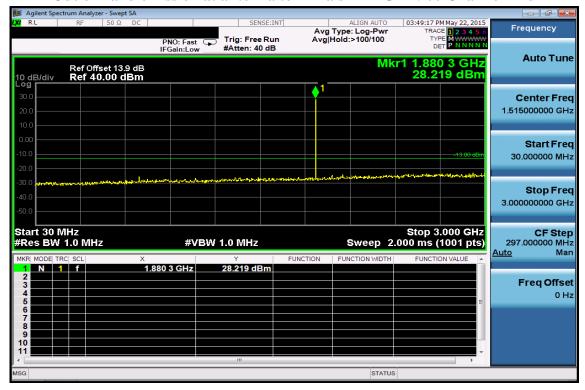
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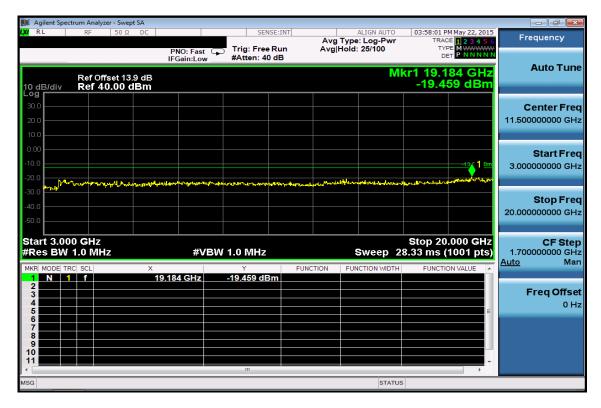
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#### Out of Band emission at antenna terminals – EDGE 1900 Channel Mid





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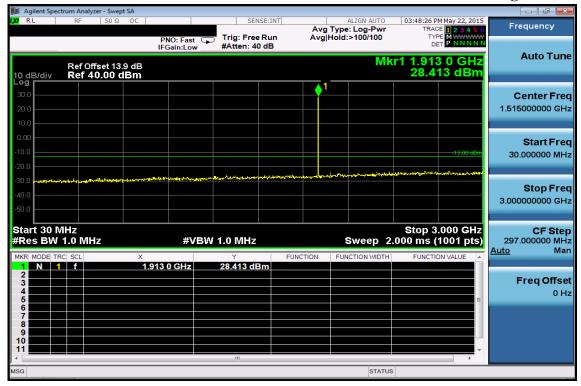
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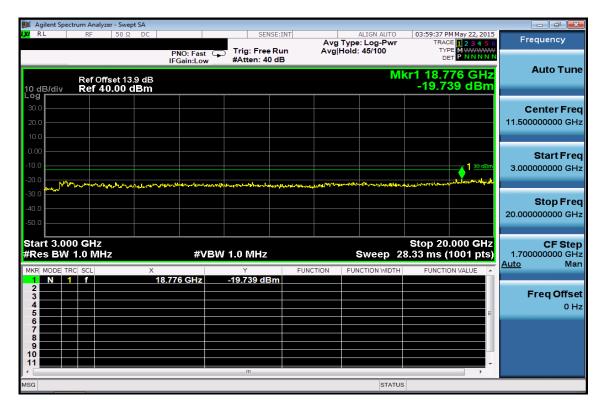
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### Out of Band emission at antenna terminals – EDGE 1900 Channel Highest





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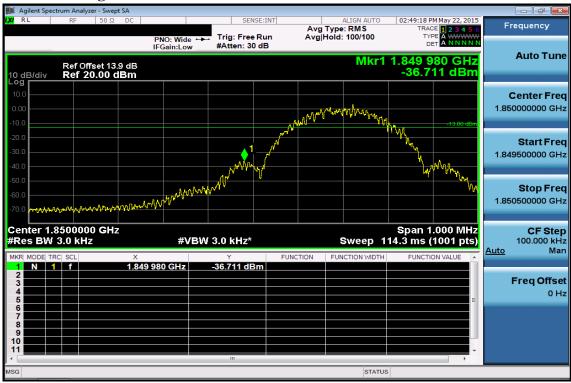
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## Band edge emission at antenna terminals - EDGE 1900 Channel Lowest



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



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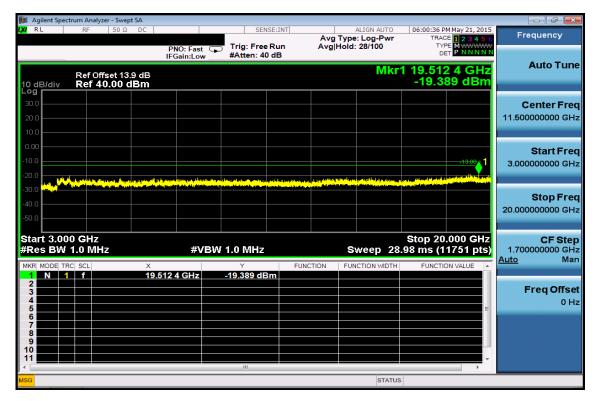
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### Out of Band emission at antenna terminals - WCDMA II Channel Lowest





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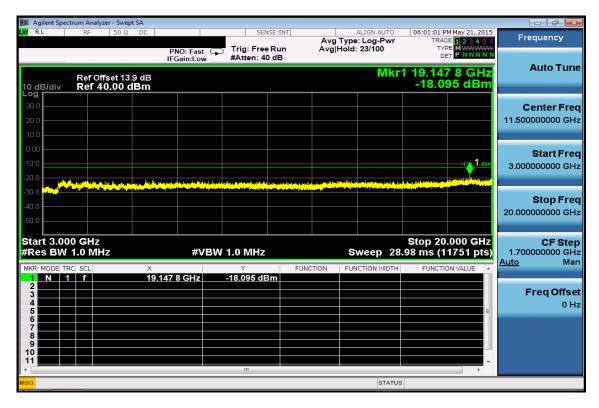
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### Out of Band emission at antenna terminals – WCDMA II Channel Mid





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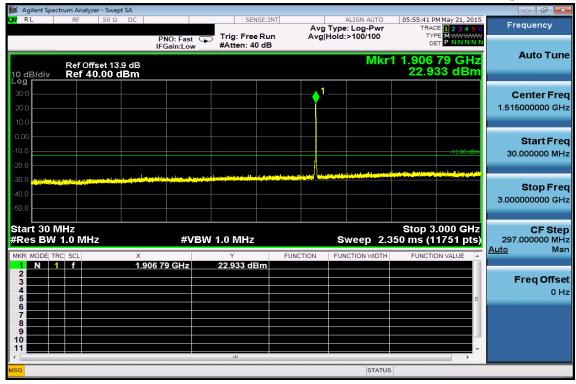
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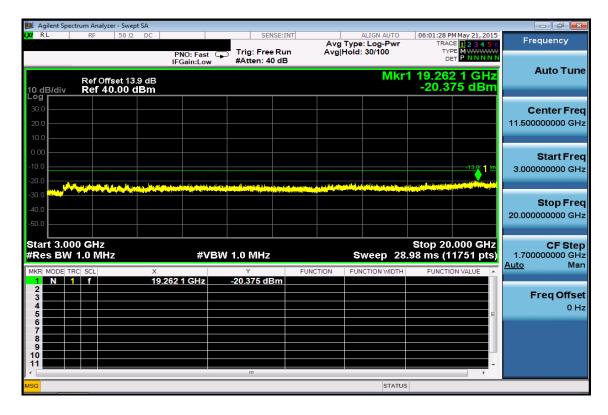
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## Out of Band emission at antenna terminals – WCDMA II Channel Highest





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### Band edge emission at antenna terminals - WCDMA II Channel Lowest



# Band edge emission at antenna terminals - WCDMA II Channel Highest



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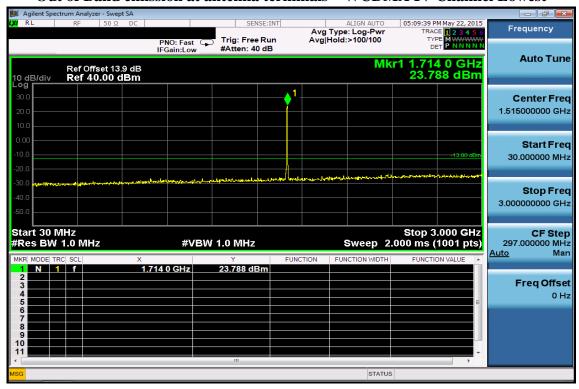
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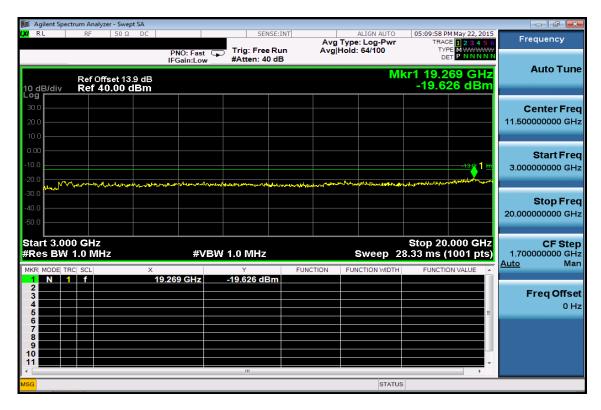
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## Out of Band emission at antenna terminals - WCDMA IV Channel Lowest





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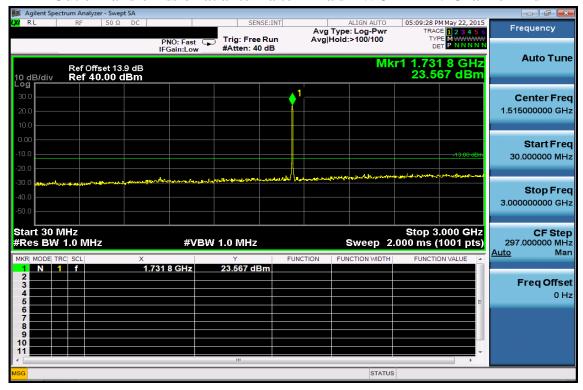
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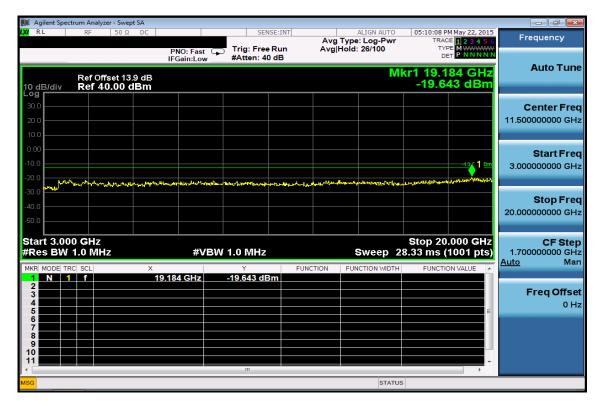
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### Out of Band emission at antenna terminals - WCDMA IV Channel Mid





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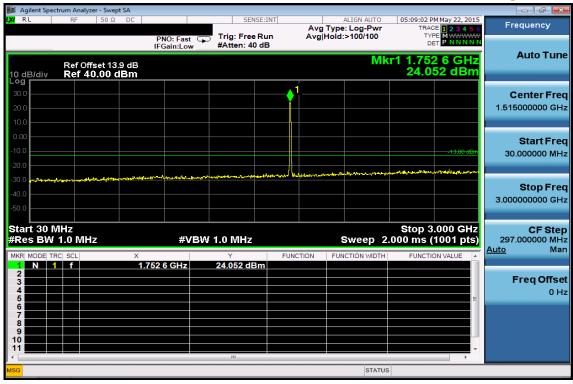
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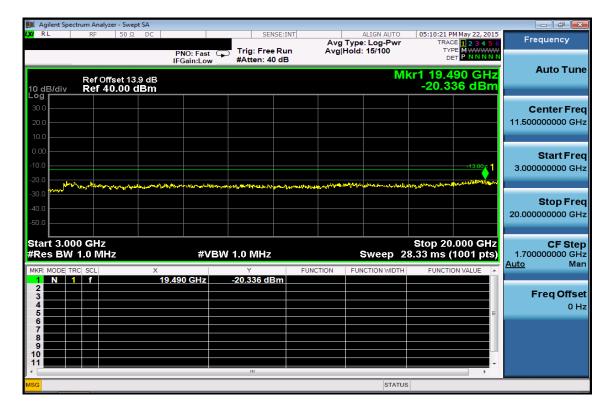
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## Out of Band emission at antenna terminals – WCDMA IV Channel Highest





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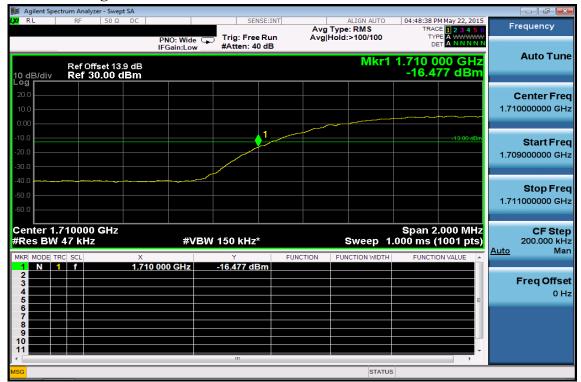
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### Band edge emission at antenna terminals - WCDMA IV Channel Lowest



## Band edge emission at antenna terminals – WCDMA IV Channel Highest



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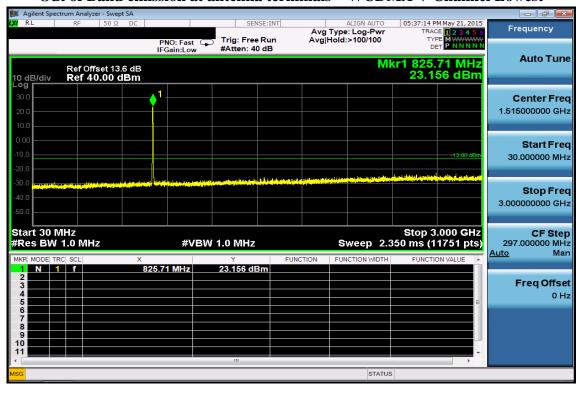
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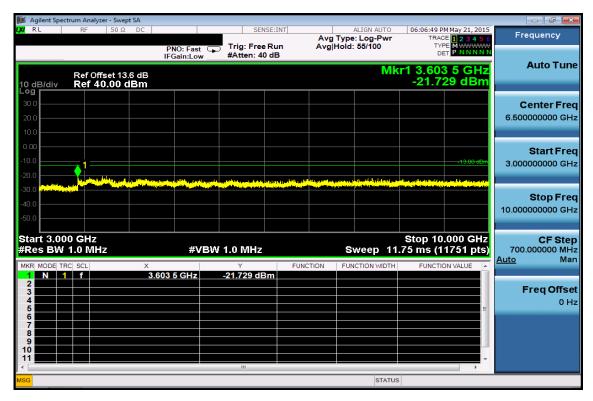
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Report No.: ER/2015/40157 **Issue Date: Jun. 22, 2015** 

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## Out of Band emission at antenna terminals – WCDMA V Channel Lowest





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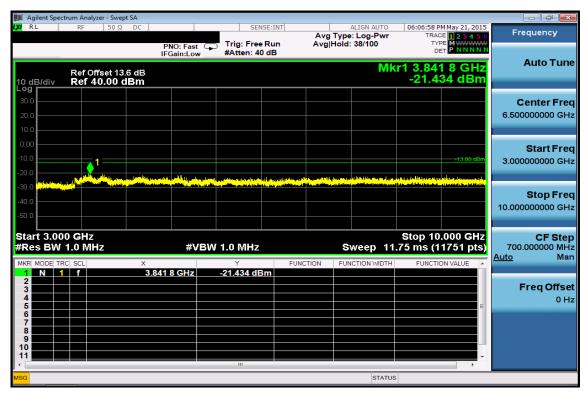
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### Out of Band emission at antenna terminals - WCDMA V Channel Mid





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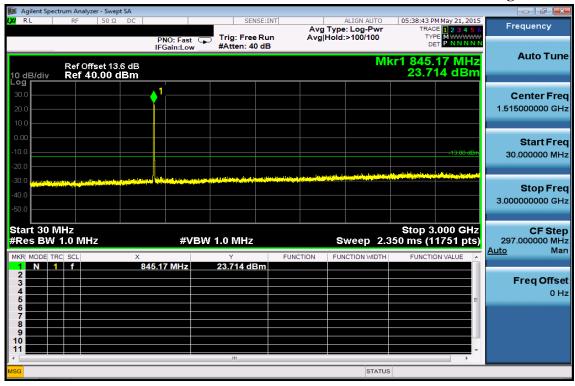
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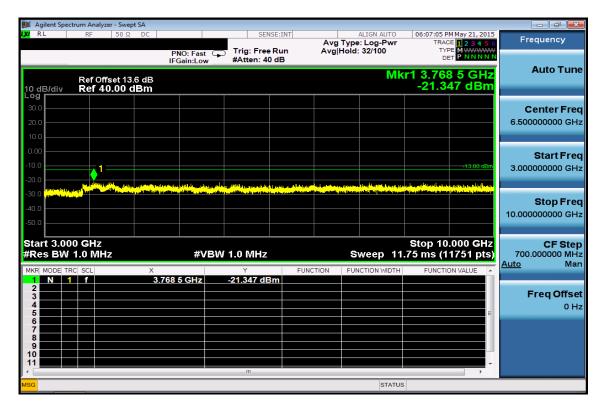
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### Out of Band emission at antenna terminals – WCDMA V Channel Highest





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### Band edge emission at antenna terminals - WCDMA V Channel Lowest



# Band edge emission at antenna terminals - WCDMA V Channel Highest



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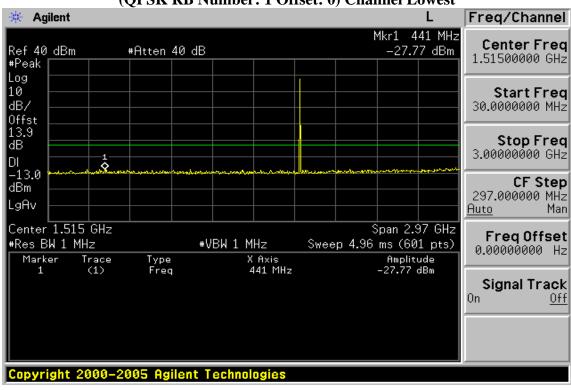
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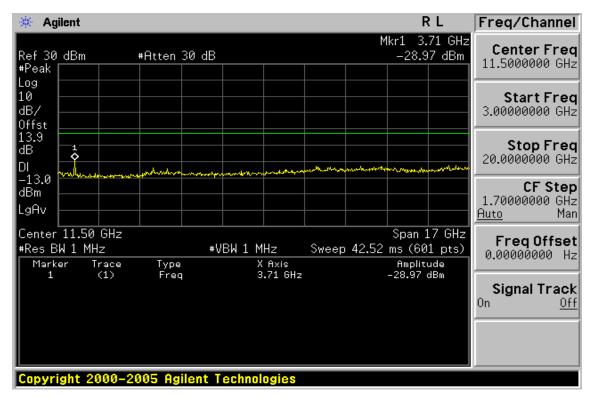
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# Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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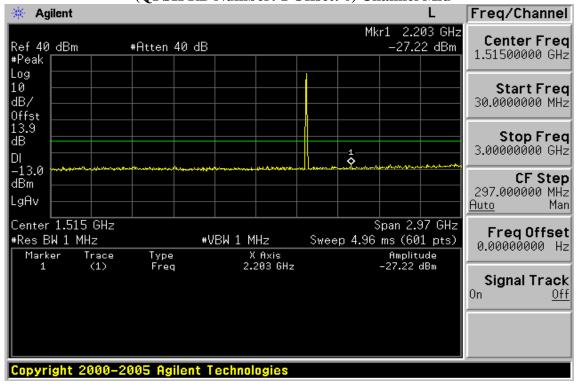
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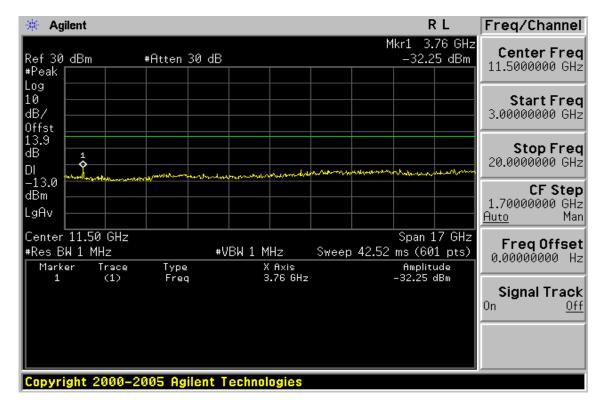
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## Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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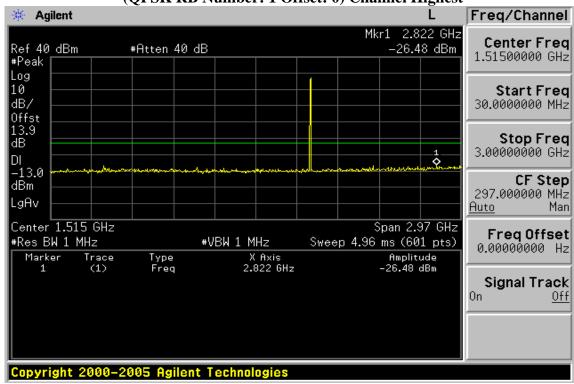
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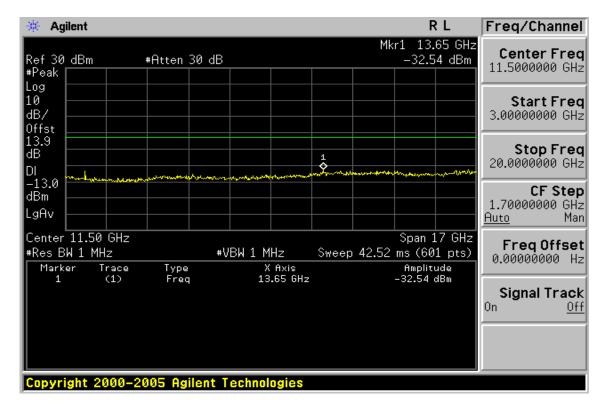
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# Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Highest





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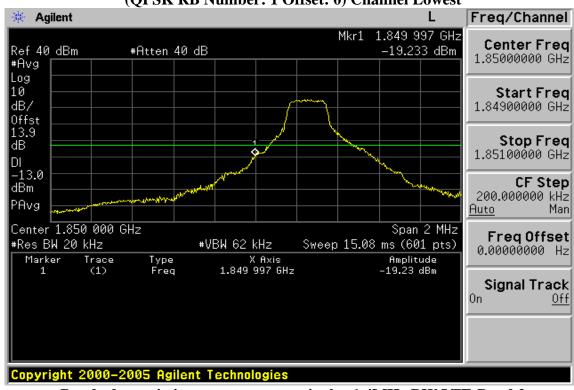
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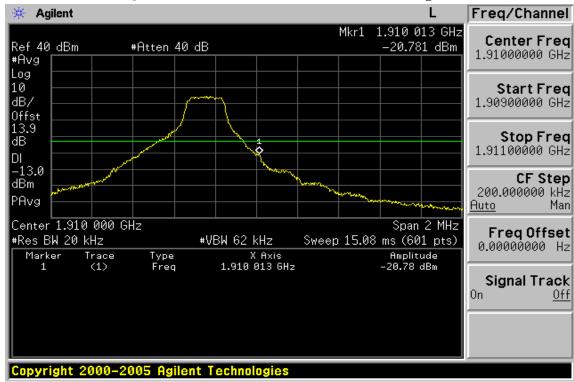


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# Band edge emission at antenna terminals -1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 5) Channel Highest



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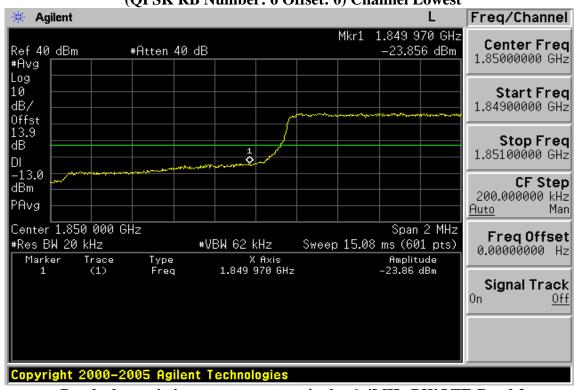
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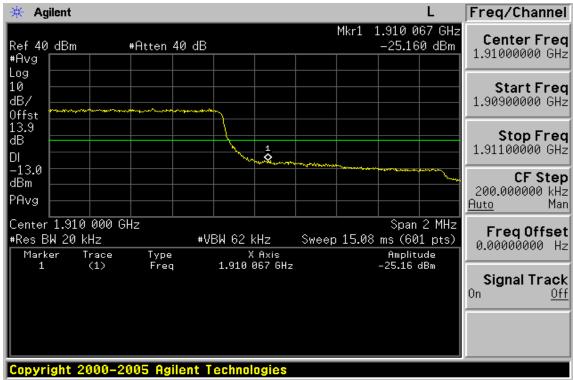


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## Band edge emission at antenna terminals -1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Highest



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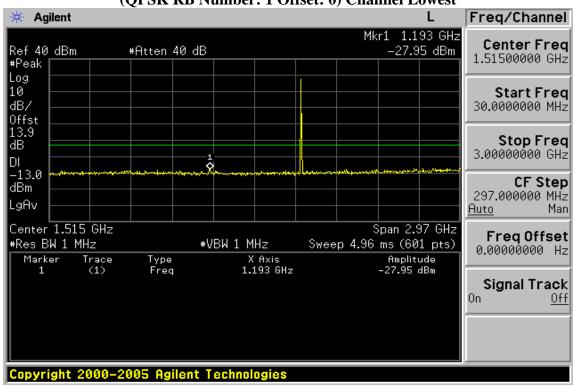
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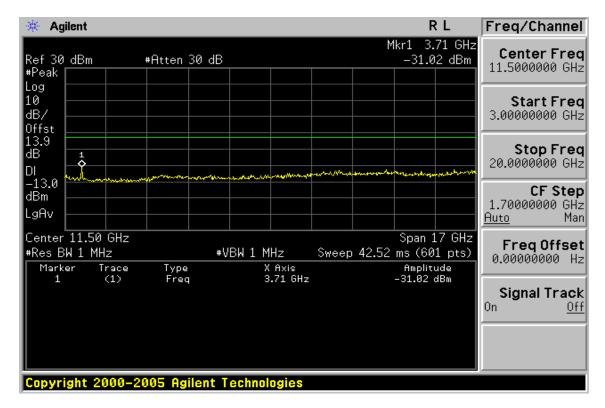
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### Out of Band emission at antenna terminals-3MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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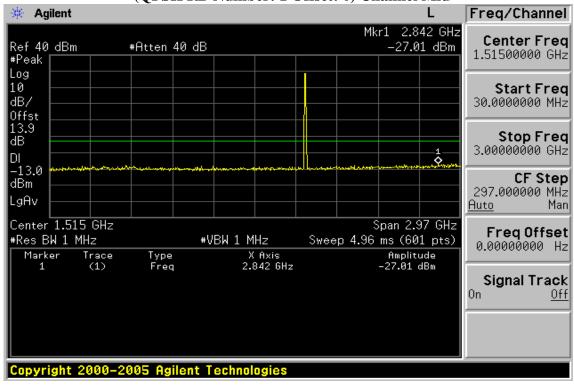
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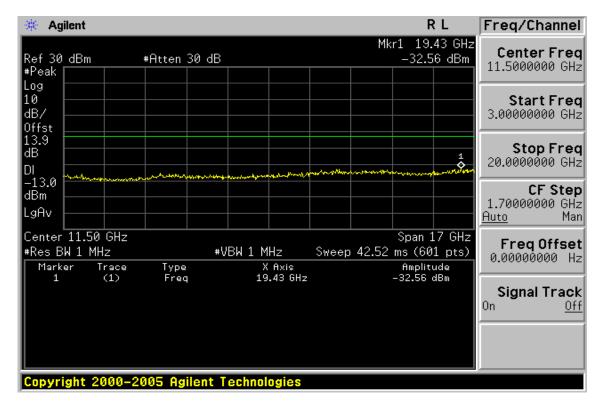
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#### Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Mid





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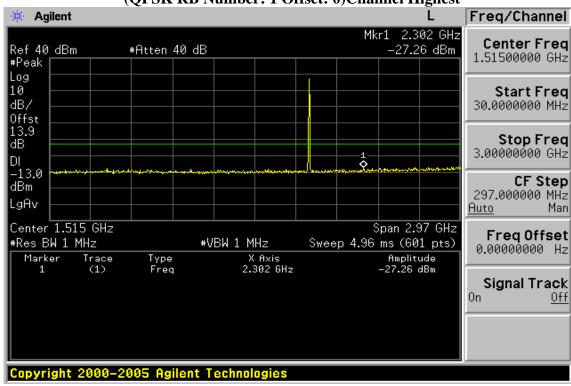
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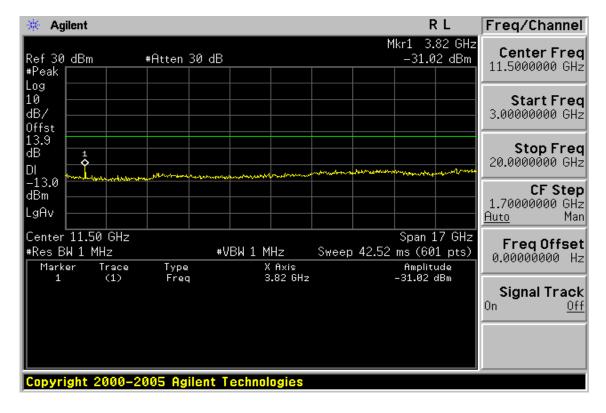
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#### Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Highest





