9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h), §90.691(a)(1)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;

Band Edge Measurement:

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.

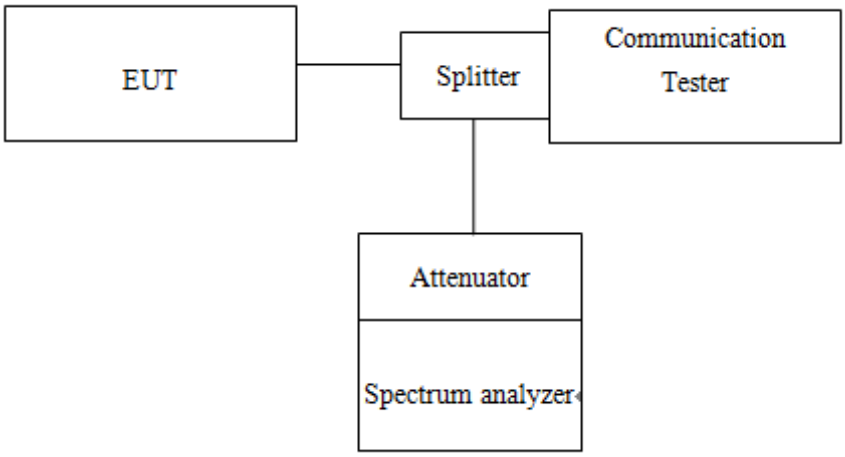
Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission 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.

FCC §90.691(a)(2)

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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9.2. Test SET-UP



9.3. Measurement Procedure

Conducted Emission

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

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

Band Edge

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

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
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

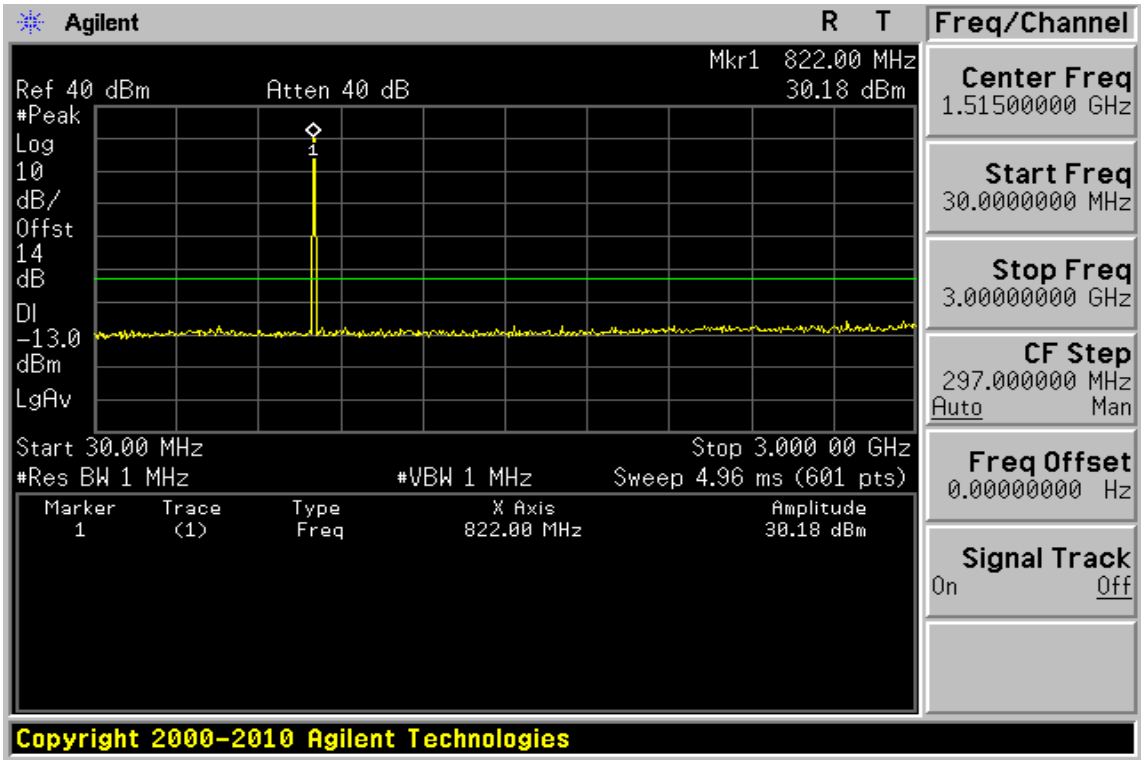
9.5. Measurement Result:

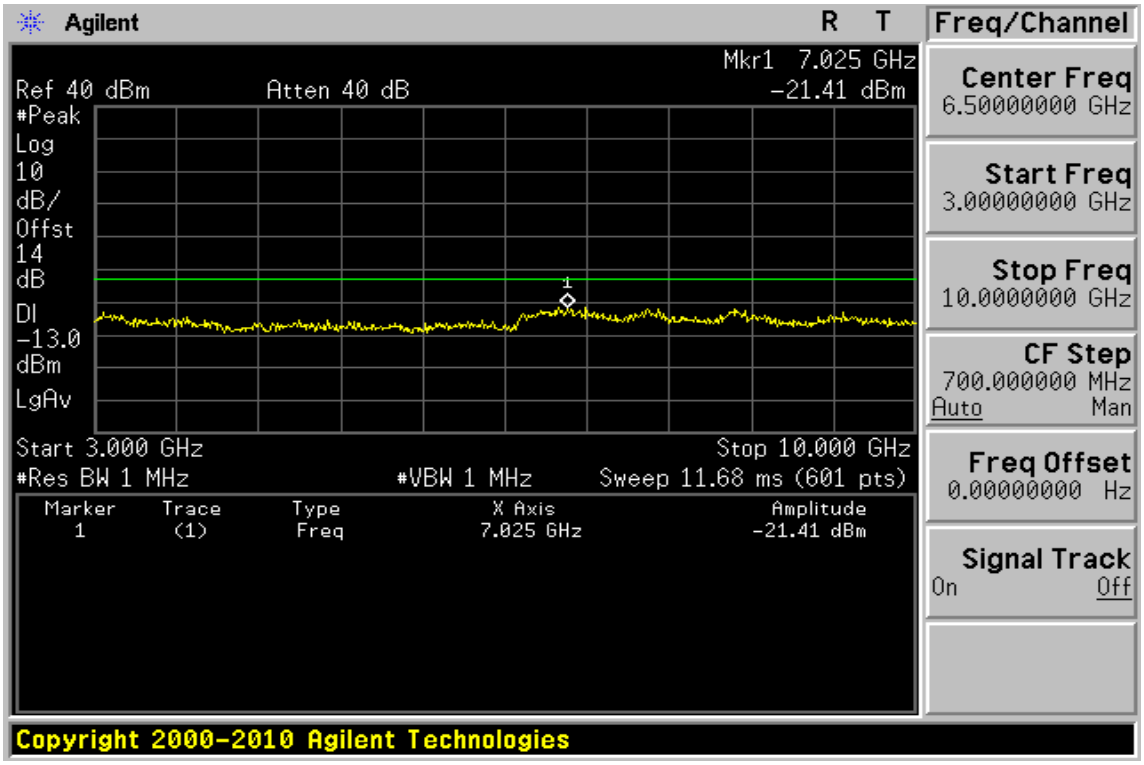
Refer to next pages.

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

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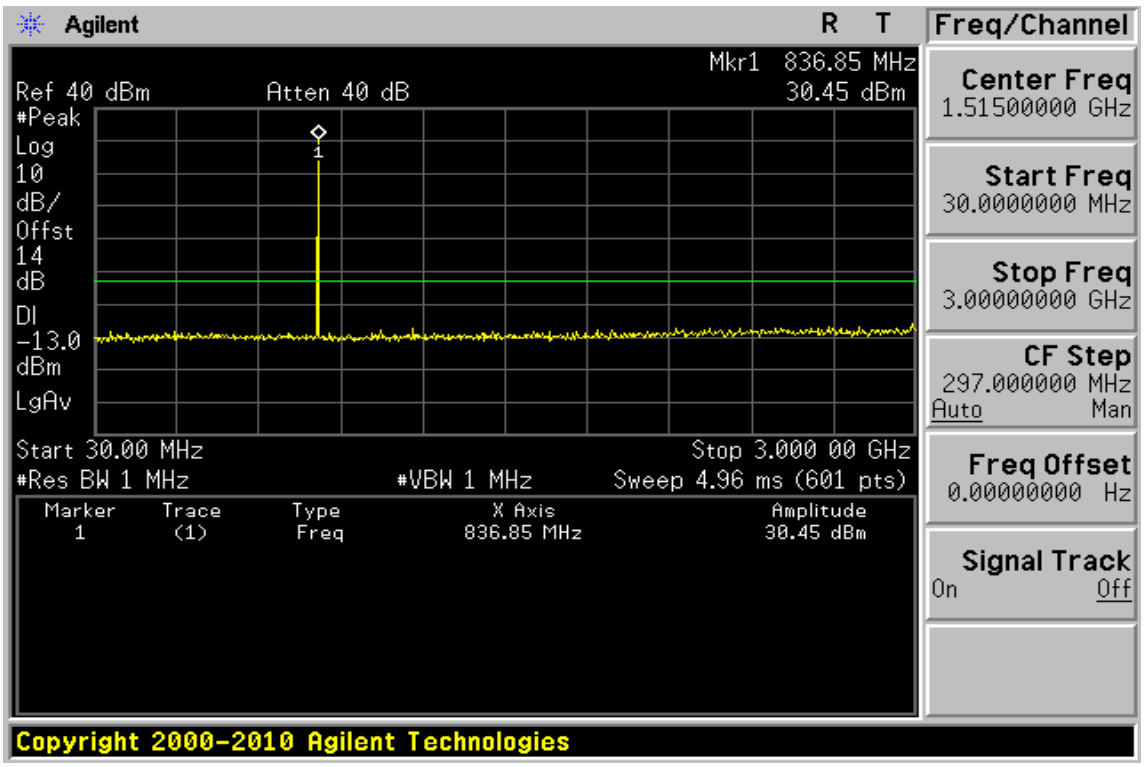
Out of Band emission at antenna terminals – GPRS 850 Channel Lowest

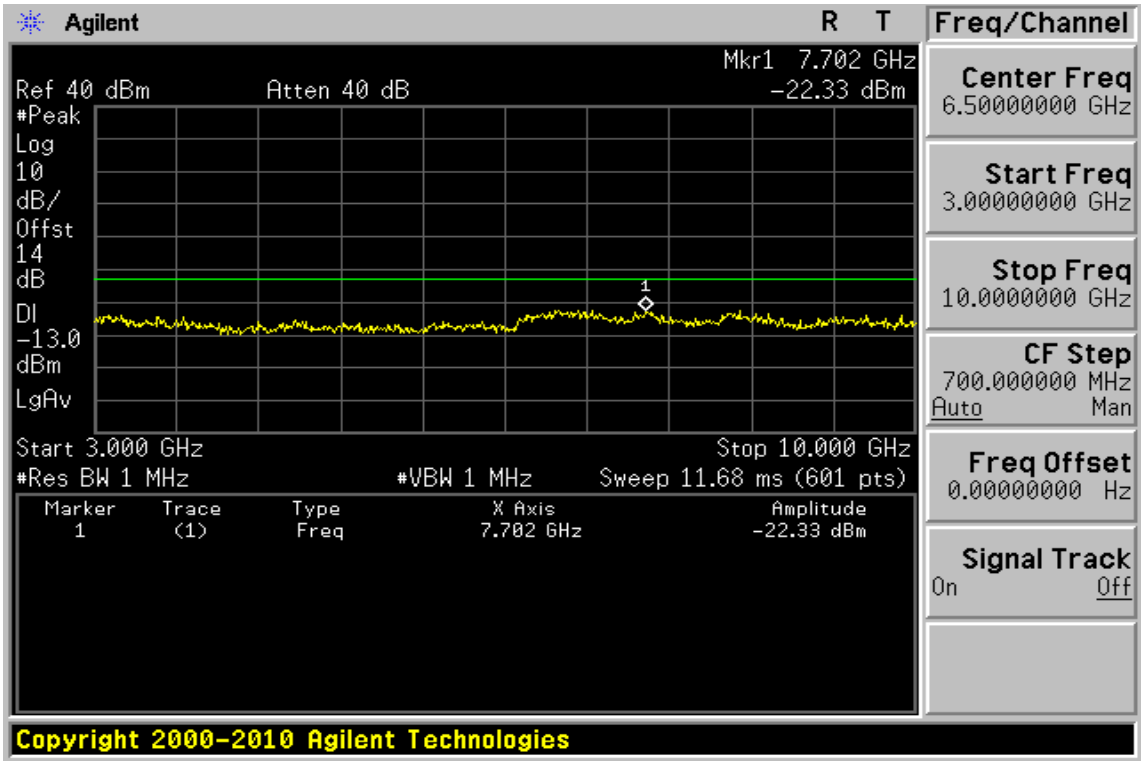




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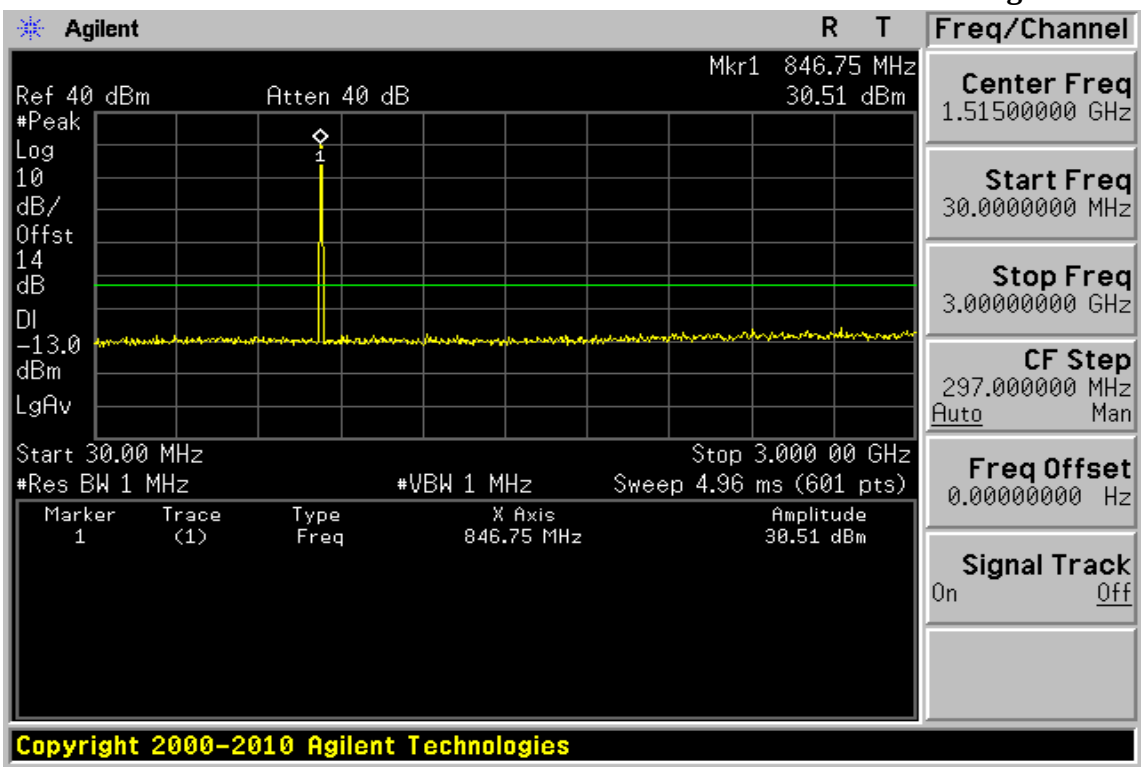
Out of Band emission at antenna terminals – GPRS 850 Channel Mid

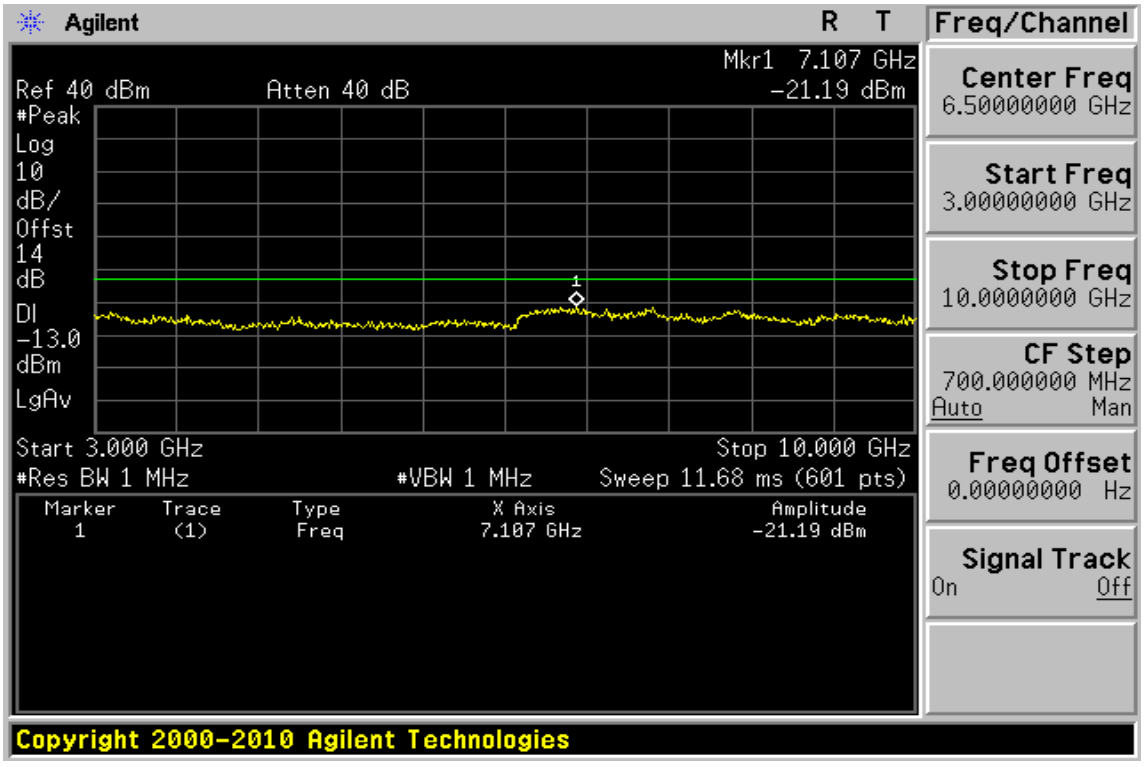




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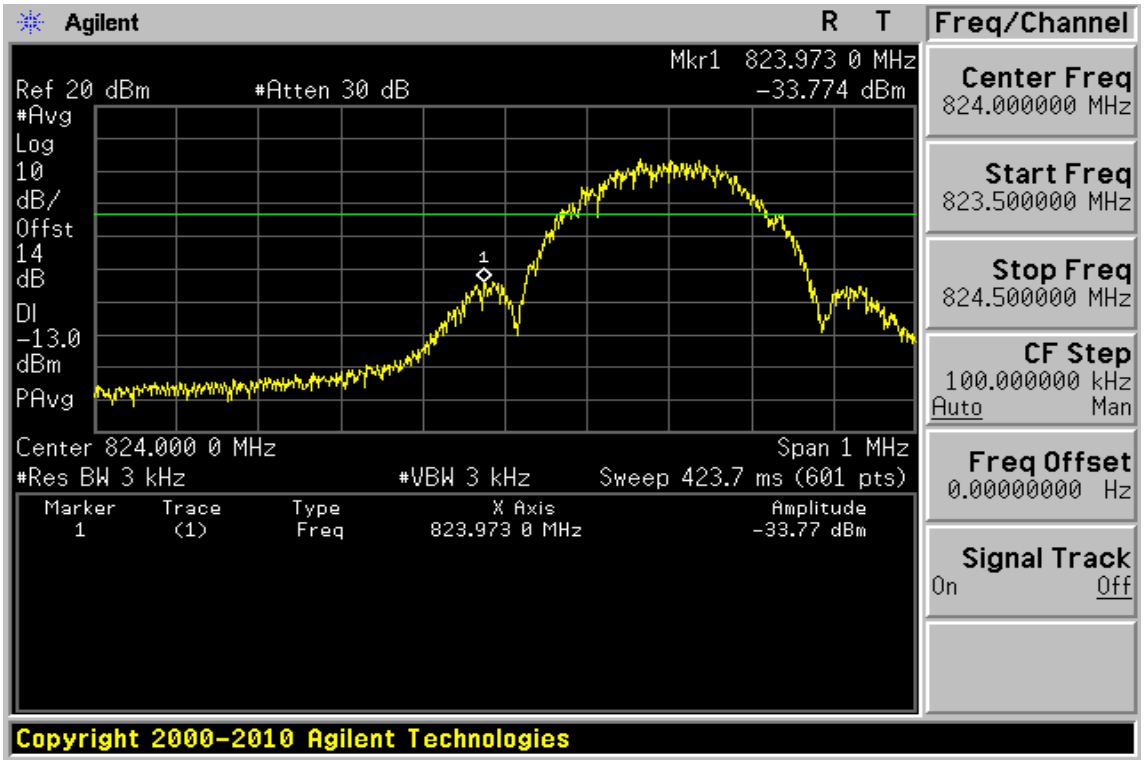
Out of Band emission at antenna terminals – GPRS 850 Channel Highest



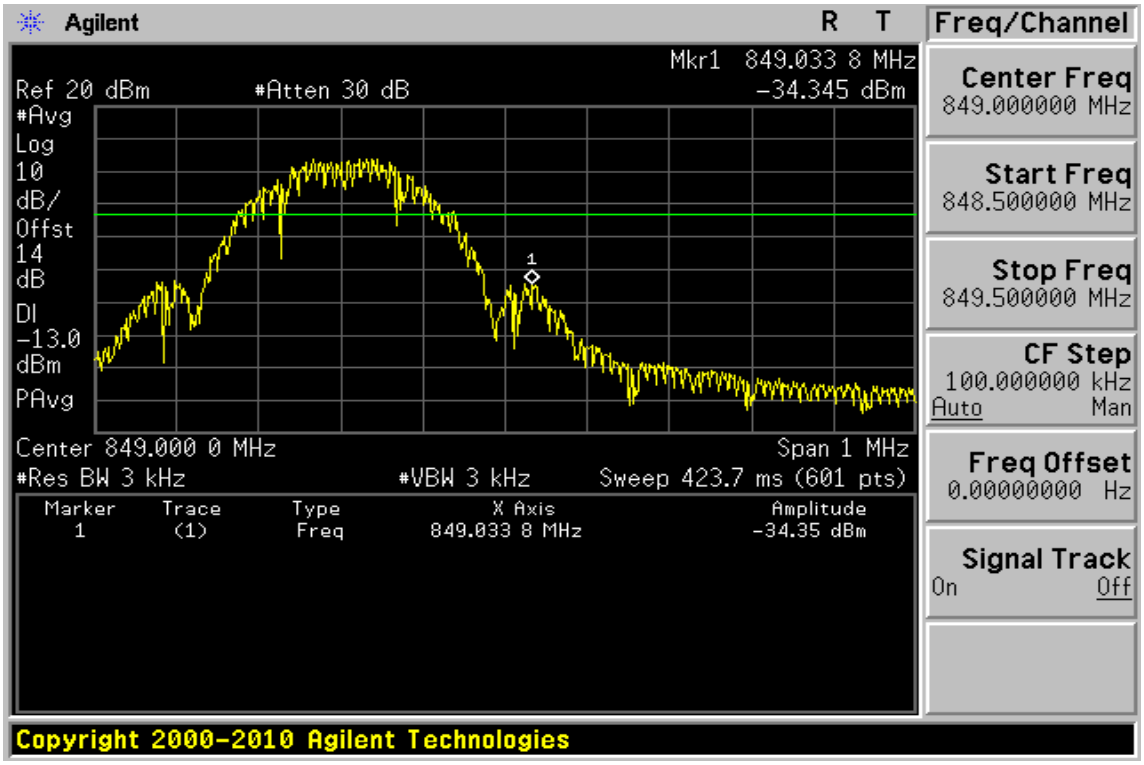


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Band edge emission at antenna terminals – GPRS 850 Channel Lowest