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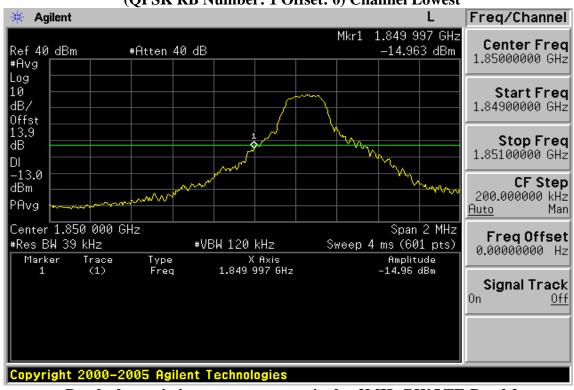
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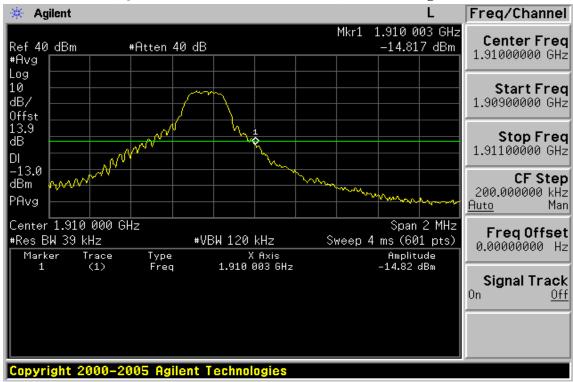


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## Band edge emission at antenna terminals -3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 14) Channel Highest



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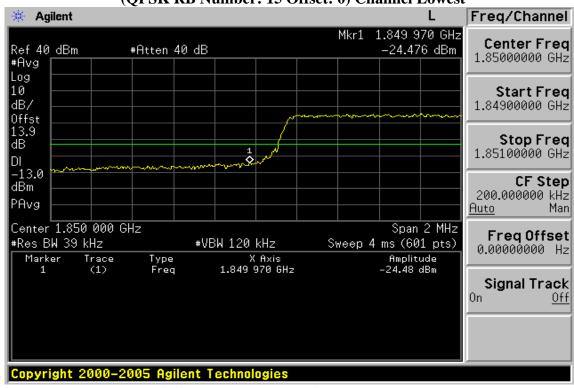
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## Band edge emission at antenna terminals -3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0) Channel Highest



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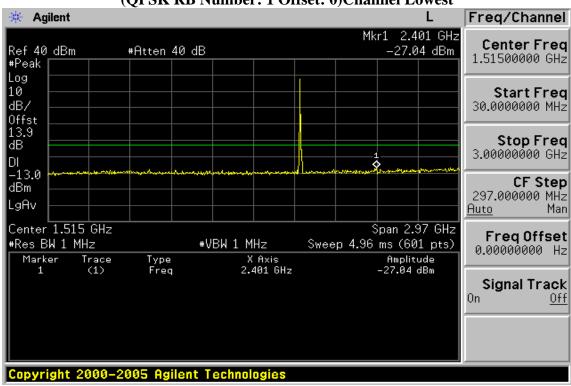
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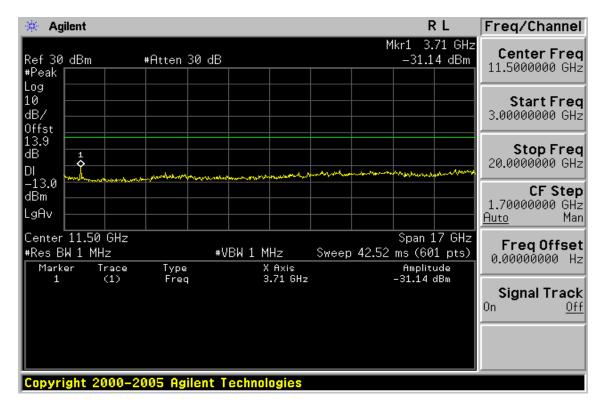
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## Out of Band emission at antenna terminals-5MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0)Channel Lowest





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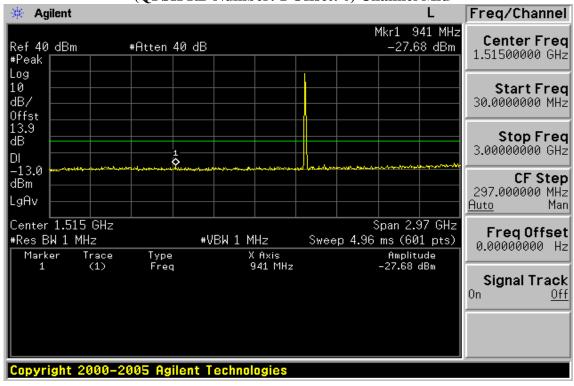
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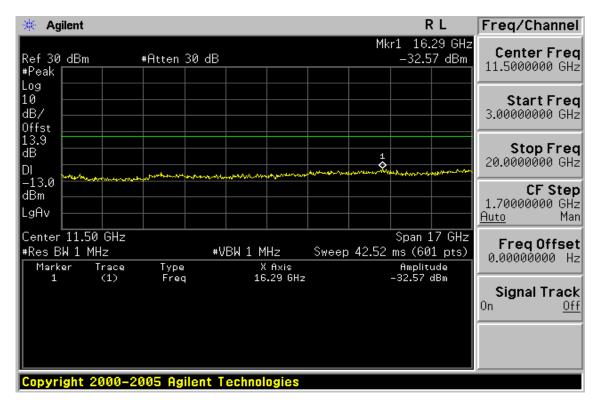
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### Out of Band emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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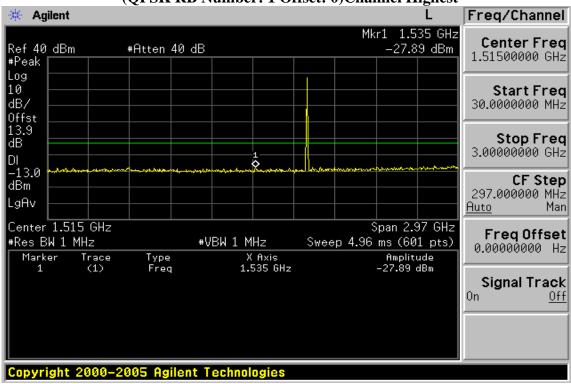
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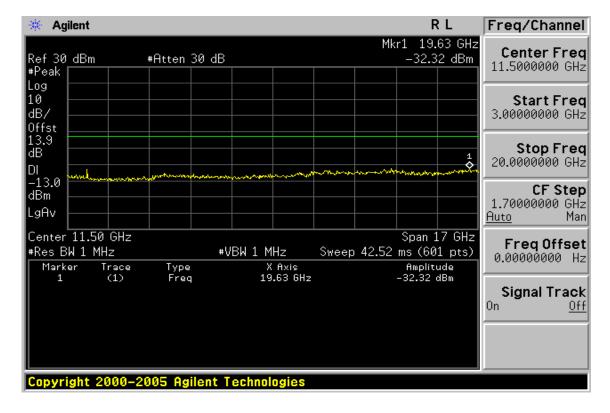
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#### Out of Band emission at antenna terminals-5MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Highest





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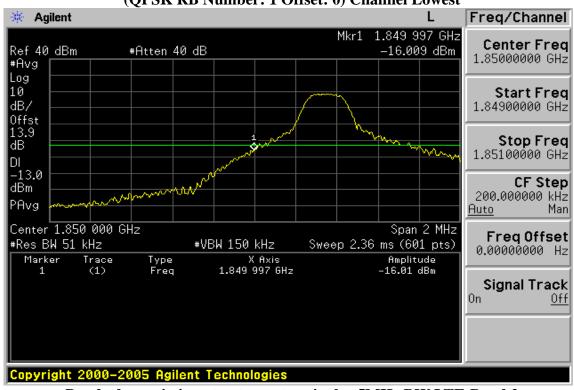
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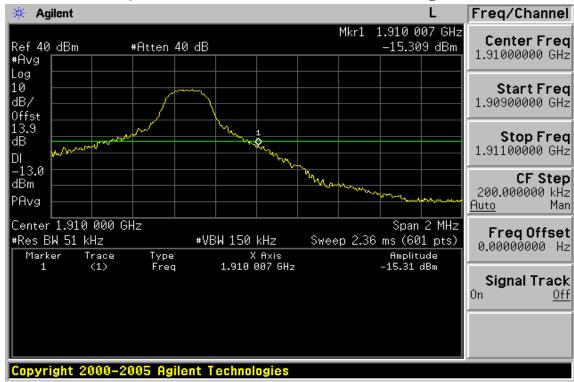


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# Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 24) Channel Highest



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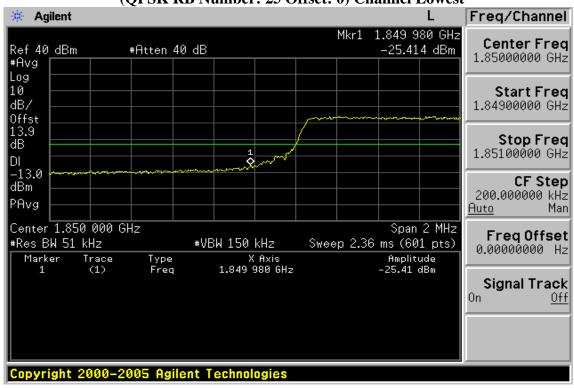
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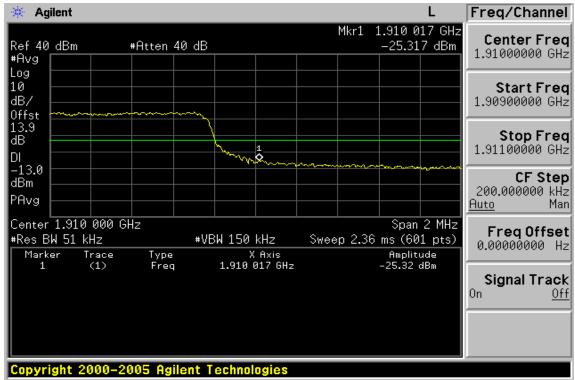


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## Band edge emission at antenna terminals -5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Highest



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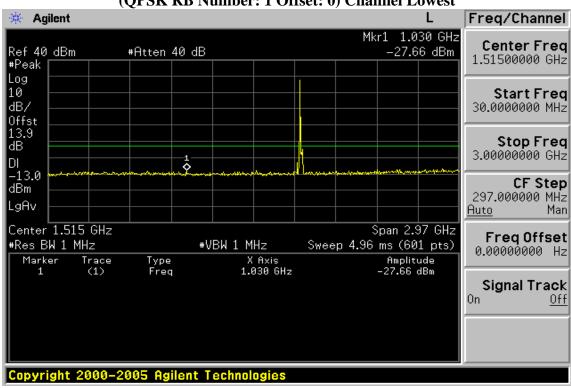
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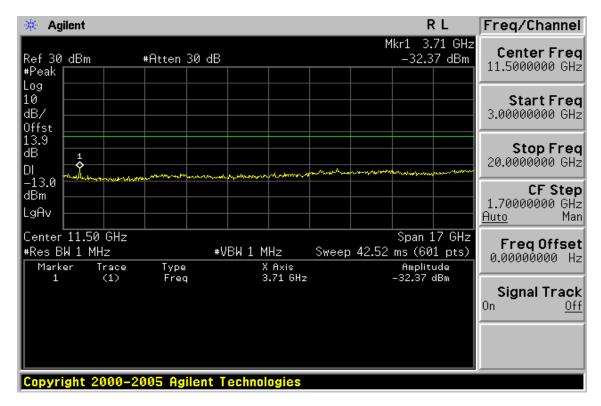
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### Out of Band emission at antenna terminals-10MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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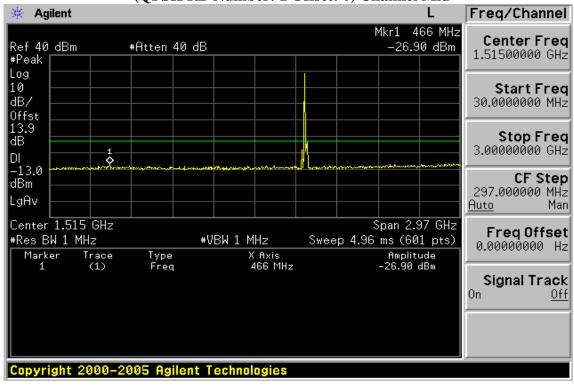
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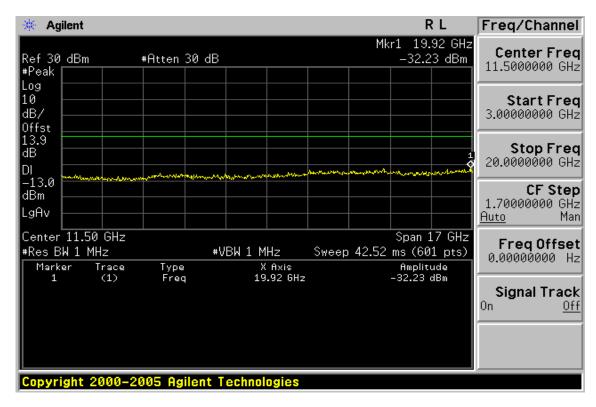
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#### Out of Band emission at antenna terminals –10MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Mid





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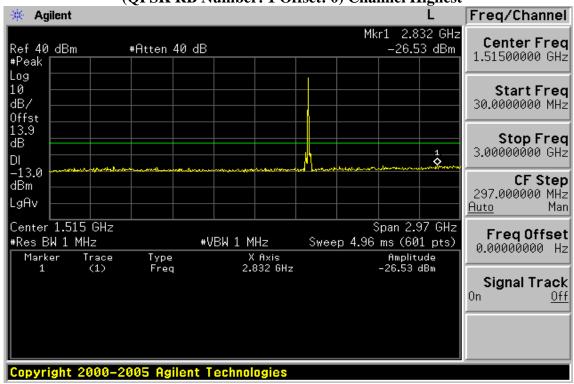
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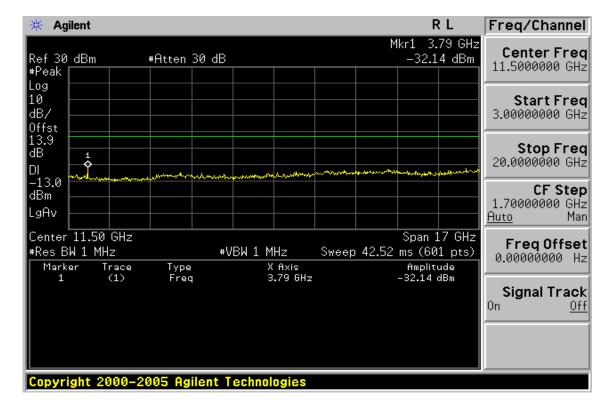
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### Out of Band emission at antenna terminals-10MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Highest





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### Band edge emission at antenna terminals -10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



#### Band edge emission at antenna terminals -10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 49) Channel Highest



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# Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Lowest

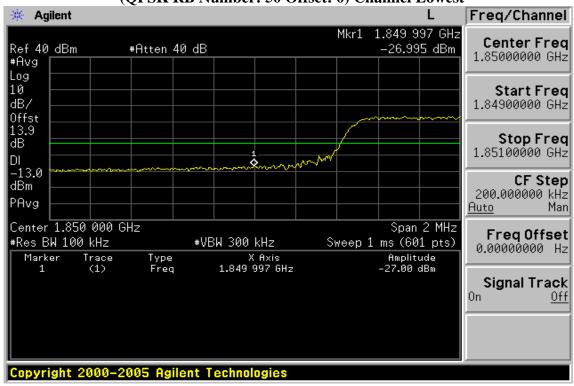


Figure 9-88: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Highest



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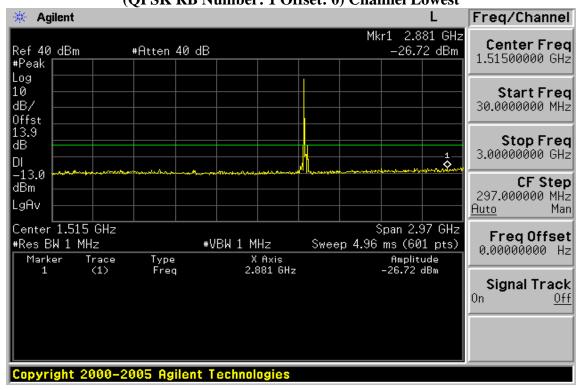
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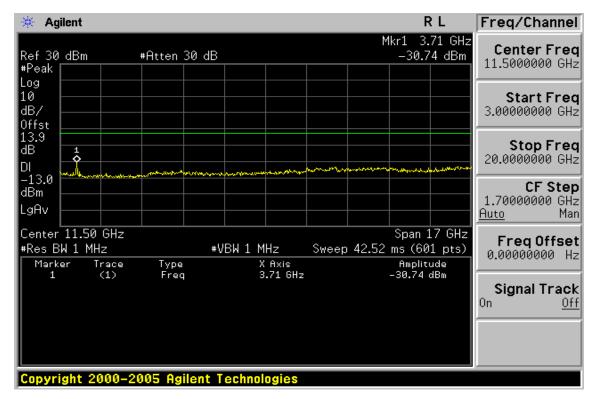
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### Out of Band emission at antenna terminals-15MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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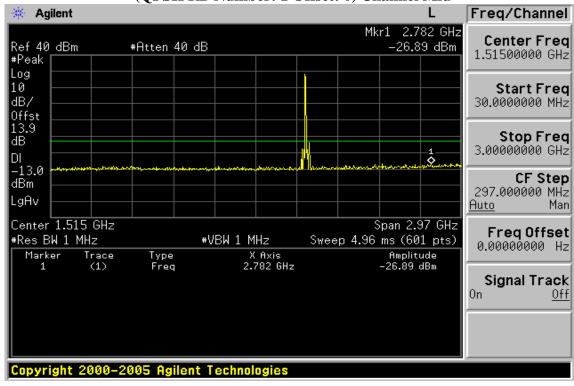
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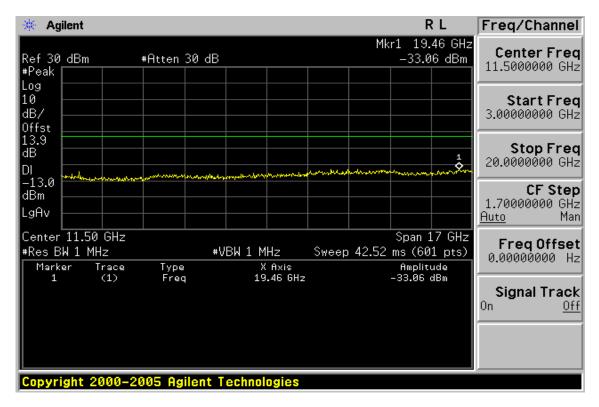
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#### Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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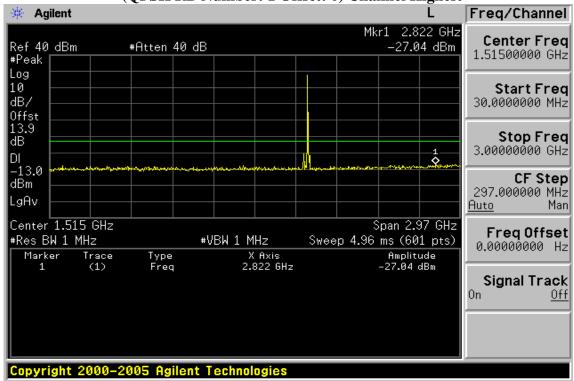
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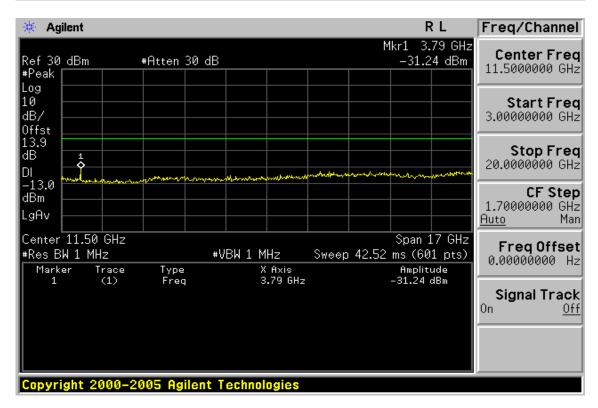
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### Out of Band emission at antenna terminals—15MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Highest





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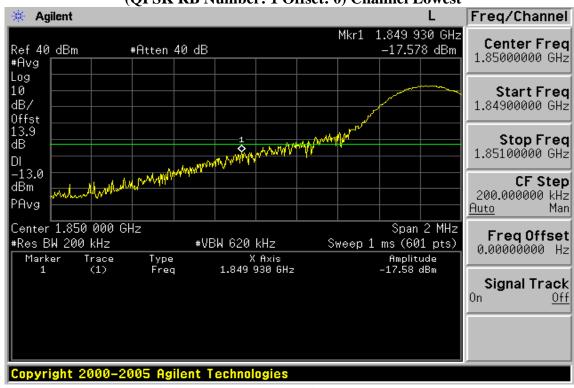
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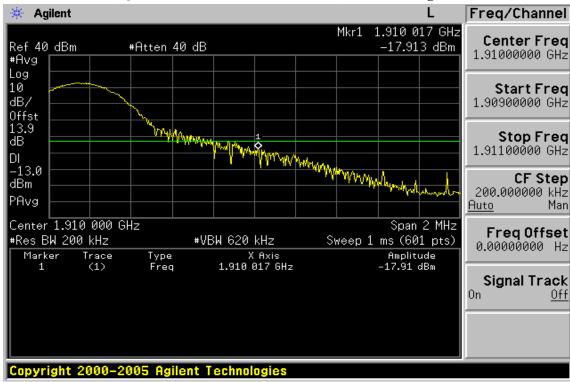


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# Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest



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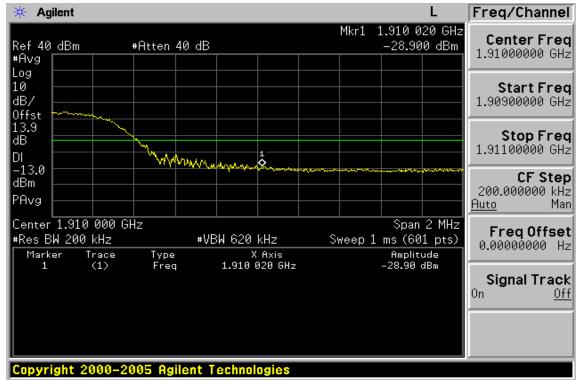


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# Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Highest



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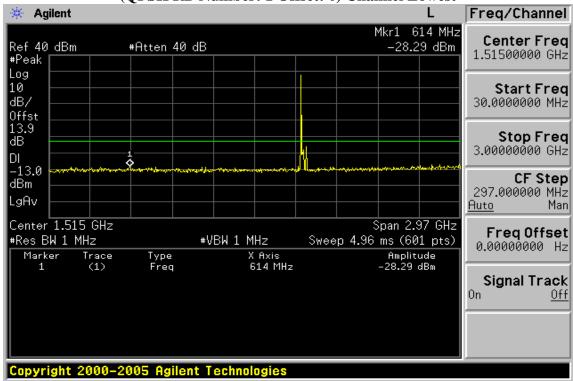
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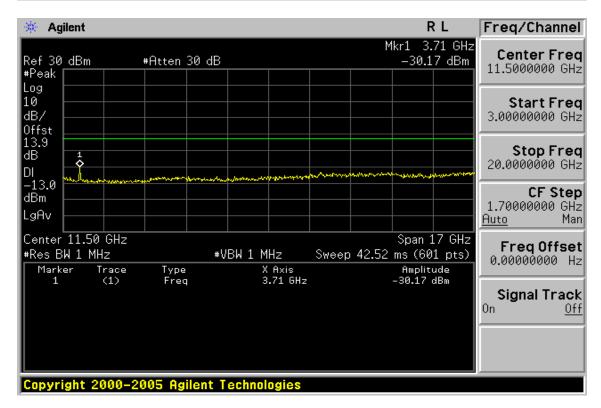
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#### Out of Band emission at antenna terminals-20MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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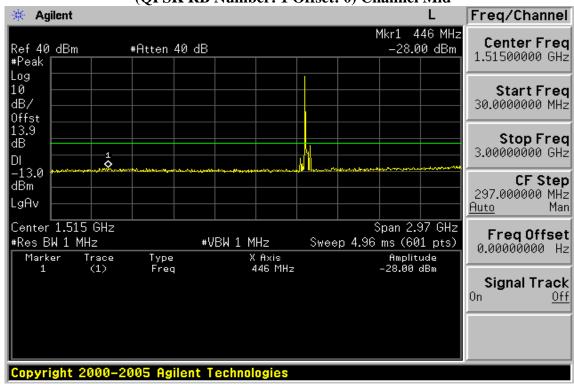
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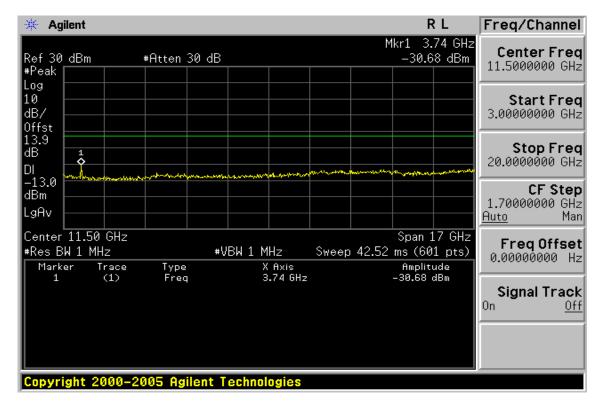
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#### Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Mid





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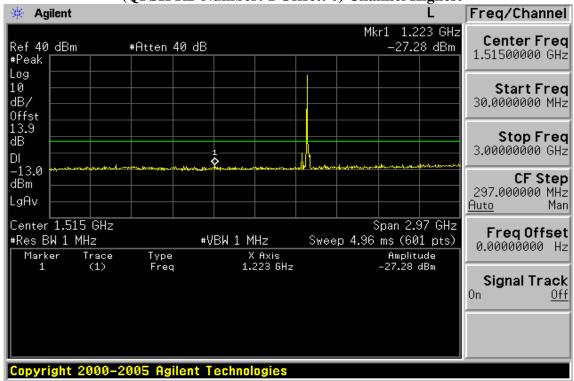
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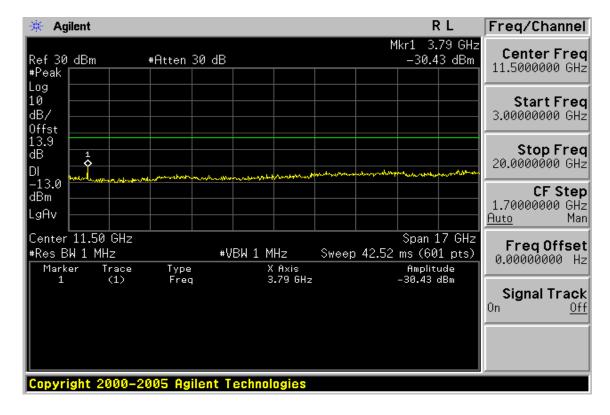
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### Out of Band emission at antenna terminals-20MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Highest





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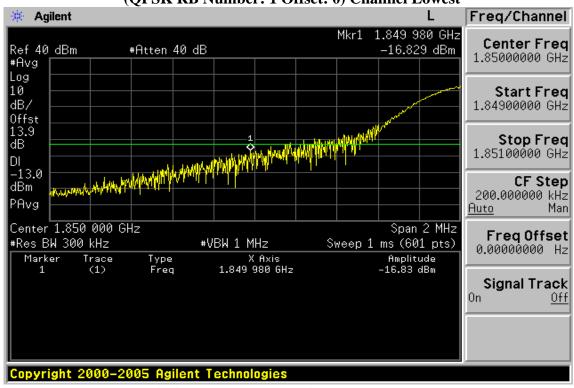
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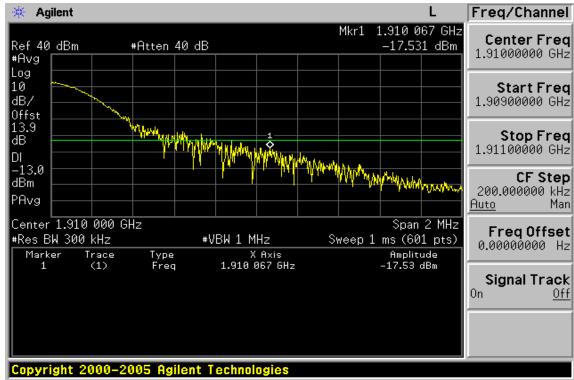


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## Band edge emission at antenna terminals -20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest



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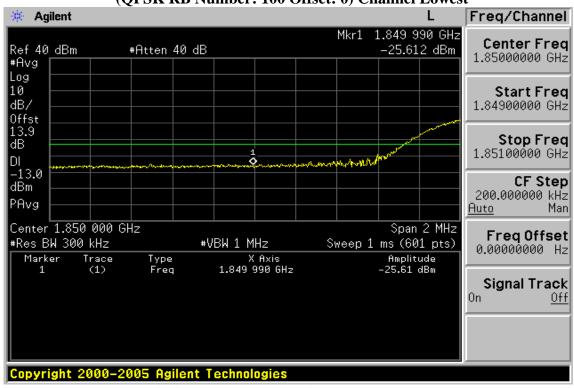
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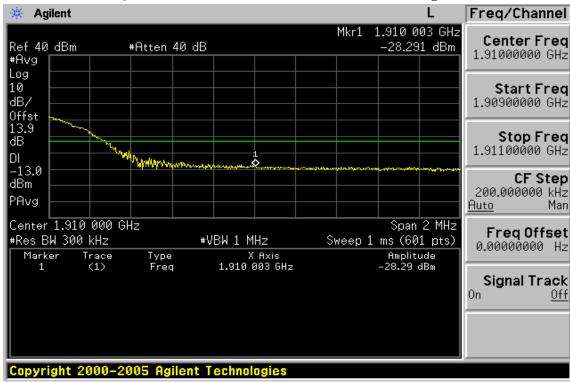


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# Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Highest



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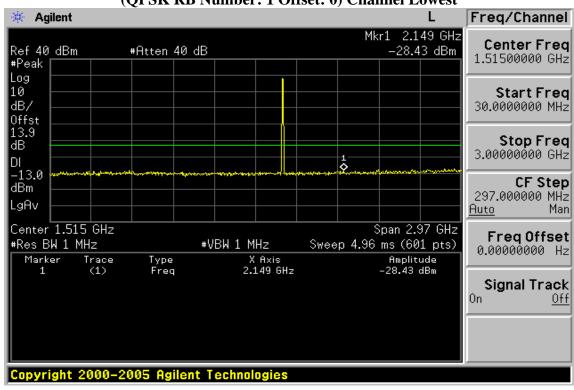
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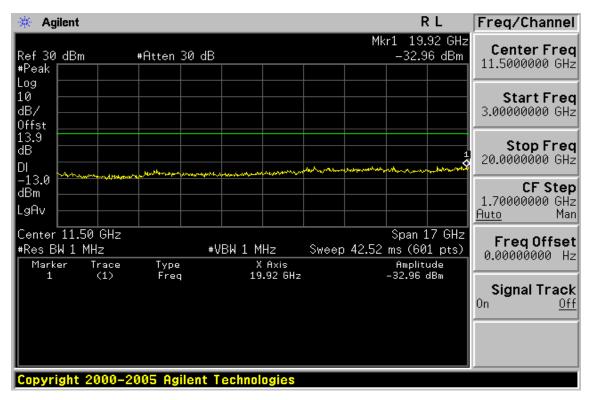
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### Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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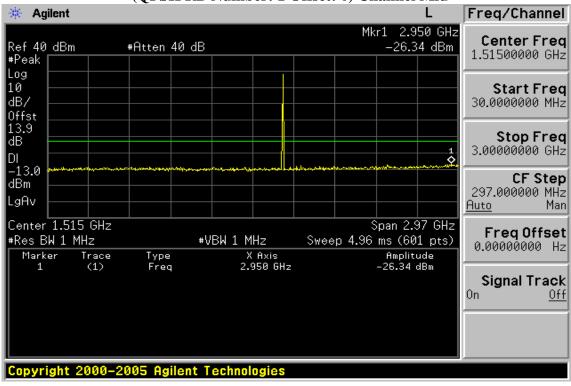
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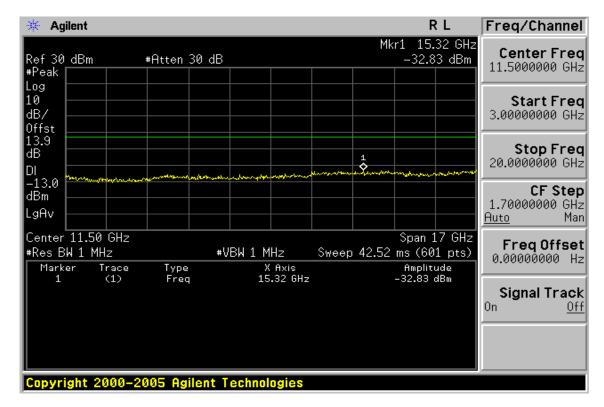
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#### Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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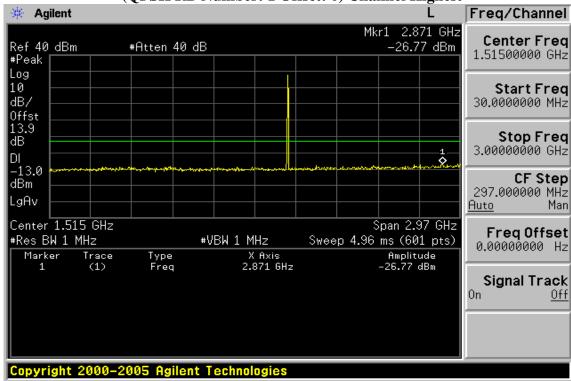
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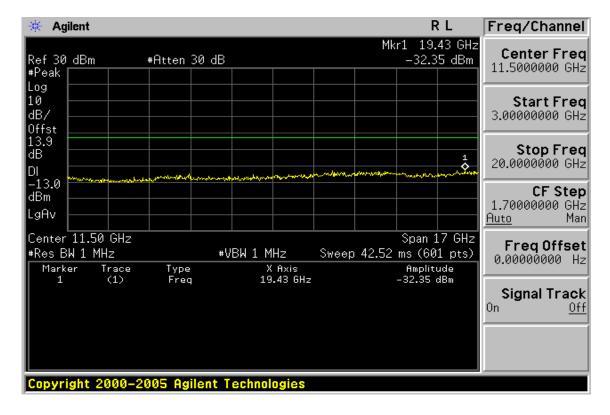
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### Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Highest





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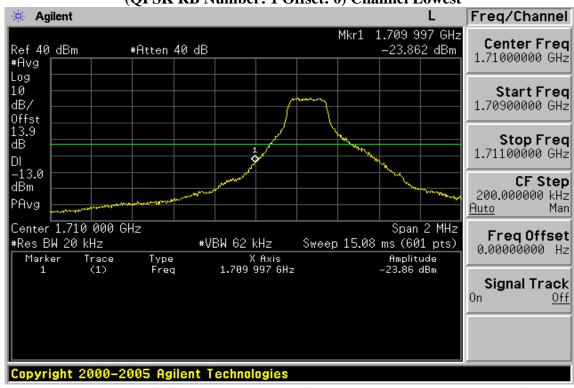
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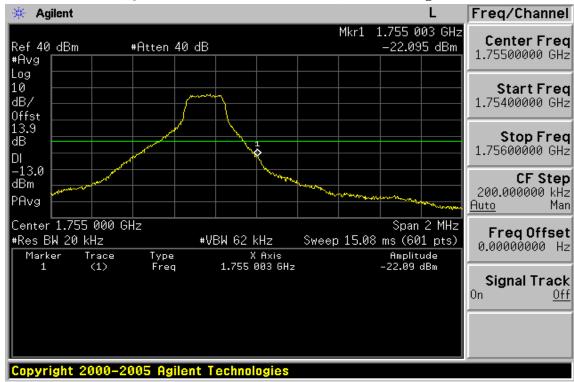


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# Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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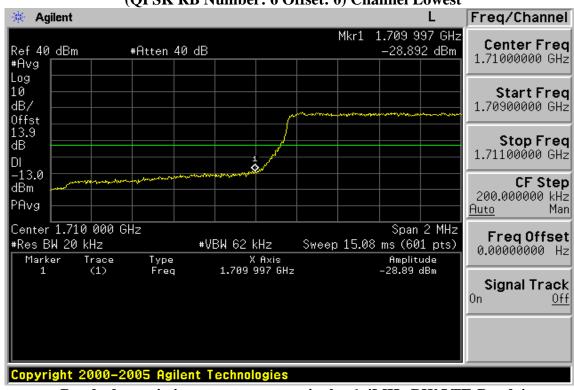
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## Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Highest



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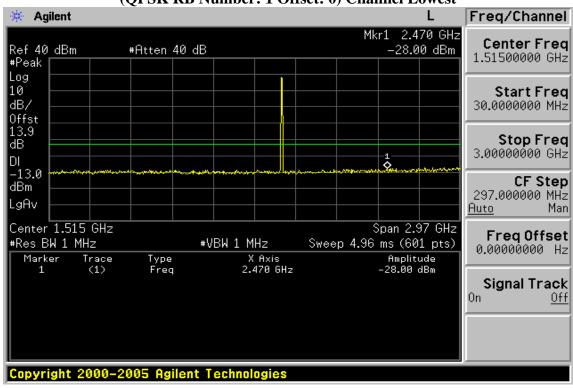
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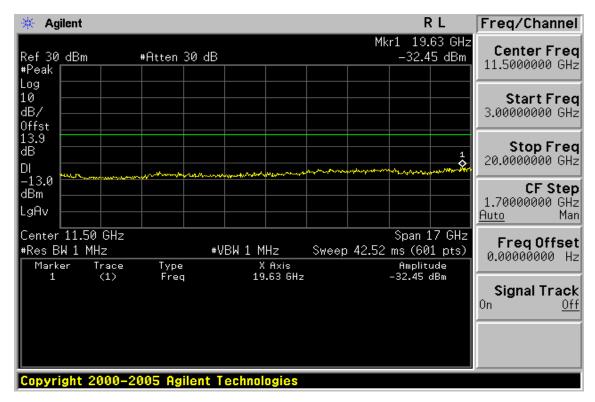
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### Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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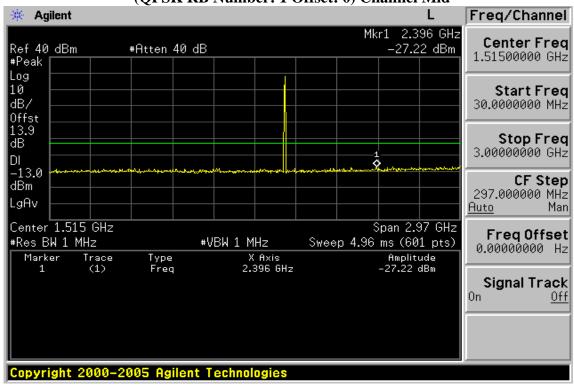
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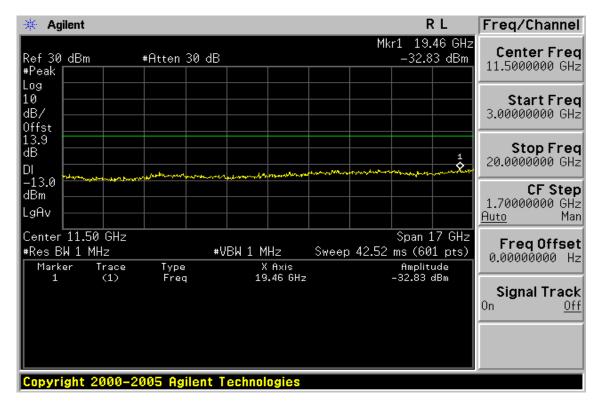
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#### Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Mid





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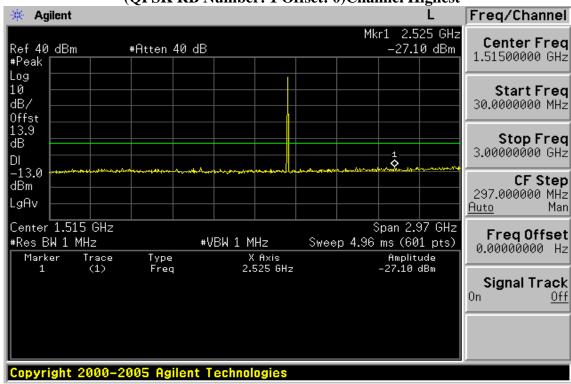
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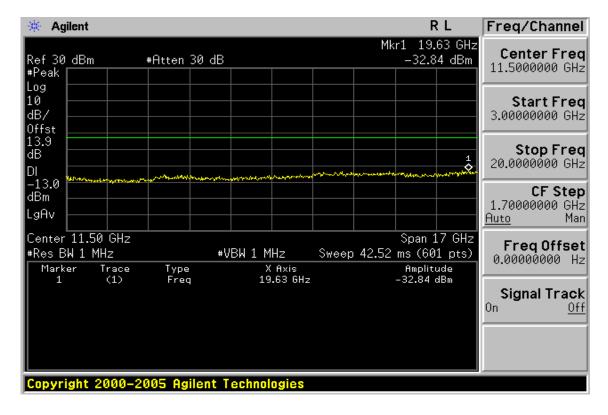
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#### Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Highest





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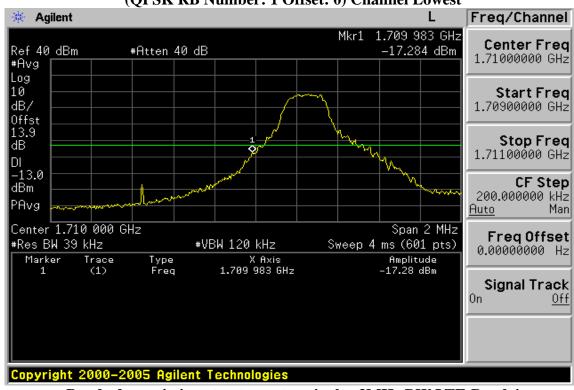
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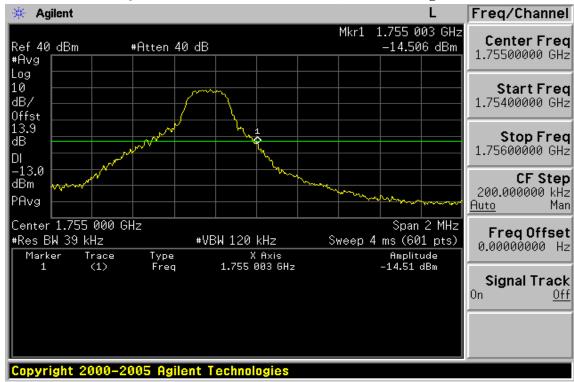


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# Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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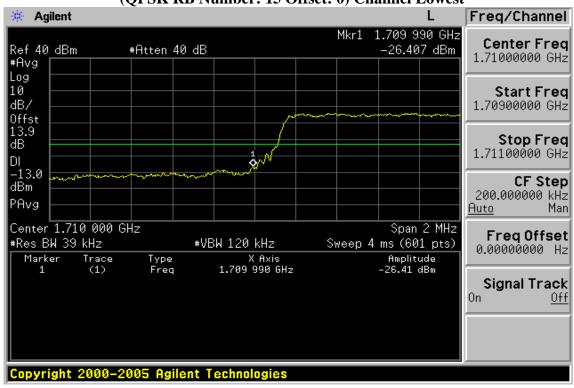
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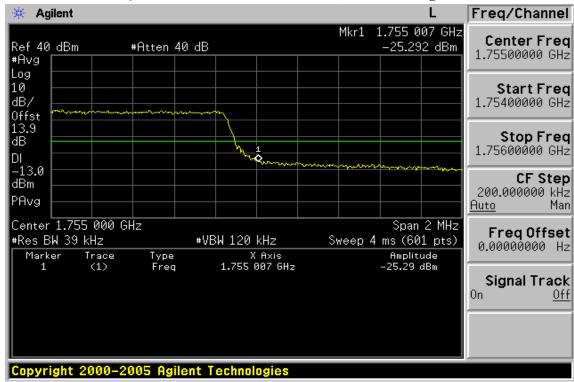


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# Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Highest



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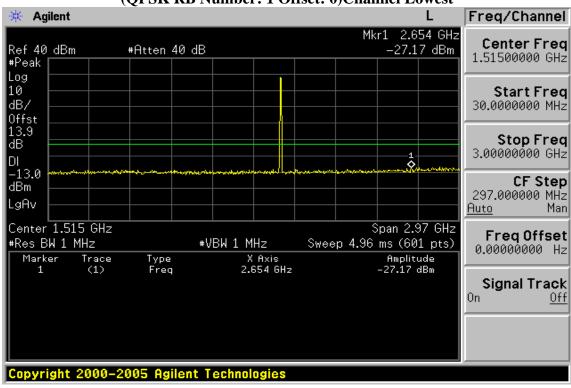
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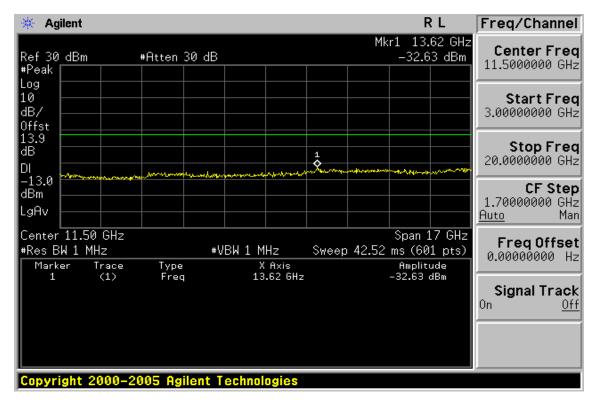
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### Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0)Channel Lowest





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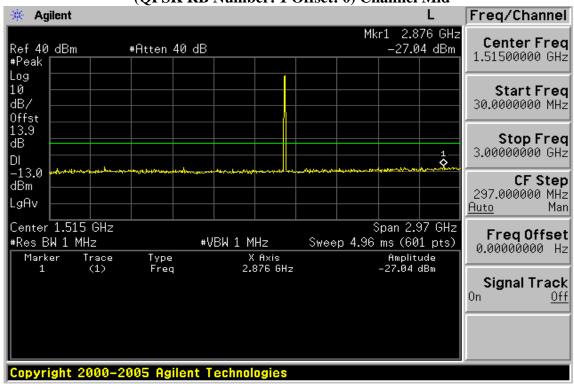
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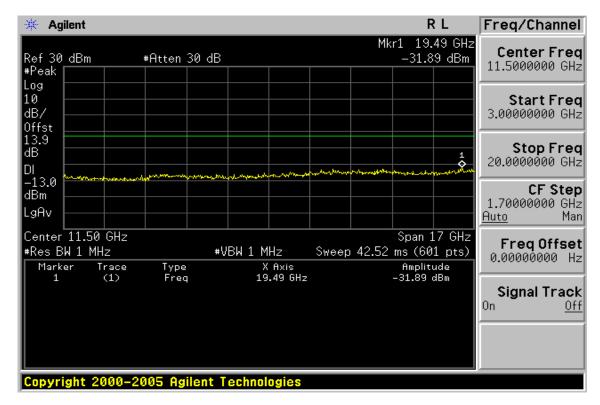
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#### Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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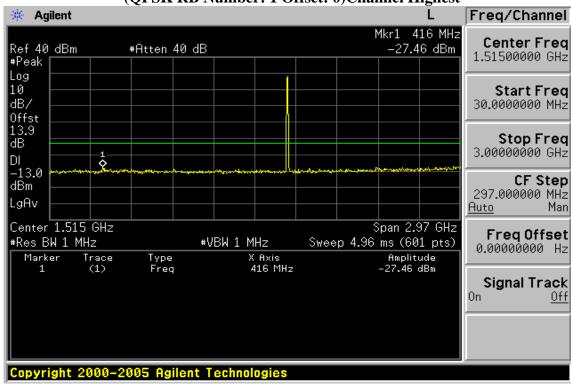
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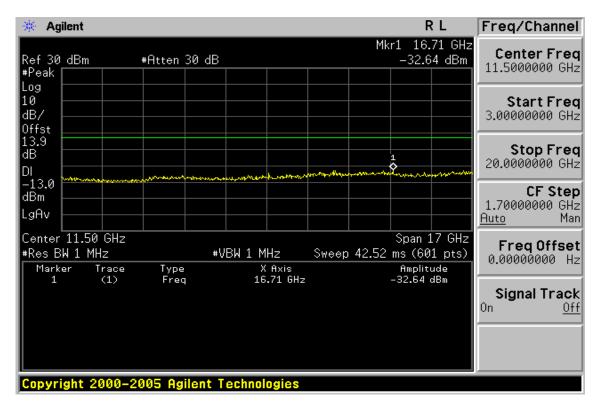
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#### Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Highest





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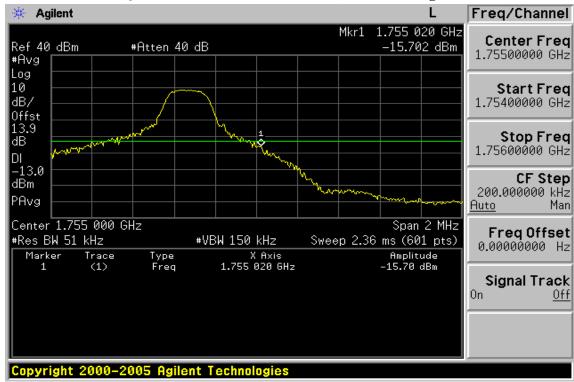


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## Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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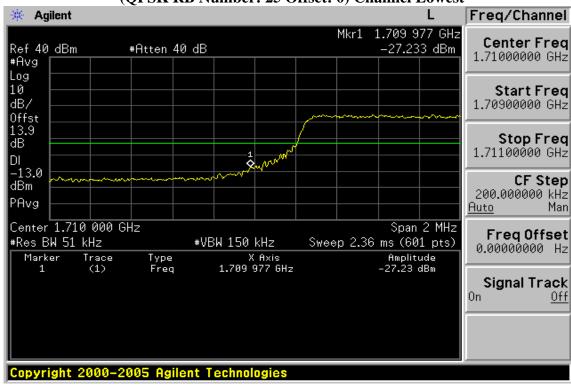
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### Band edge emission at antenna terminals -5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Lowest



#### Band edge emission at antenna terminals -5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Highest



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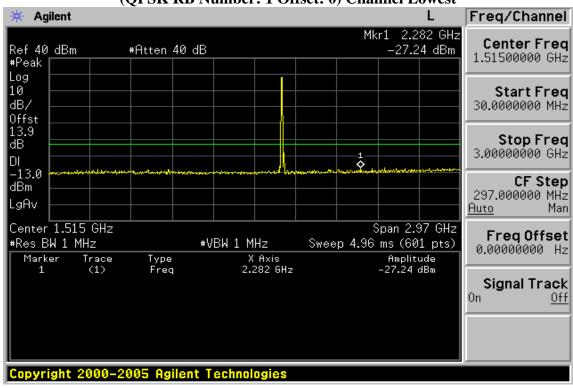
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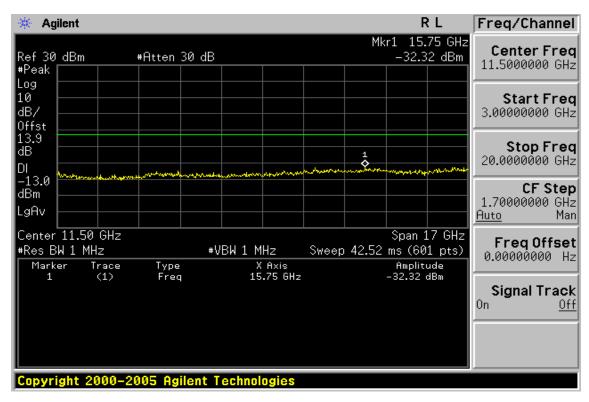
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#### Out of Band emission at antenna terminals-10MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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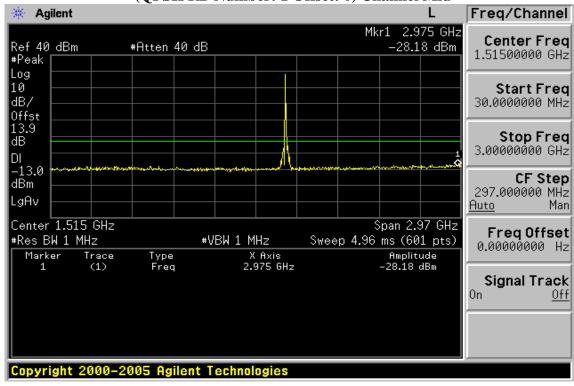
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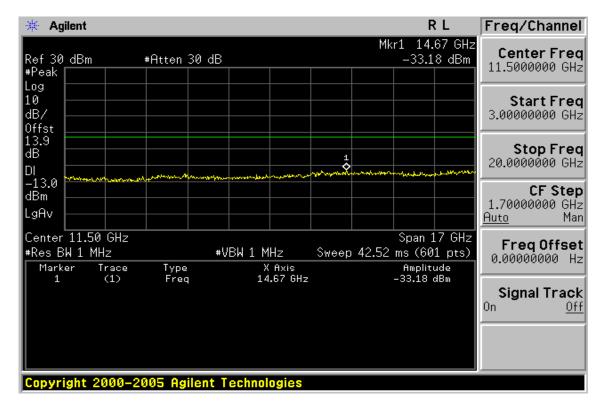
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#### Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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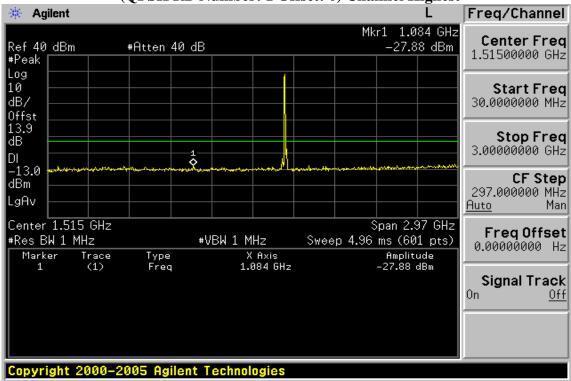
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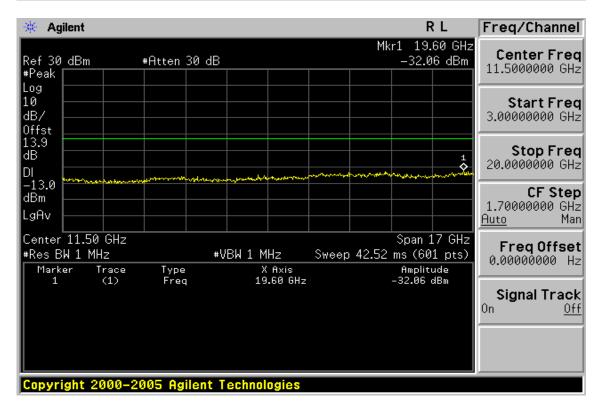
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#### Out of Band emission at antenna terminals-10MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Highest





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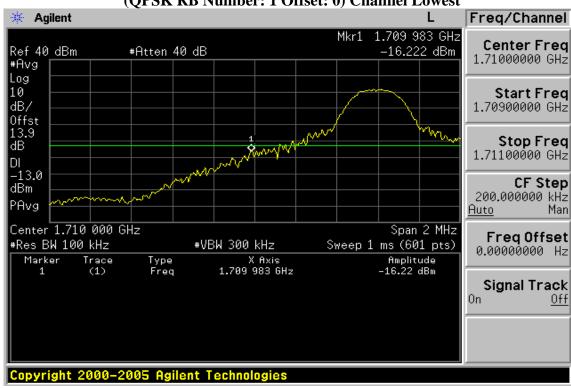
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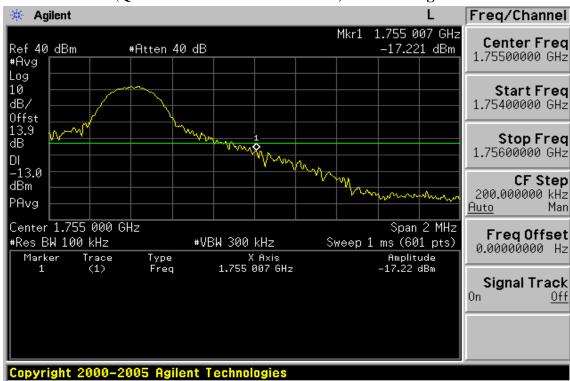


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## Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 49) Channel Highest



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### Band edge emission at antenna terminals -10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Lowest

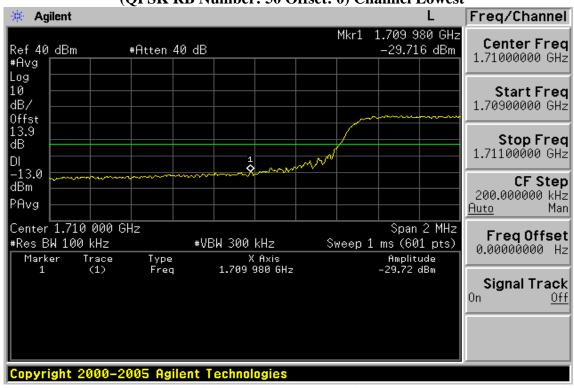


Figure 9-88: Band edge emission at antenna terminals -10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Highest



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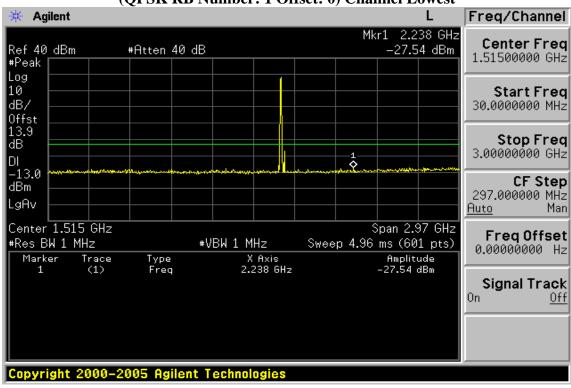
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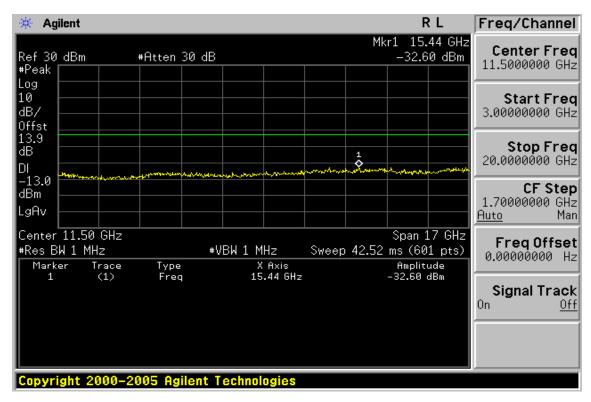
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#### Out of Band emission at antenna terminals-15MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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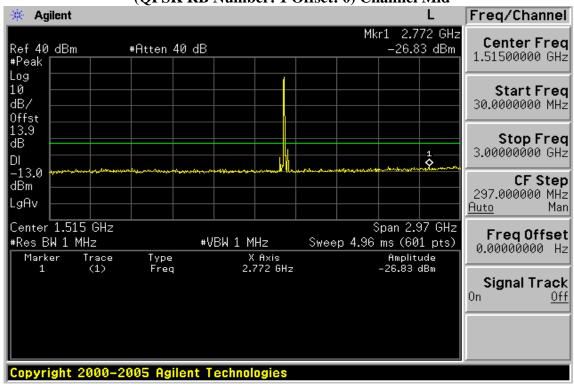
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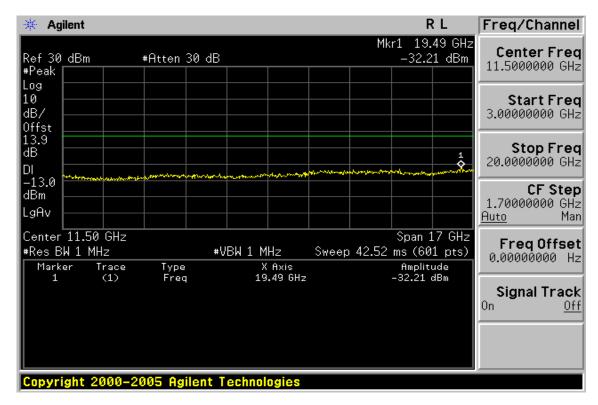
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#### Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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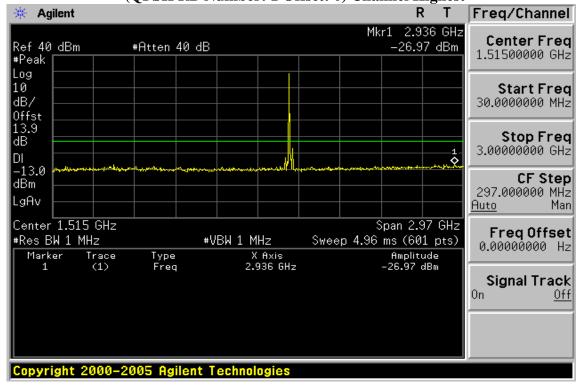
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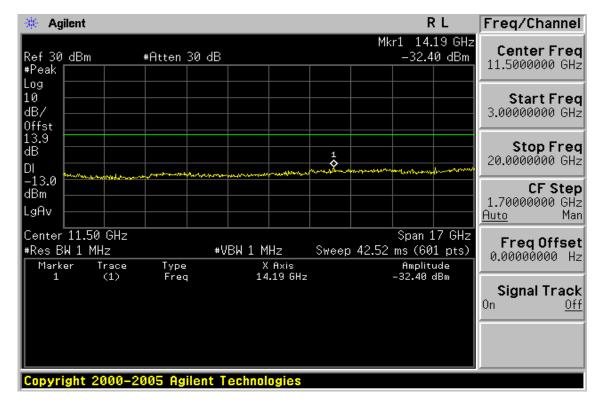
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#### Out of Band emission at antenna terminals-15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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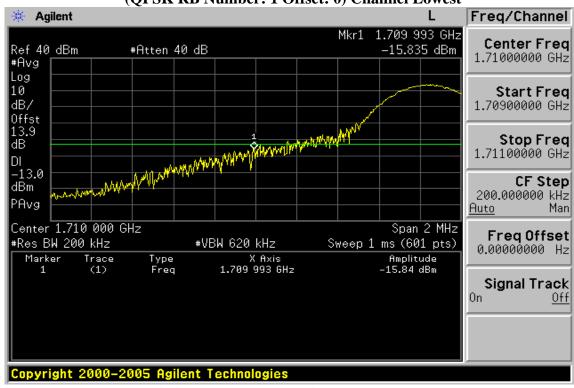
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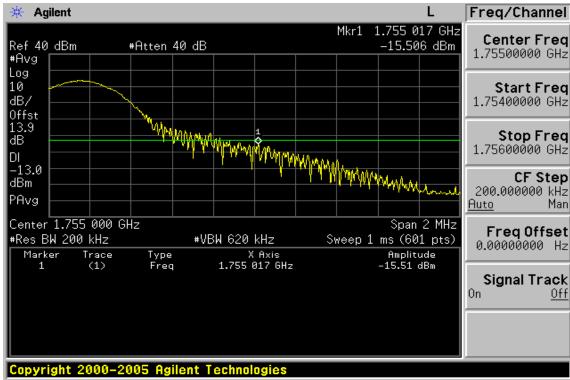