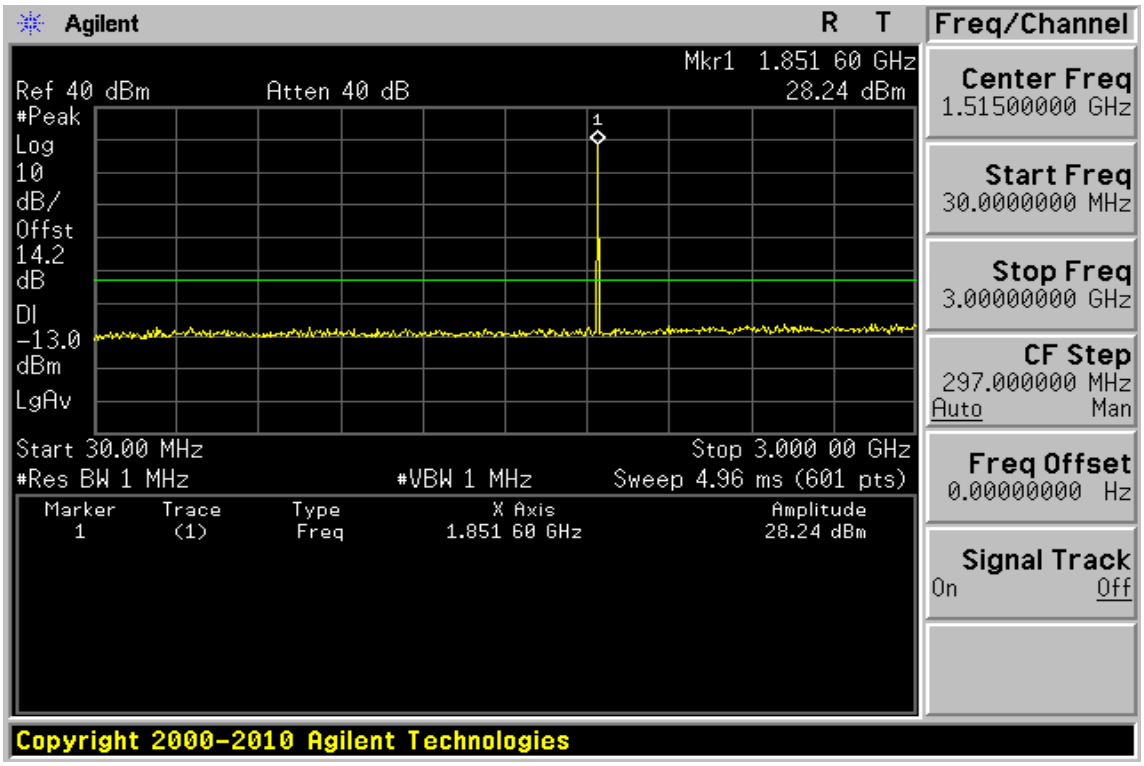


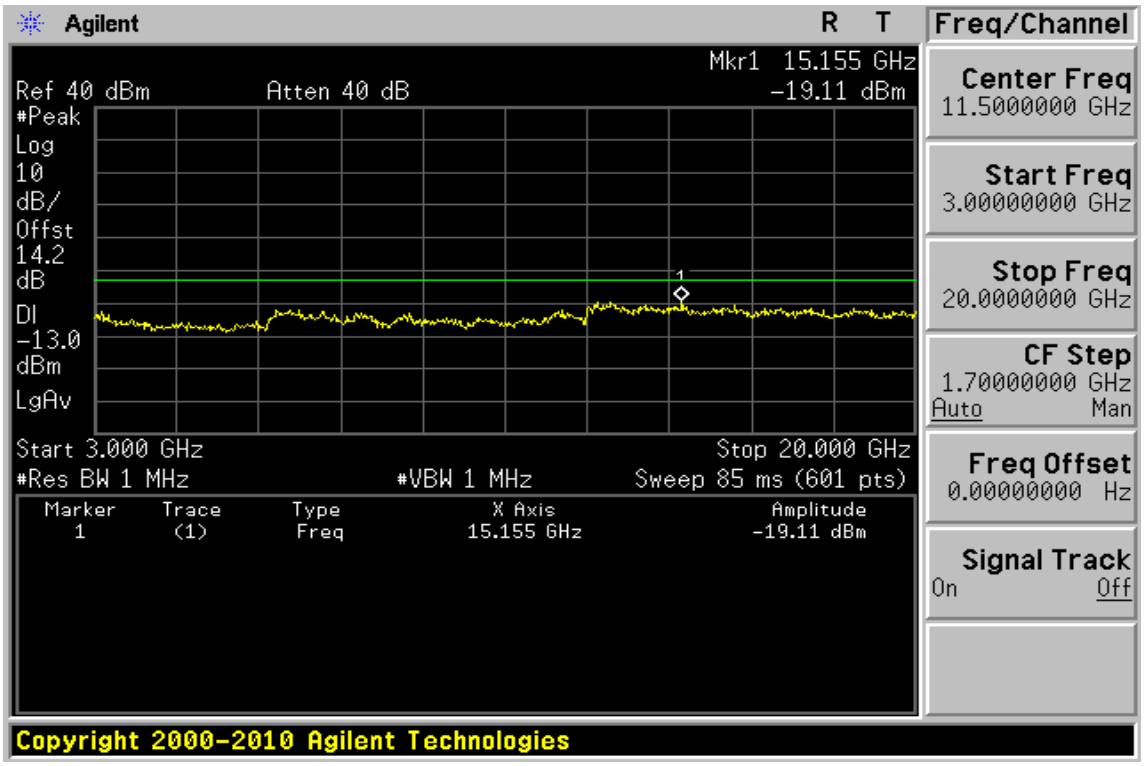
Band edge emission at antenna terminals – GPRS 850 Channel Highest



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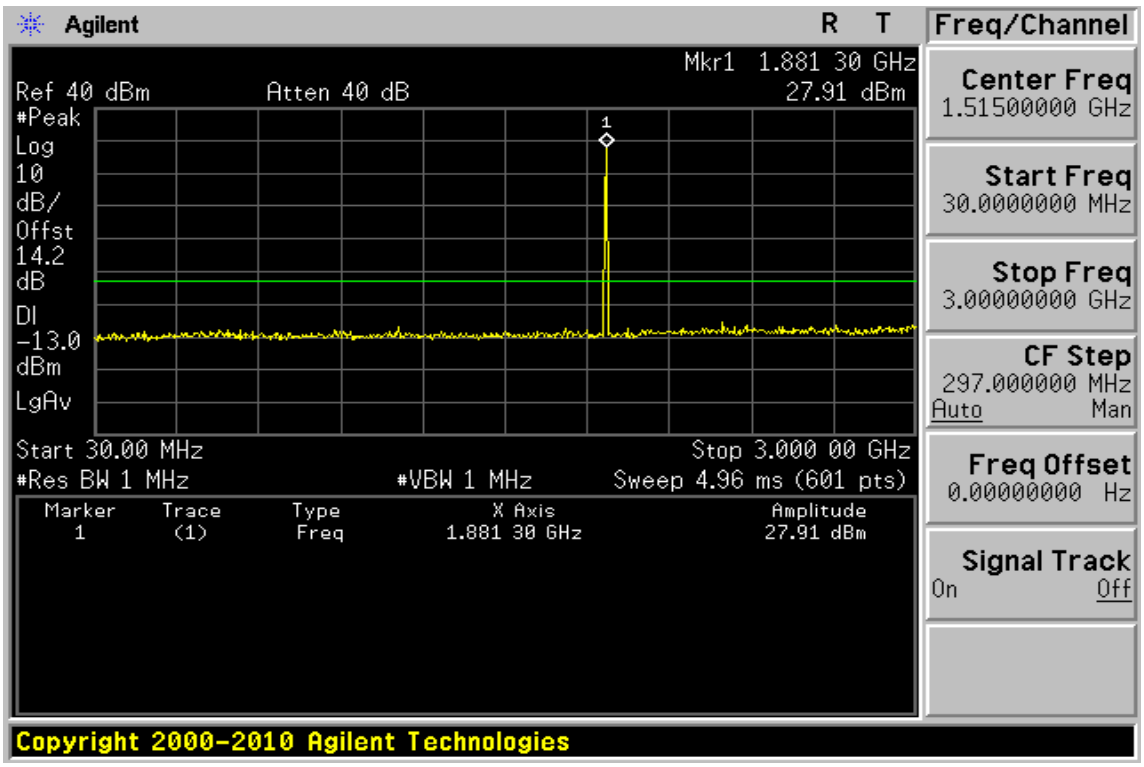
Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

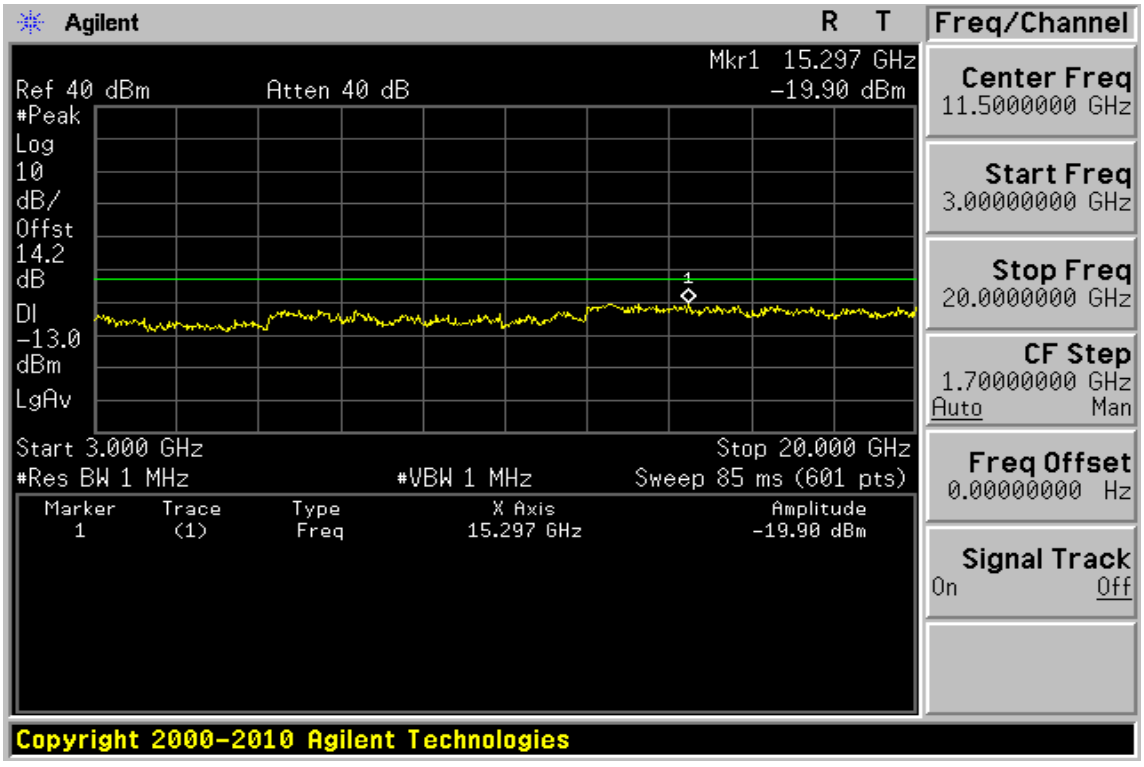




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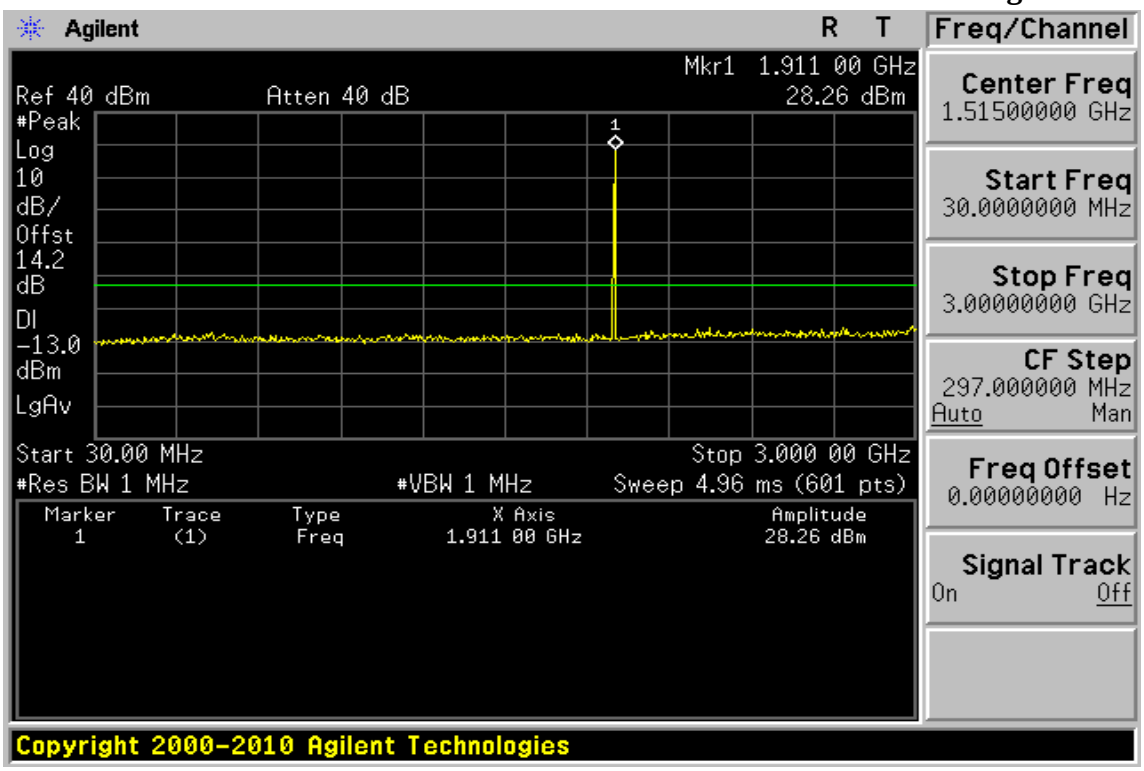
Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

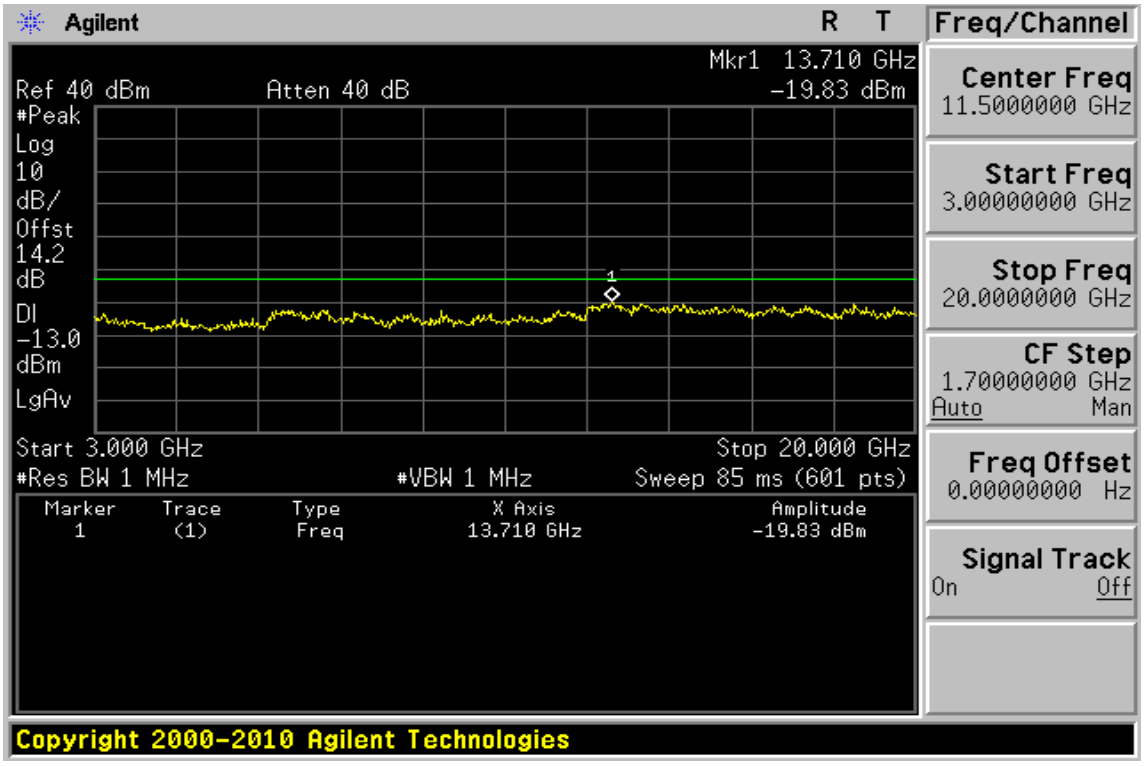




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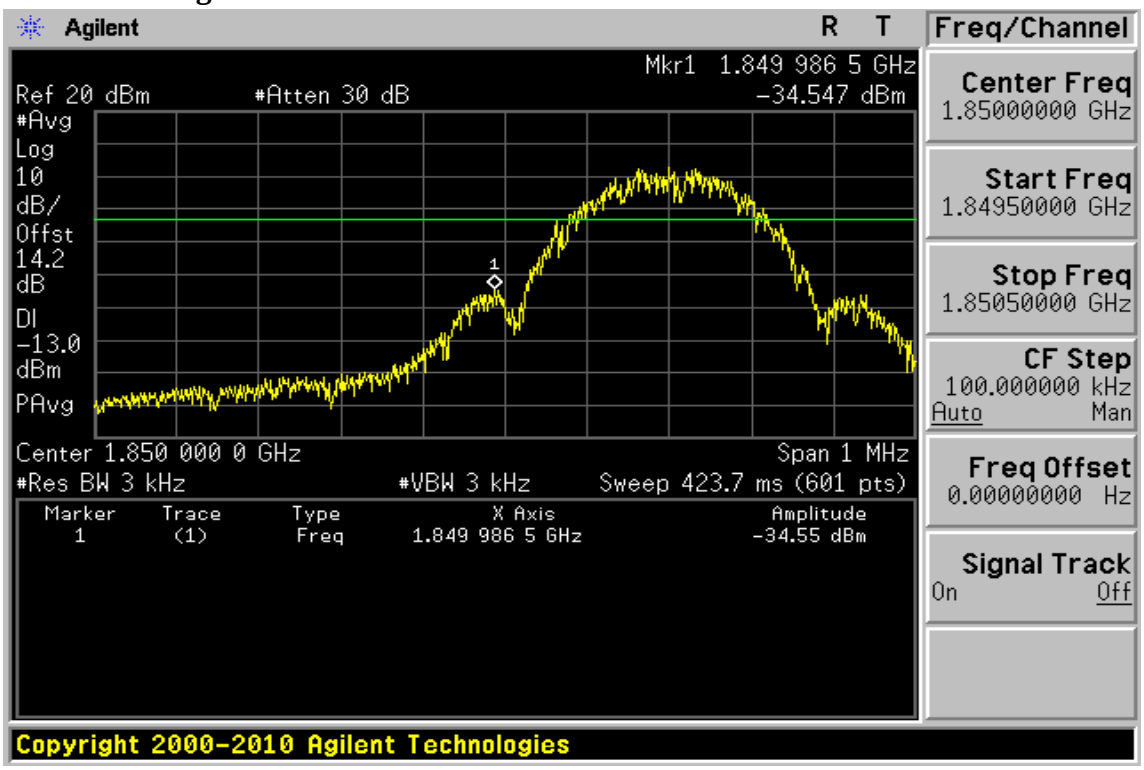
Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



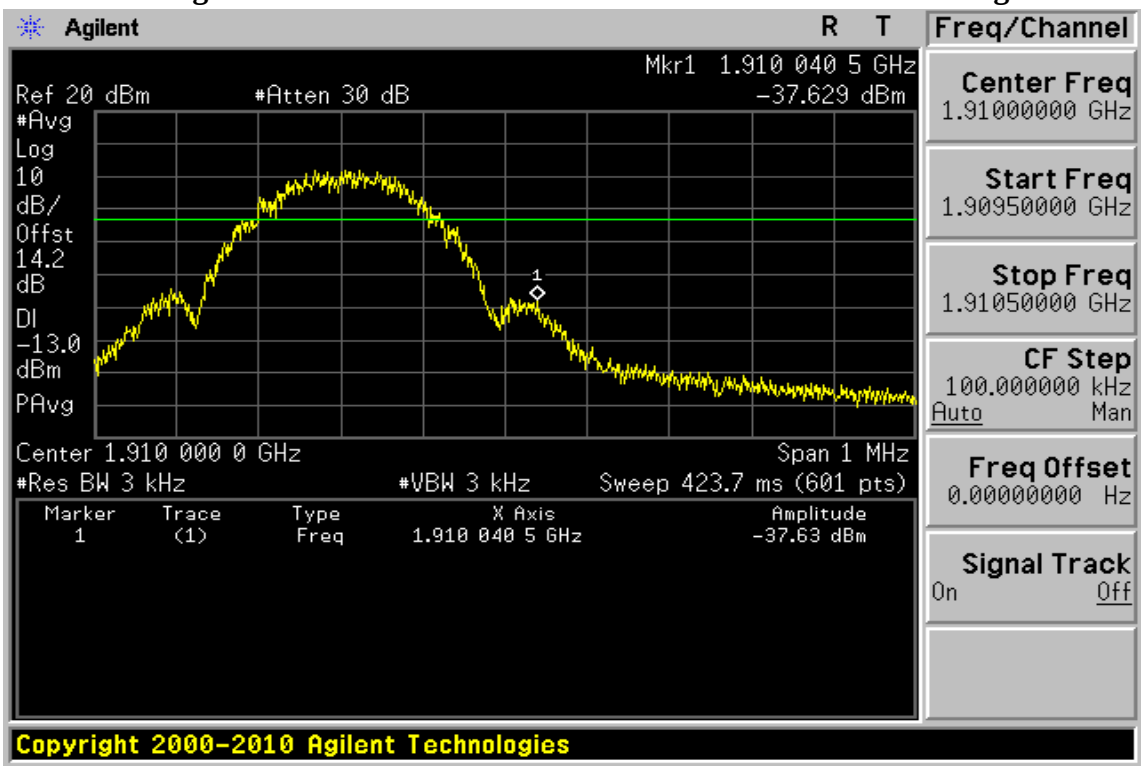


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Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

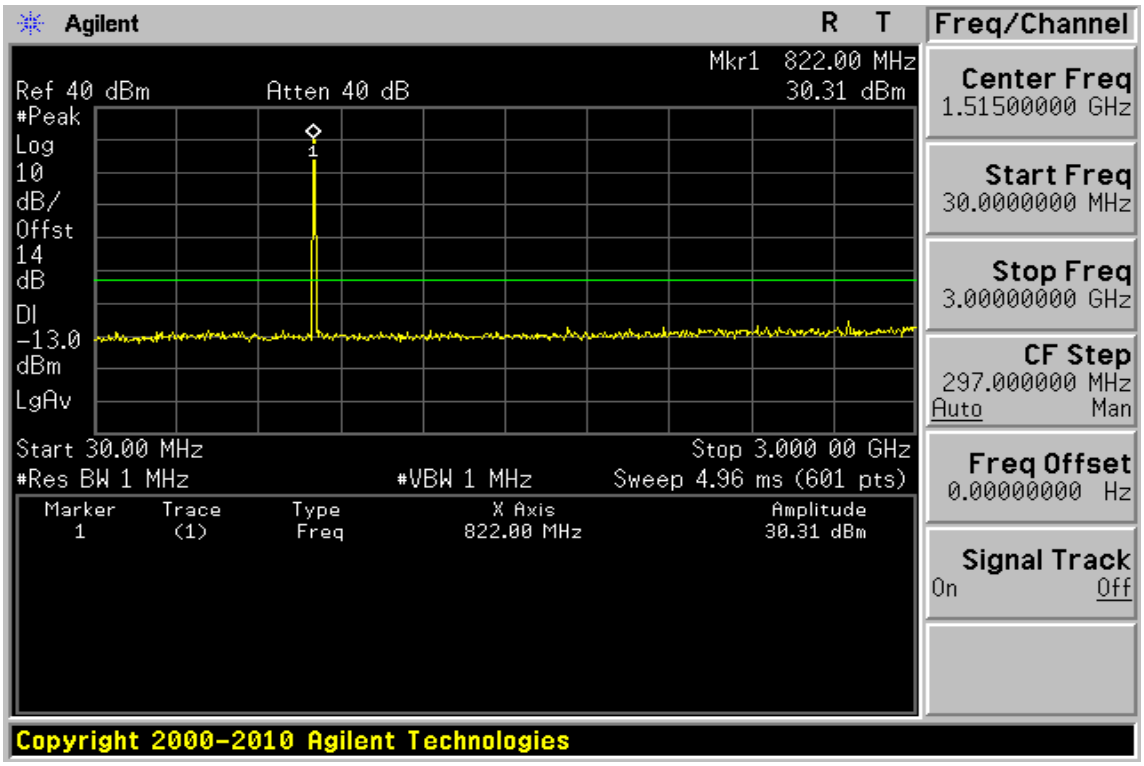


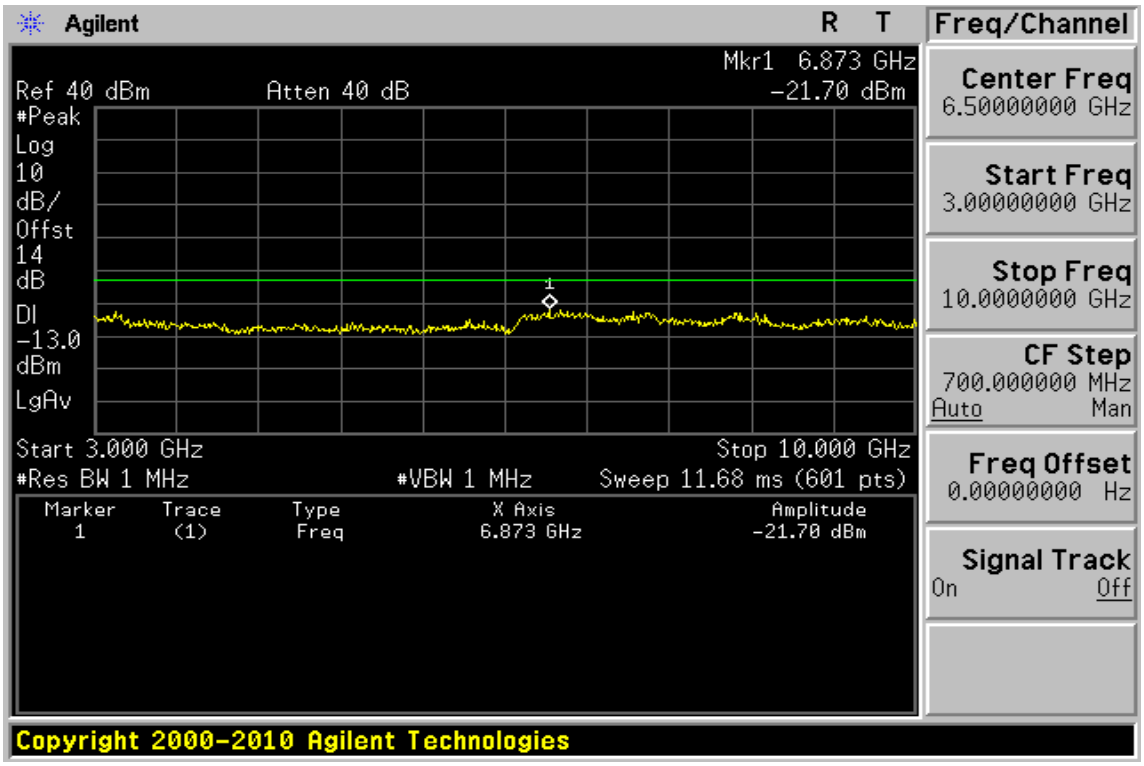
Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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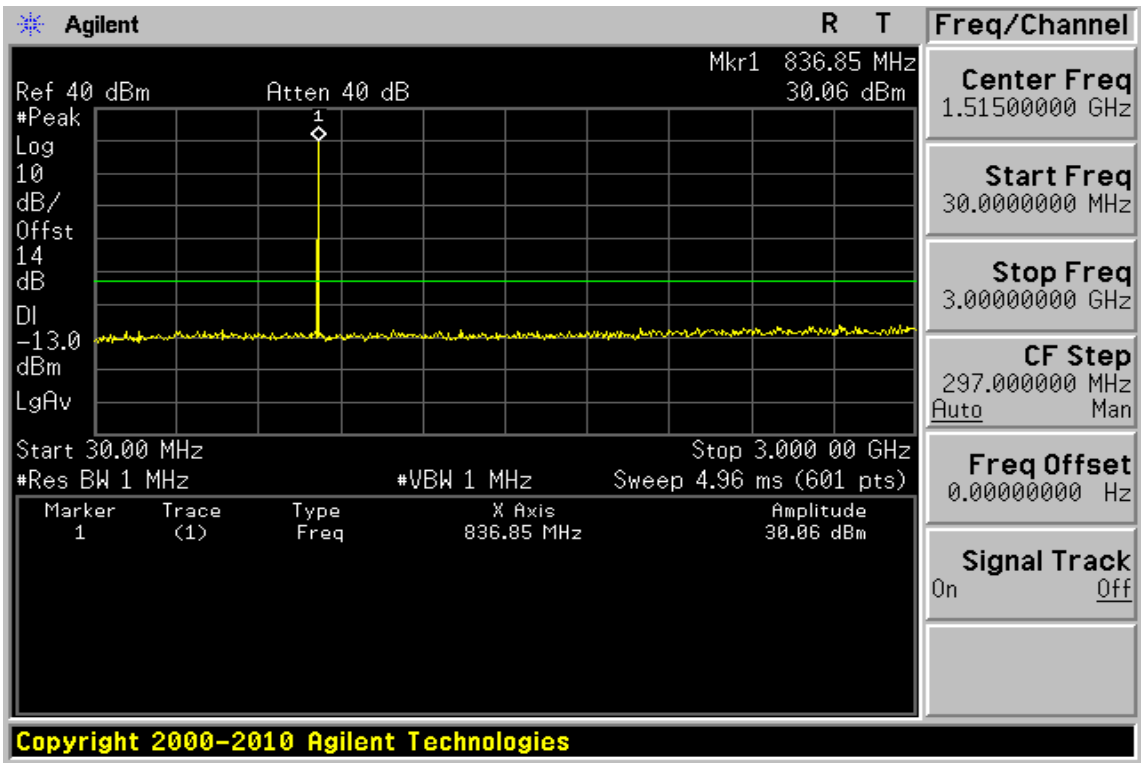
Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