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## Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest



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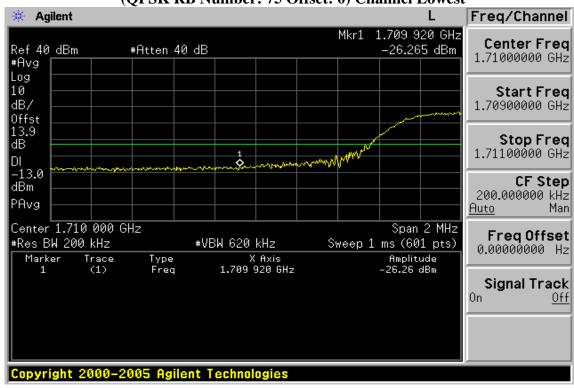
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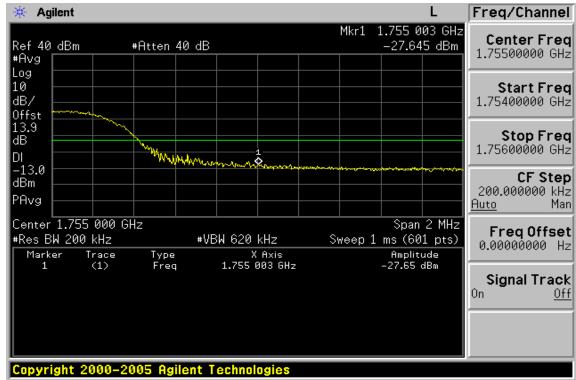


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## Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Highest



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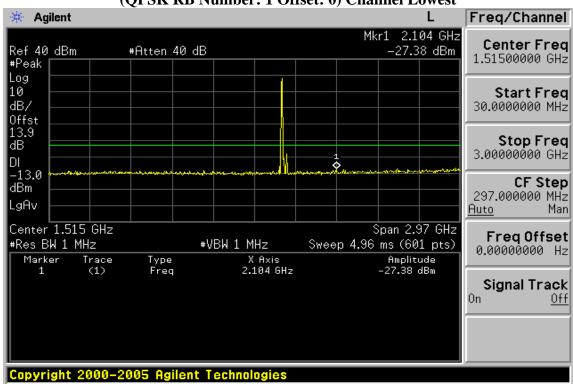
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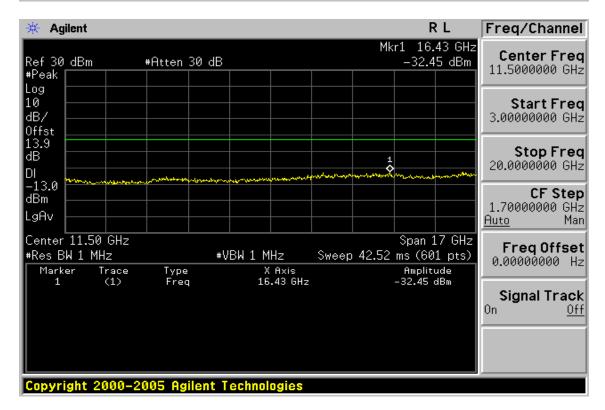
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#### Out of Band emission at antenna terminals-20MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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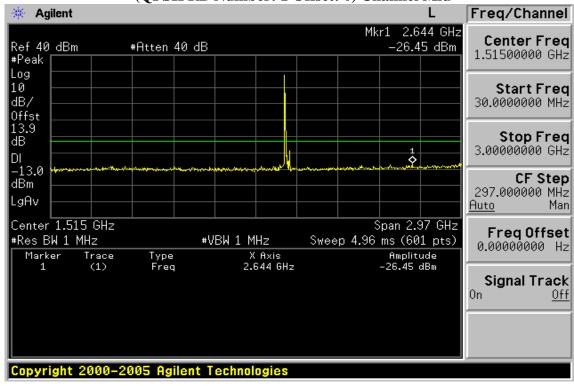
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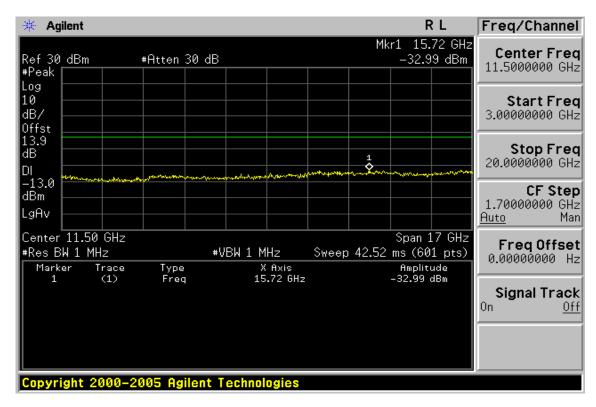
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#### Out of Band emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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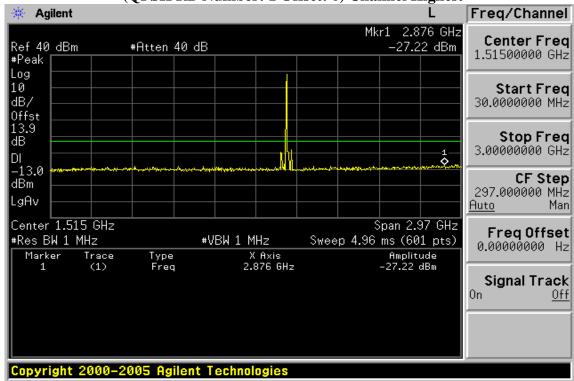
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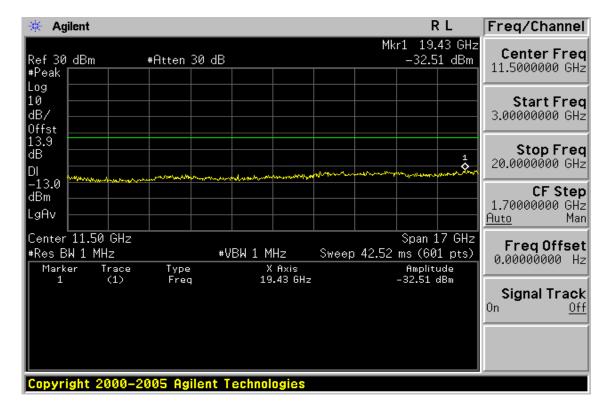
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#### Out of Band emission at antenna terminals-20MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Highest





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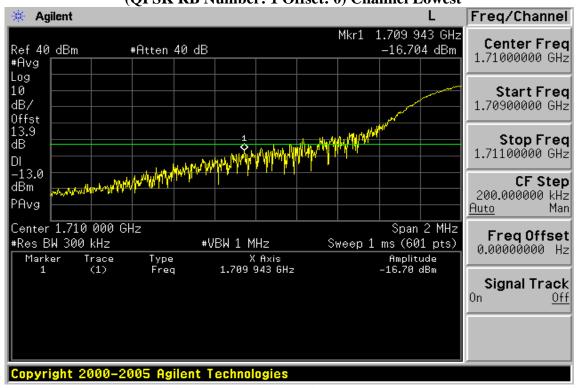
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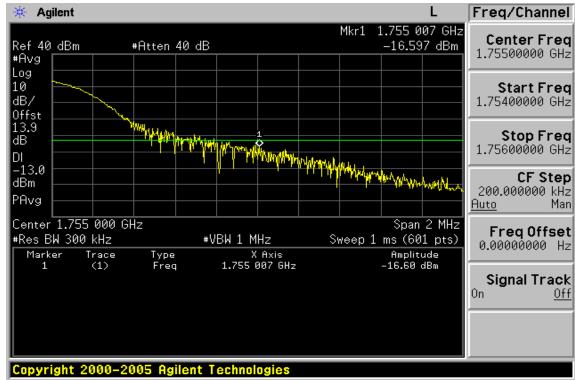


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### Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest



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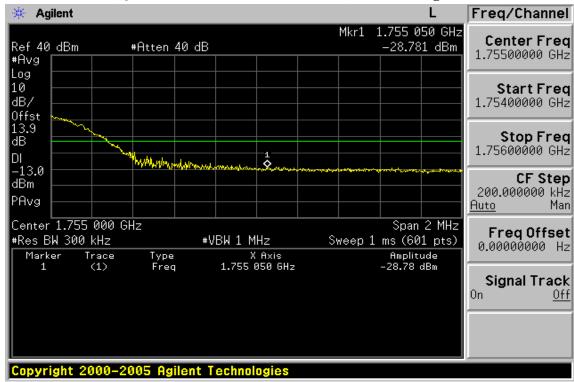


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### Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Highest



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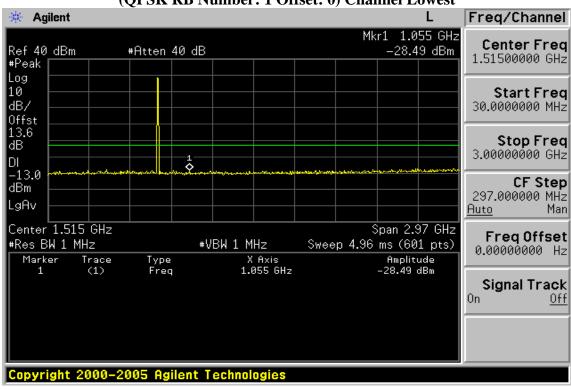
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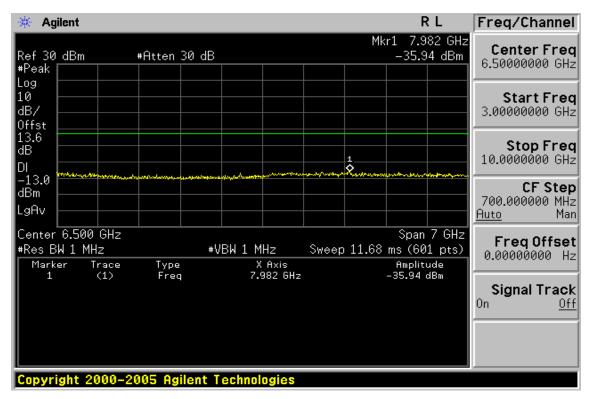
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#### Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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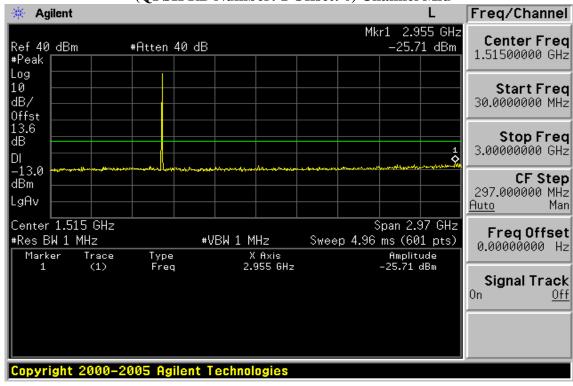
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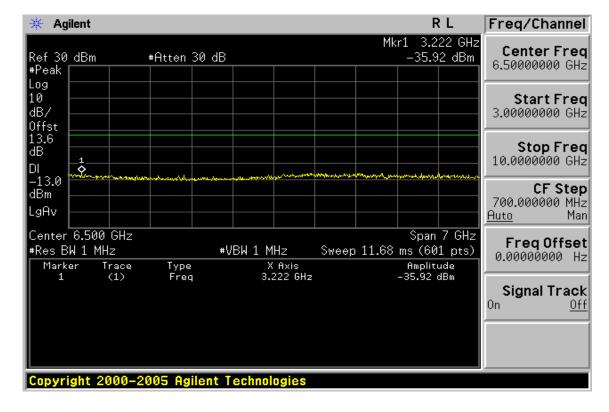
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#### Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Mid





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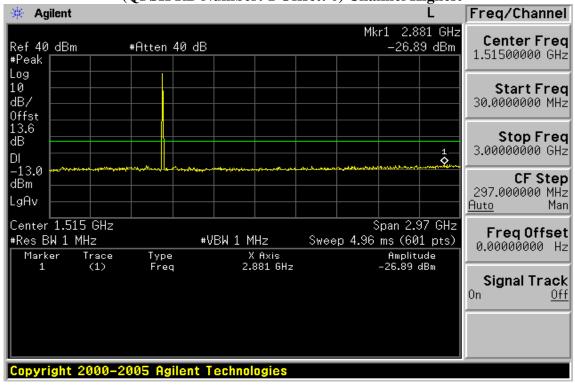
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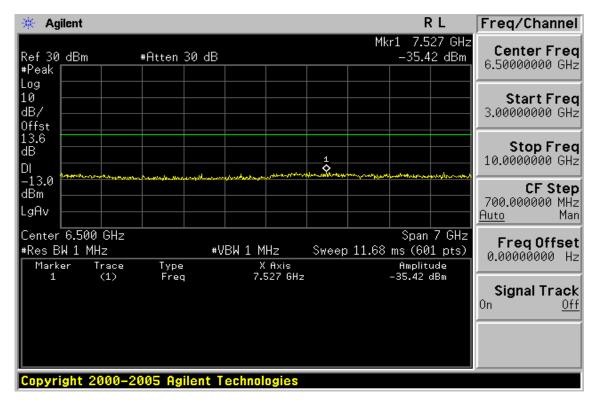
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#### Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Highest





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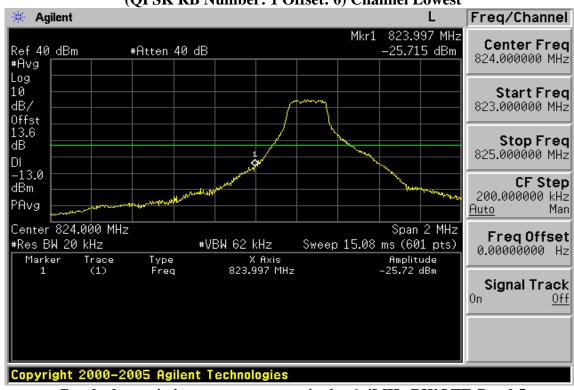
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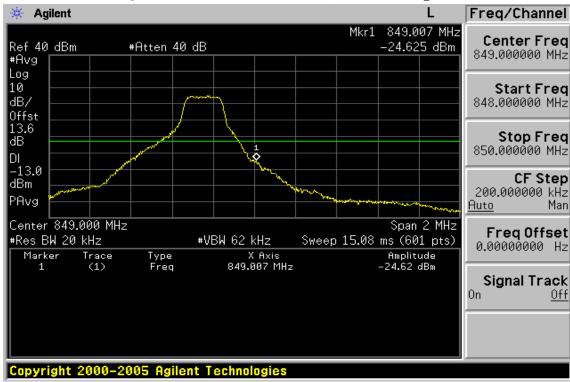


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### Band edge emission at antenna terminals -1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



### Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest



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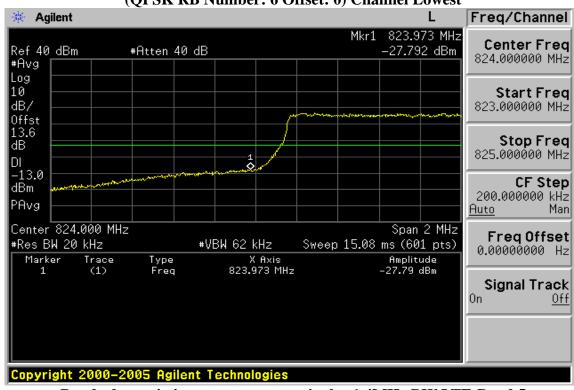
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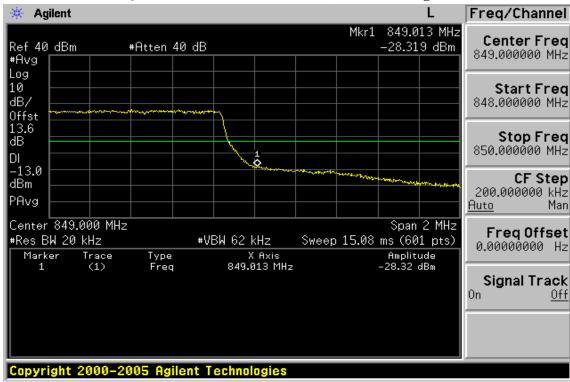


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## Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest



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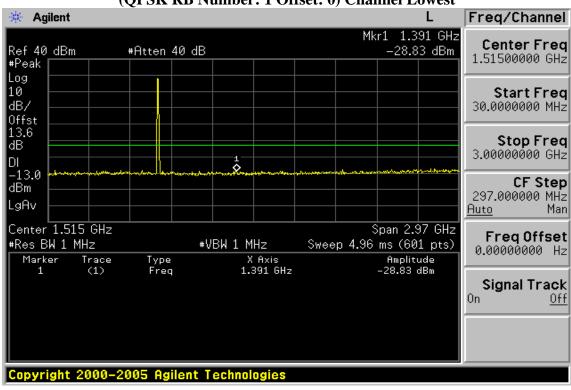
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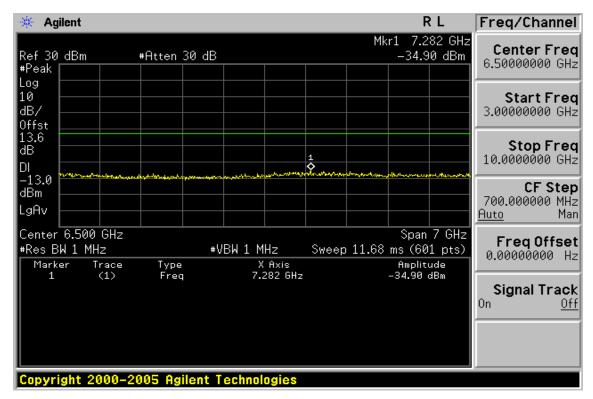
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#### Out of Band emission at antenna terminals-3MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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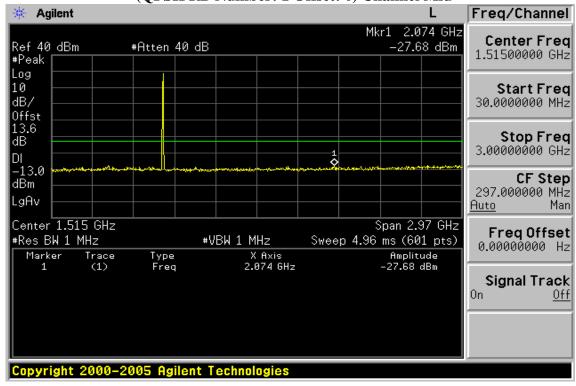
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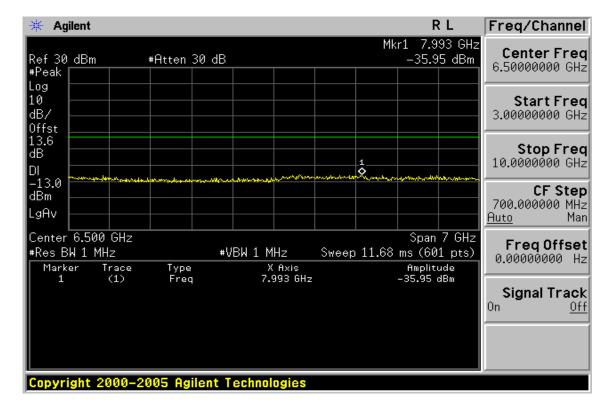
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#### Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Mid





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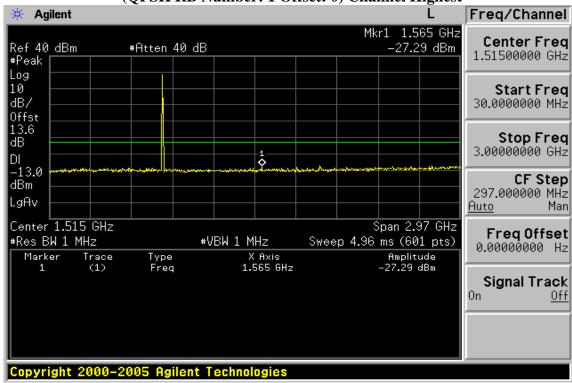
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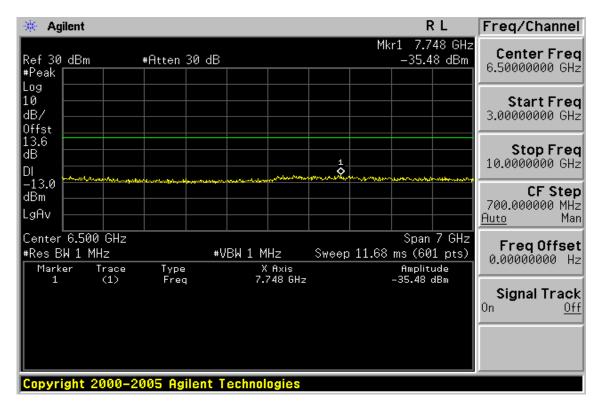


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### Out of Band emission at antenna terminals-3MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Highest





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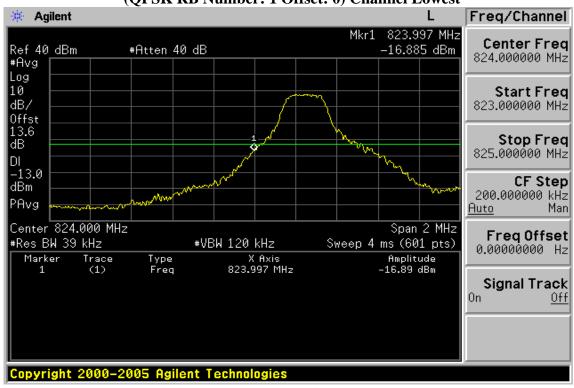
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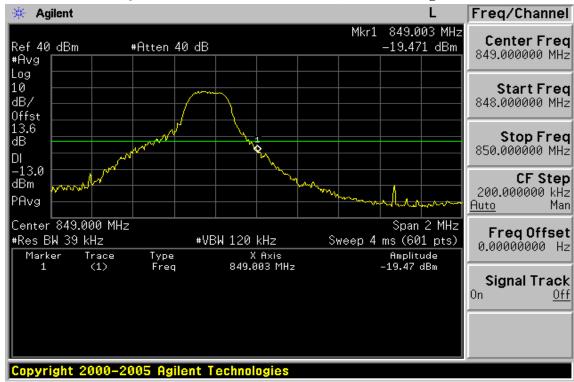


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## Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest



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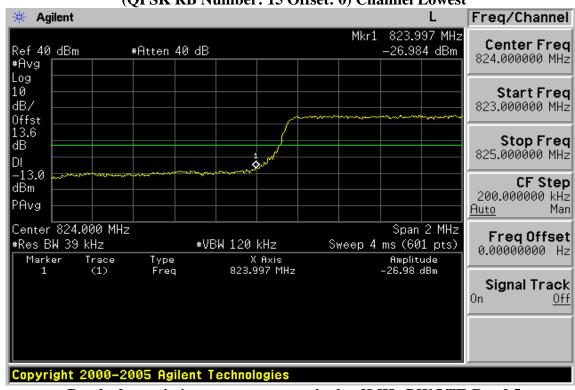
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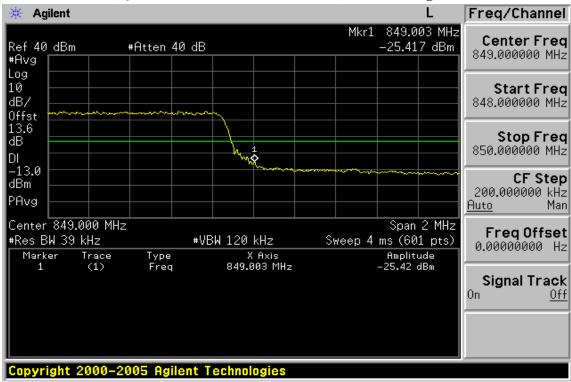


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### Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Highest



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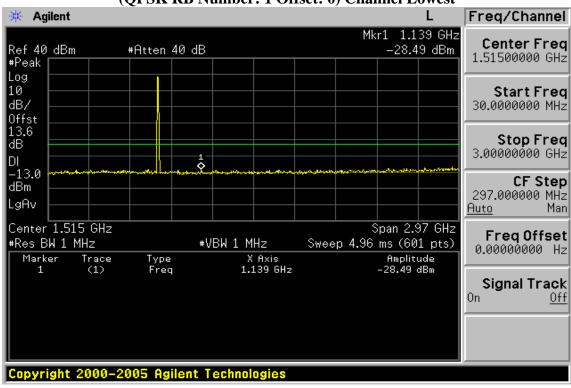
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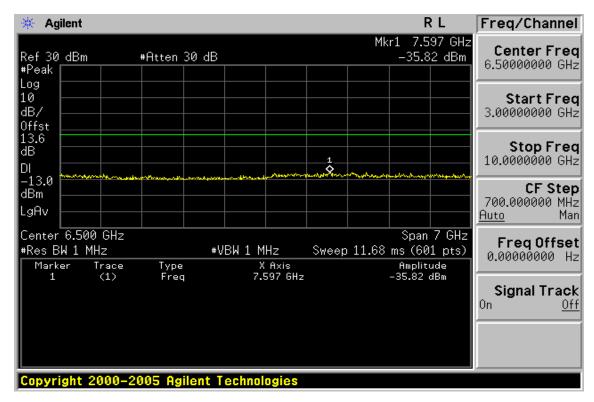


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#### Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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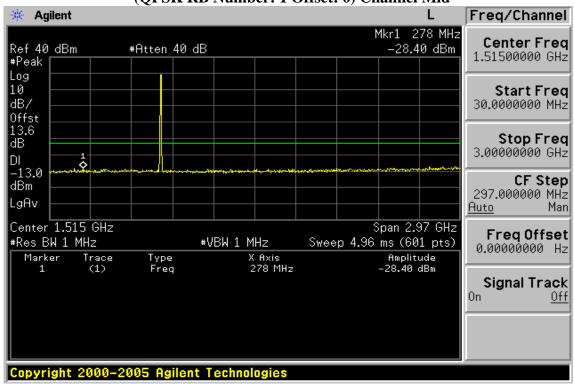
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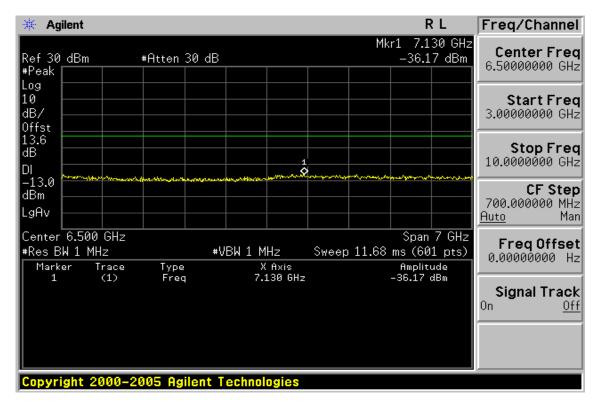
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#### Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Mid





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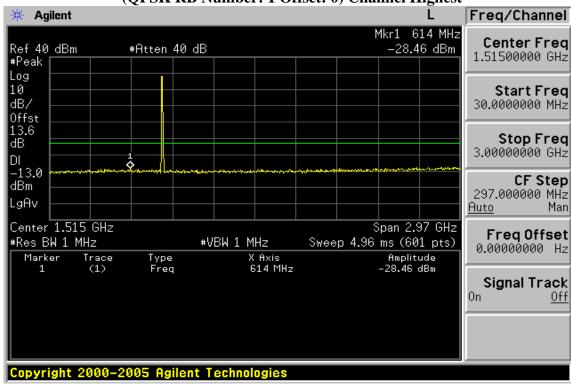
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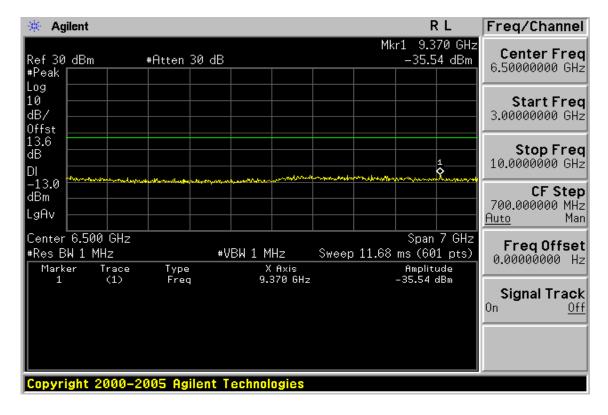