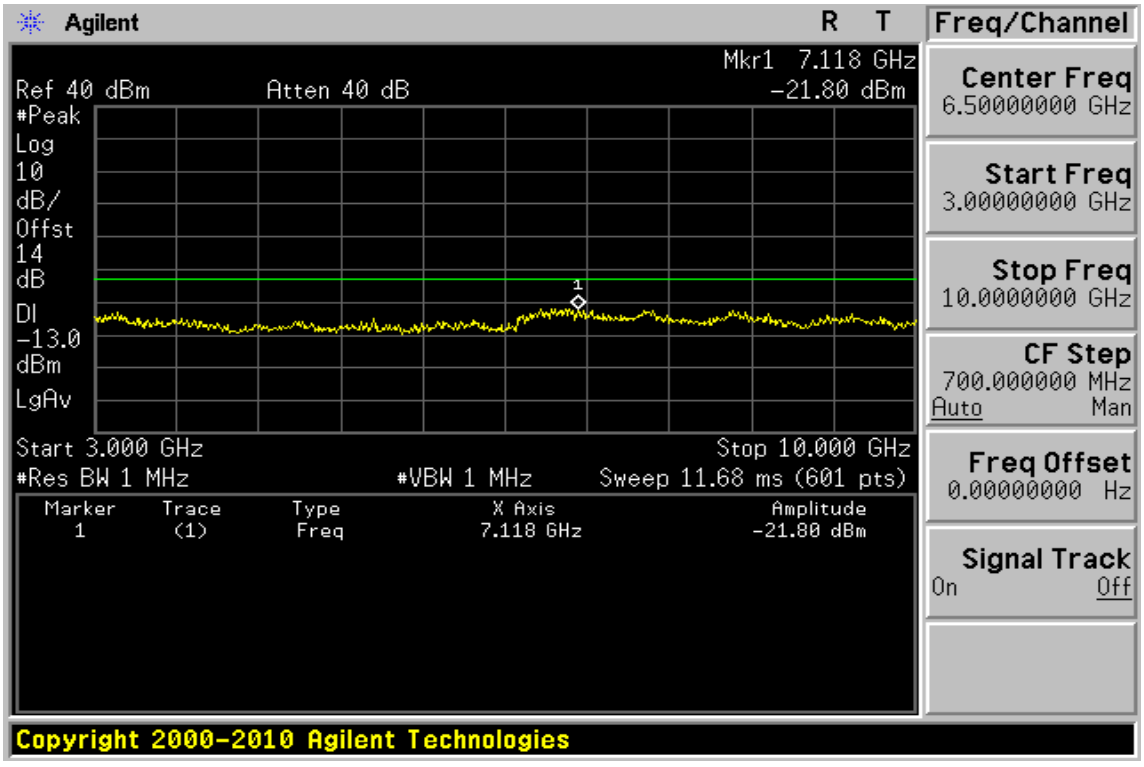




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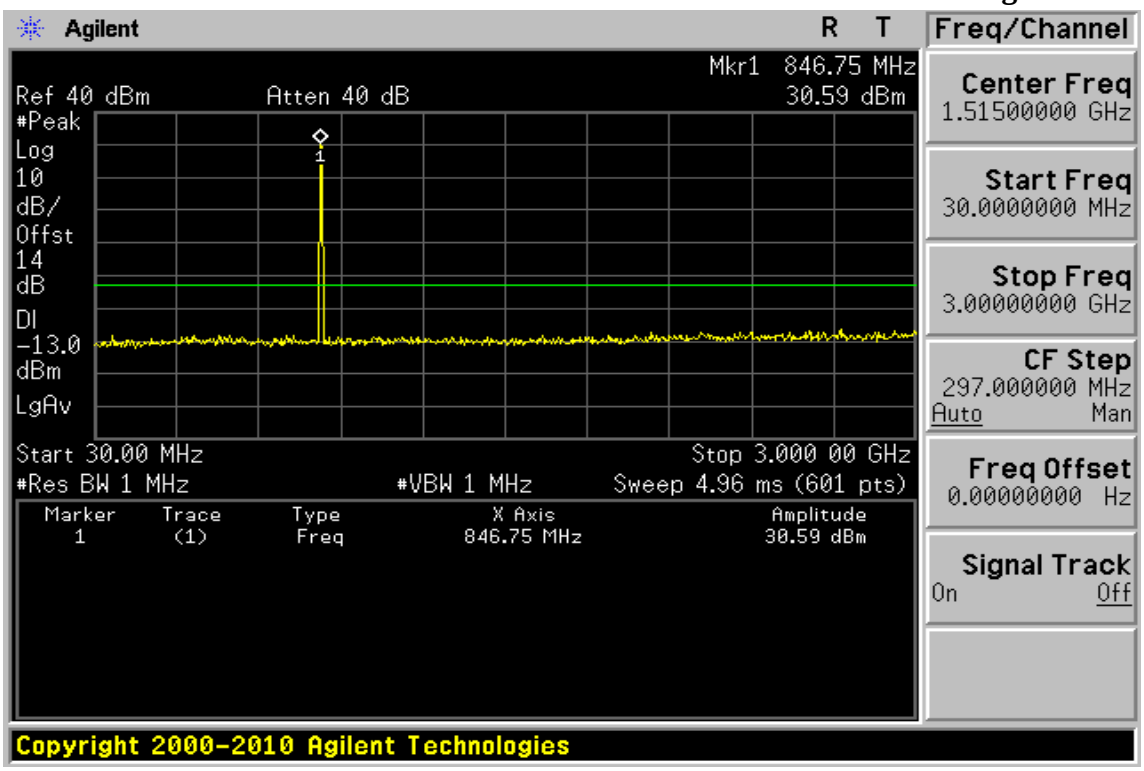
Out of Band emission at antenna terminals – EDGE 850 Channel Mid

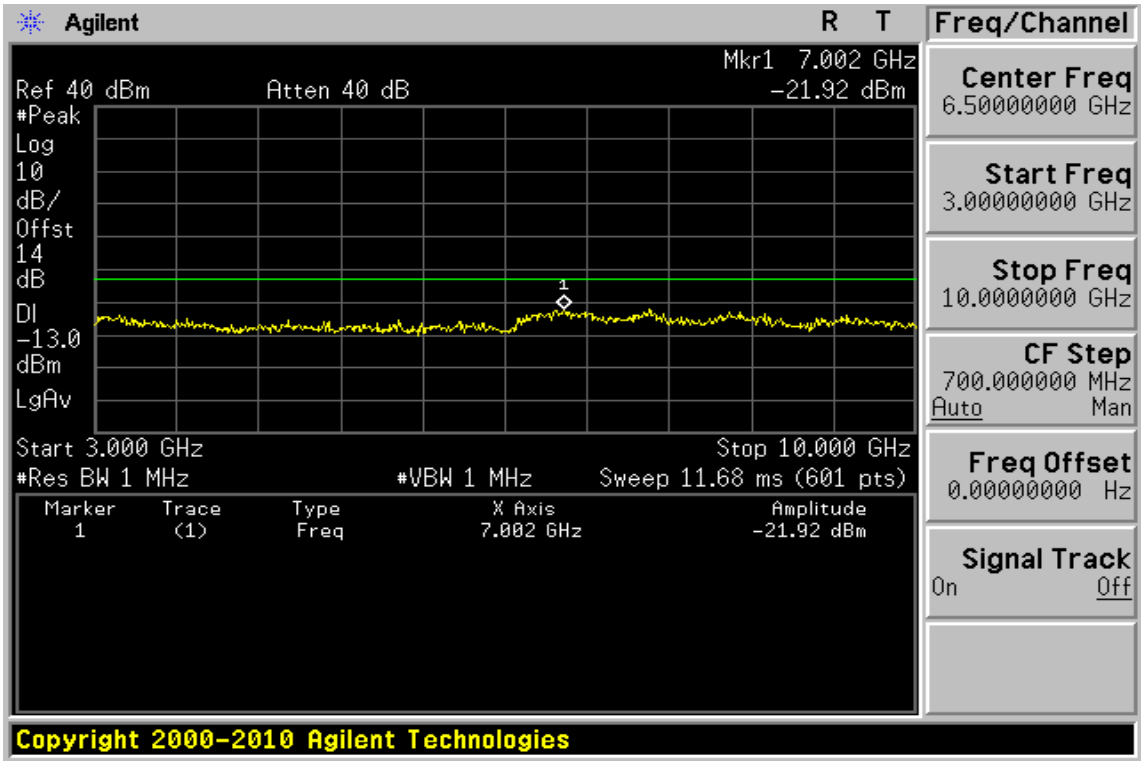




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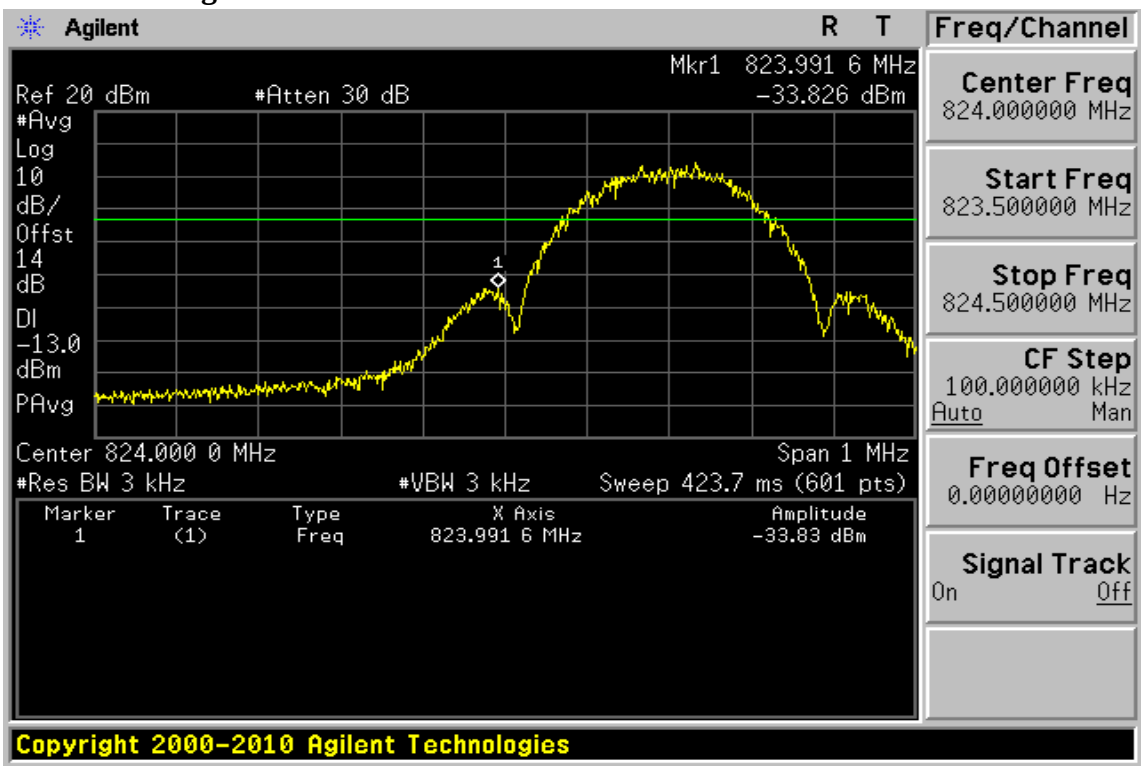
Out of Band emission at antenna terminals – EDGE 850 Channel Highest



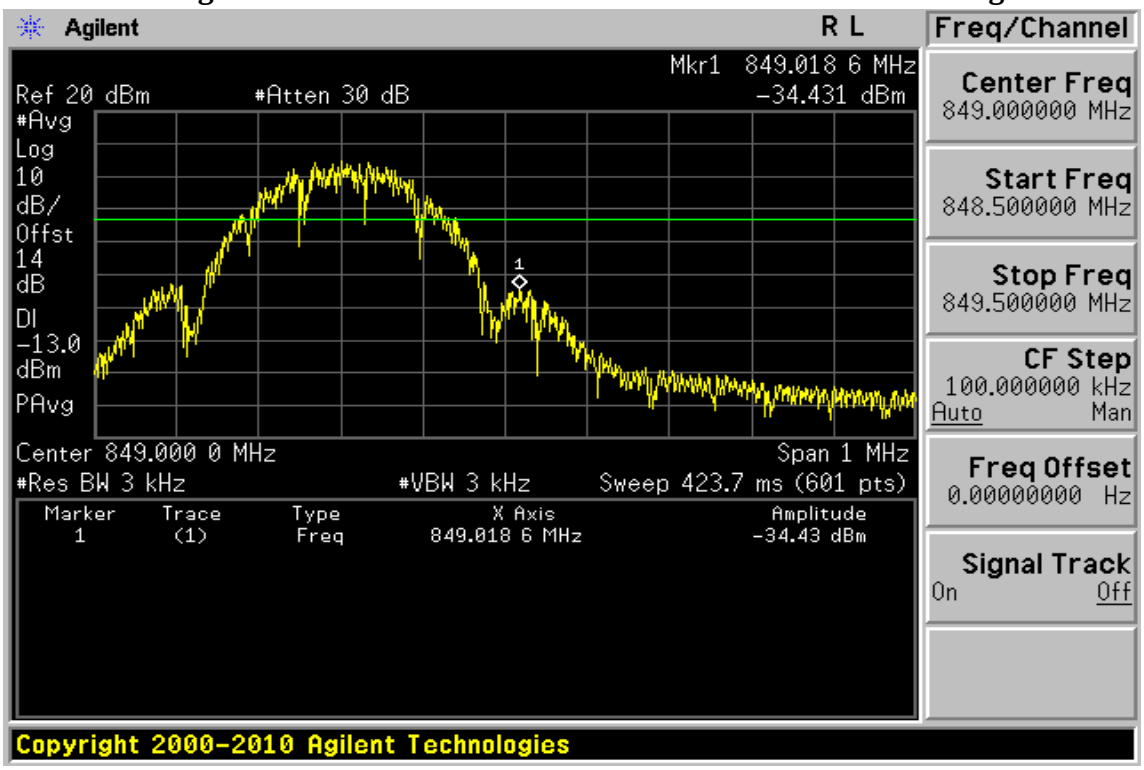


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Band edge emission at antenna terminals – EDGE 850 Channel Lowest

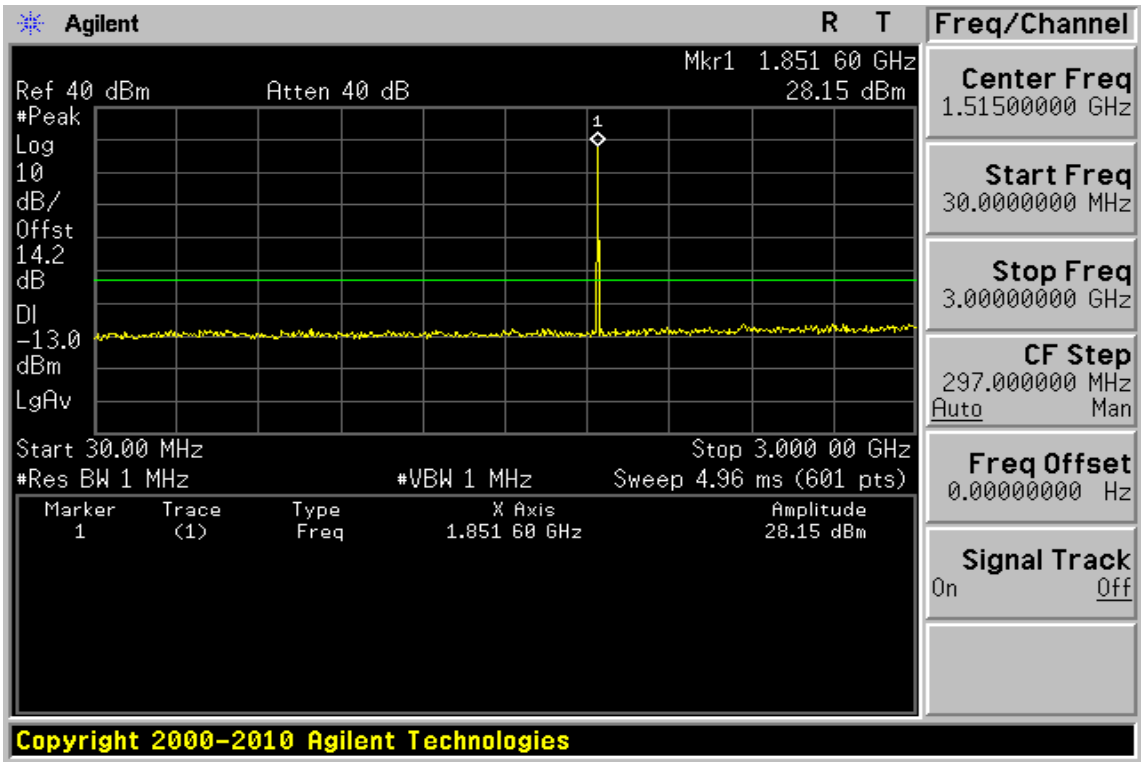


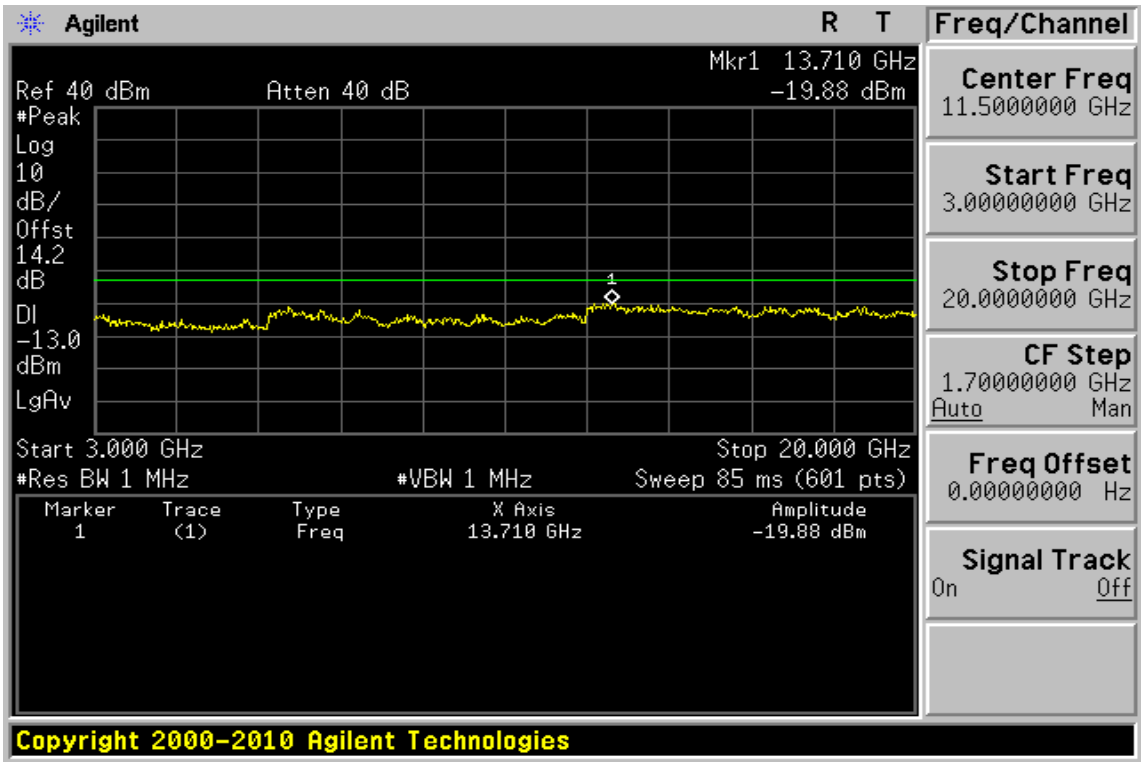
Band edge emission at antenna terminals – EDGE 850 Channel Highest



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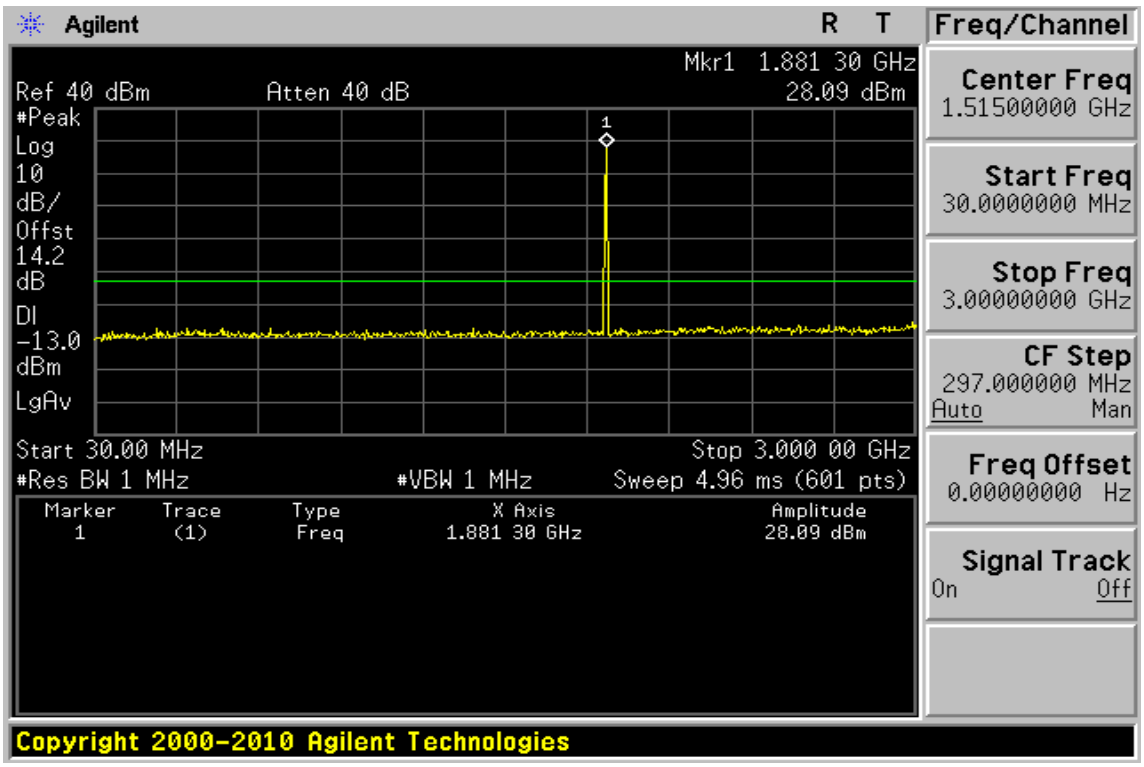
Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

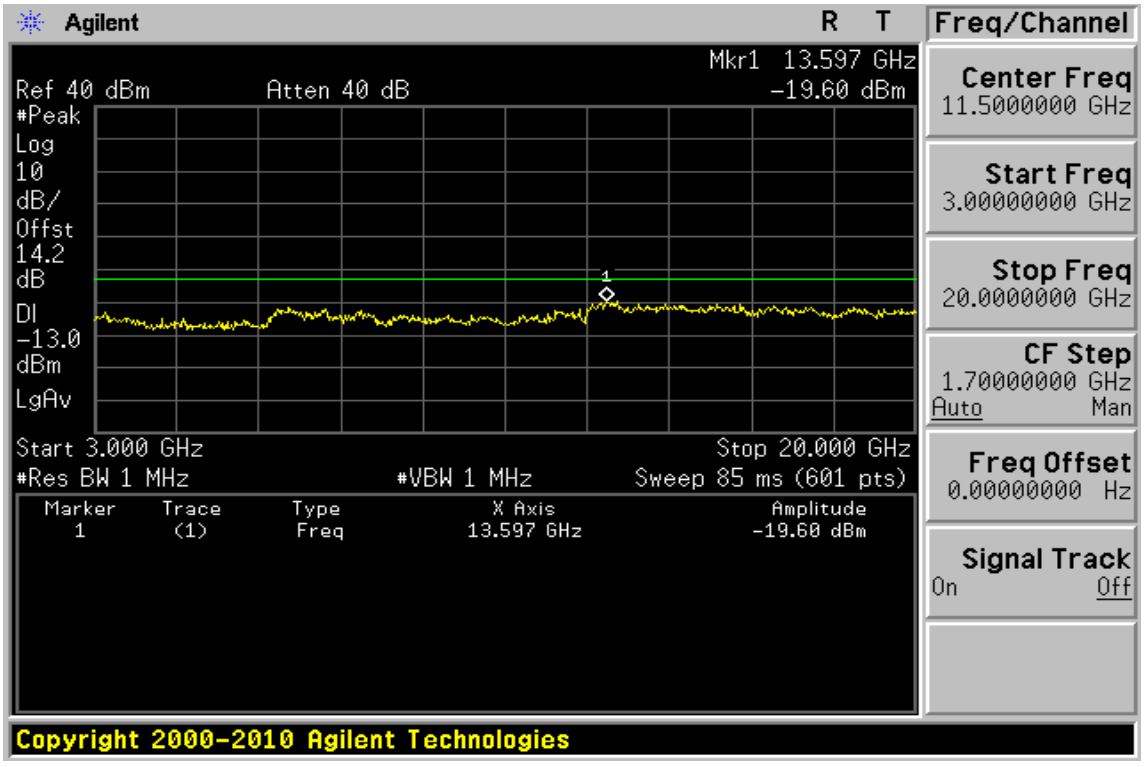




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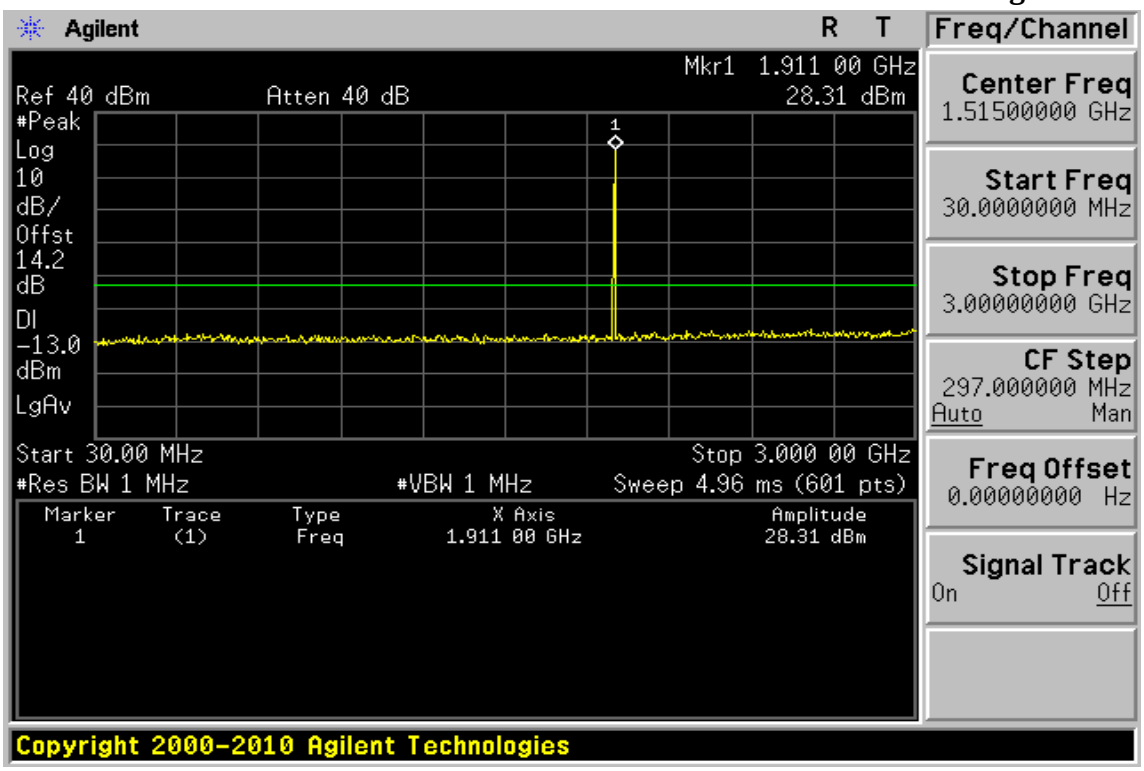
Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

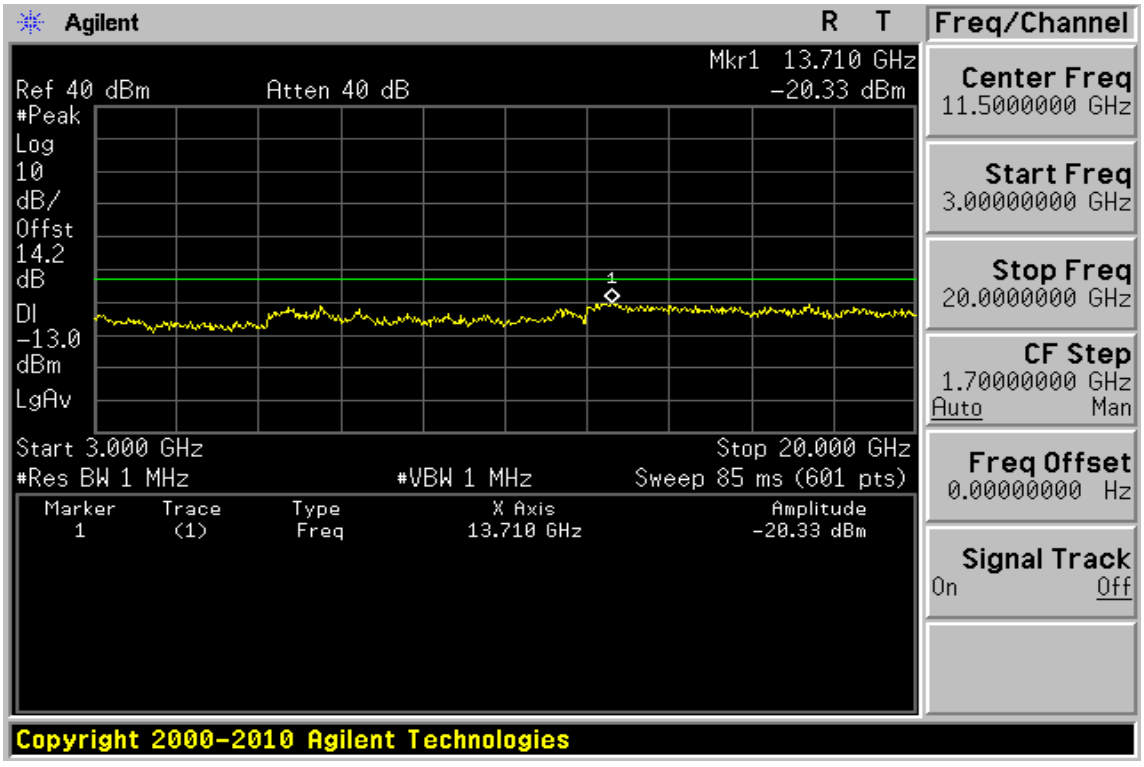




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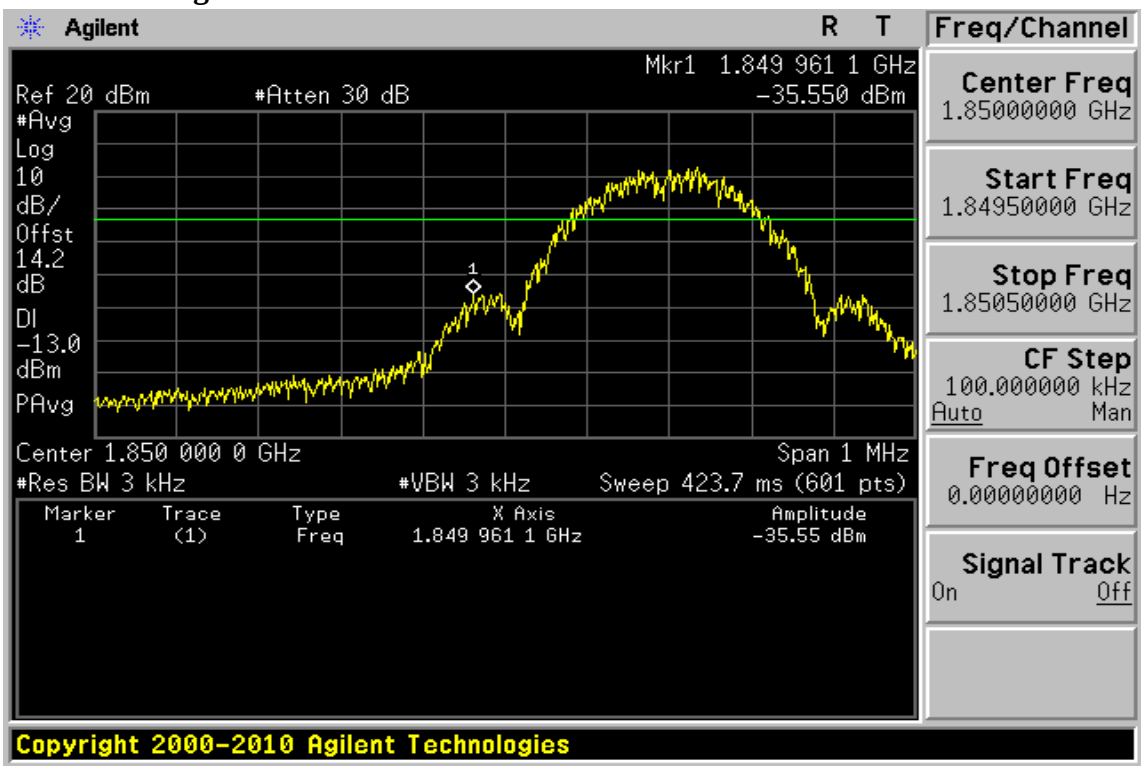
Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



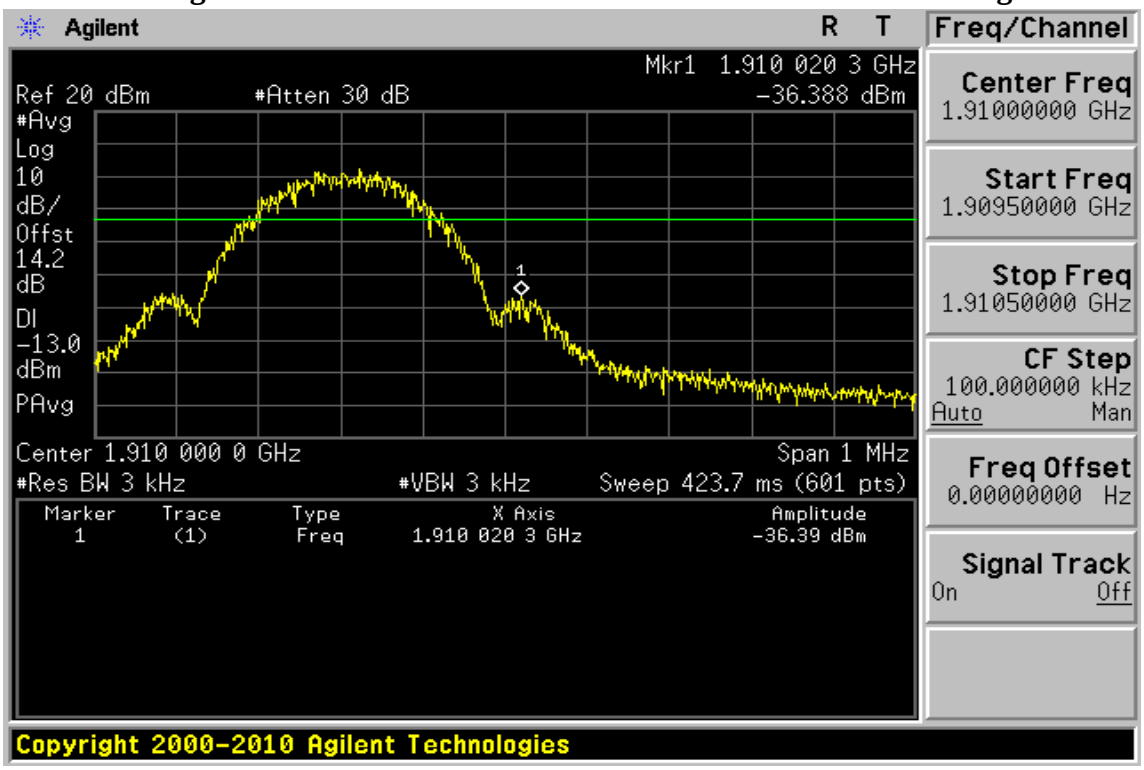


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Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

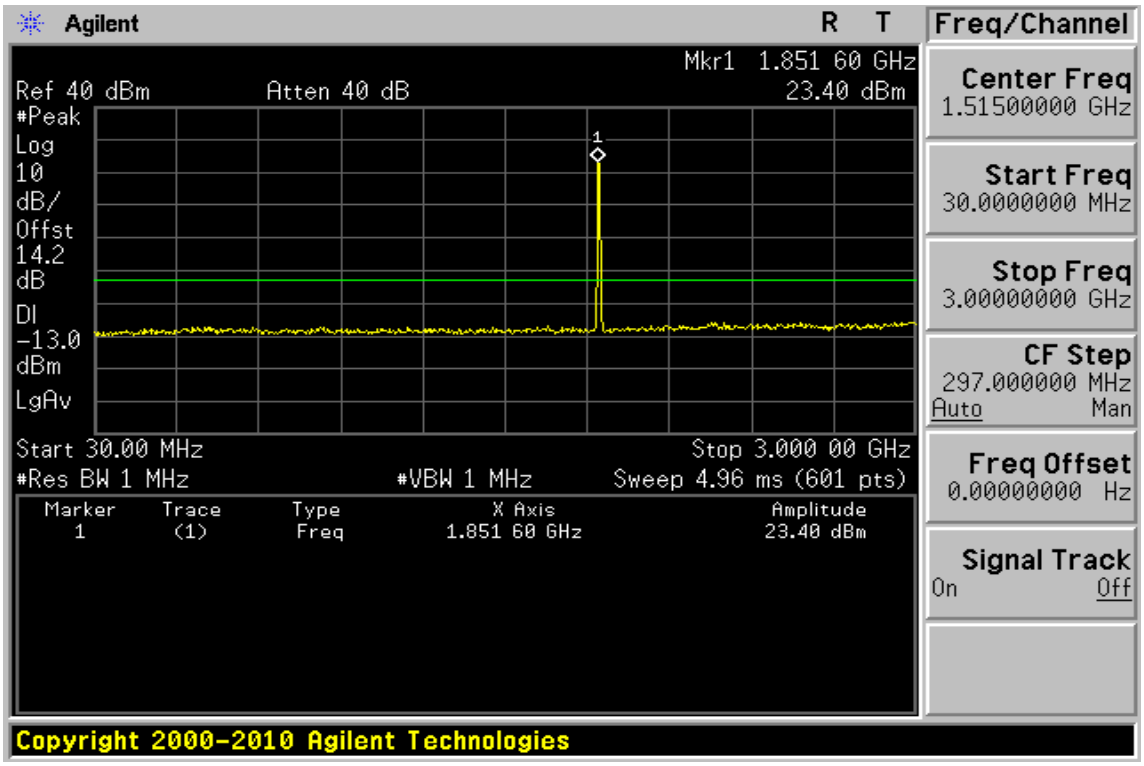


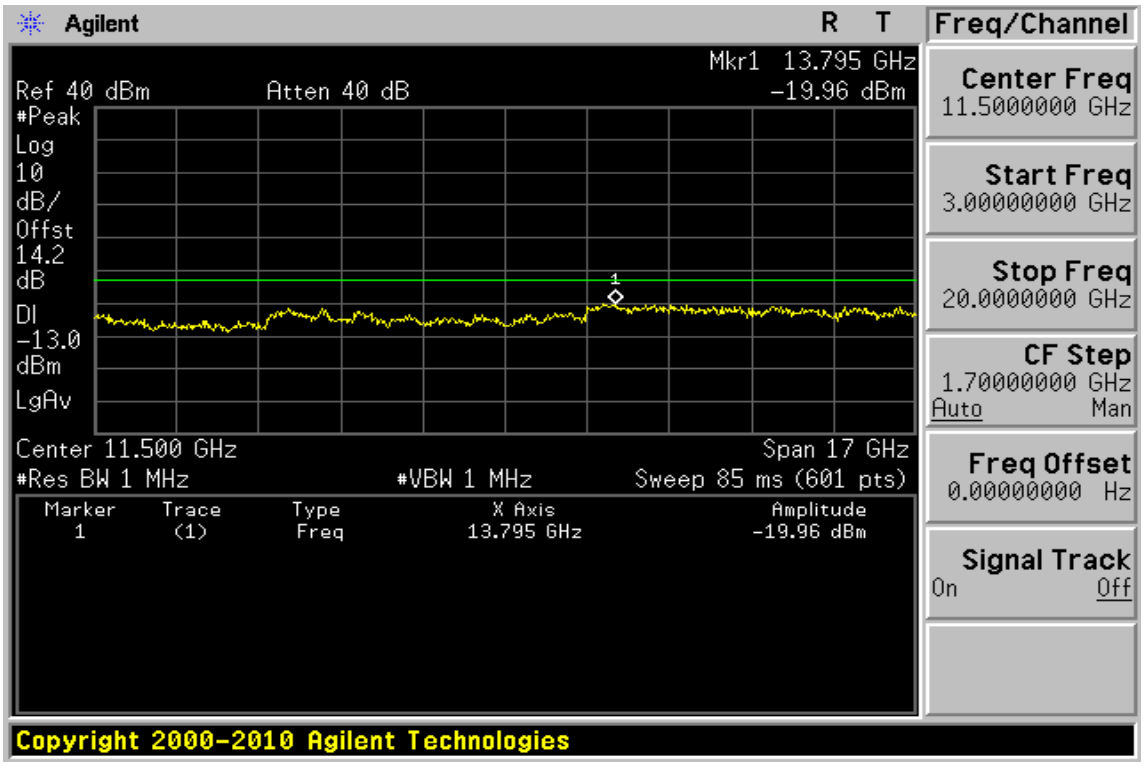
Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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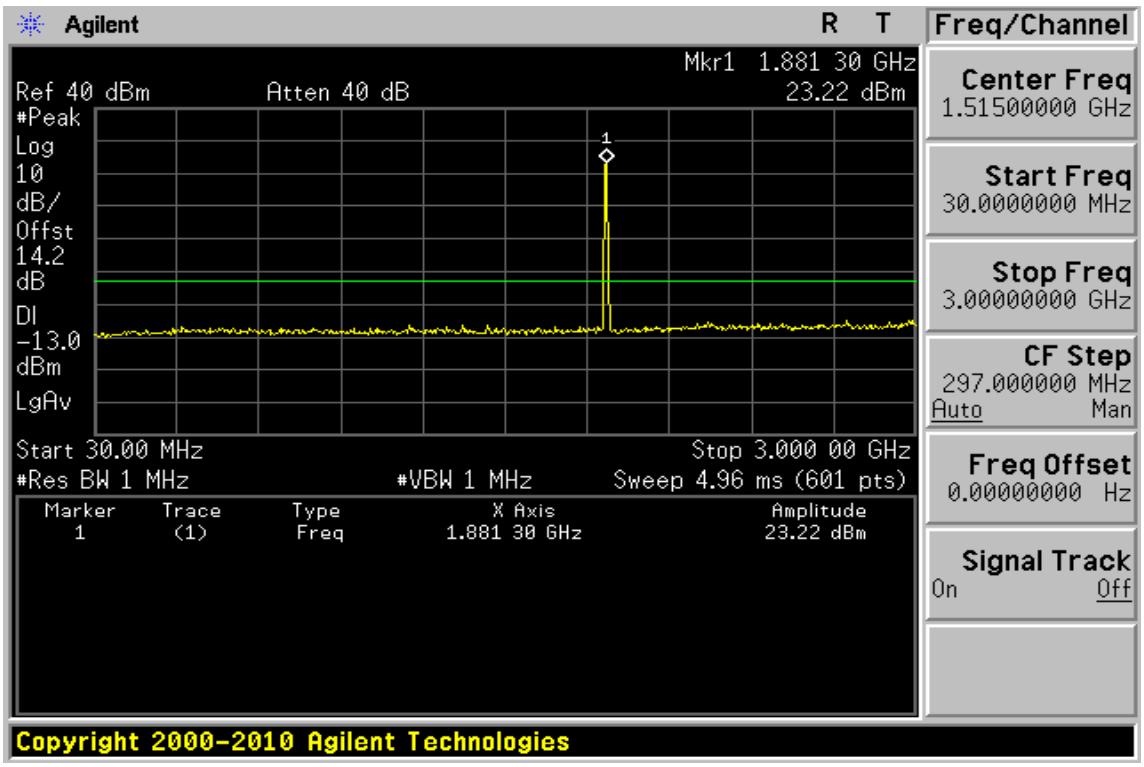
Out of Band emission at antenna terminals – WCDMA II Channel Lowest

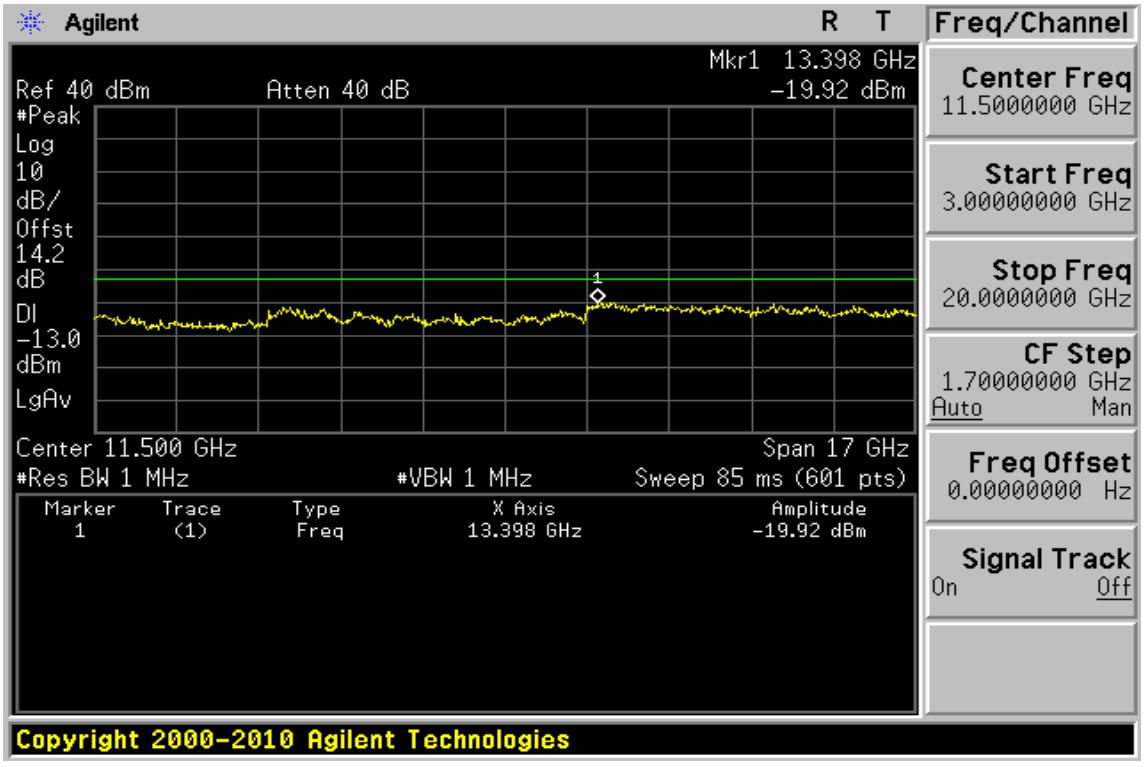




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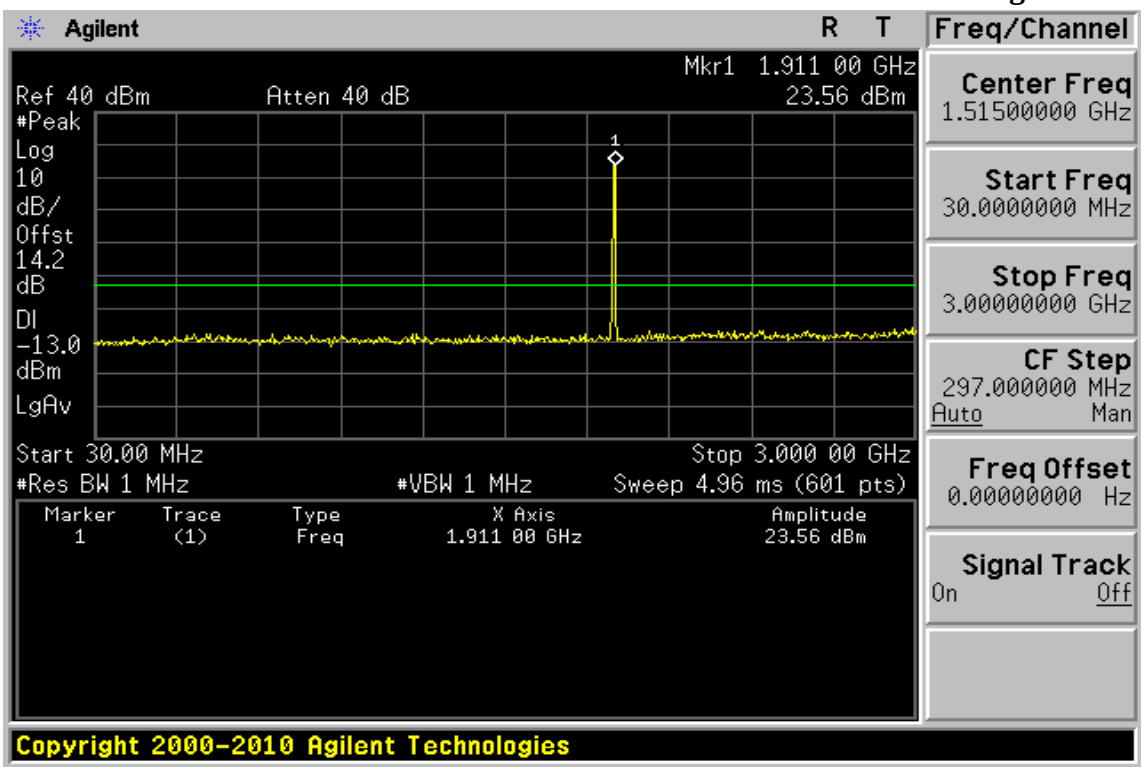
Out of Band emission at antenna terminals – WCDMA II Channel Mid