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#### Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Highest





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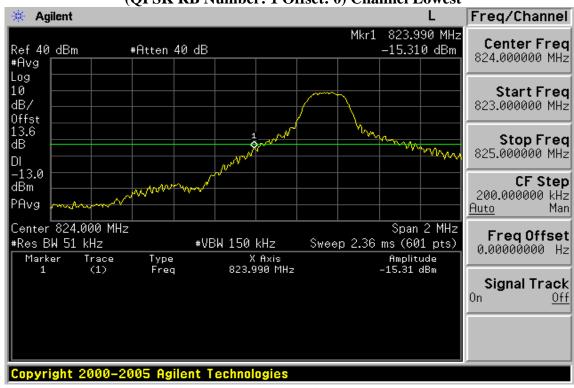
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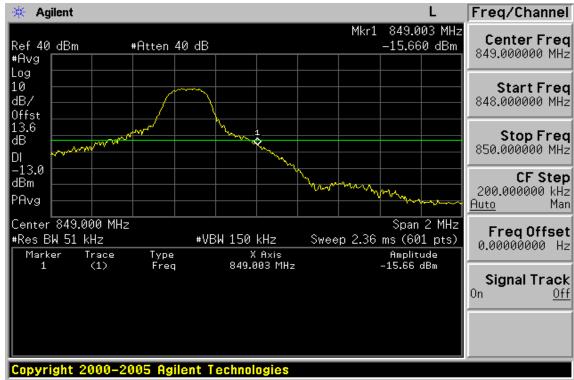


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### Band edge emission at antenna terminals -5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest



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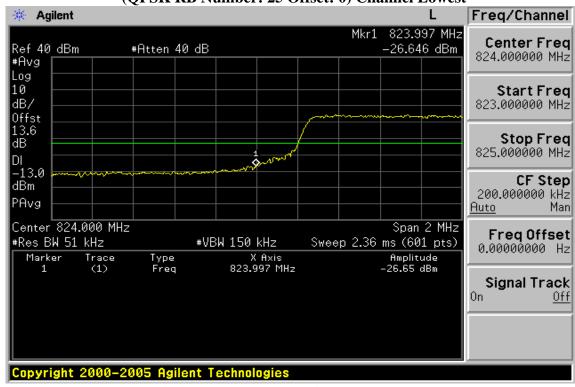
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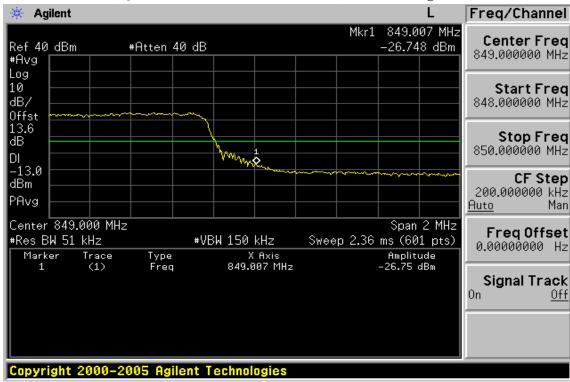
**FCC ID: PY7-PM0872** Report No.: ER/2015/40157 **Issue Date: Jun. 22, 2015** 

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### Band edge emission at antenna terminals -5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Highest



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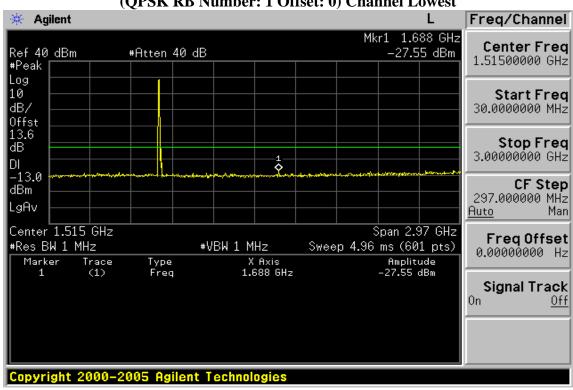
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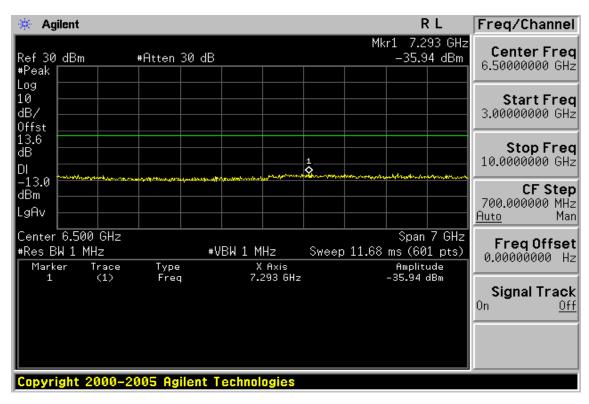


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#### Out of Band emission at antenna terminals-10MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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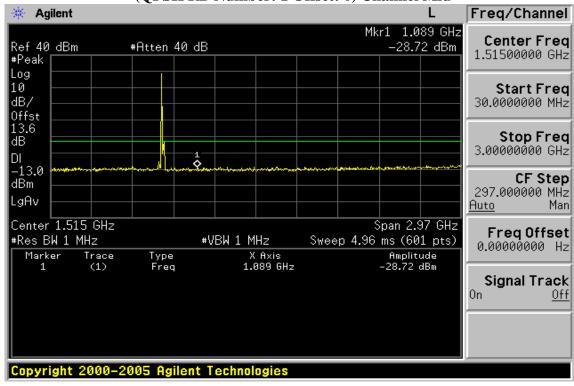
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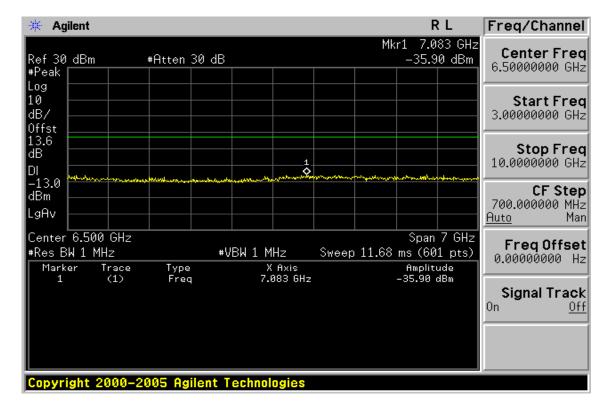
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#### Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Mid





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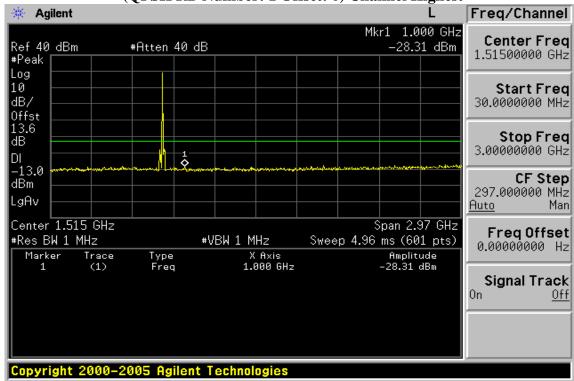
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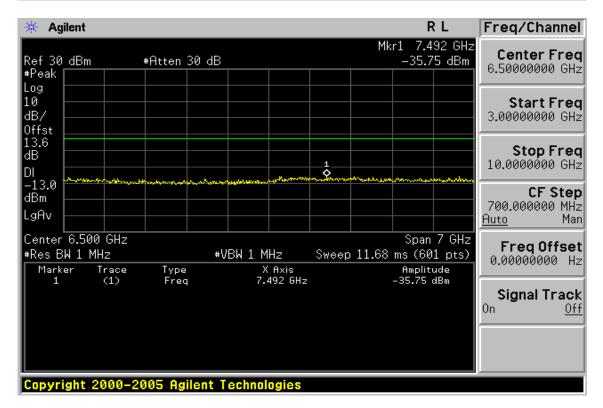
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## Out of Band emission at antenna terminals-10MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Highest





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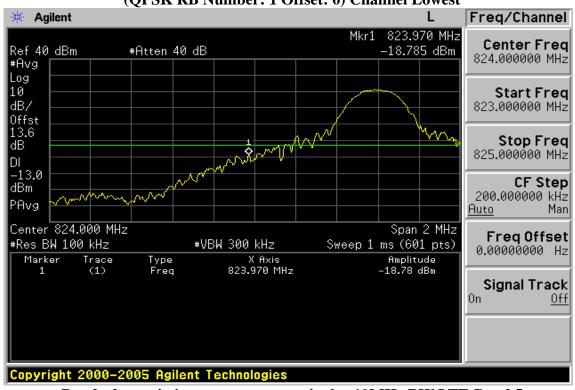
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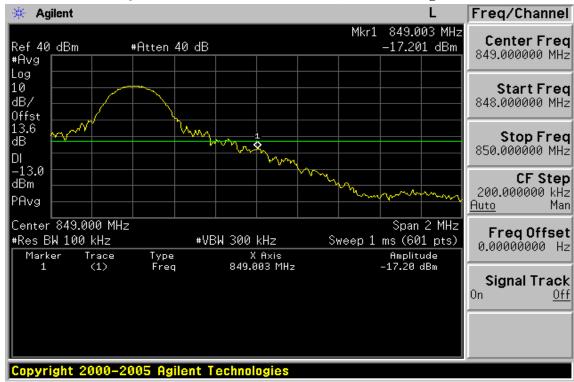


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# Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest



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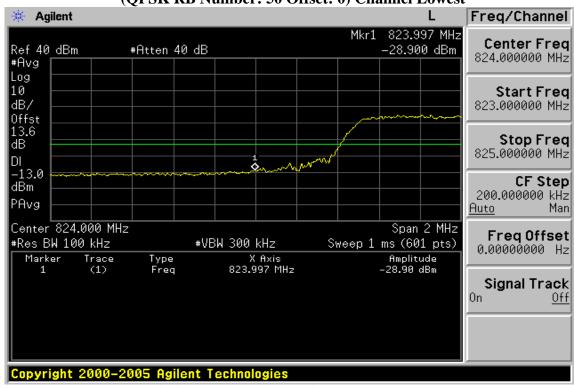
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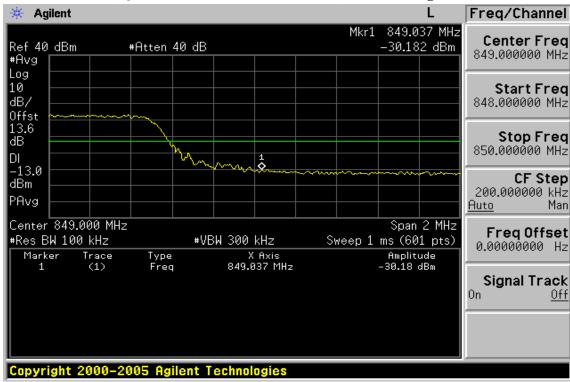
**FCC ID: PY7-PM0872** Report No.: ER/2015/40157 **Issue Date: Jun. 22, 2015** 

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# Band edge emission at antenna terminals -10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals -10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Highest



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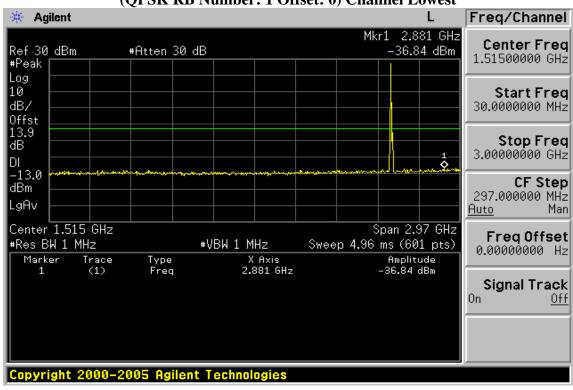
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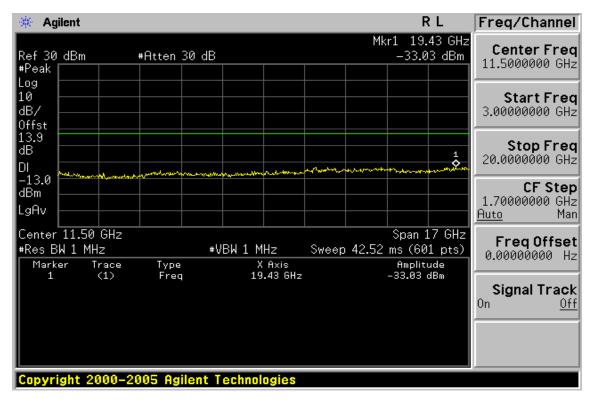


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## Out of Band emission at antenna terminals-5MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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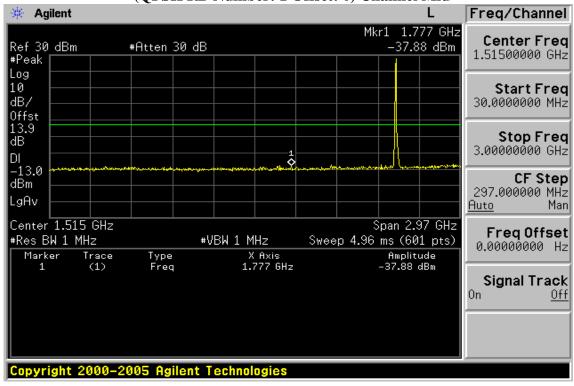
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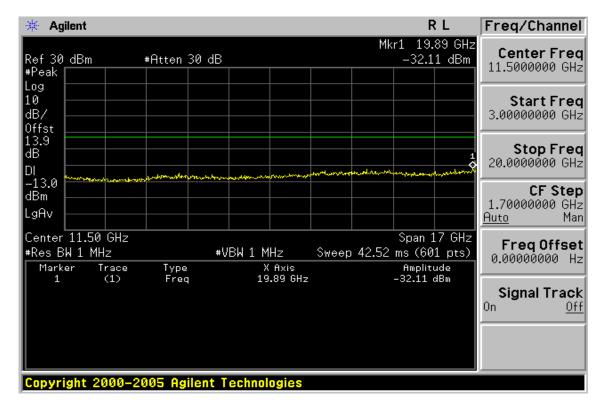
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## Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid





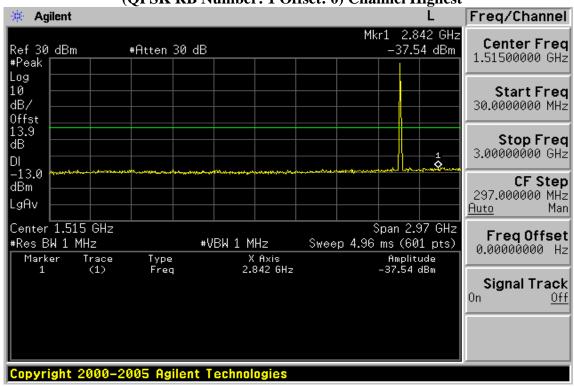
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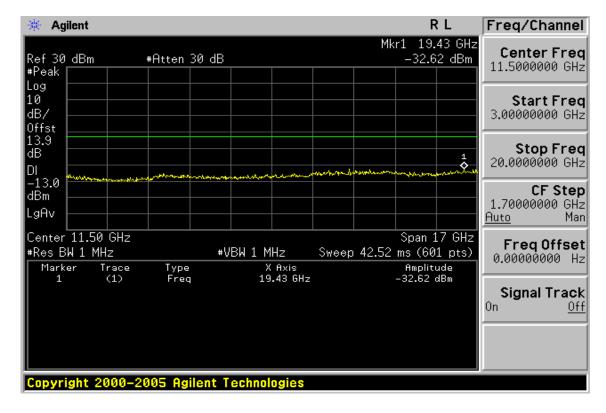
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## Out of Band emission at antenna terminals-5MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest





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## Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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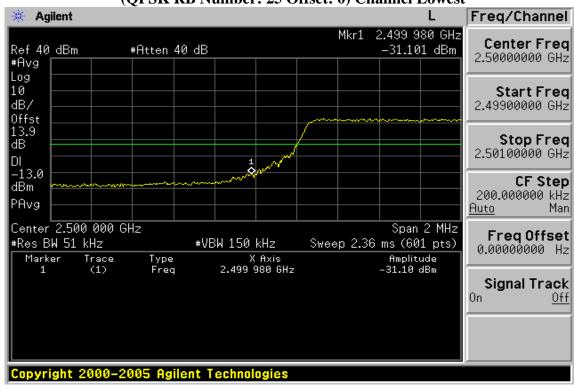
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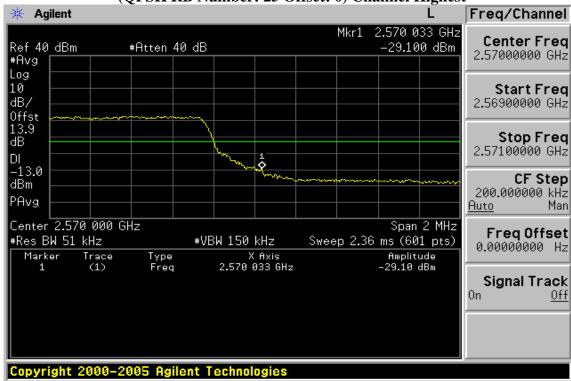


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# Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest



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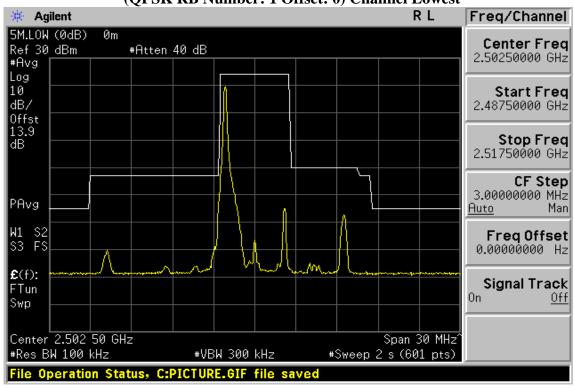
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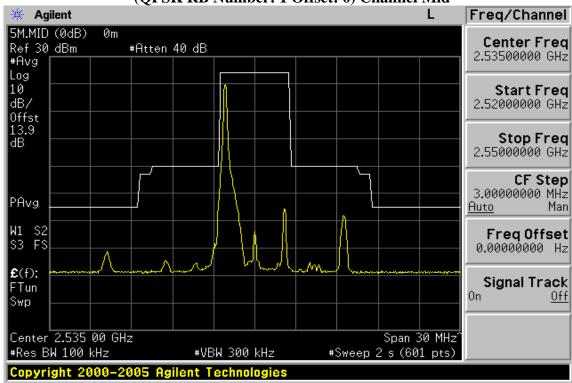


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# Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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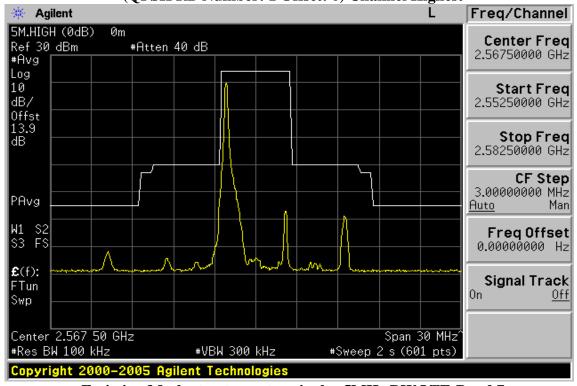
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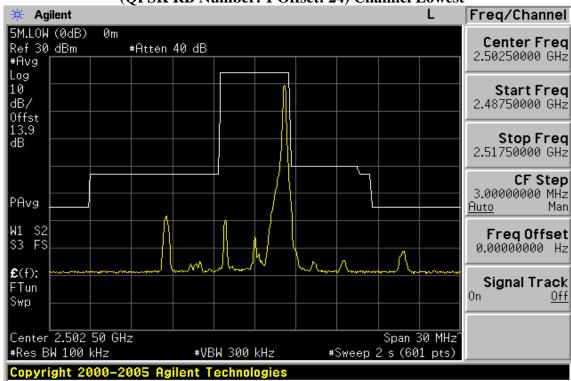


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## Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest



# Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Lowest



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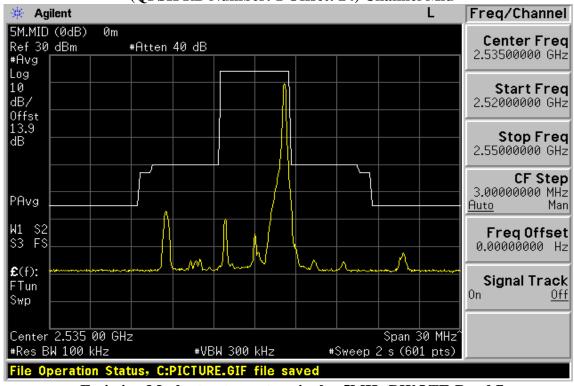
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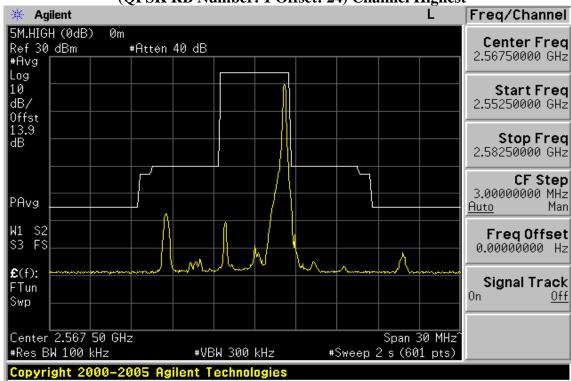


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#### Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 24) Channel Mid



# Emission Mask at antenna terminals -5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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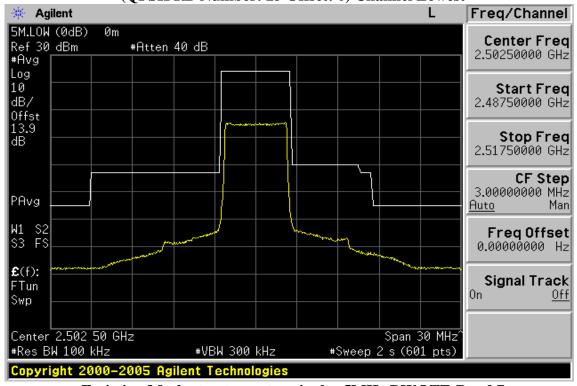
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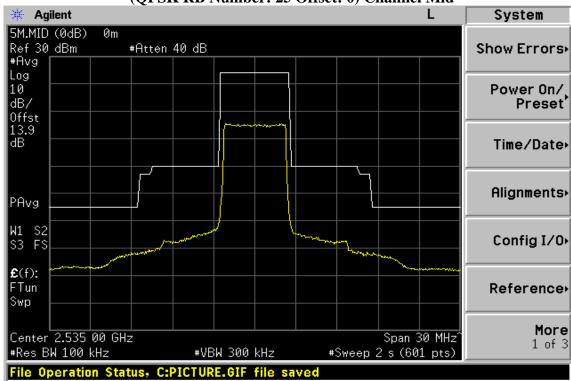


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#### Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (OPSK RB Number: 25 Offset: 0) Channel Lowest



# Emission Mask at antenna terminals -5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Mid



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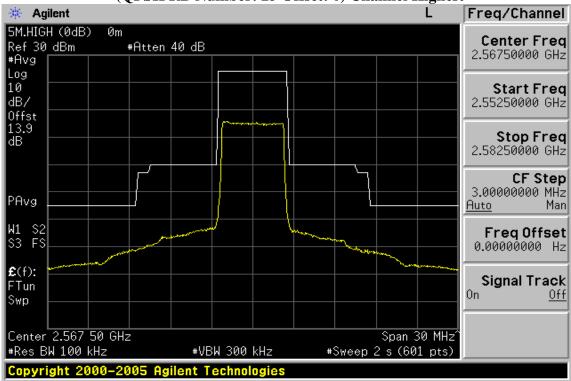
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## Emission Mask at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest



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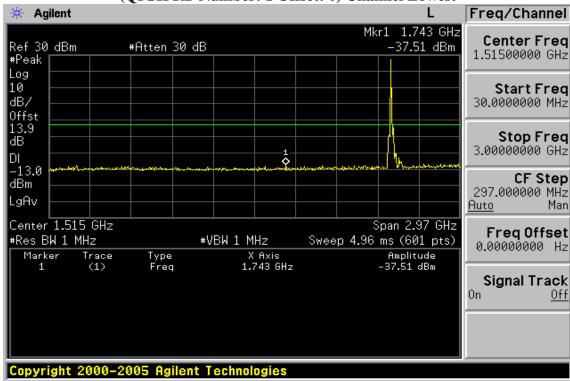
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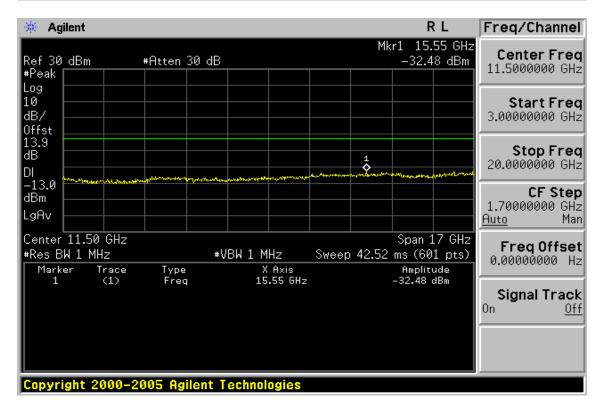
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#### Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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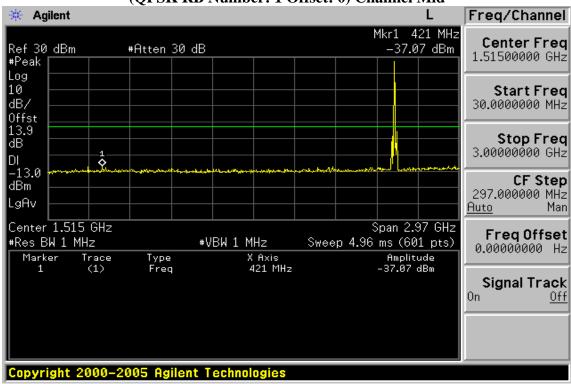
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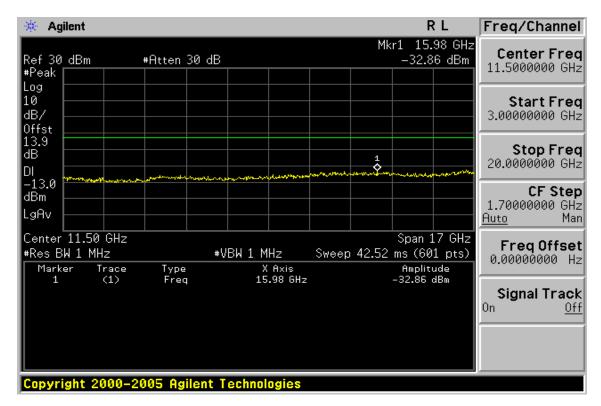
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#### Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Mid





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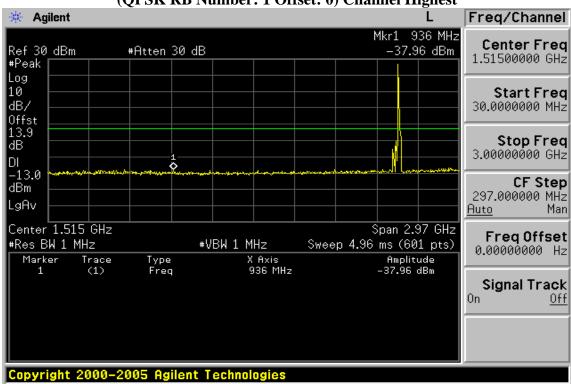
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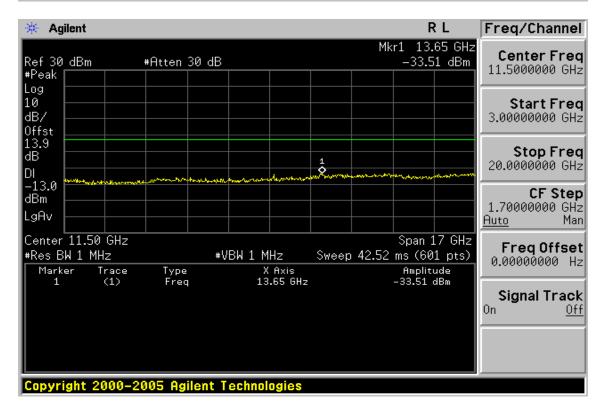
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## Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest





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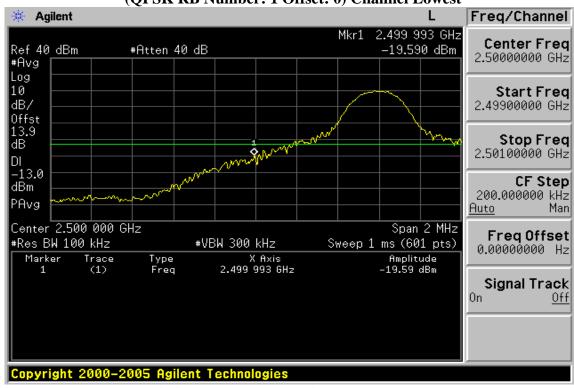
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# Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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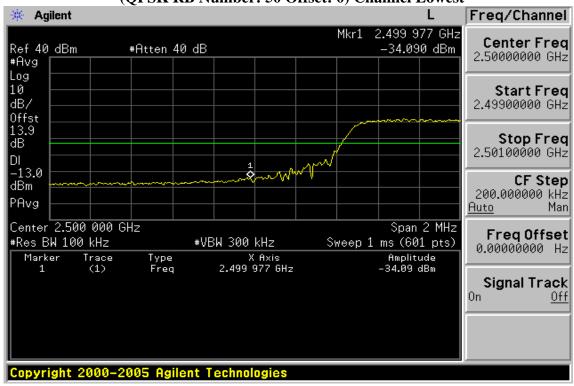
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# Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