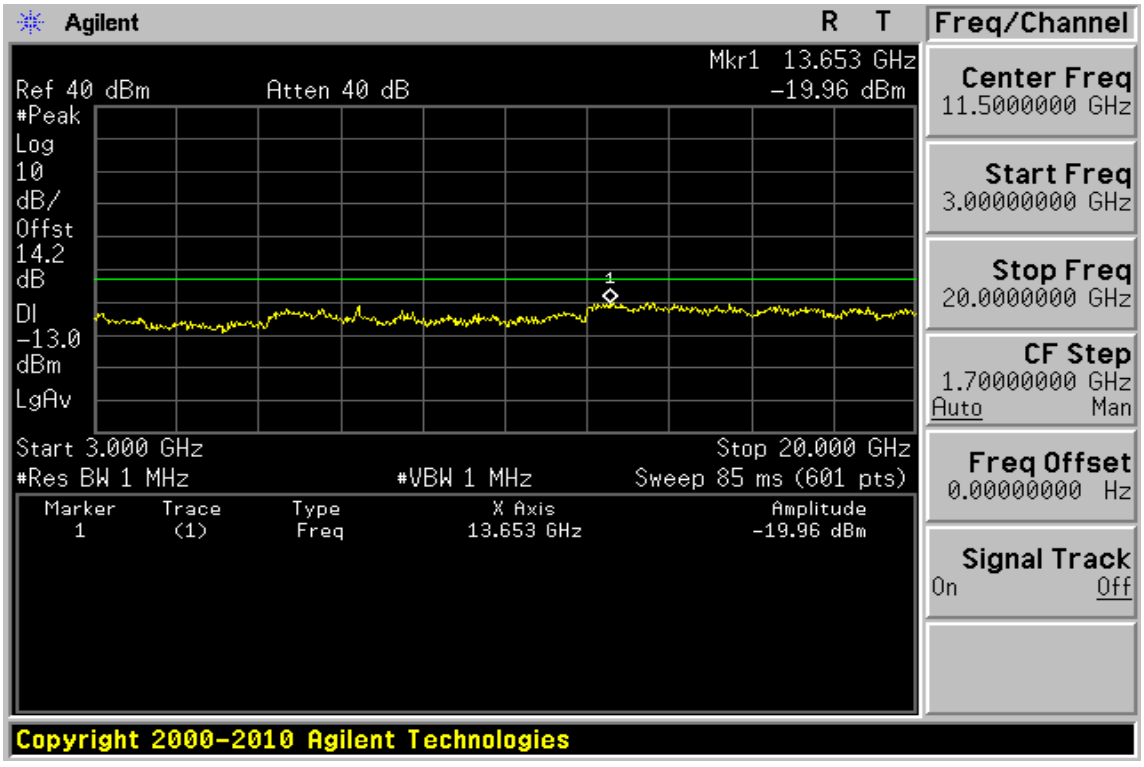




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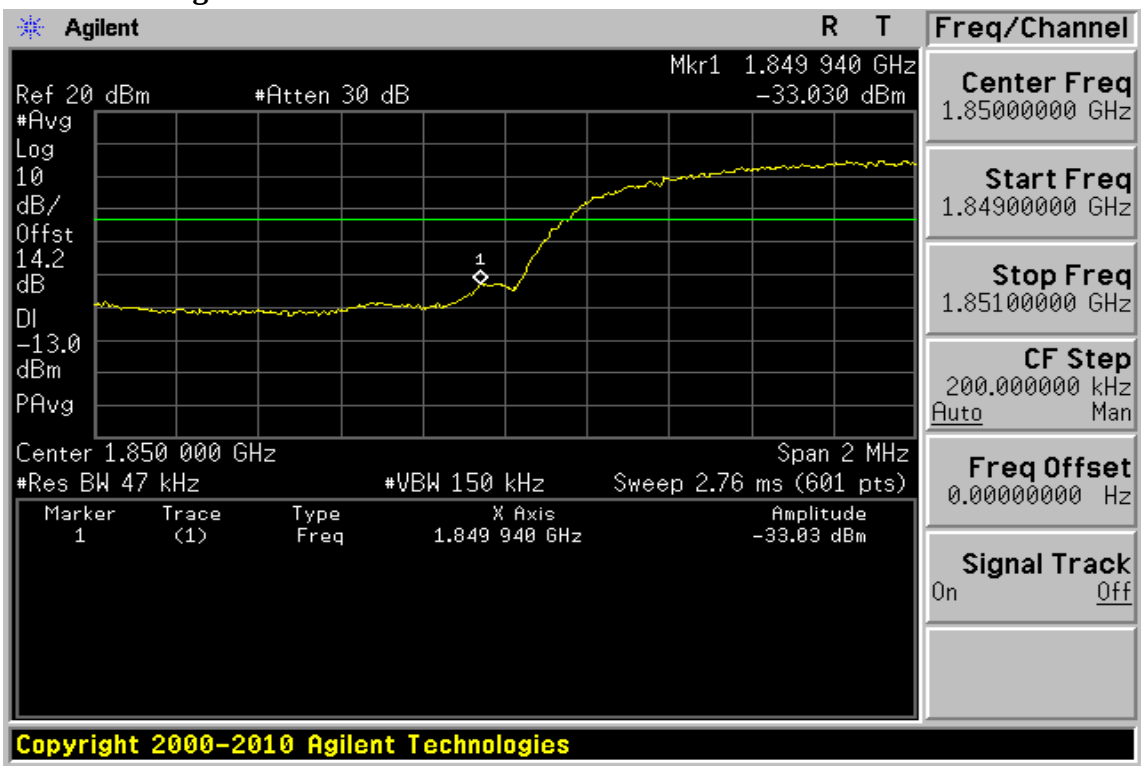
Out of Band emission at antenna terminals – WCDMA II Channel Highest



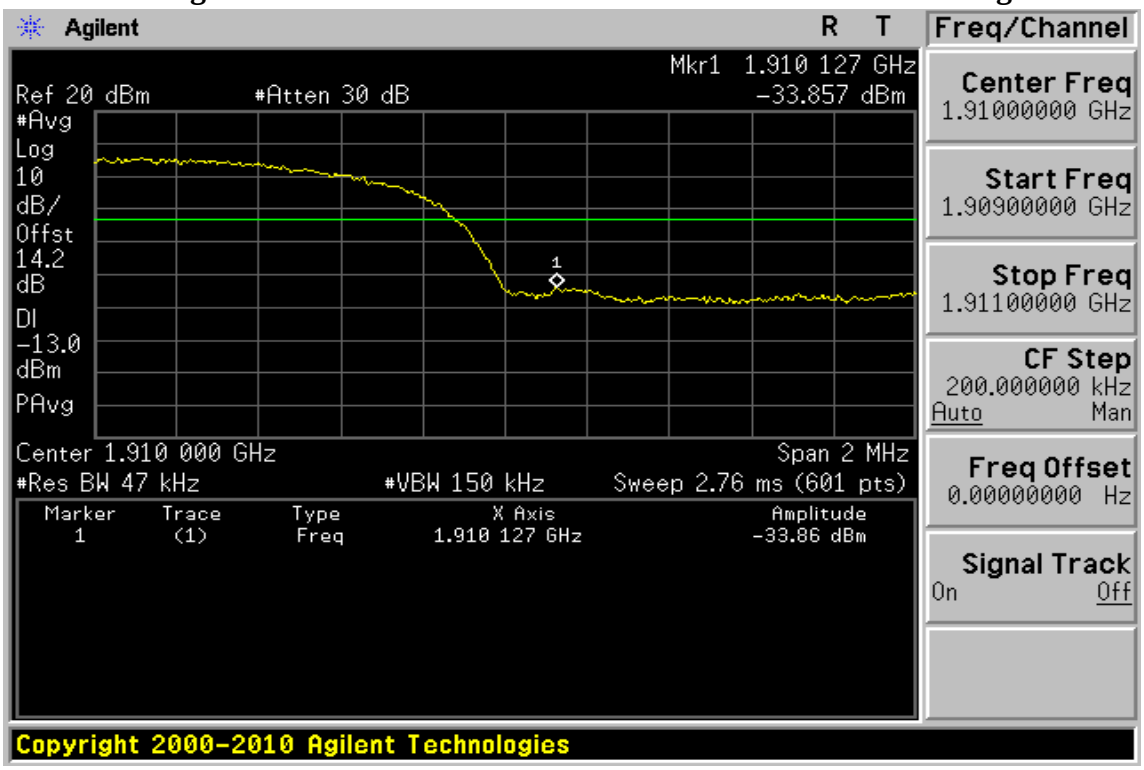


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Band edge emission at antenna terminals – WCDMA II Channel Lowest

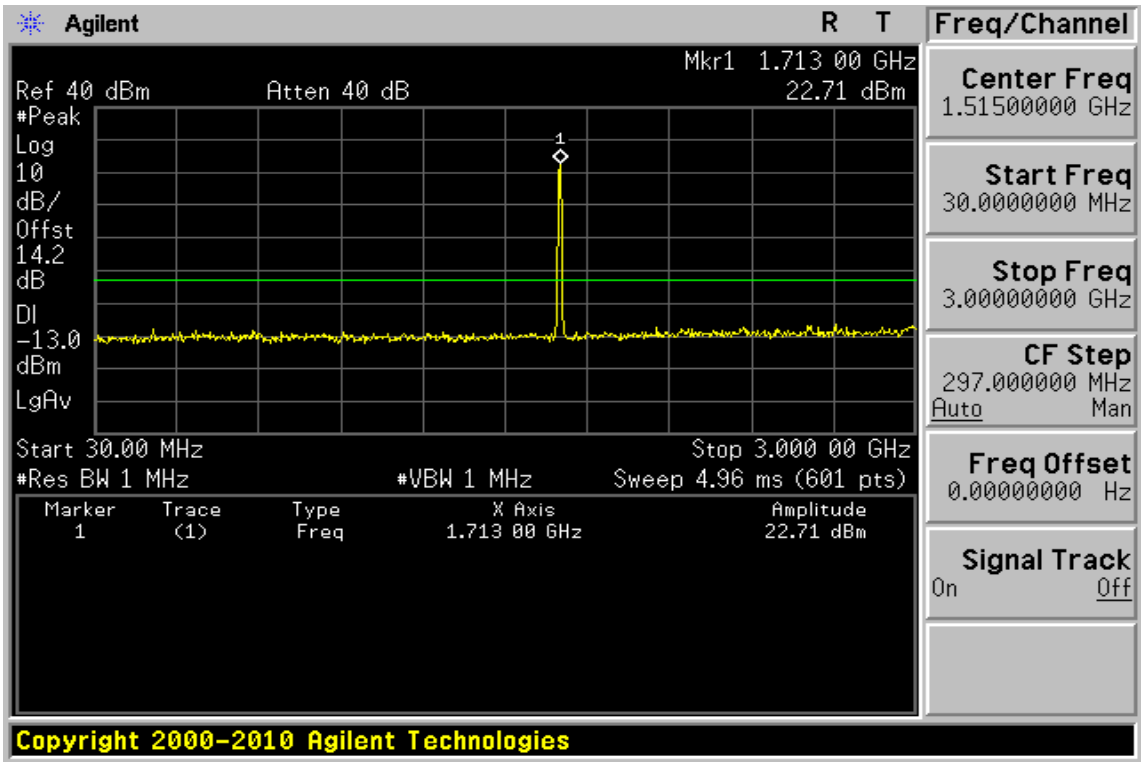


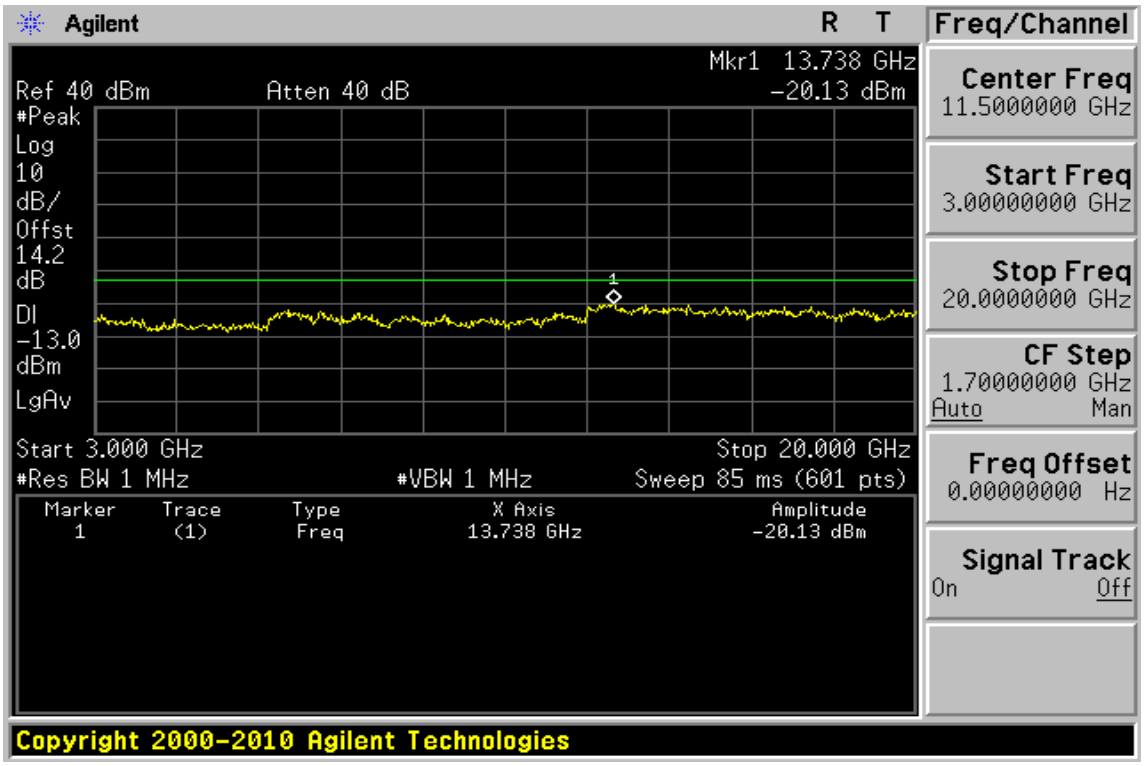
Band edge emission at antenna terminals – WCDMA II Channel Highest



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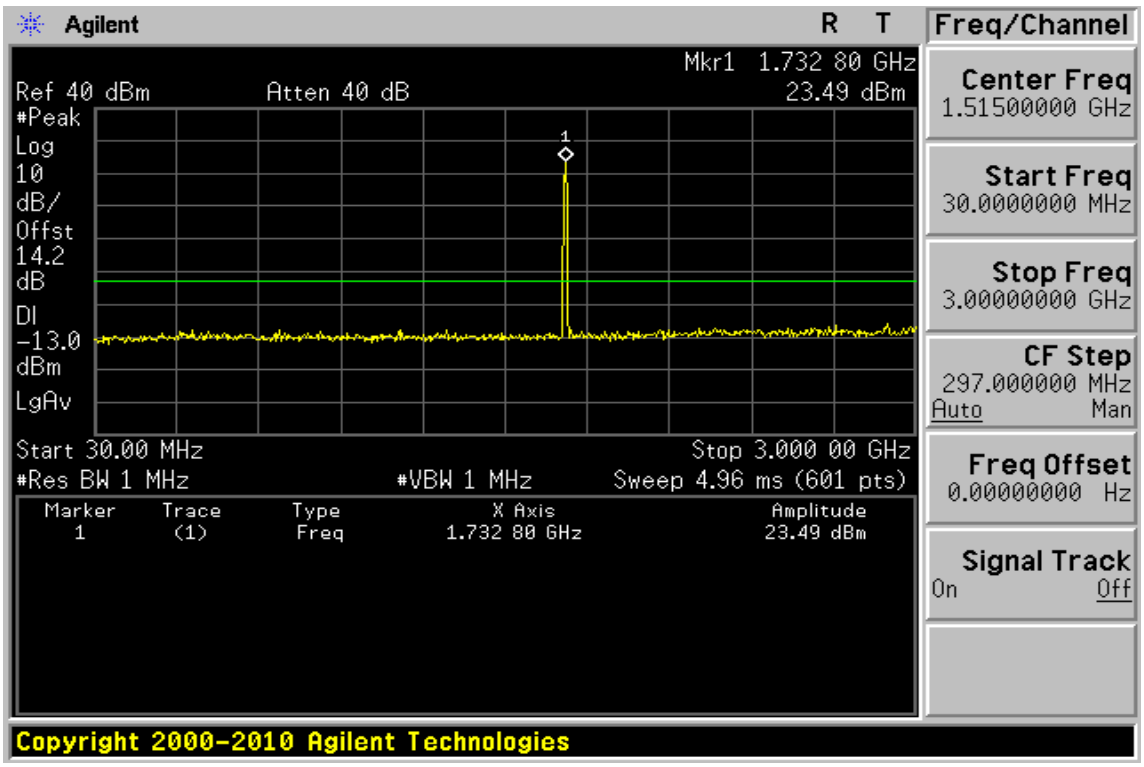
Out of Band emission at antenna terminals – WCDMA IV Channel Lowest

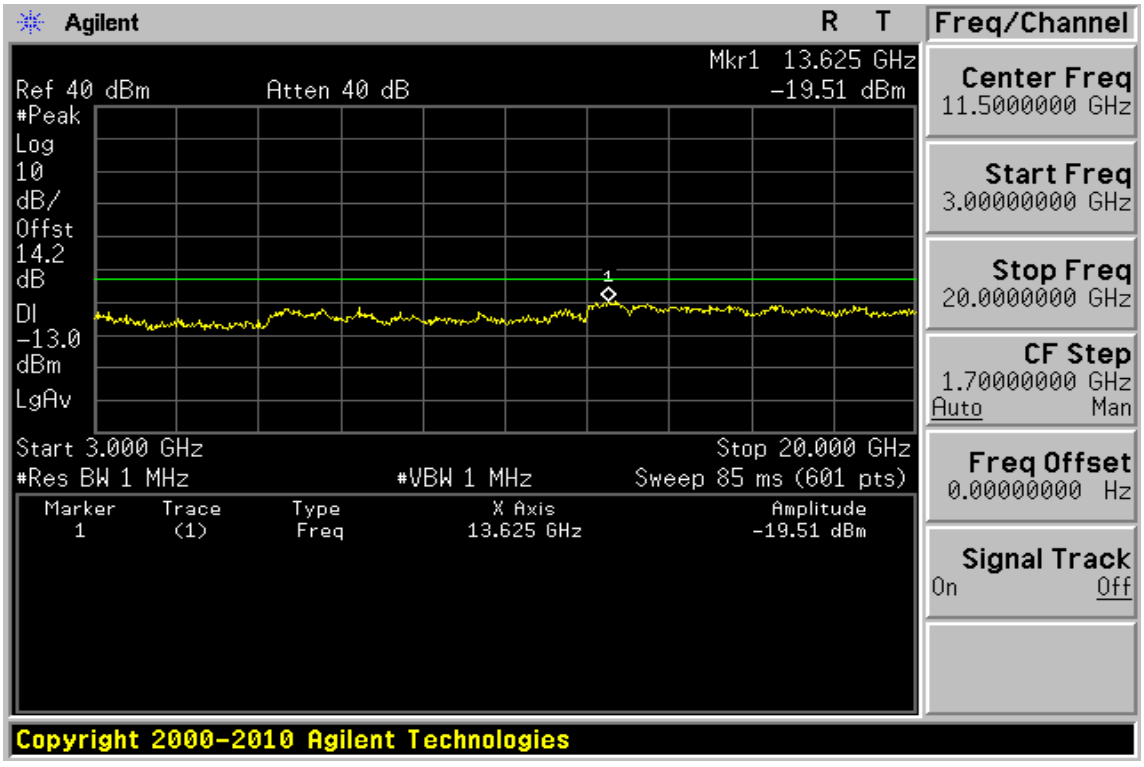




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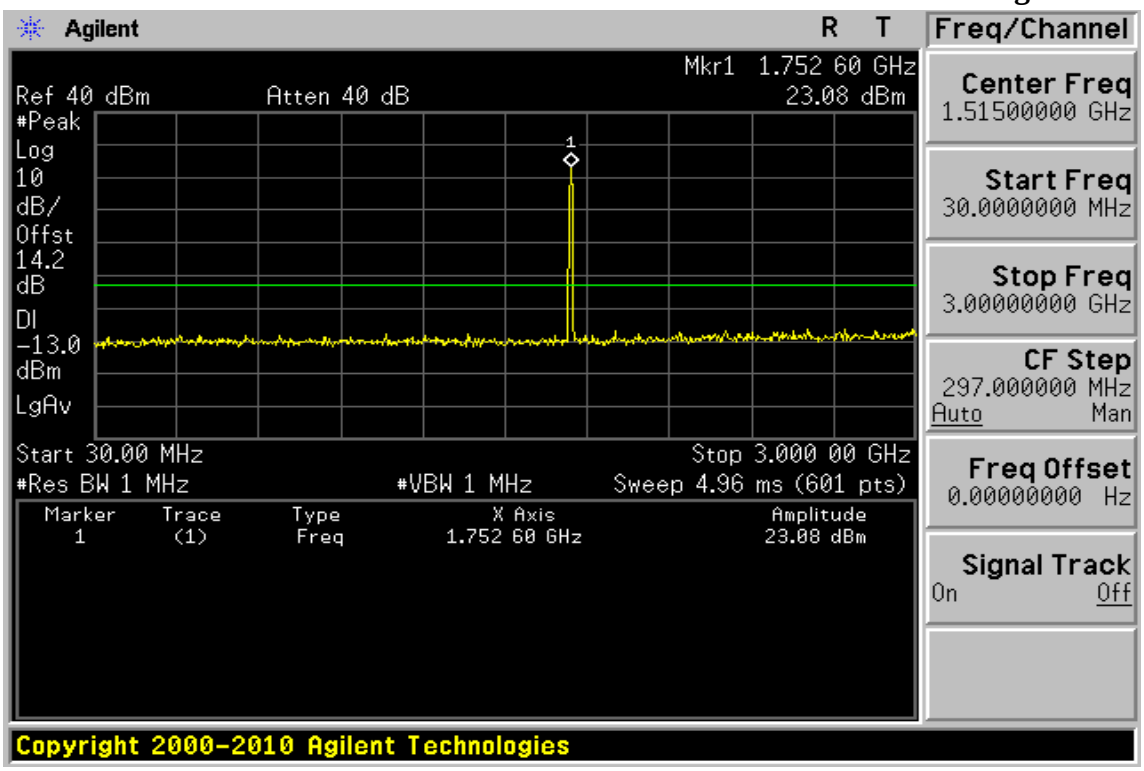
Out of Band emission at antenna terminals – WCDMA IV Channel Mid

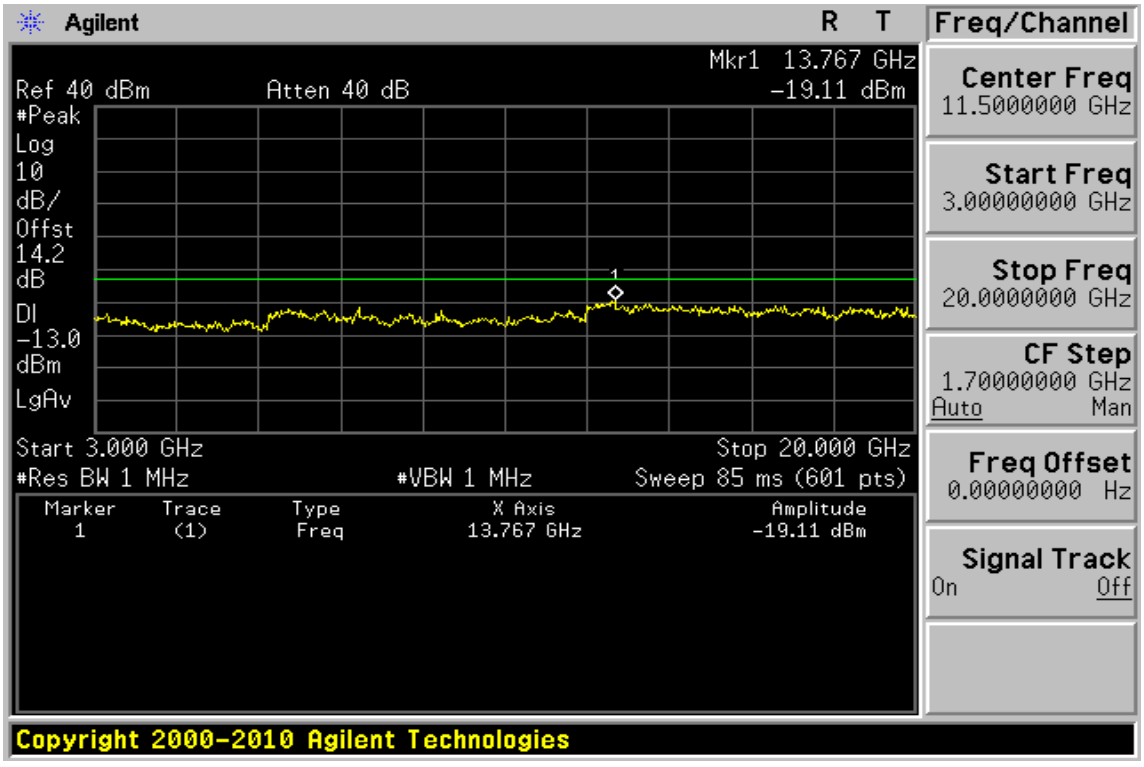




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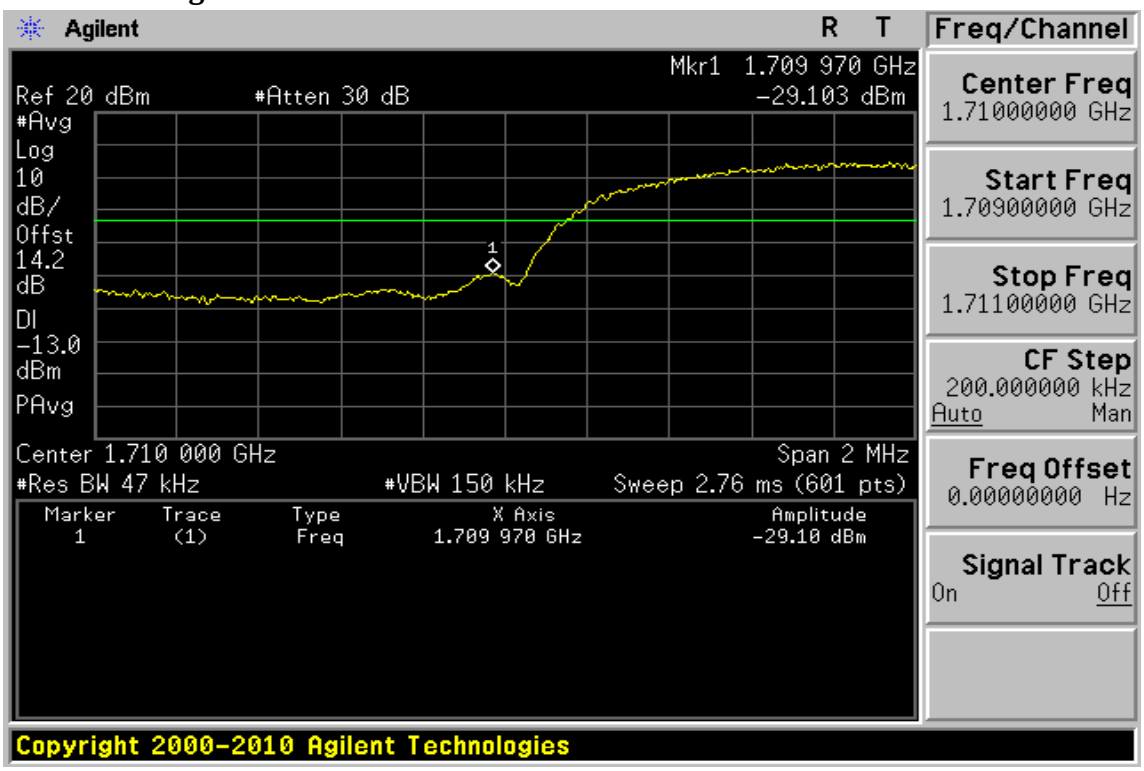
Out of Band emission at antenna terminals – WCDMA IV Channel Highest



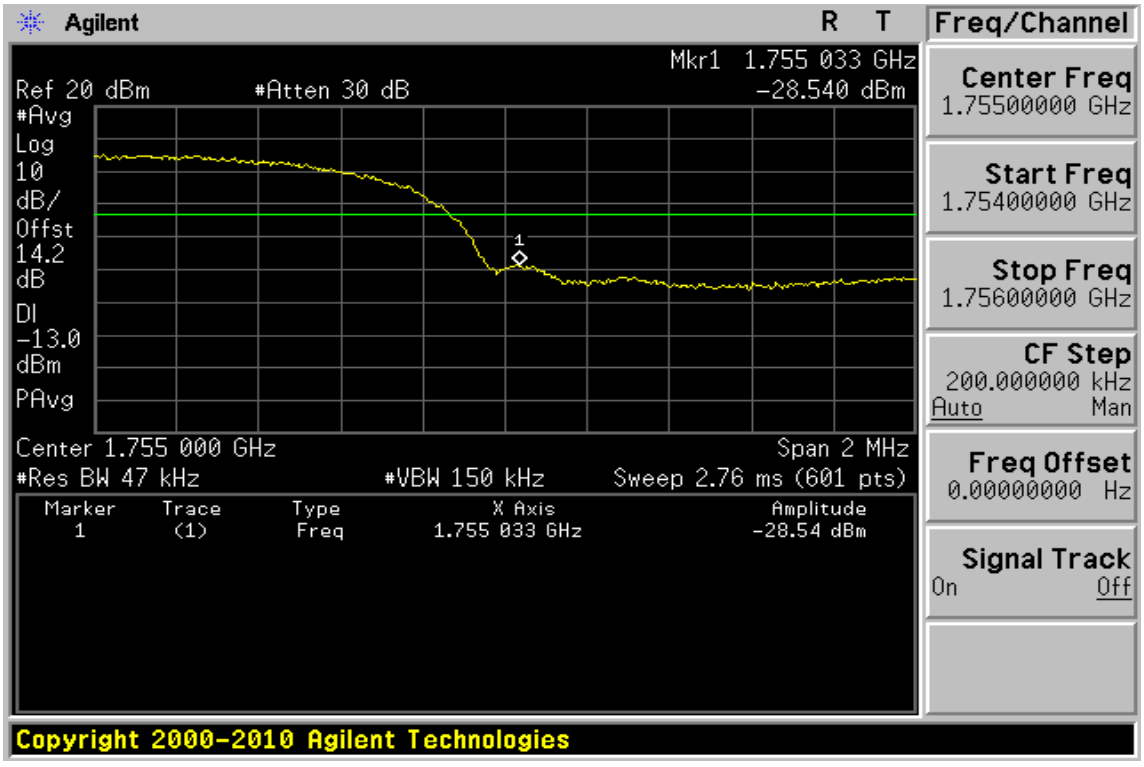


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Band edge emission at antenna terminals – WCDMA IV Channel Lowest

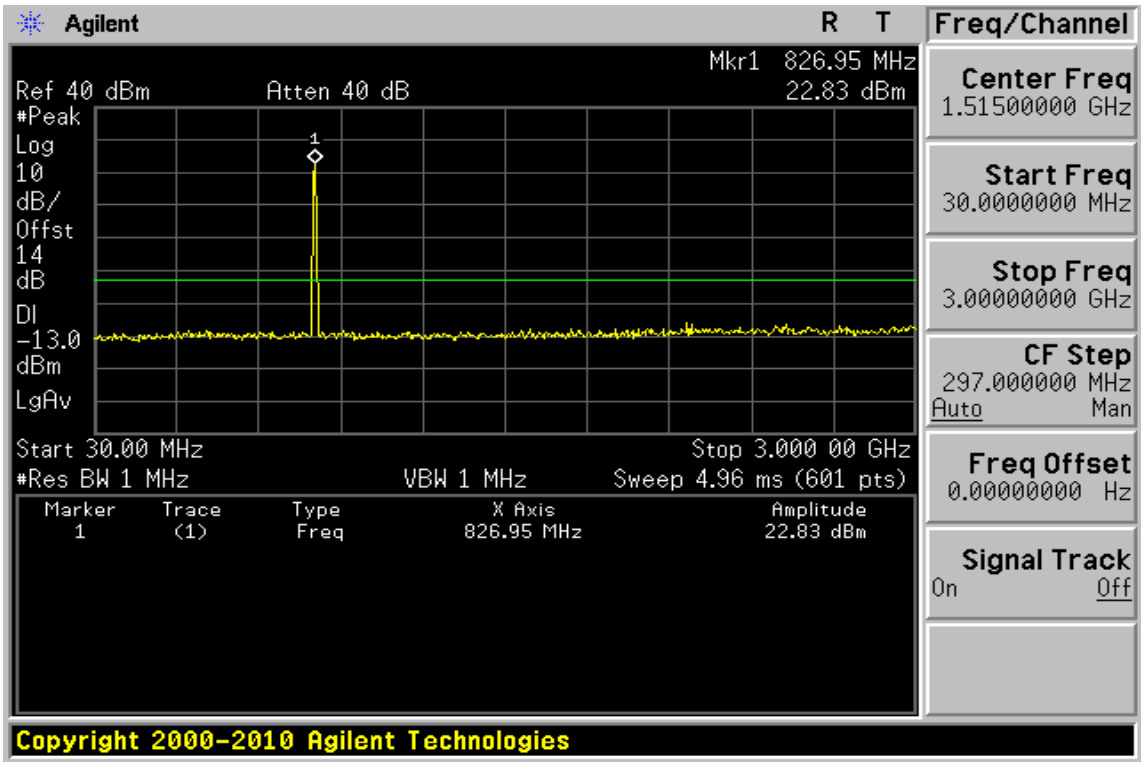


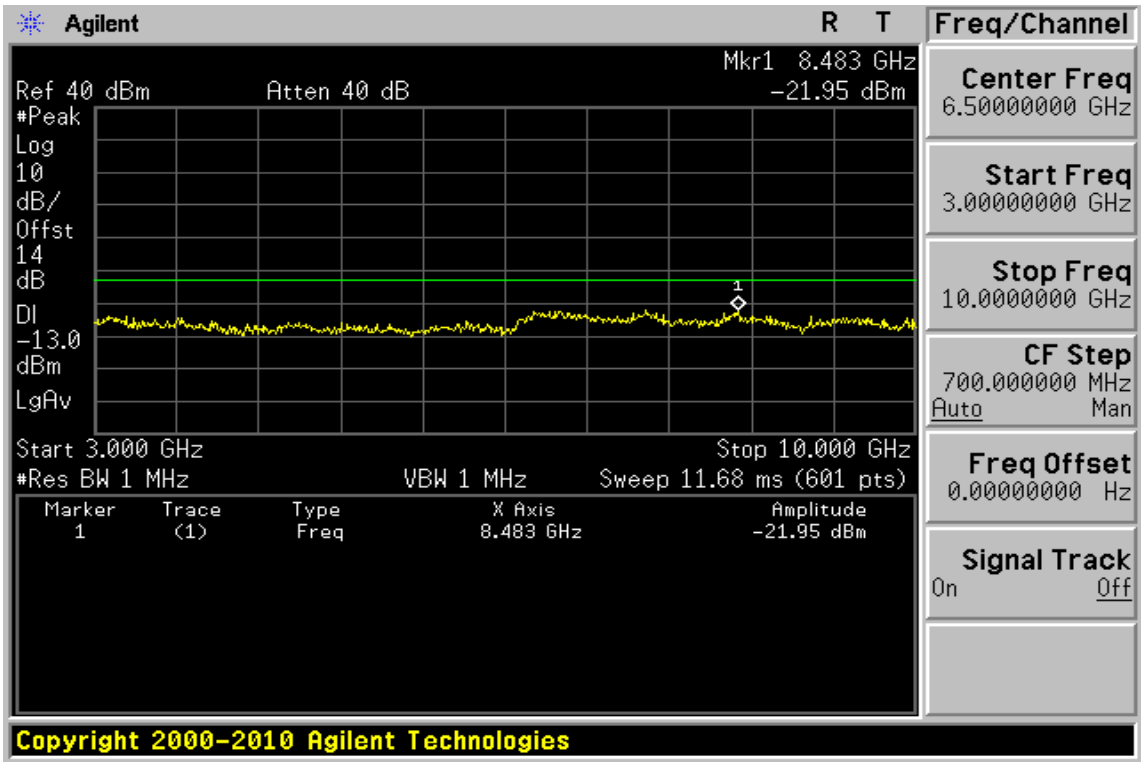
Band edge emission at antenna terminals – WCDMA IV Channel Highest



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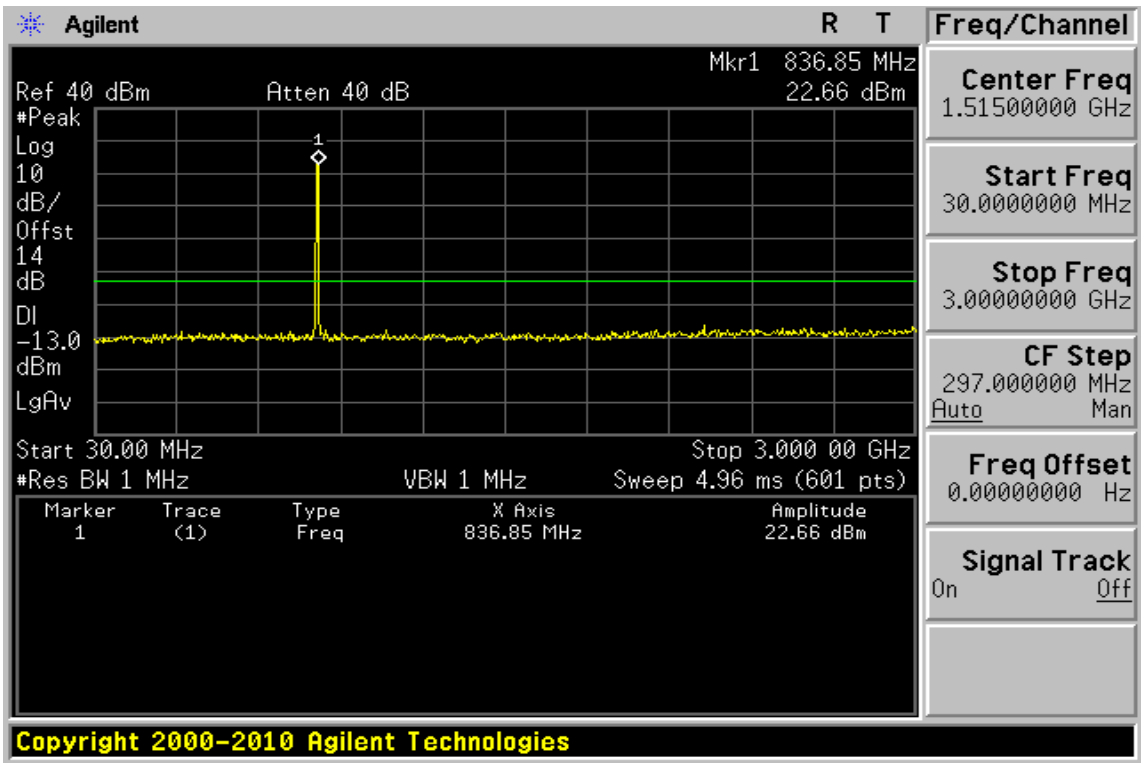
Out of Band emission at antenna terminals – WCDMA V Channel Lowest

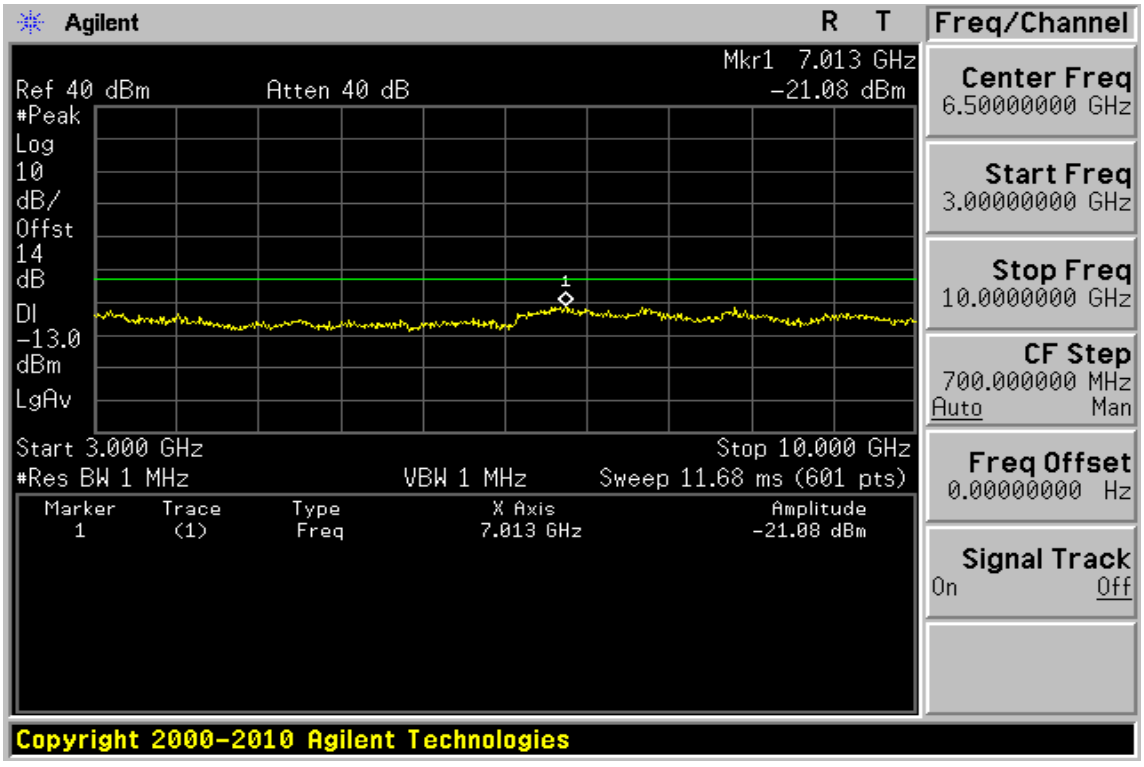




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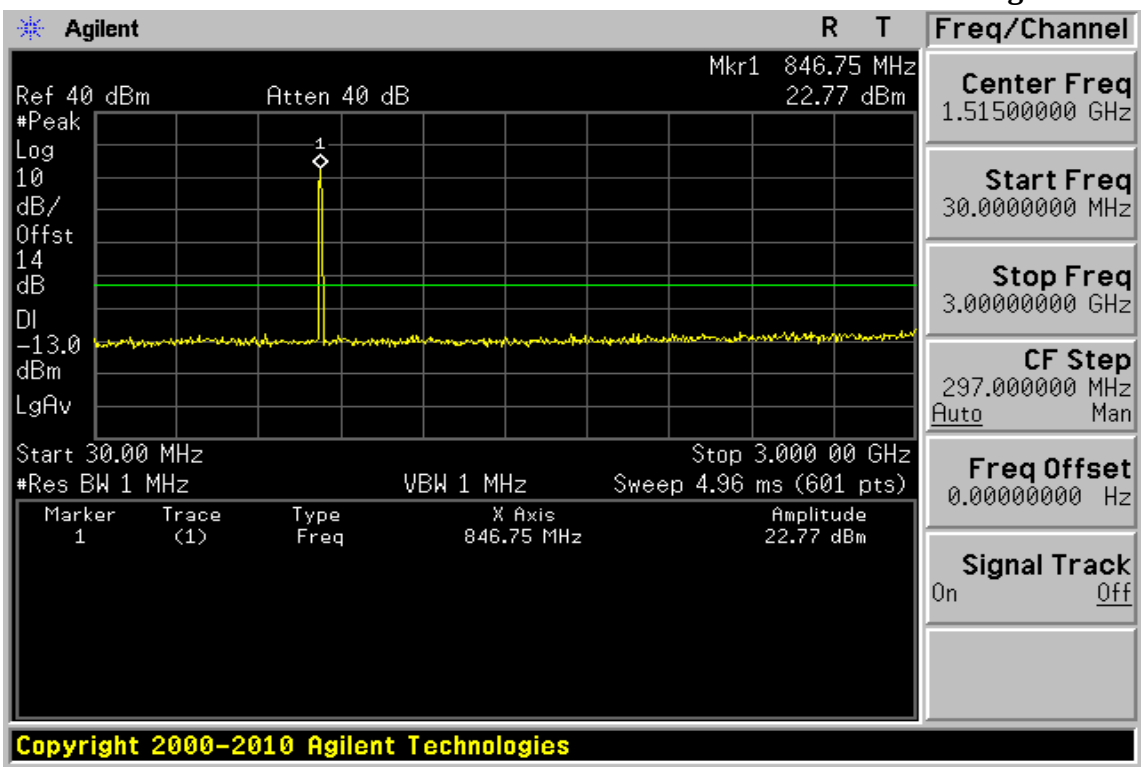
Out of Band emission at antenna terminals – WCDMA V Channel Mid

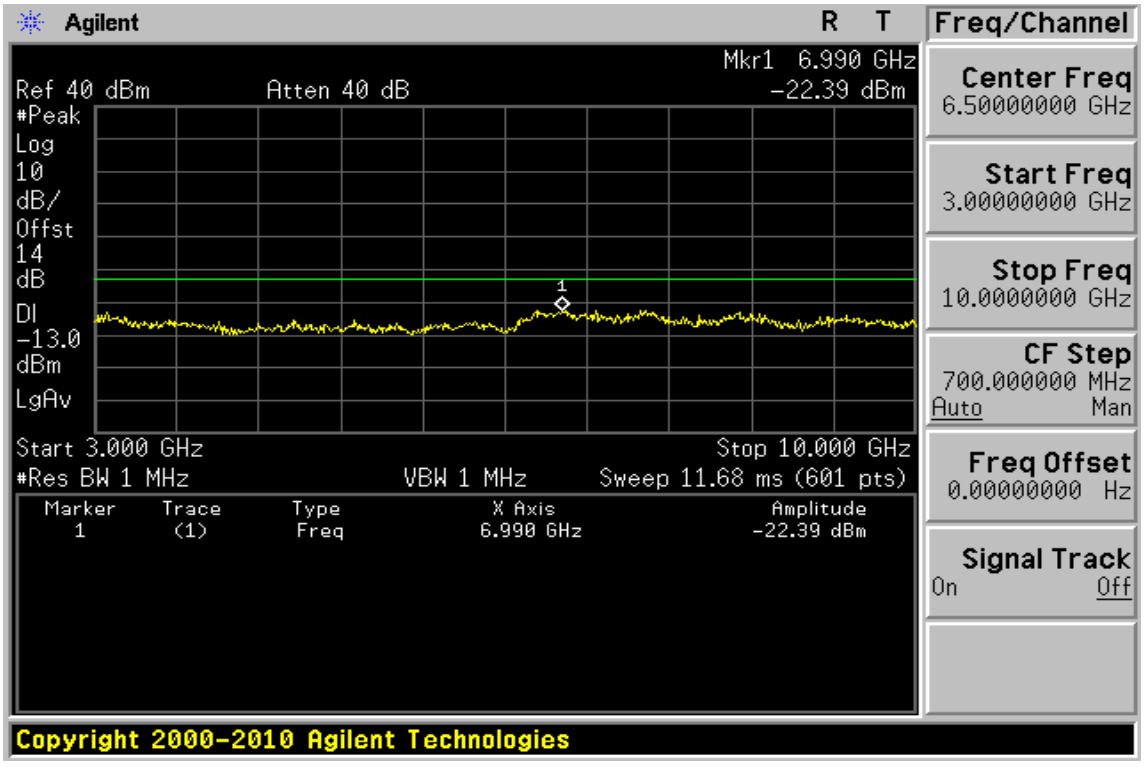




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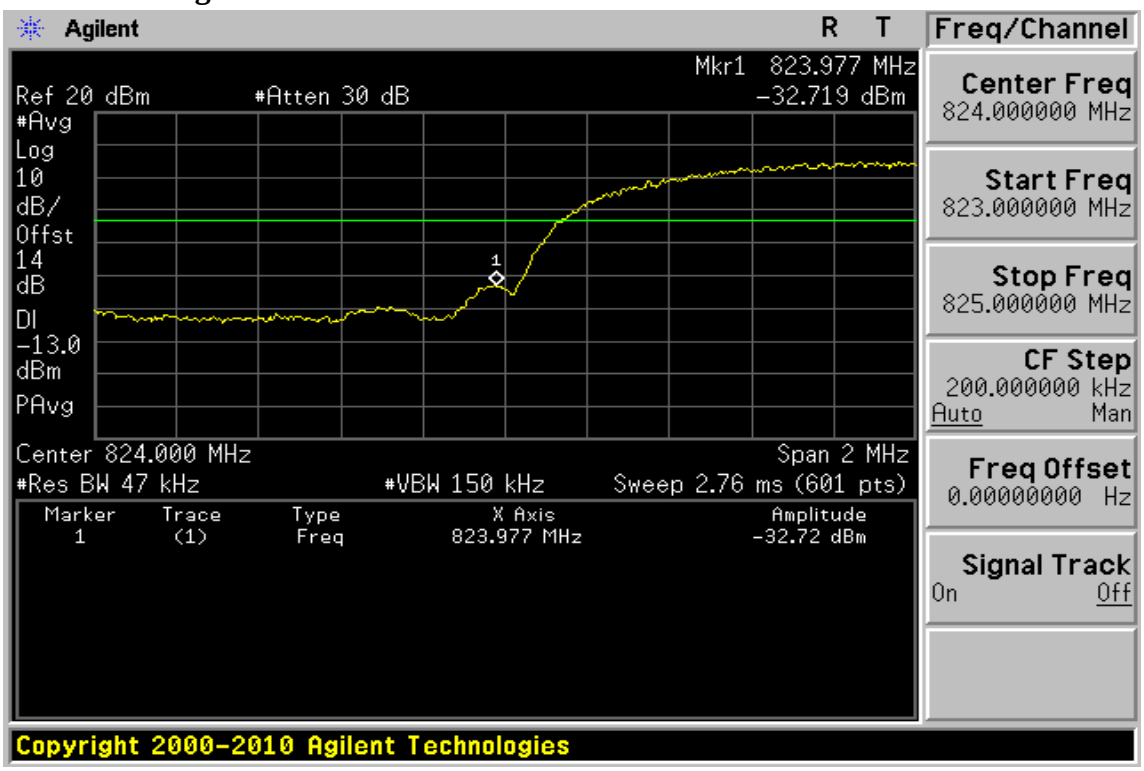
Out of Band emission at antenna terminals – WCDMA V Channel Highest