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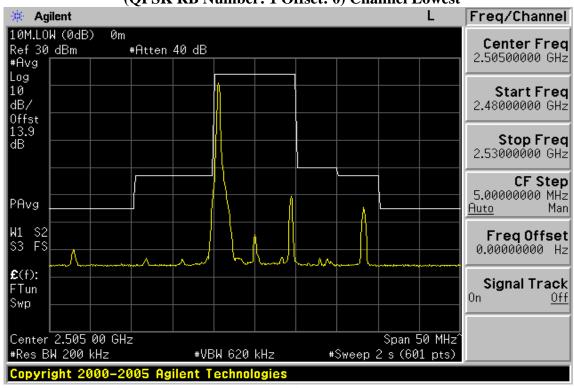
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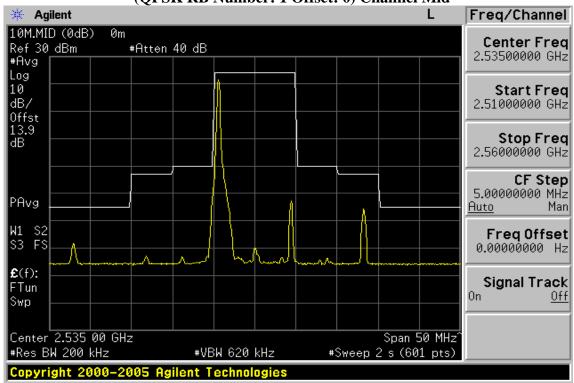


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## Emission Mask at antenna terminals –10MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest



## Emission Mask at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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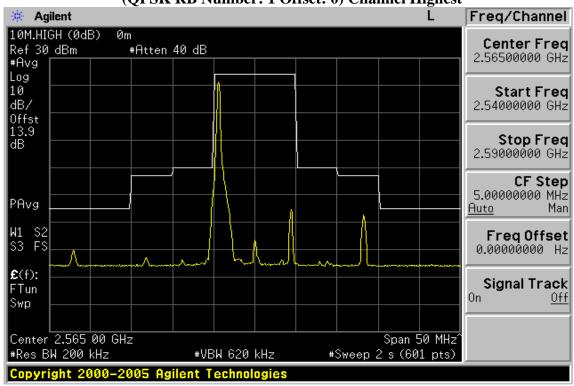
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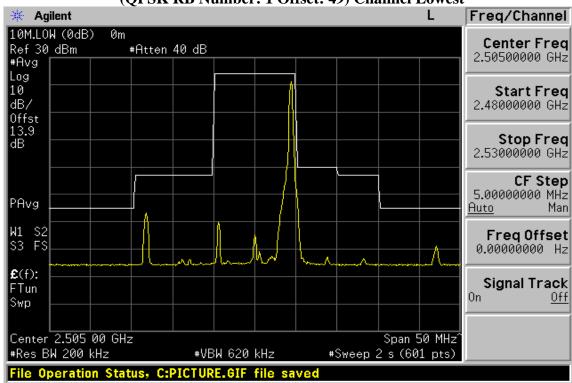


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#### Emission Mask at antenna terminals –10MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest



# Emission Mask at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Lowest



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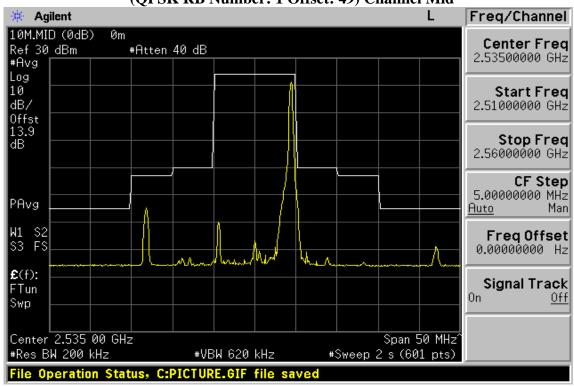
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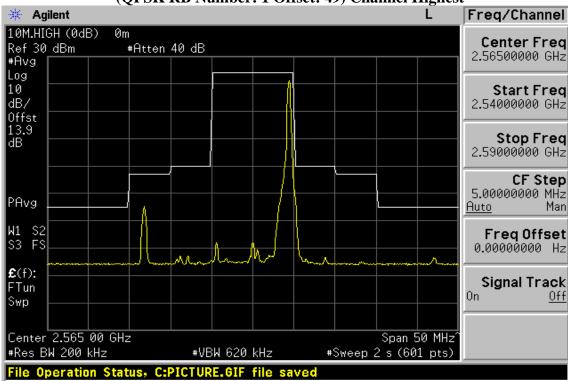


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## Emission Mask at antenna terminals –10MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 49) Channel Mid



# Emission Mask at antenna terminals -10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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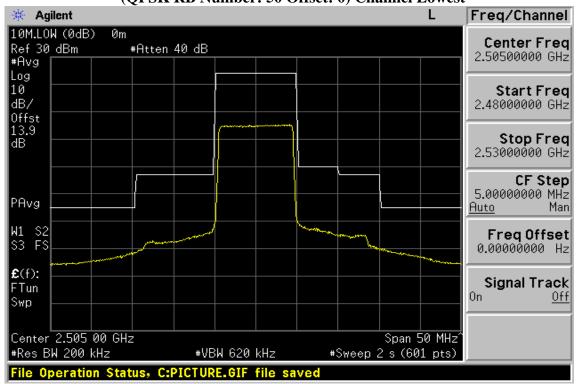
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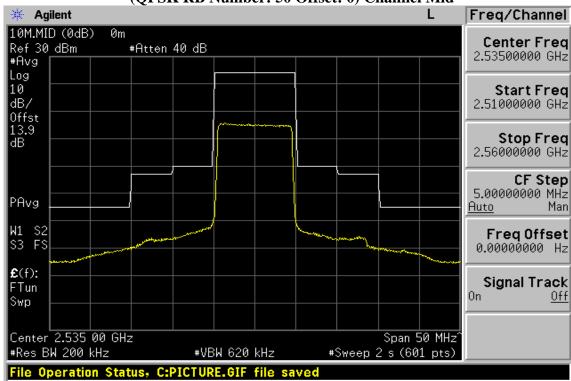
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#### Emission Mask at antenna terminals –10MHz BW LTE-Band 7 (OPSK RB Number: 50 Offset: 0) Channel Lowest



# Emission Mask at antenna terminals -10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Mid



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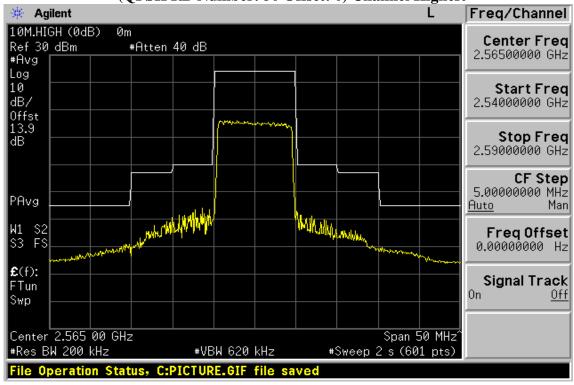
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## Emission Mask at antenna terminals -10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



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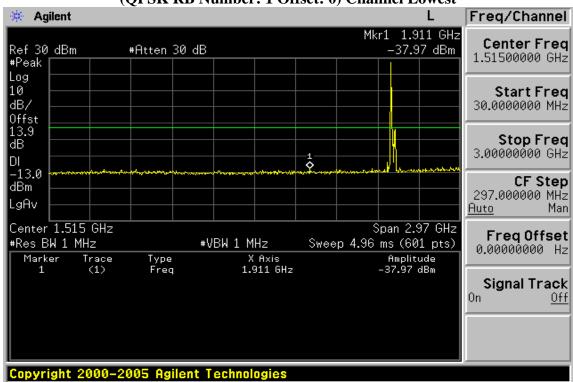
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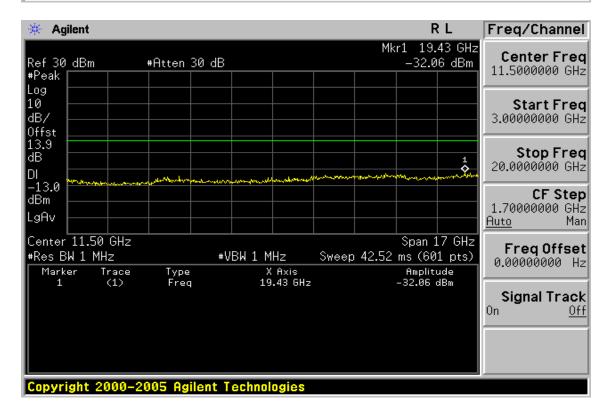
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#### Out of Band emission at antenna terminals—15MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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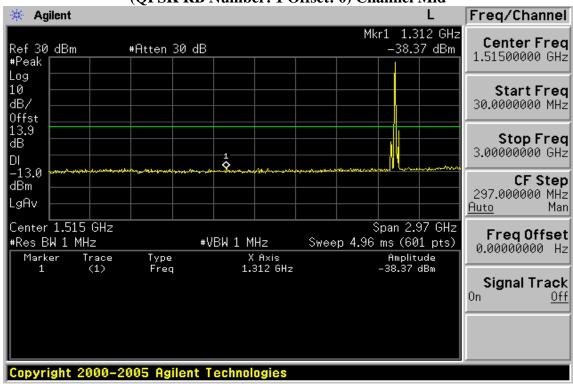
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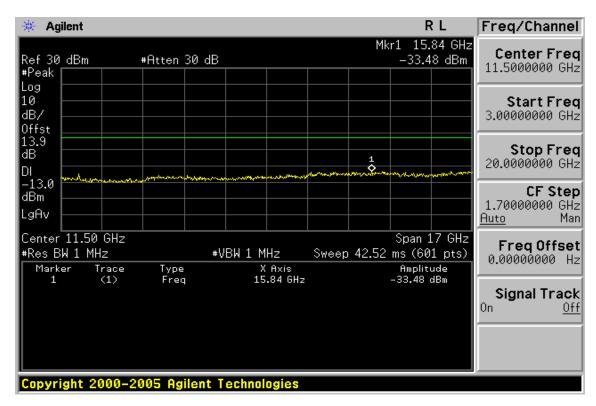
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## Out of Band emission at antenna terminals—15MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Mid





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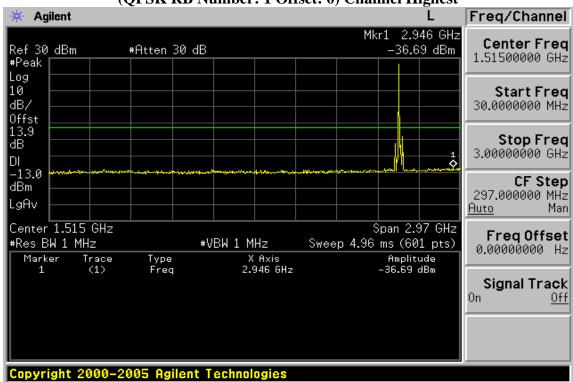
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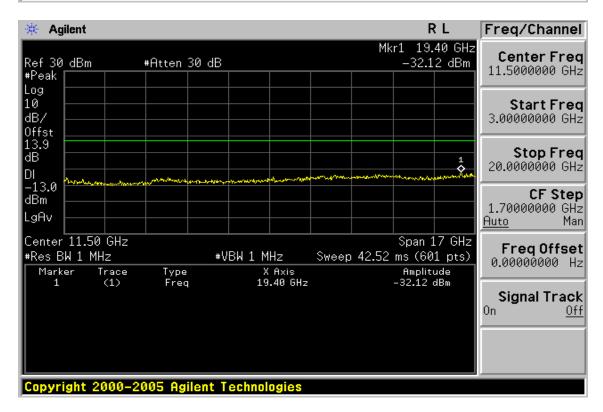
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## Out of Band emission at antenna terminals—15MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest





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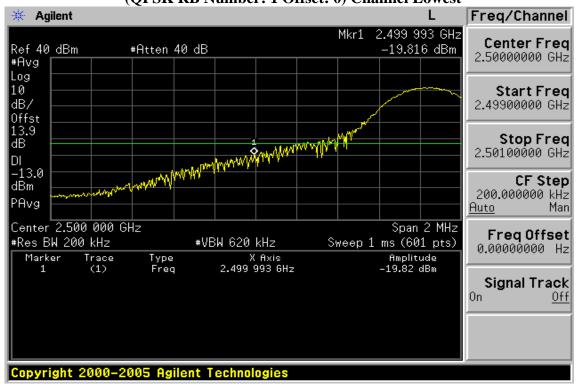
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## Band edge emission at antenna terminals -15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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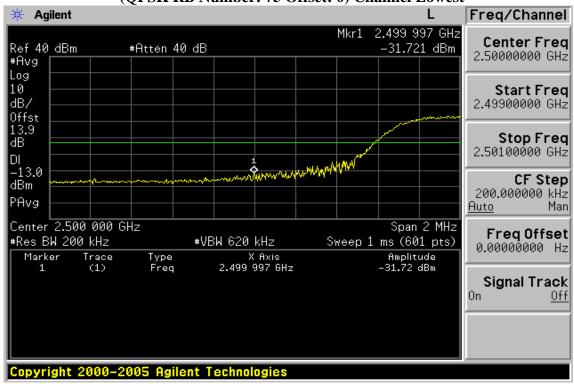
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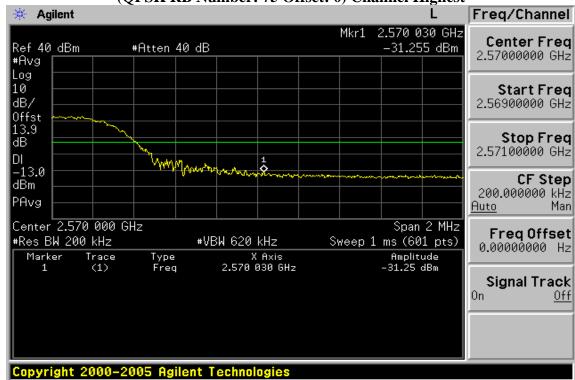
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## Band edge emission at antenna terminals -15MHz BW LTE-Band 7 (OPSK RB Number: 75 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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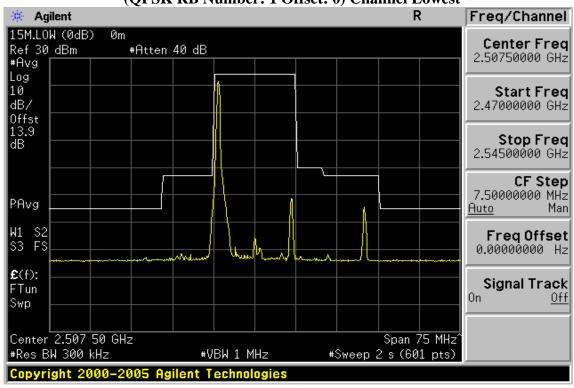
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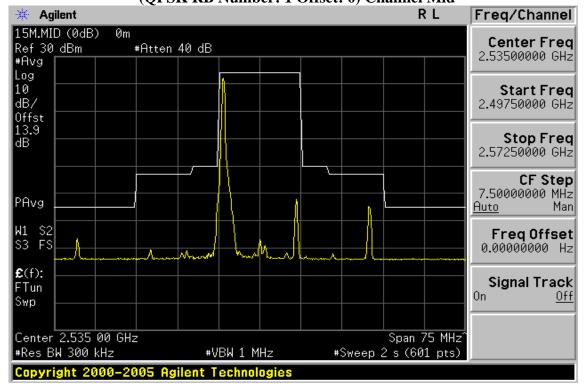


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## Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest



## Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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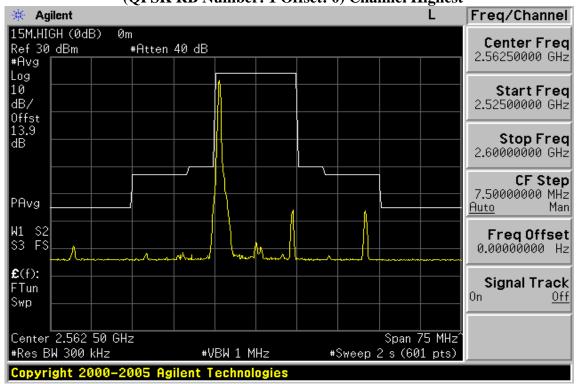
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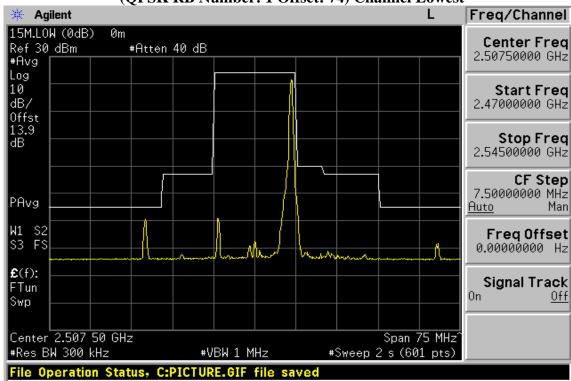
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#### Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest



# Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Lowest



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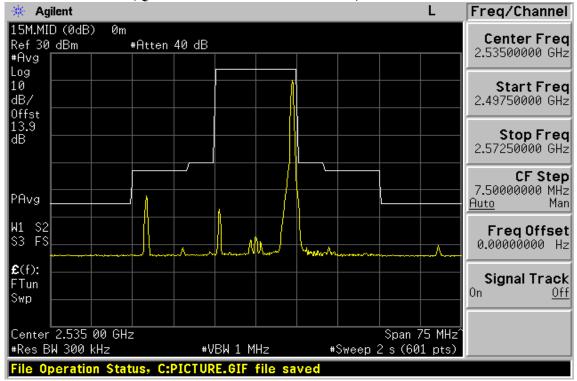
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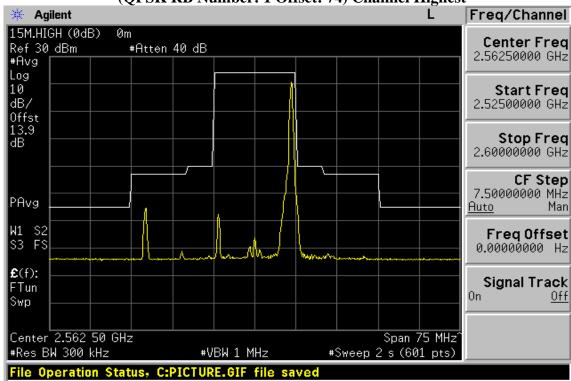


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## Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 74) Channel Mid



# Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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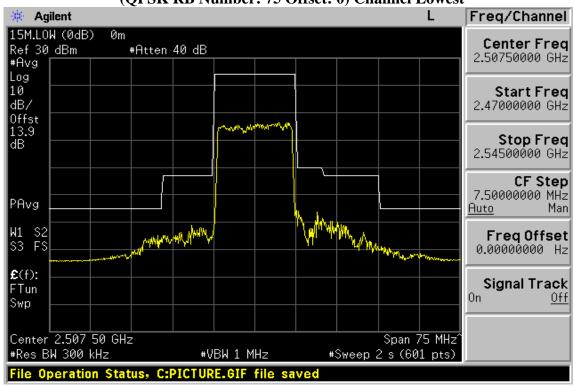
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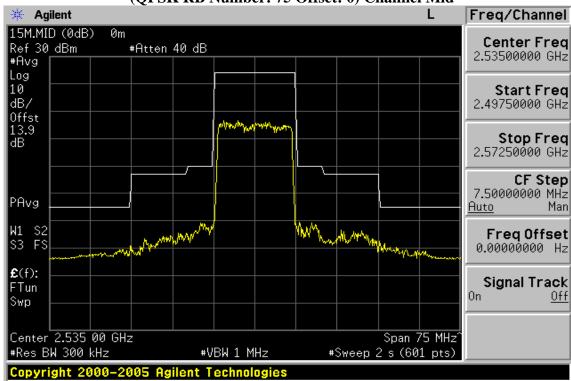
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#### Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (OPSK RB Number: 75 Offset: 0) Channel Lowest



# Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Mid



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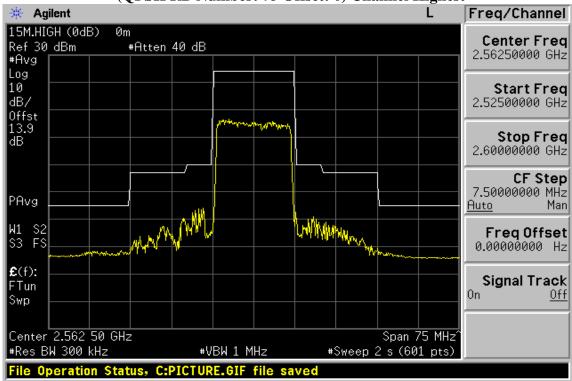
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## Emission Mask at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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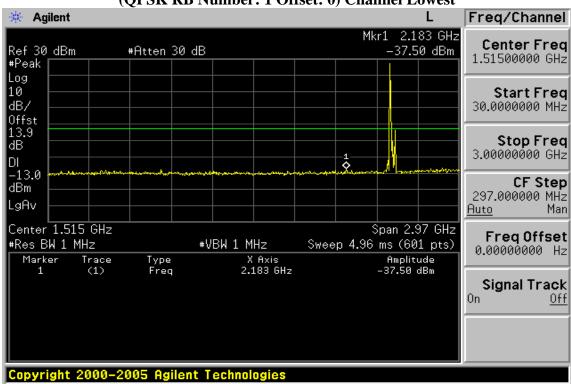
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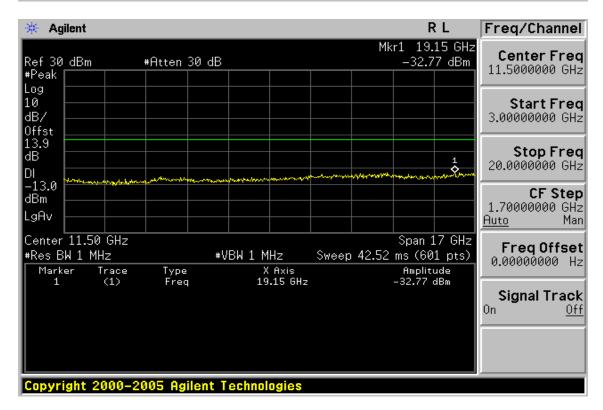
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#### Out of Band emission at antenna terminals-20MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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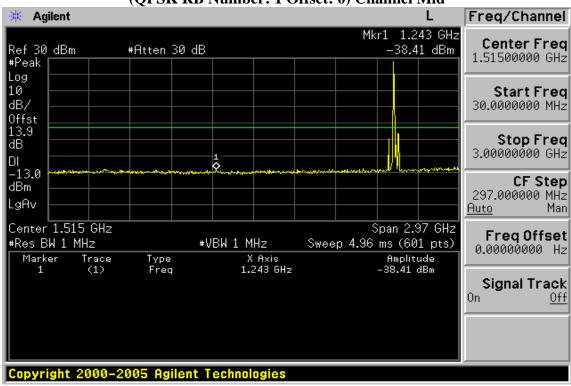
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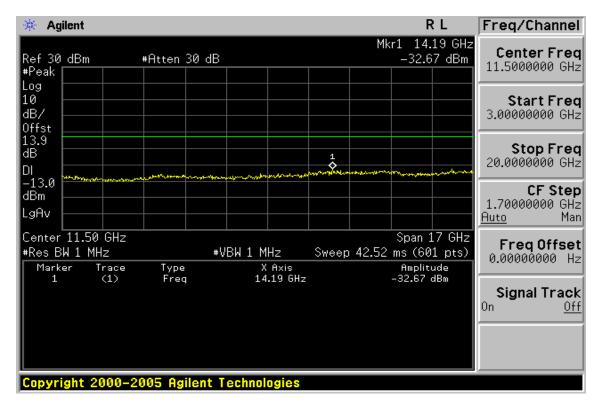
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#### Out of Band emission at antenna terminals-20MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Mid





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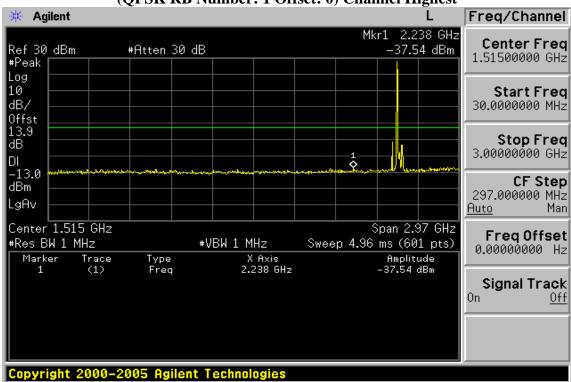
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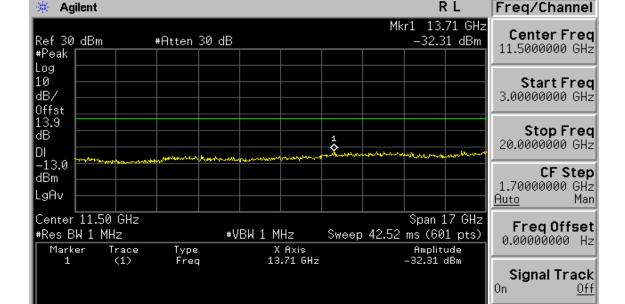
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#### Out of Band emission at antenna terminals-20MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest





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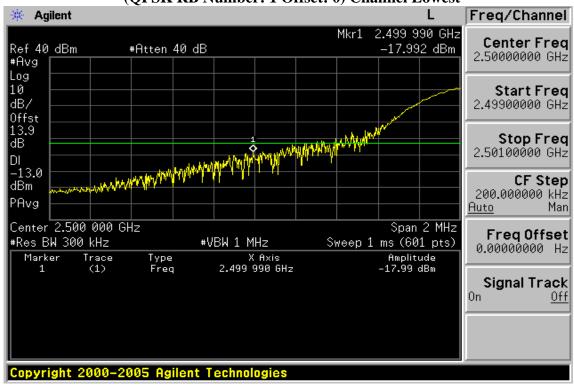
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## Band edge emission at antenna terminals -20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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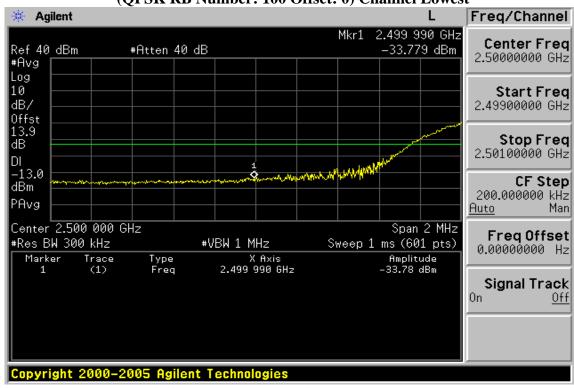
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# Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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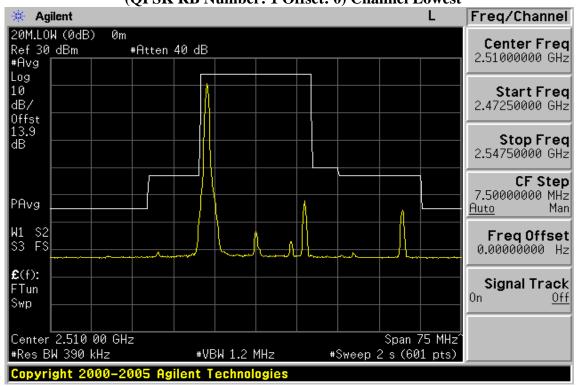
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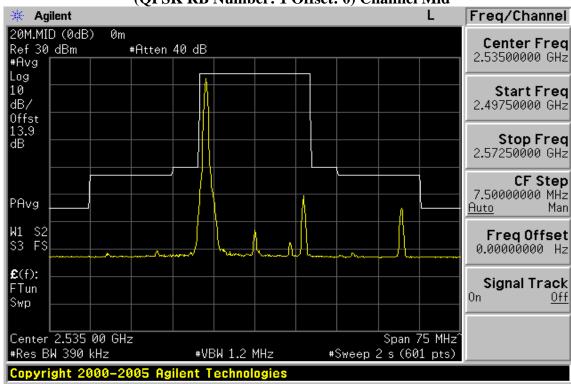
Report No.: ER/2015/40157 **Issue Date: Jun. 22, 2015** 

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#### Emission Mask at antenna terminals –20MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Lowest



## Emission Mask at antenna terminals -20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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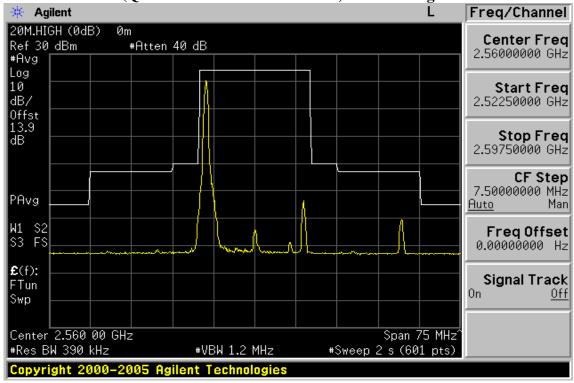
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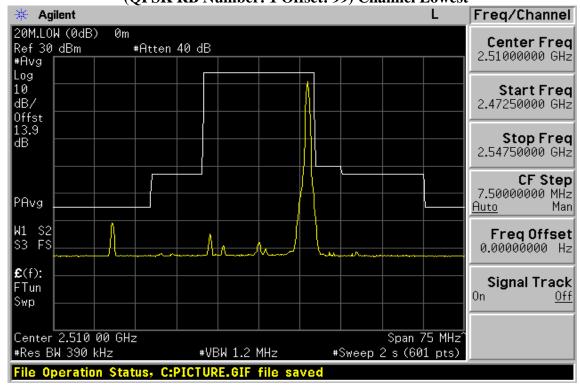
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### Emission Mask at antenna terminals –20MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 0) Channel Highest