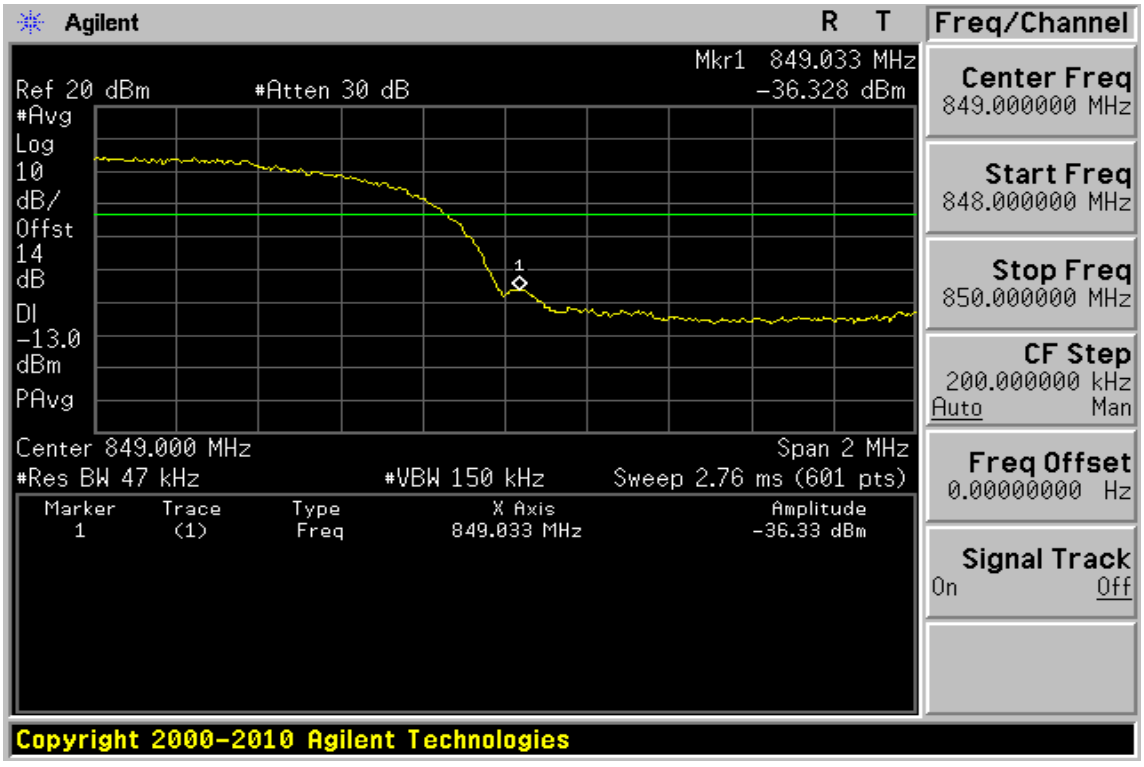


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Band edge emission at antenna terminals – WCDMA V Channel Lowest

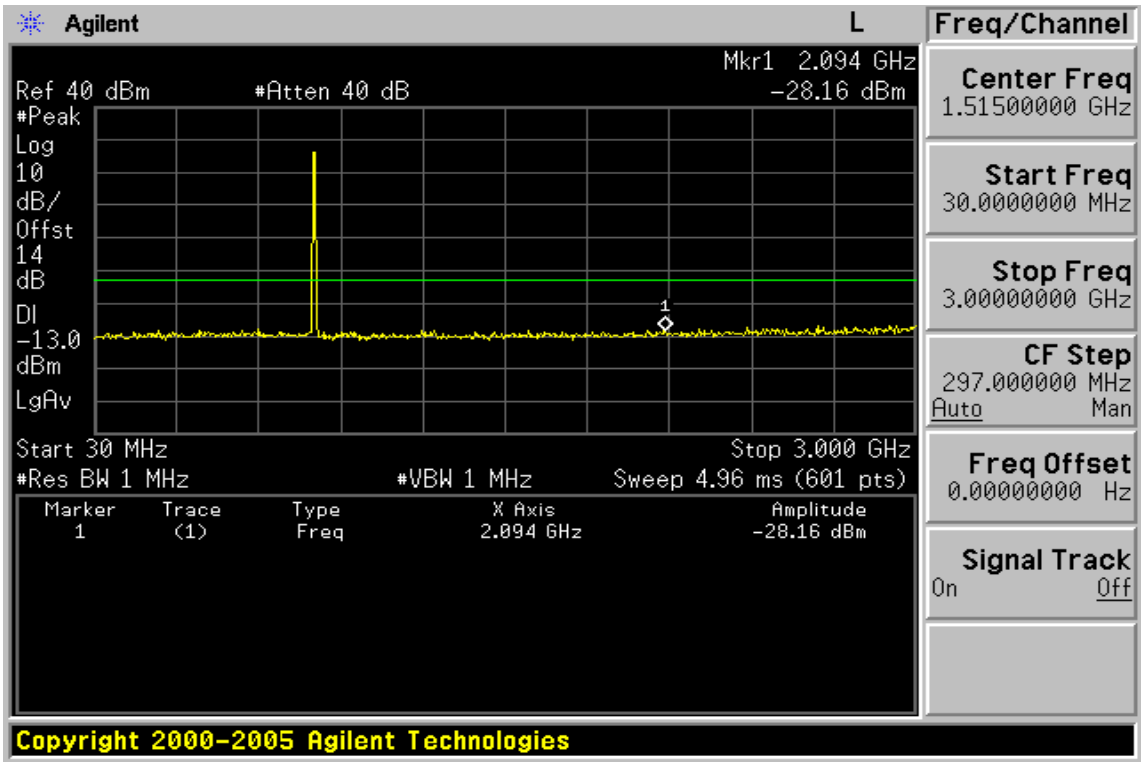


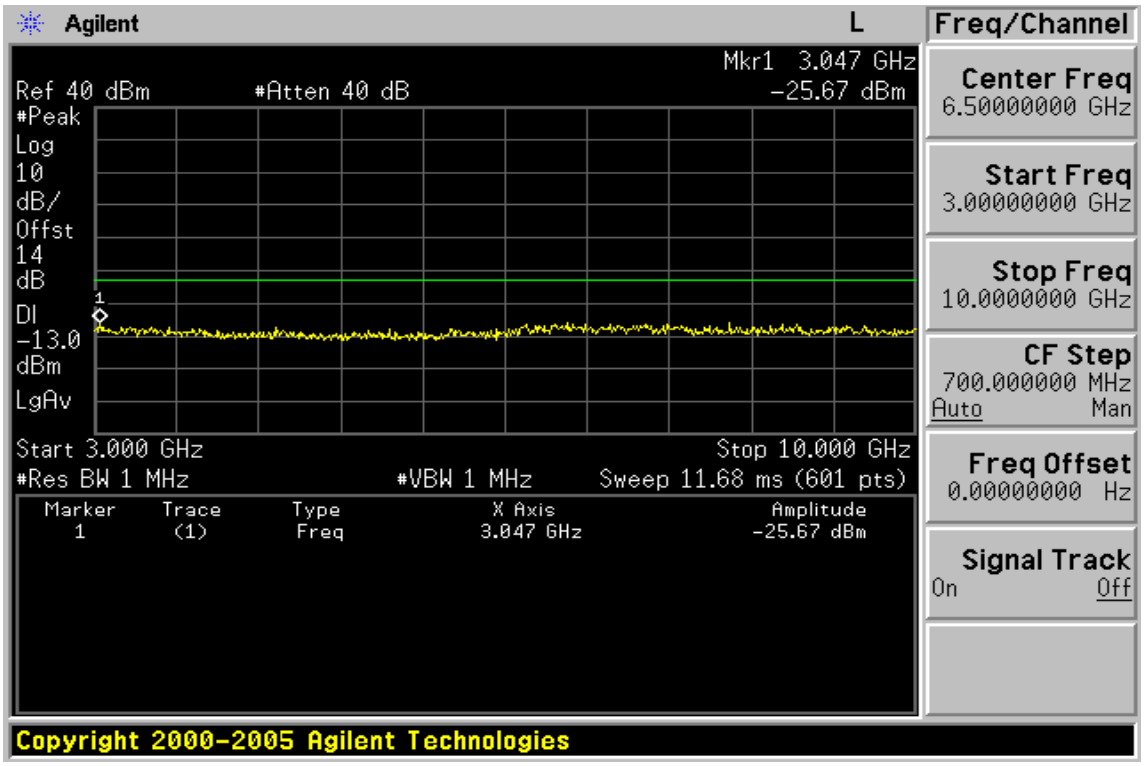
Band edge emission at antenna terminals – WCDMA V Channel Highest



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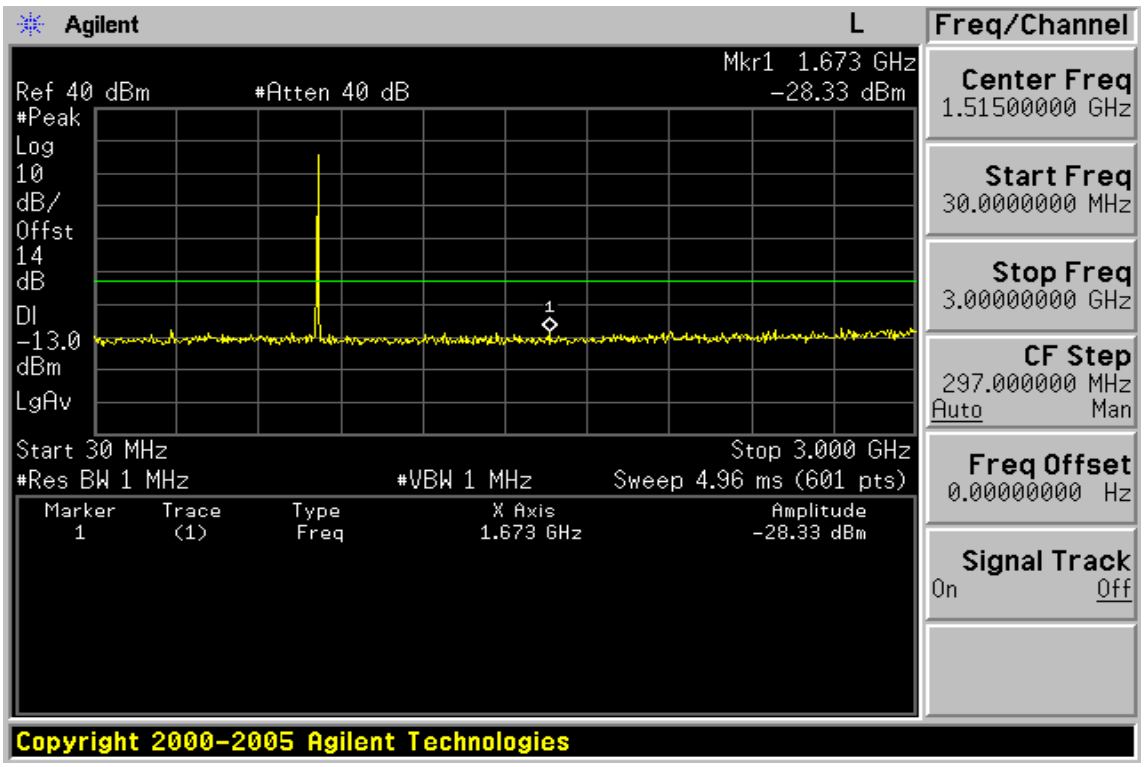
Out of Band emission at antenna terminals – CDMA BC0 Channel Lowest

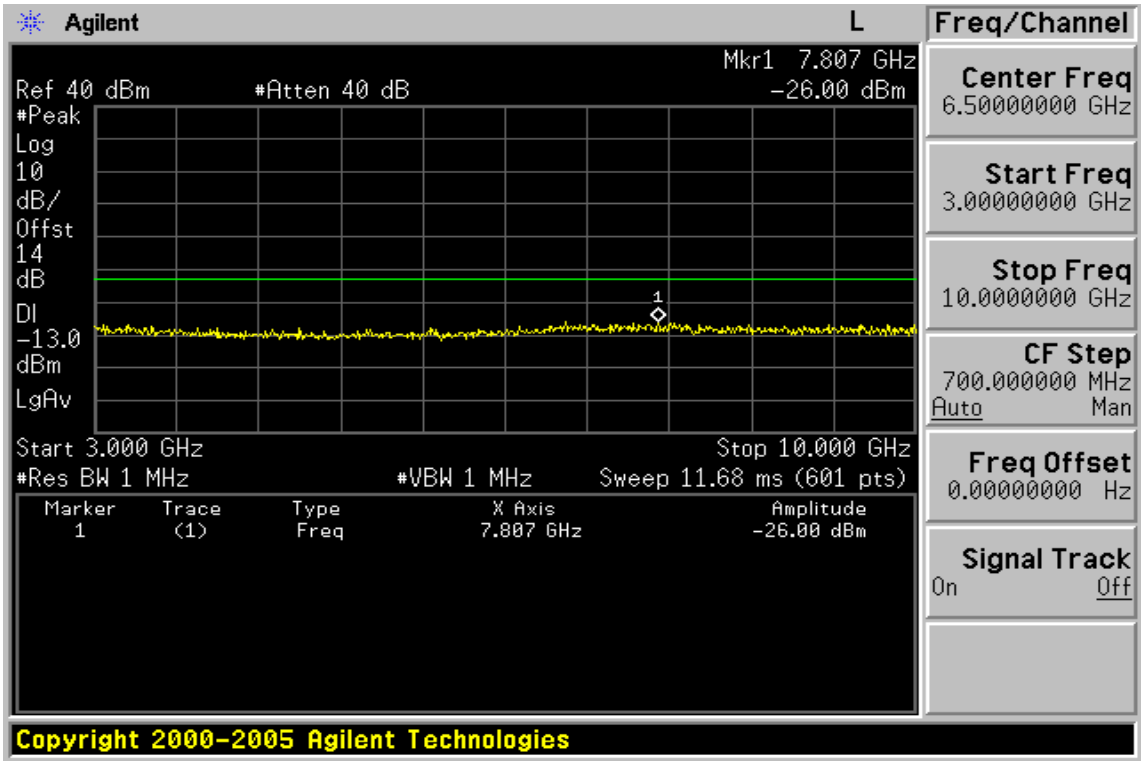




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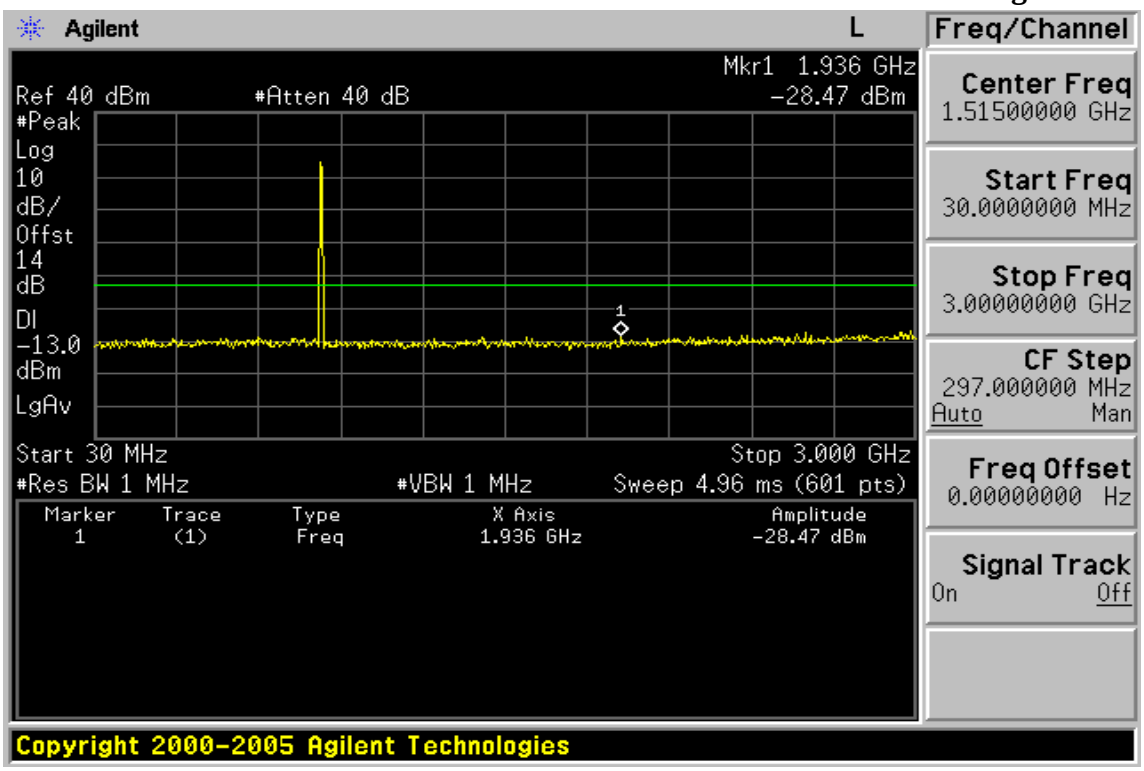
Out of Band emission at antenna terminals – CDMA BC0 Channel Mid

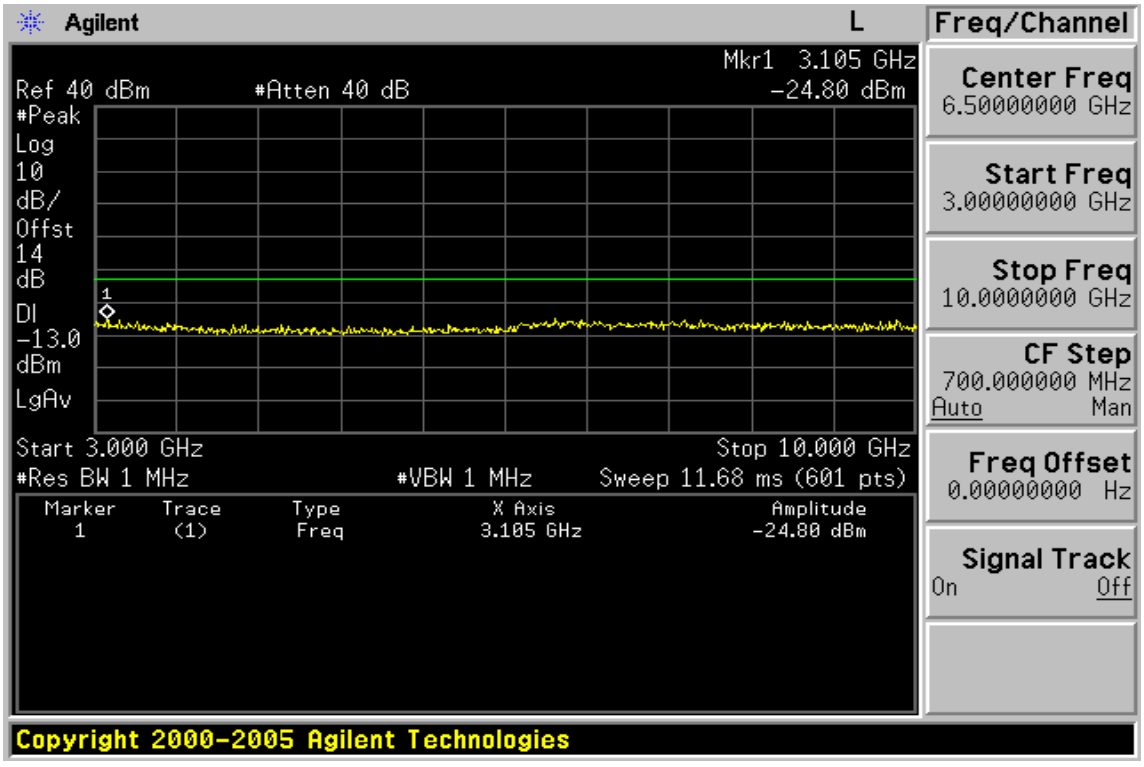




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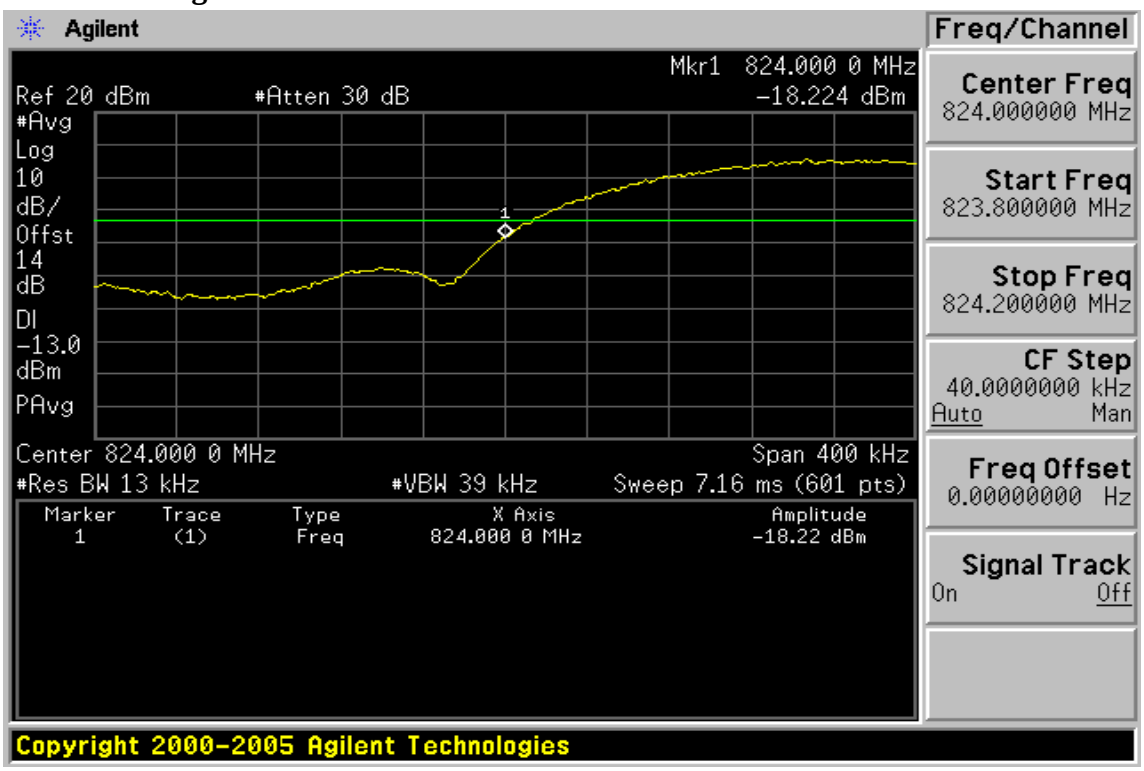
Out of Band emission at antenna terminals – CDMA BC0 Channel Highest



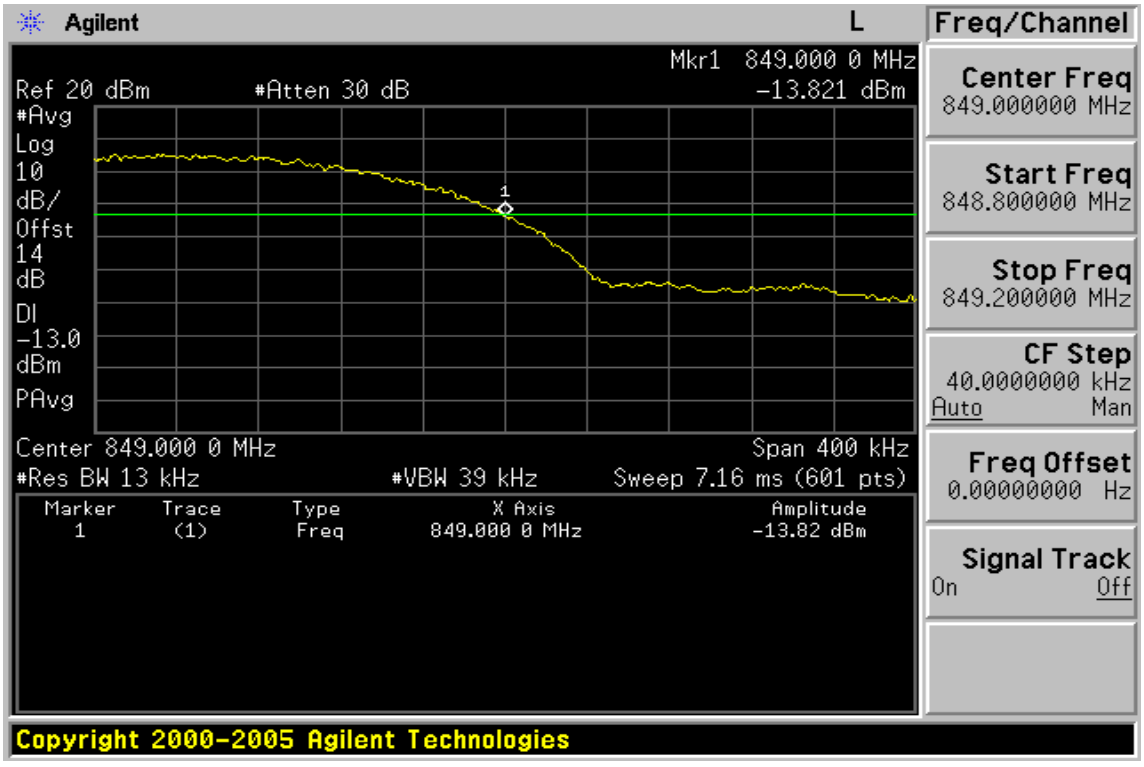


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Band edge emission at antenna terminals – CDMA BC0 Channel Lowest