## Emission Mask at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Lowest



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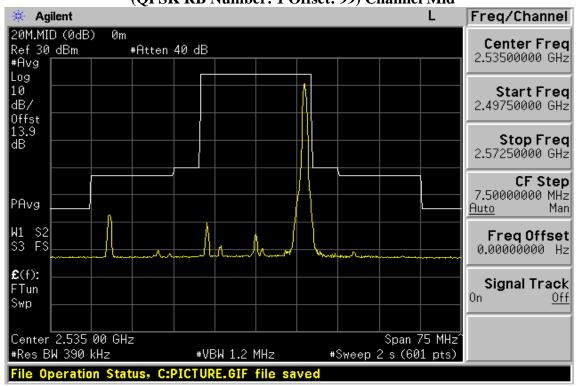
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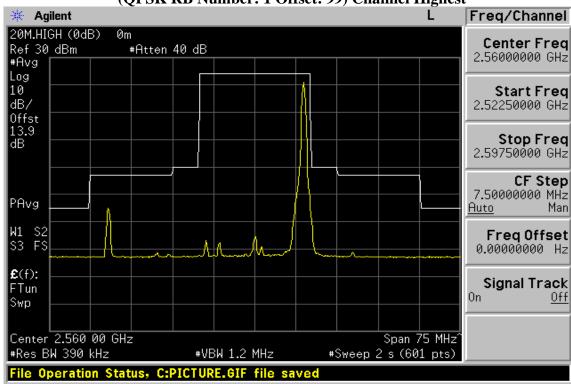


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#### Emission Mask at antenna terminals –20MHz BW LTE-Band 7 (OPSK RB Number: 1 Offset: 99) Channel Mid



## Emission Mask at antenna terminals -20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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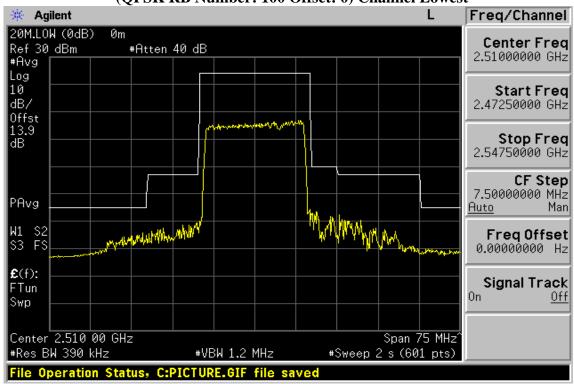
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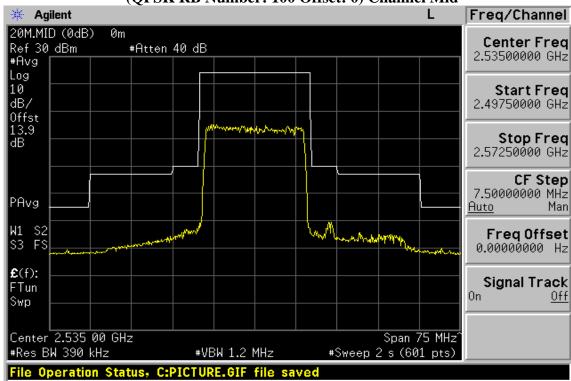


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#### Emission Mask at antenna terminals –20MHz BW LTE-Band 7 (OPSK RB Number: 100 Offset: 0) Channel Lowest



## Emission Mask at antenna terminals -20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Mid



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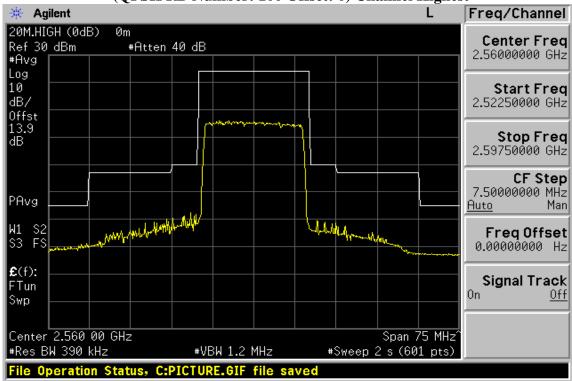
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## Emission Mask at antenna terminals -20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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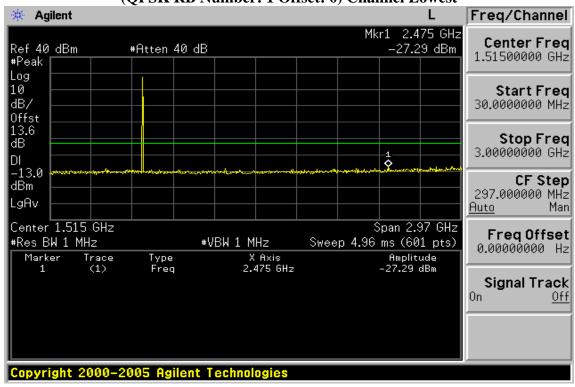
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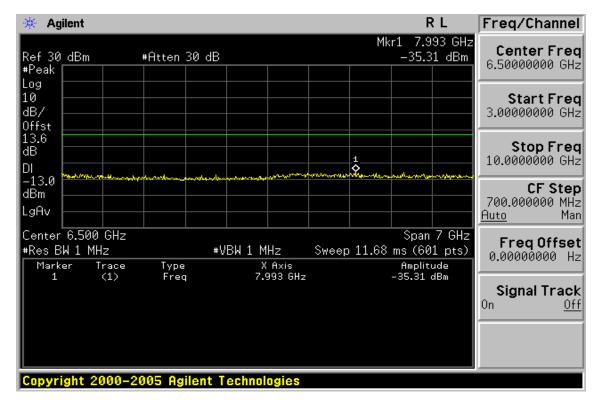


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## Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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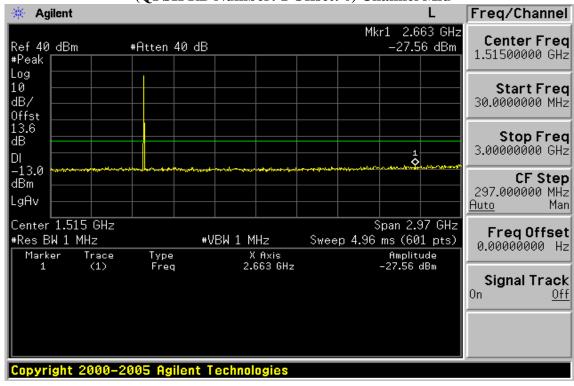
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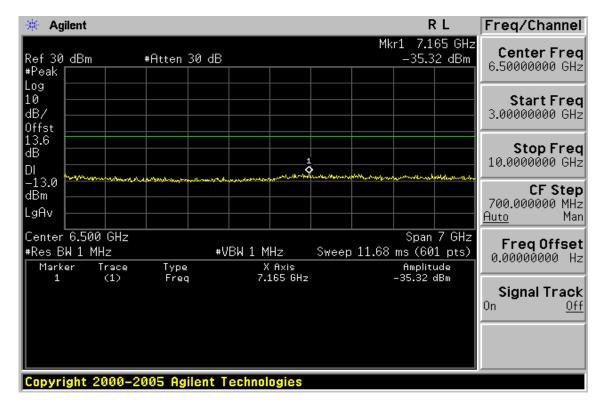
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#### Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Mid





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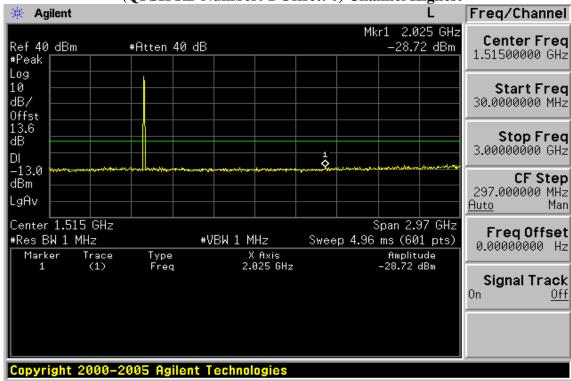
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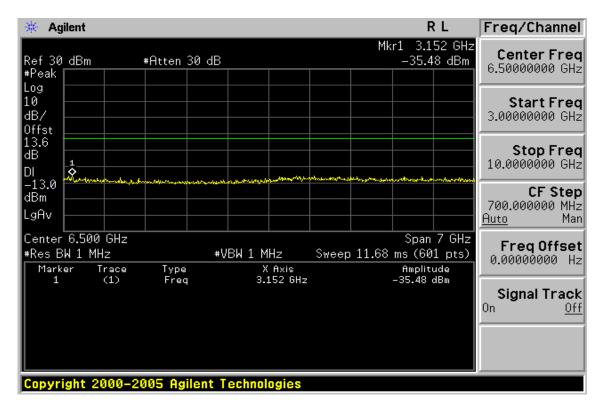
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## Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Highest





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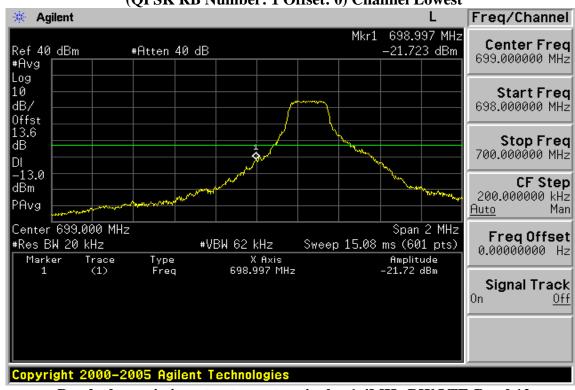
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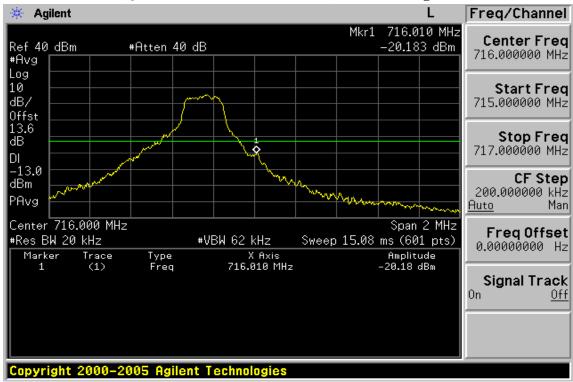


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# Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 5) Channel Highest



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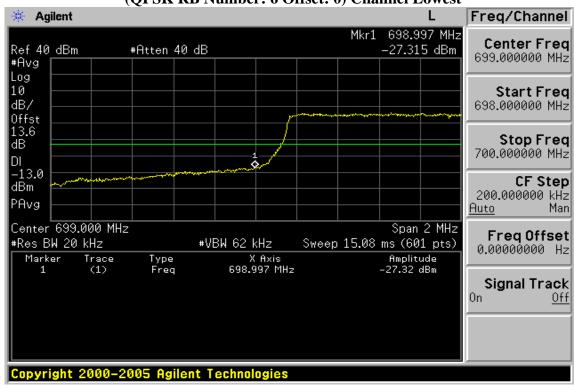
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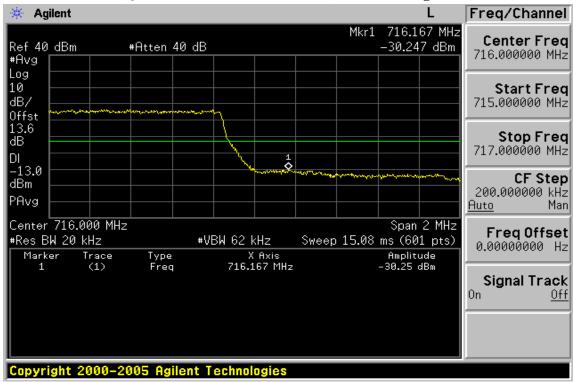


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## Band edge emission at antenna terminals -1.4MHz BW LTE-Band 12 (QPSK RB Number: 6 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -1.4MHz BW LTE-Band 12 (QPSK RB Number: 6 Offset: 0) Channel Highest



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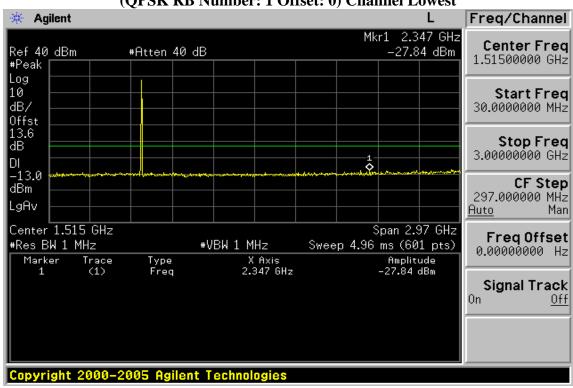
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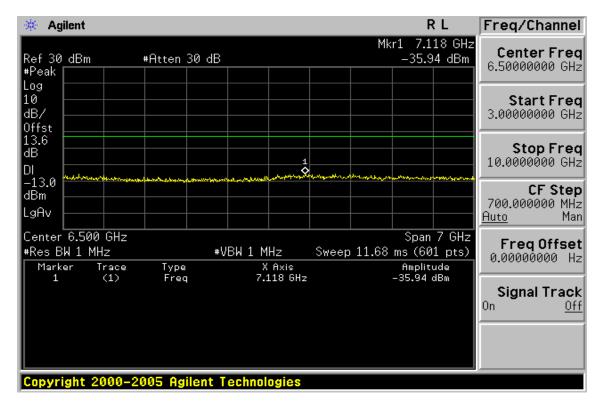
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## Out of Band emission at antenna terminals-3MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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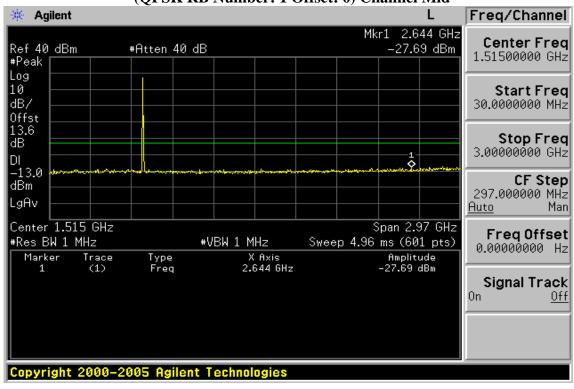
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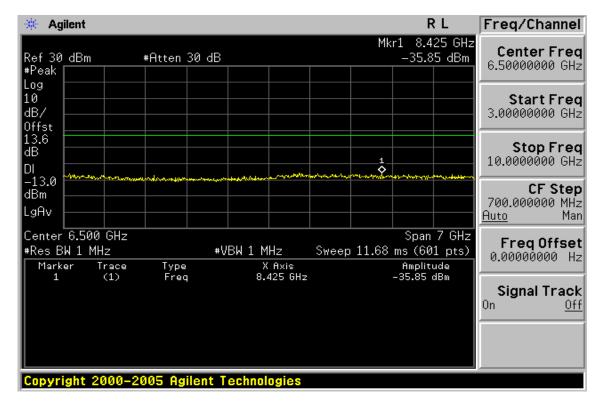
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### Out of Band emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid





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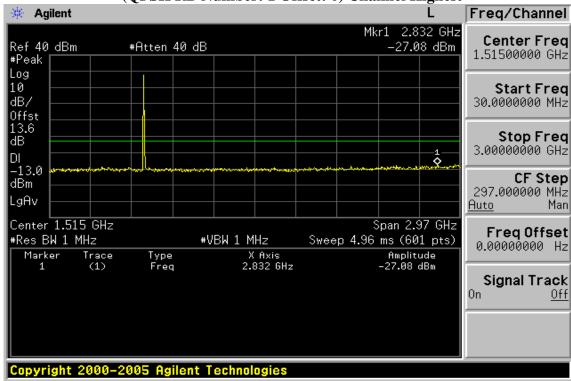
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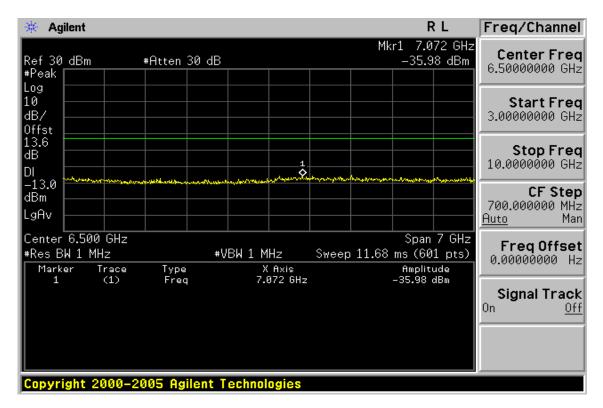
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## Out of Band emission at antenna terminals—3MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Highest





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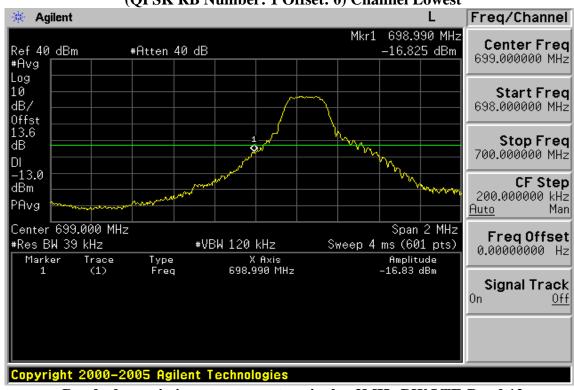
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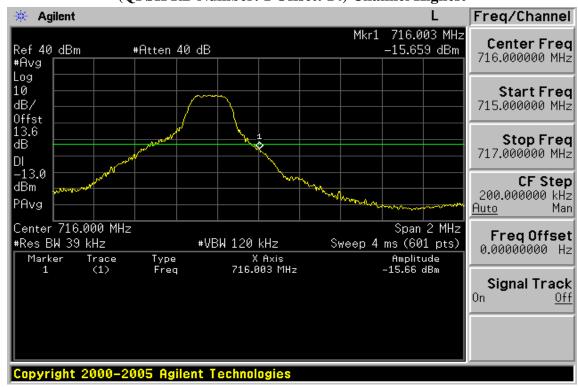


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## Band edge emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -3MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 14) Channel Highest



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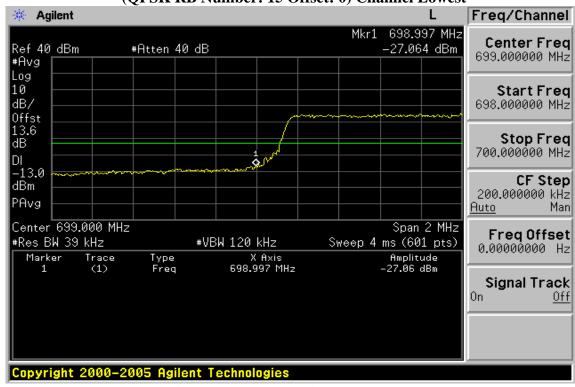
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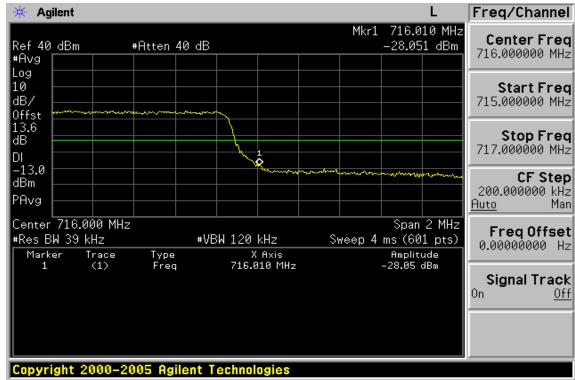


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## Band edge emission at antenna terminals –3MHz BW LTE-Band 12 (QPSK RB Number: 15 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals -3MHz BW LTE-Band 12 (QPSK RB Number: 15 Offset: 0) Channel Highest



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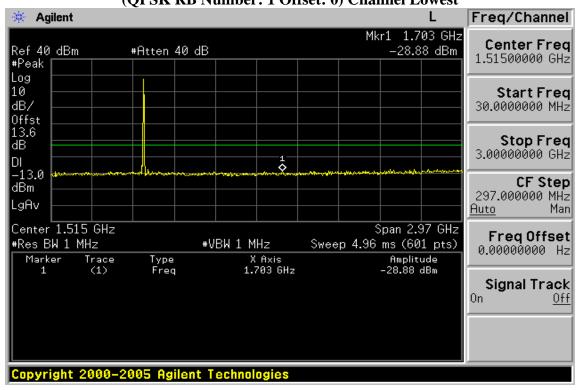
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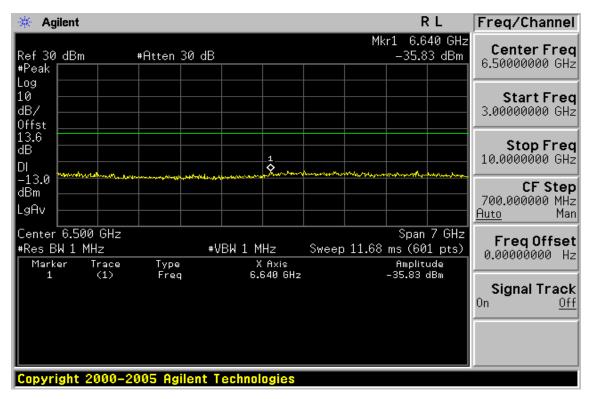
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## Out of Band emission at antenna terminals-5MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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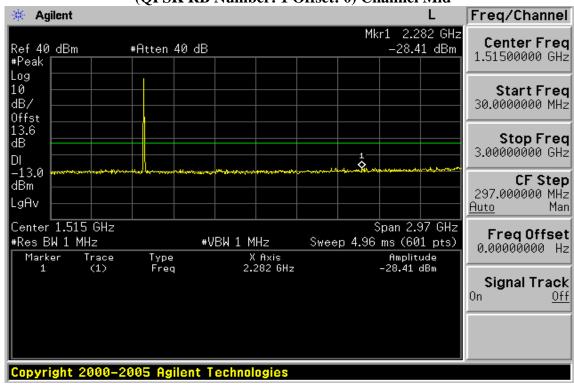
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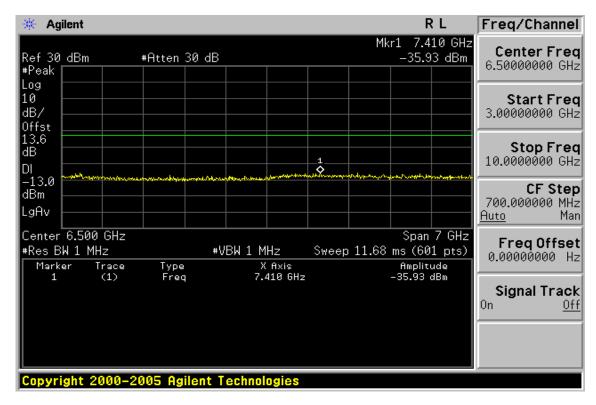
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### Out of Band emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid





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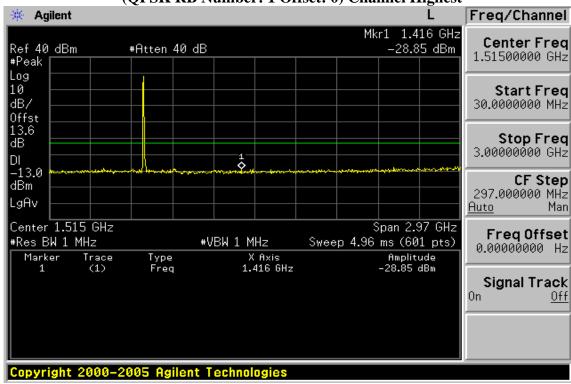
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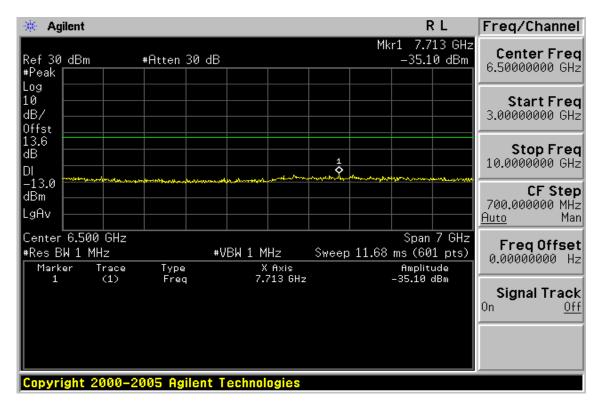
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## Out of Band emission at antenna terminals-5MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Highest





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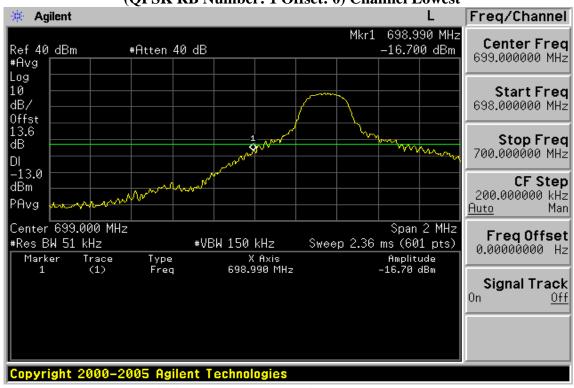
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# Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 24) Channel Highest



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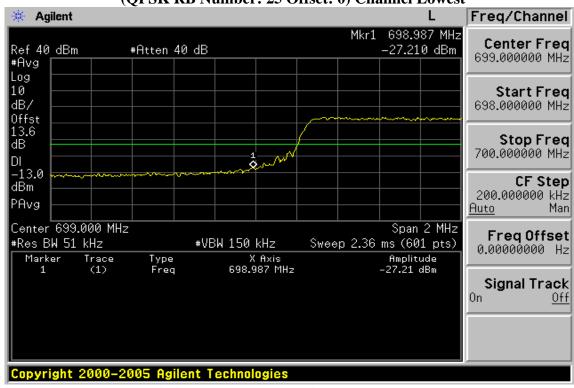
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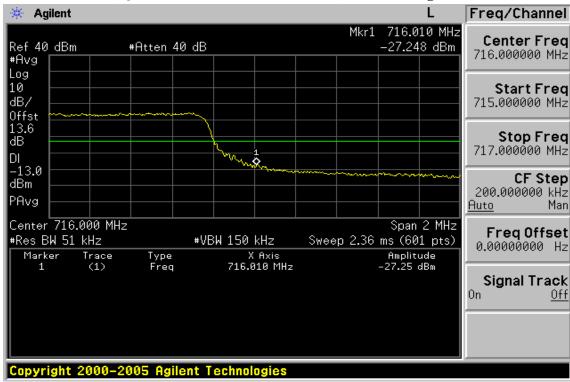


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# Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 25 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –5MHz BW LTE-Band 12 (QPSK RB Number: 25 Offset: 0) Channel Highest



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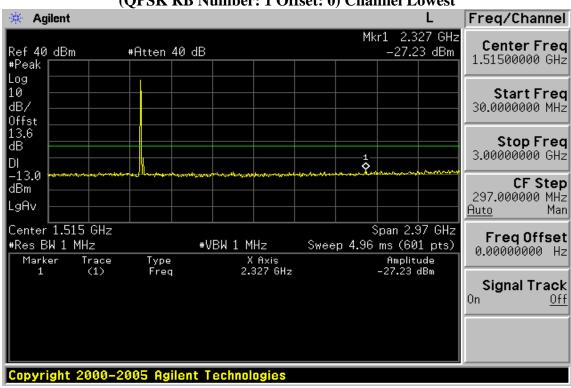
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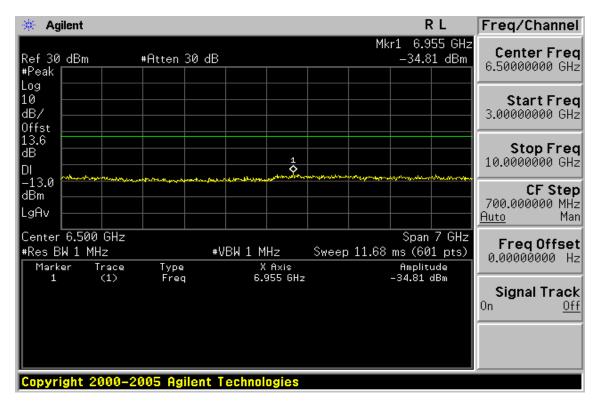


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## Out of Band emission at antenna terminals-10MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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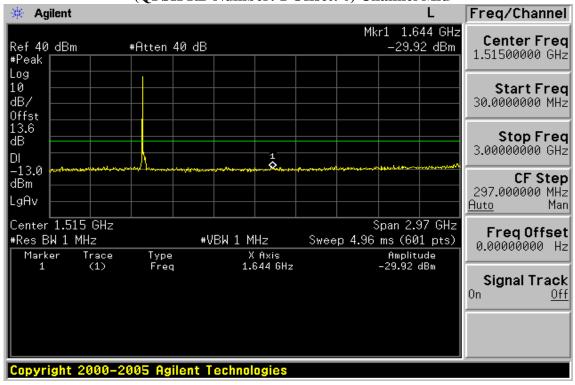
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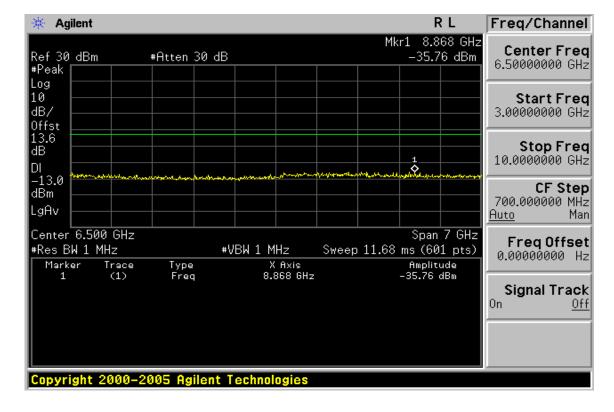
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## Out of Band emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Mid





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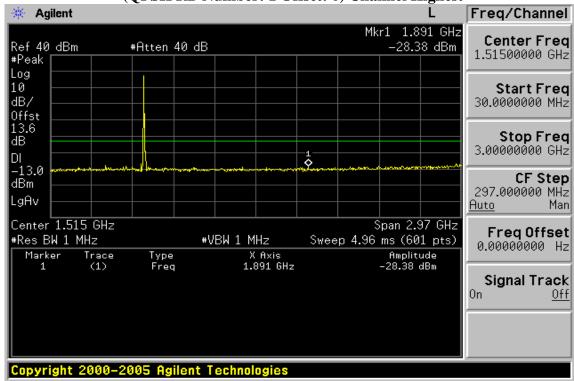
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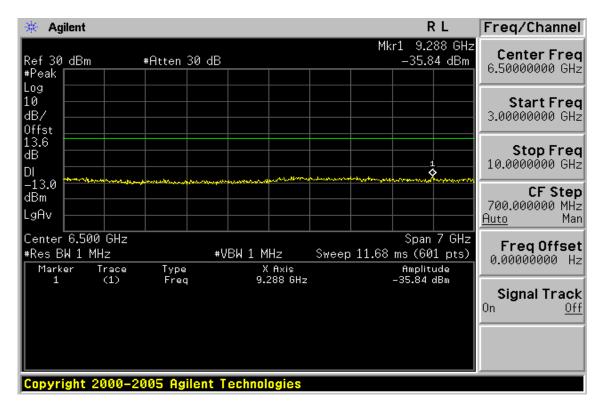
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## Out of Band emission at antenna terminals—10MHz BW LTE-Band 12 (OPSK RB Number: 1 Offset: 0) Channel Highest





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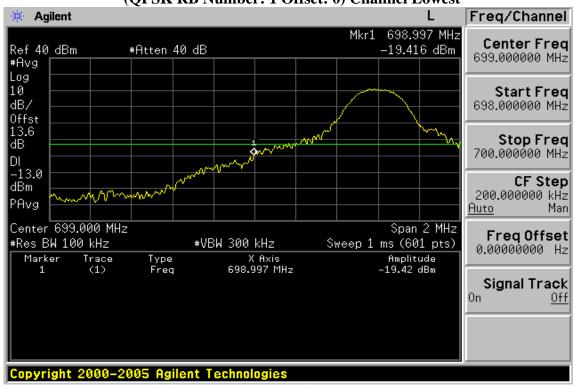
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# Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 1 Offset: 49) Channel Highest



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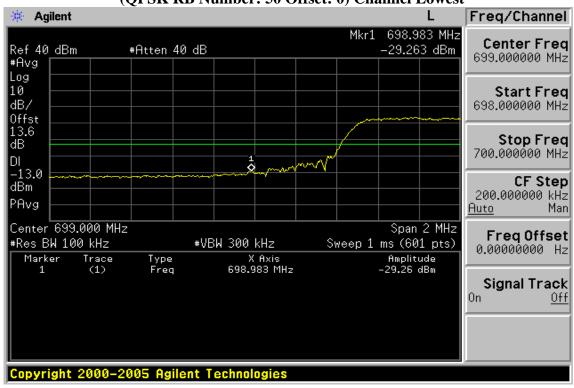
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# Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel Lowest



# Band edge emission at antenna terminals –10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel Highest



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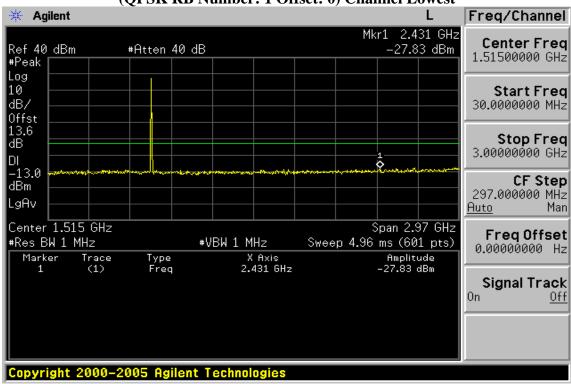
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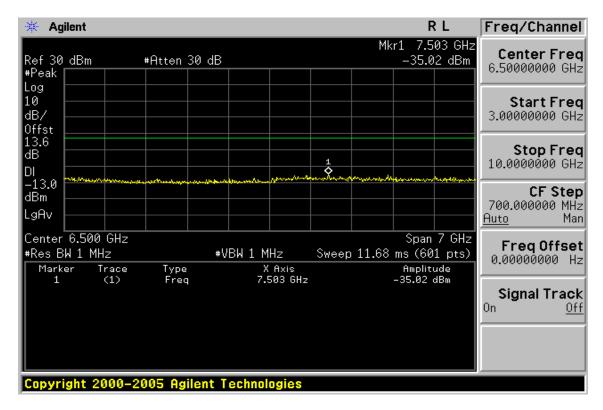
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### Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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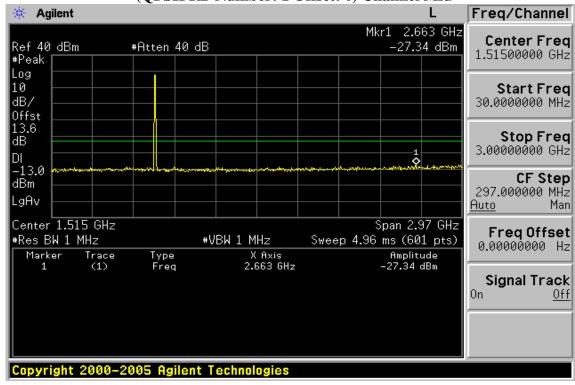
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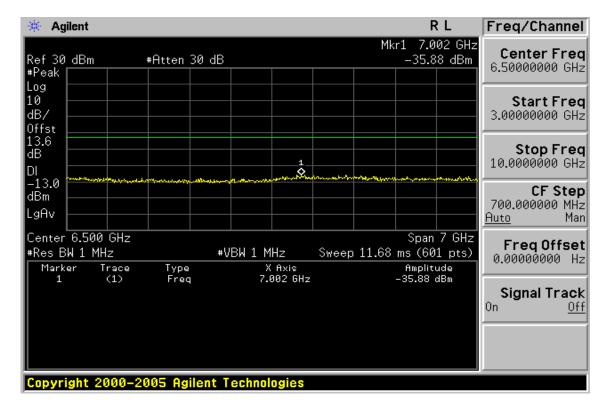
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## Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid





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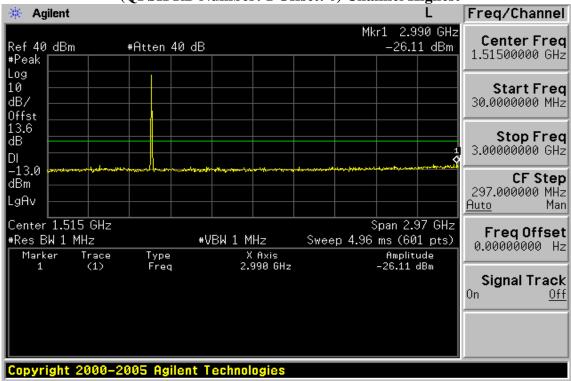
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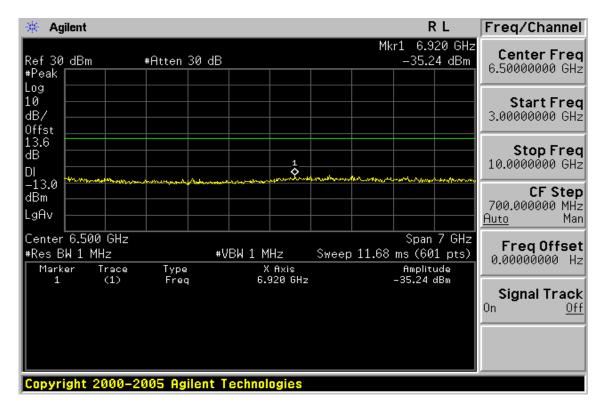
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## Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Highest





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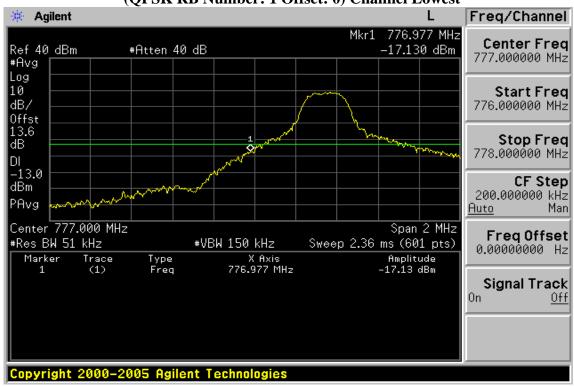
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### Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest



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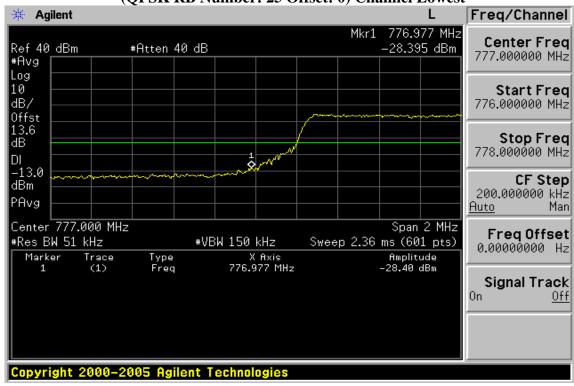
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# Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -5MHz BW LTE-Band 13 (OPSK RB Number: 25 Offset: 0) Channel Highest



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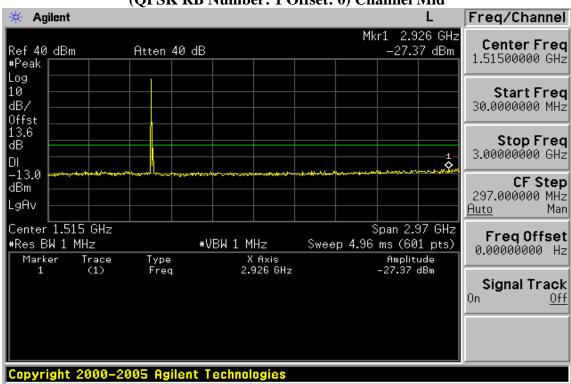
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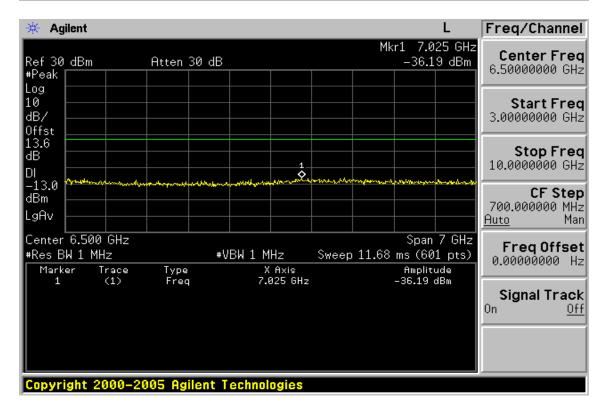


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#### Out of Band emission at antenna terminals-10MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Mid





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### Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Highest



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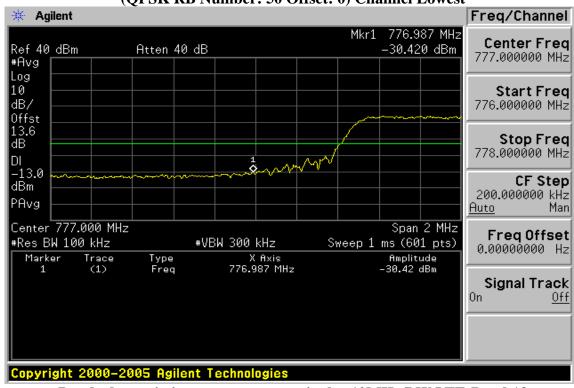
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# Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Highest



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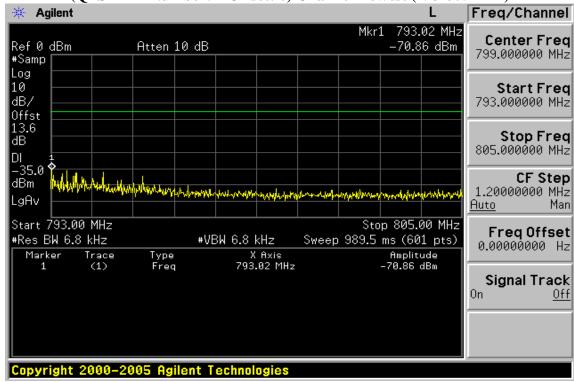


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# Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)



### Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)



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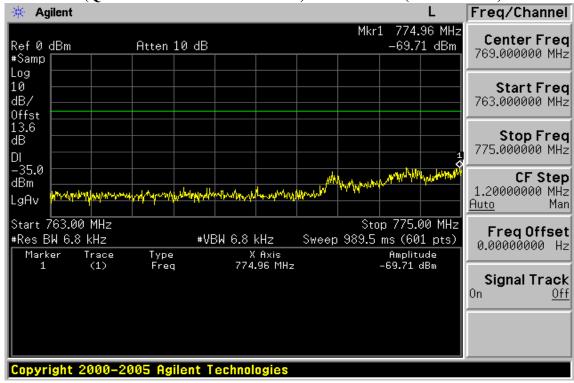
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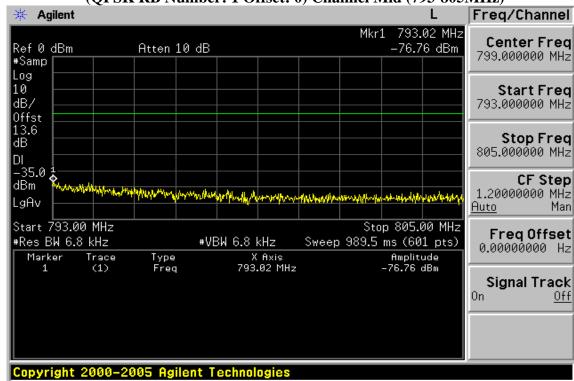


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#### Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



### Out of Band emission at antenna terminals -5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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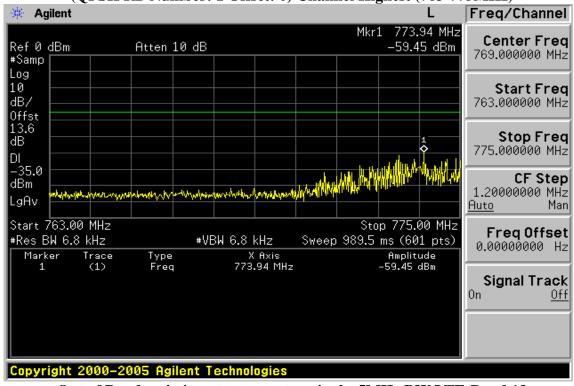
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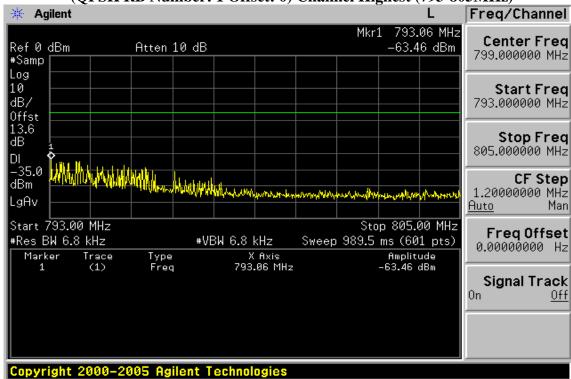


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### Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)



### Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)



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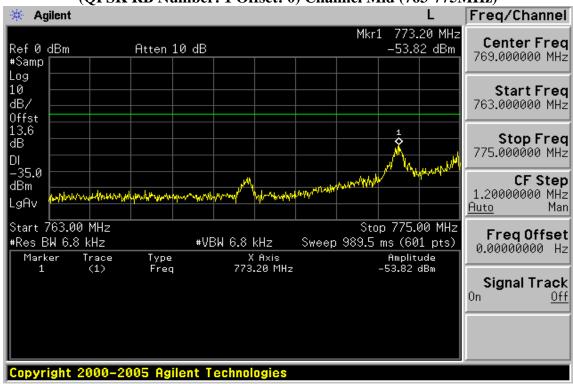
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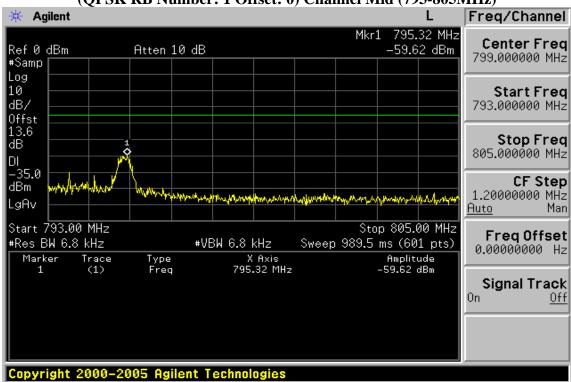
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### Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



### Out of Band emission at antenna terminals—10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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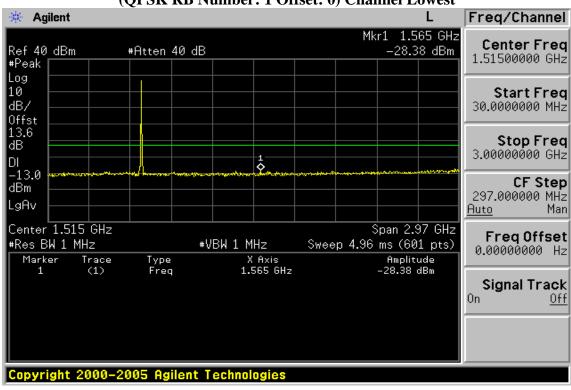
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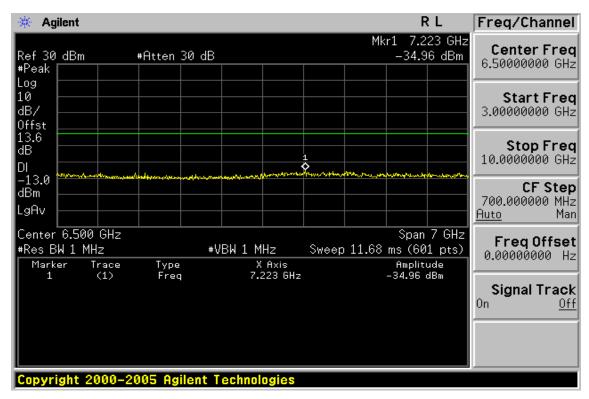
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### Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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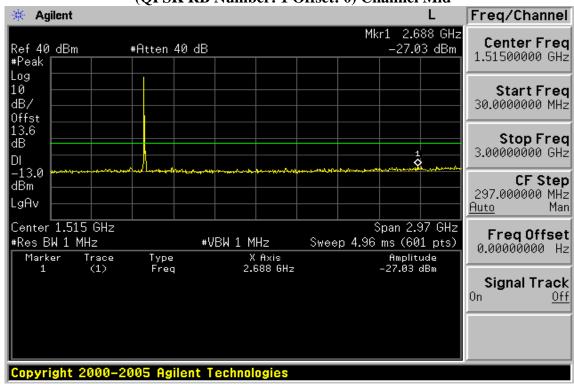
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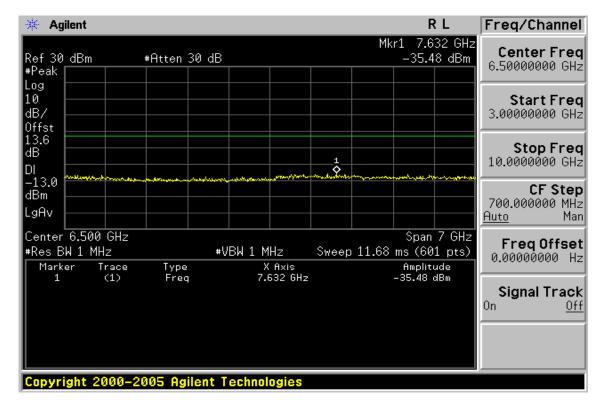
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#### Out of Band emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid





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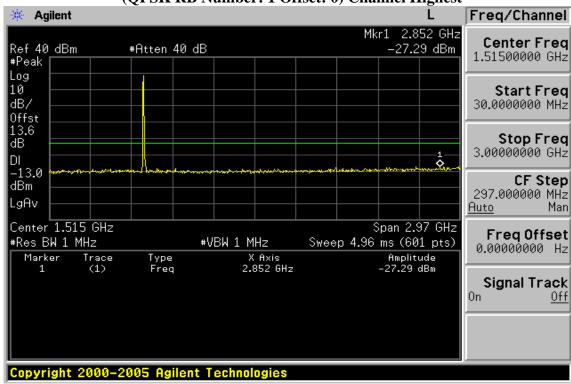
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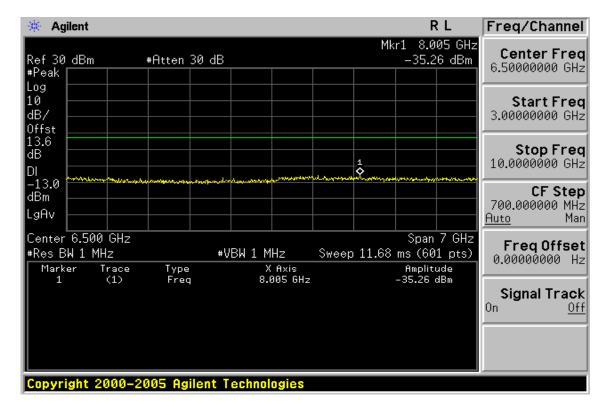
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### Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (OPSK RB Number: 1 Offset: 0) Channel Highest





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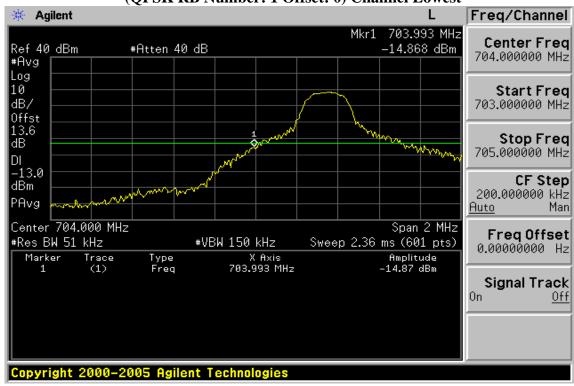
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### Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



### Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest



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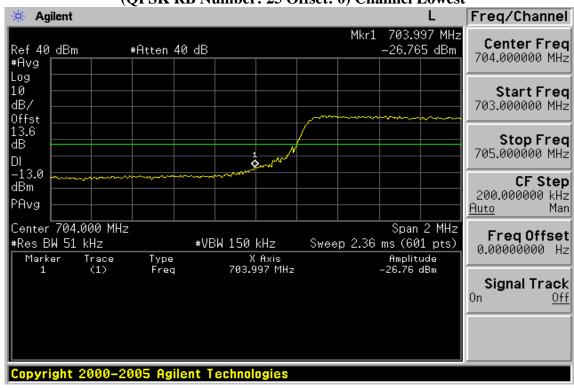
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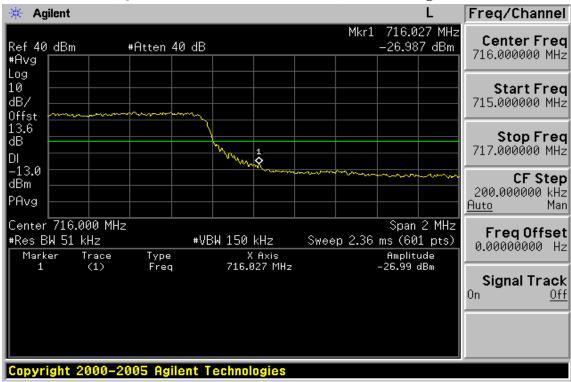


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### Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Highest



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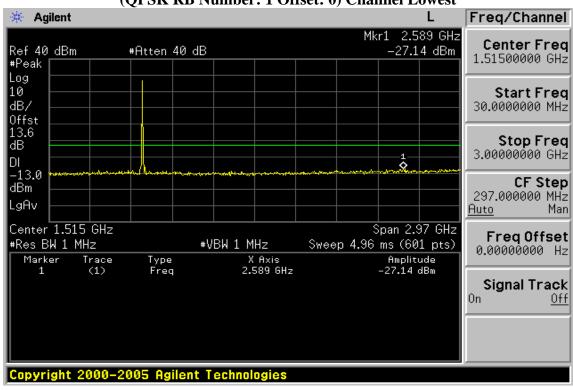
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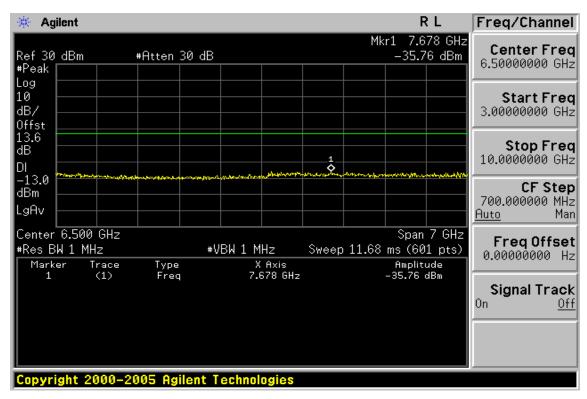
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### Out of Band emission at antenna terminals-10MHz BW LTE-Band 17 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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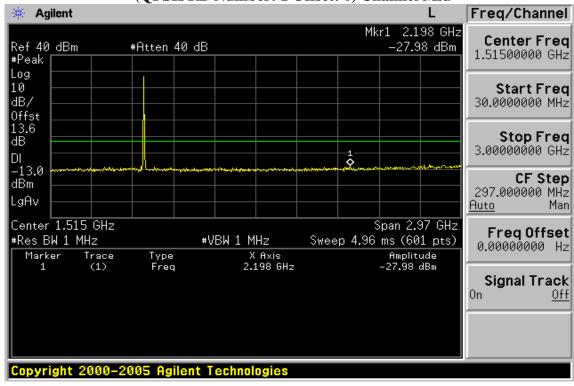
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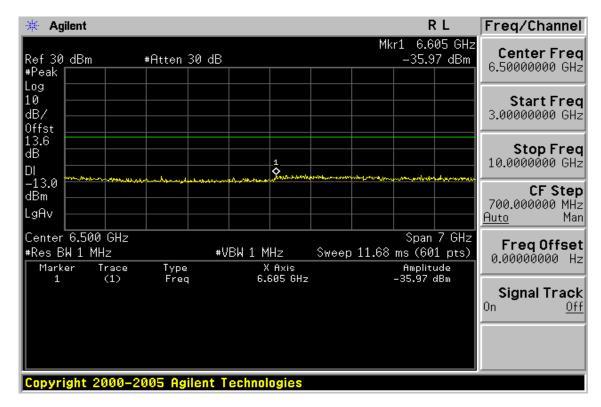
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#### Out of Band emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid





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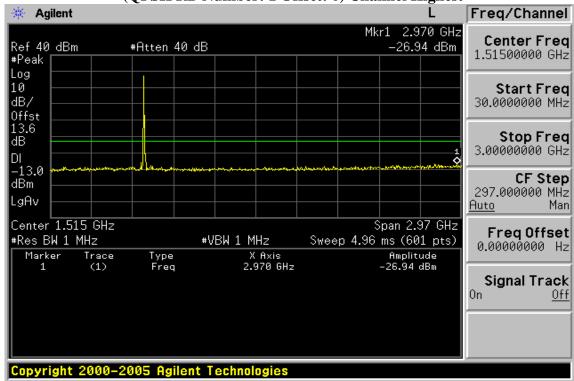
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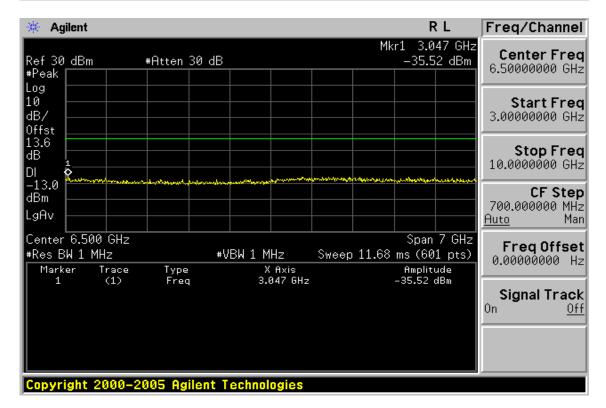
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### Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (OPSK RB Number: 1 Offset: 0) Channel Highest





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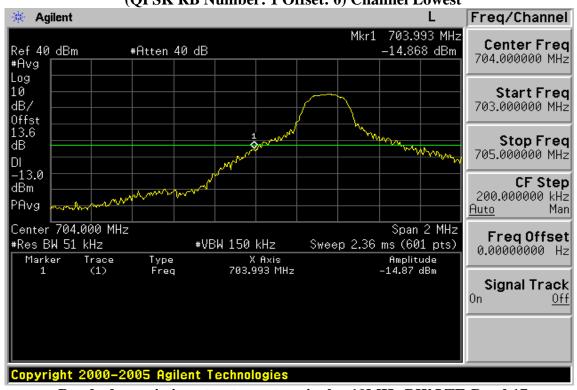
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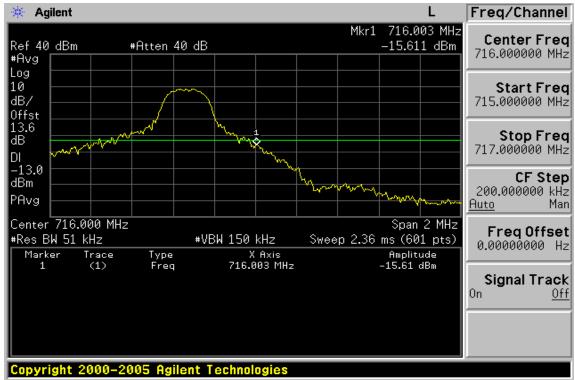


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### Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



## Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest



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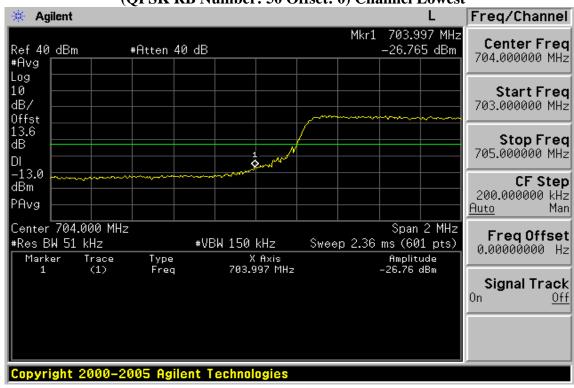
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### Band edge emission at antenna terminals -10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Lowest



### Band edge emission at antenna terminals -10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Highest



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