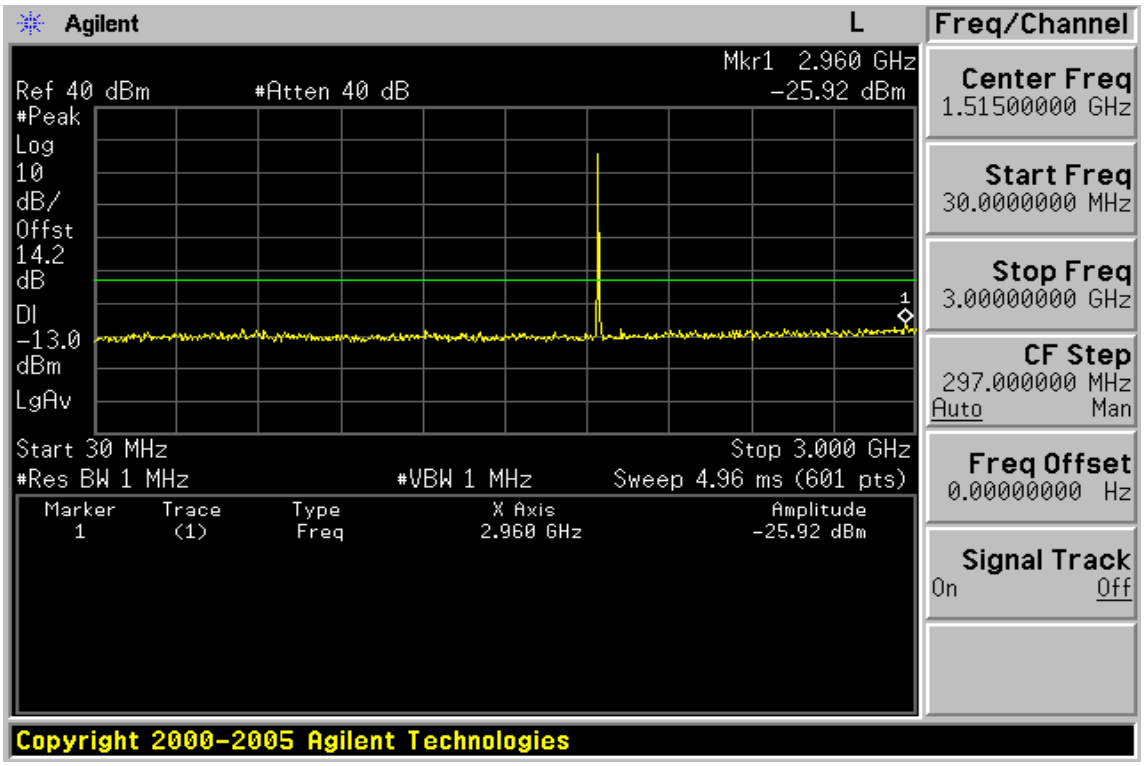


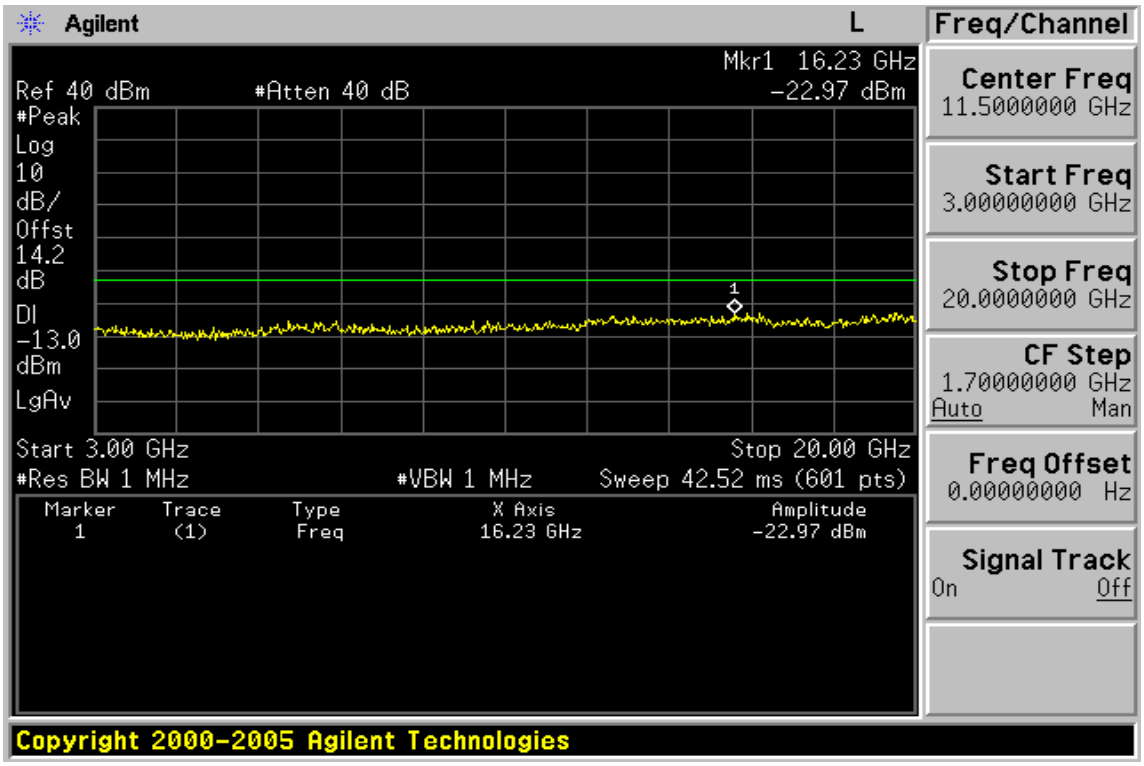
Band edge emission at antenna terminals – CDMA BC0 Channel Highest



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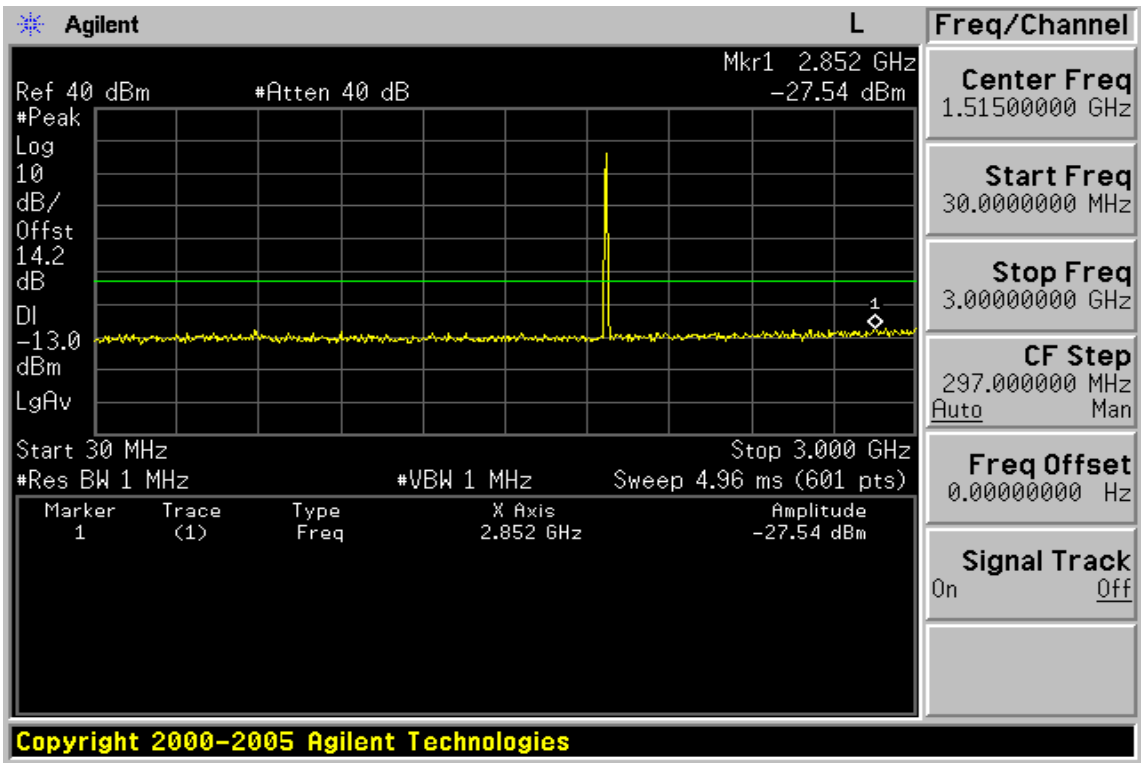
Out of Band emission at antenna terminals – CDMA BC1 Channel Lowest

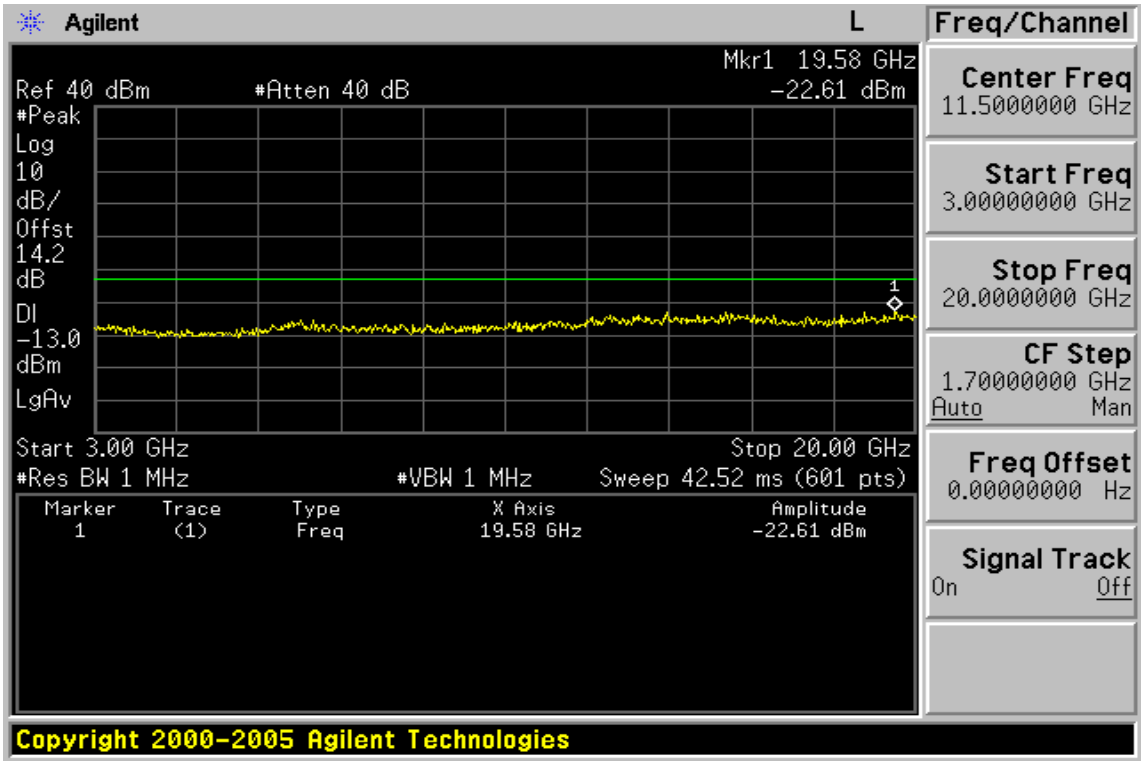




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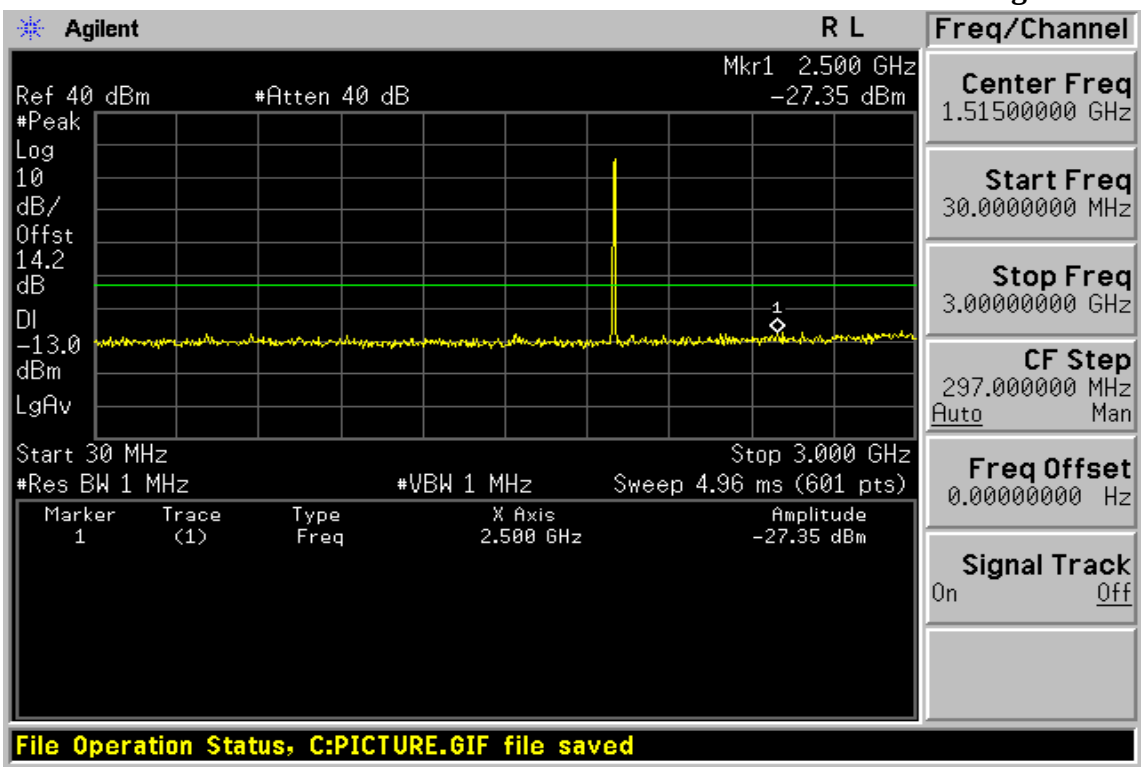
Out of Band emission at antenna terminals – CDMA BC1 Channel Mid

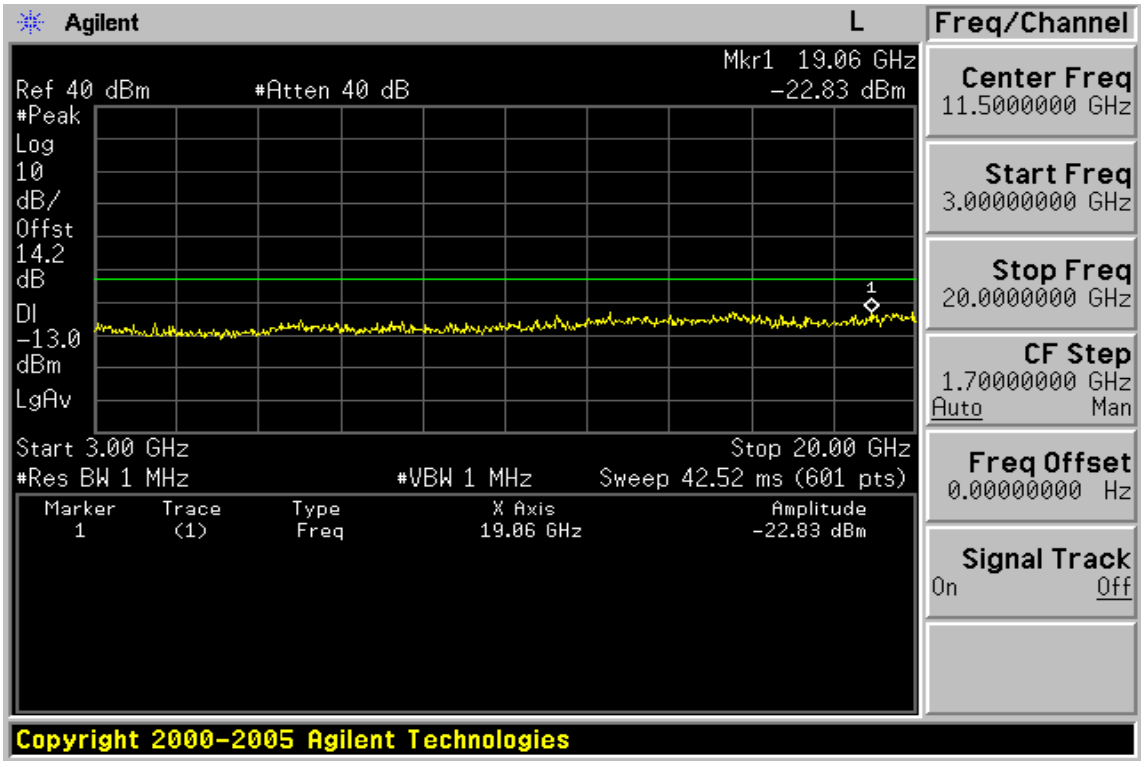




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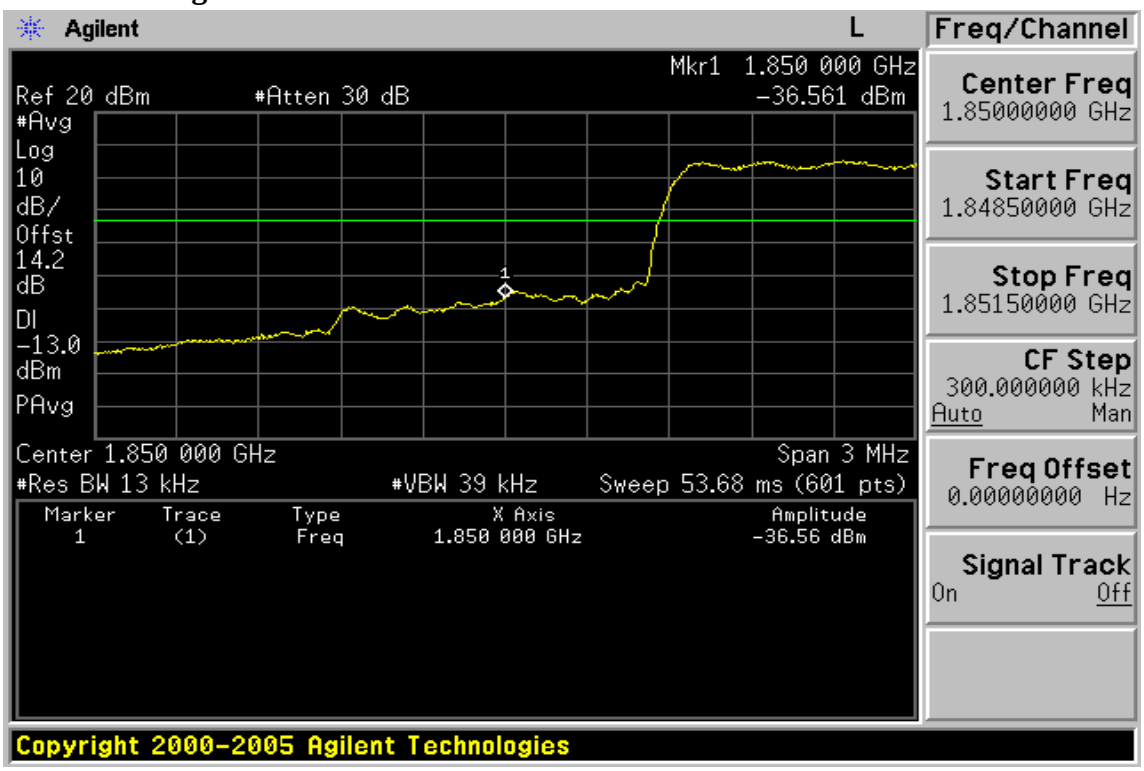
Out of Band emission at antenna terminals – CDMA BC1 Channel Highest



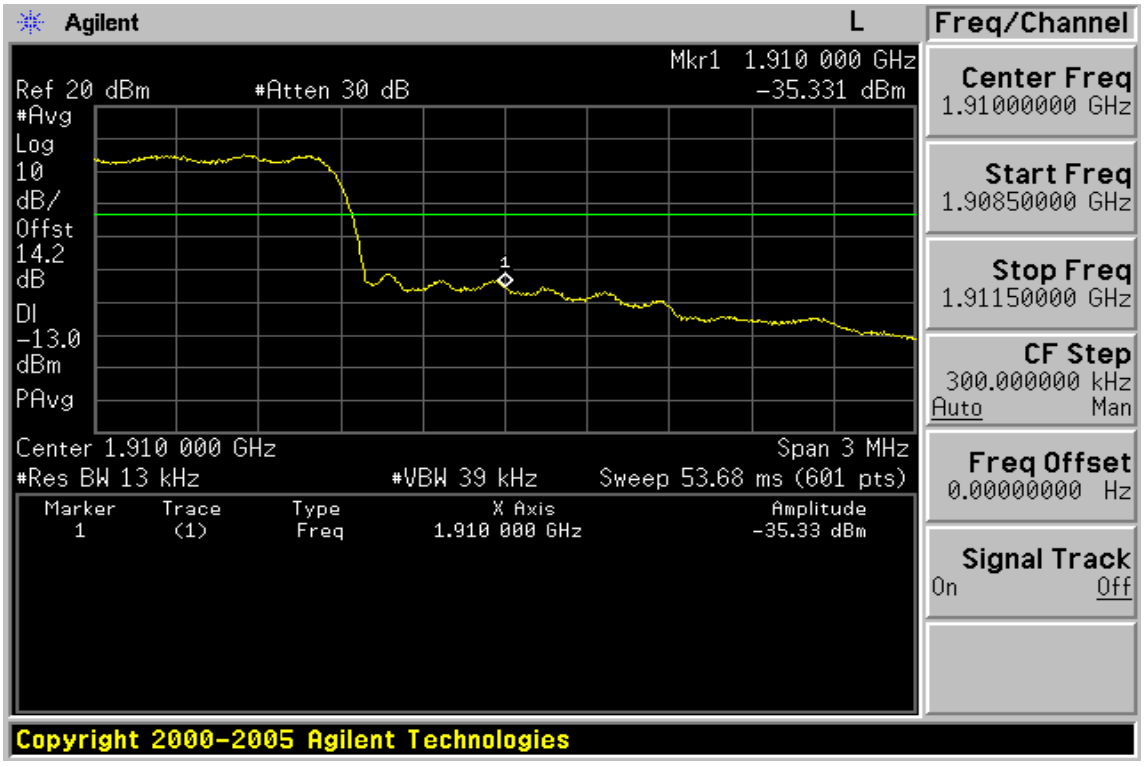


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Band edge emission at antenna terminals – CDMA BC1 Channel Lowest

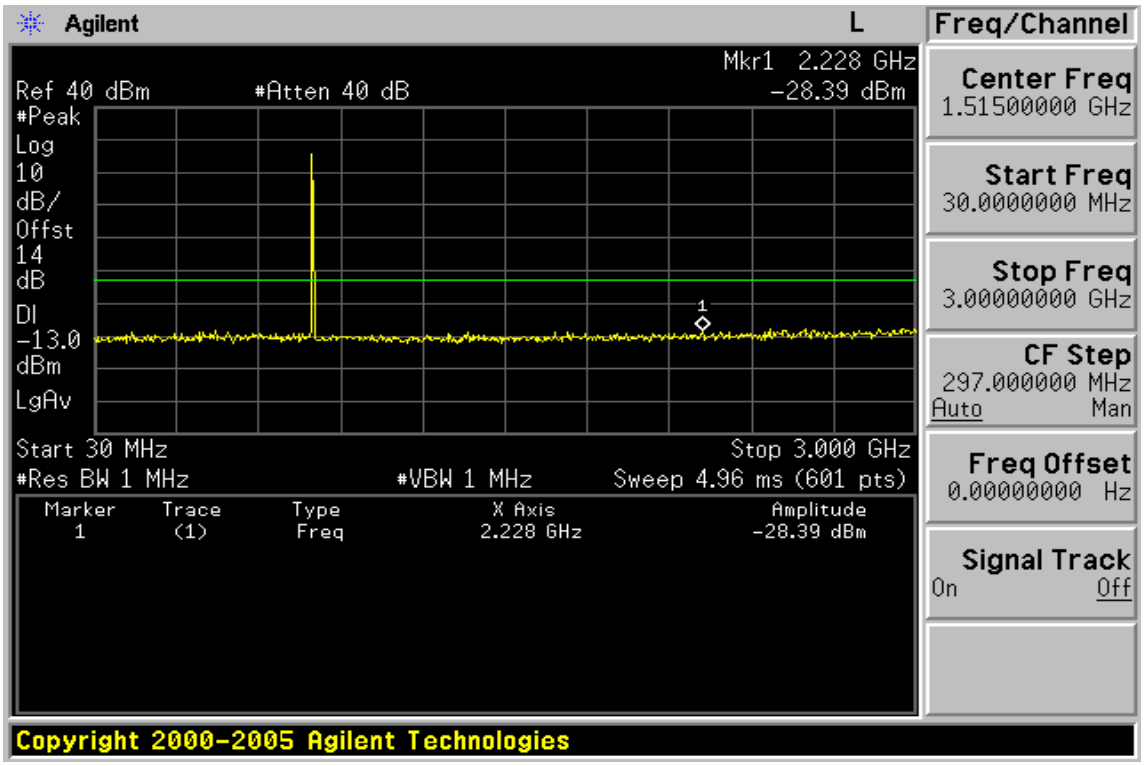


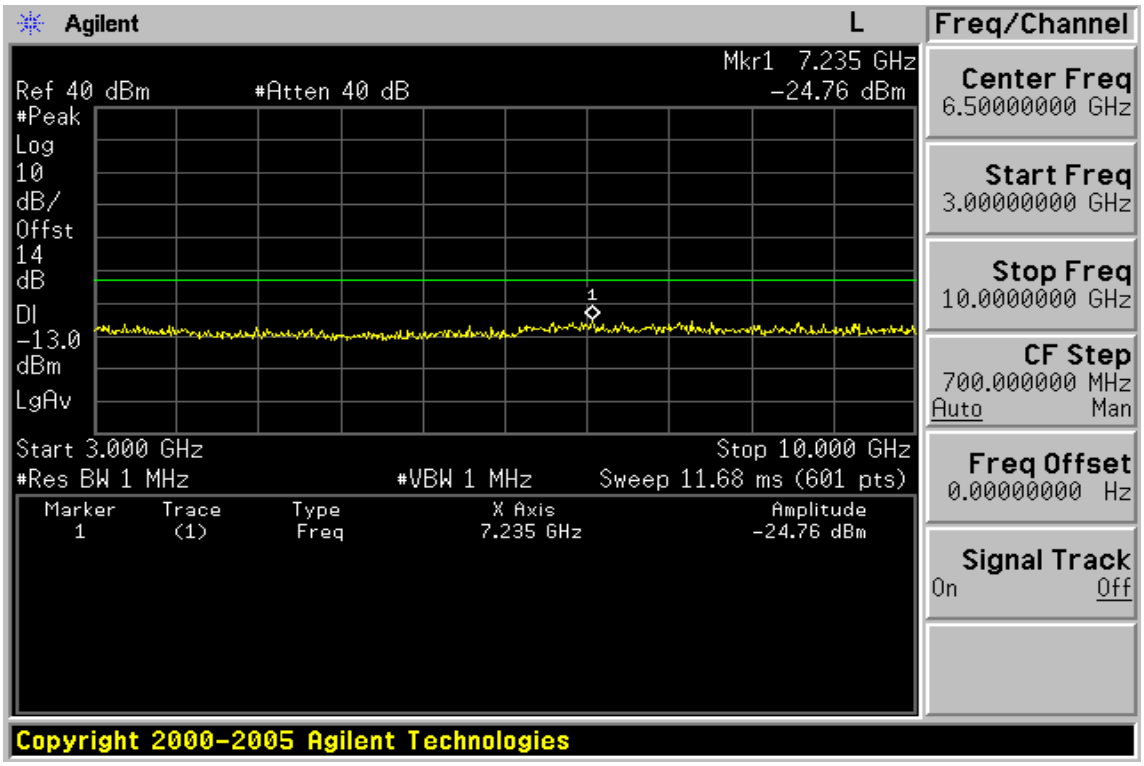
Band edge emission at antenna terminals – CDMA BC1 Channel Highest



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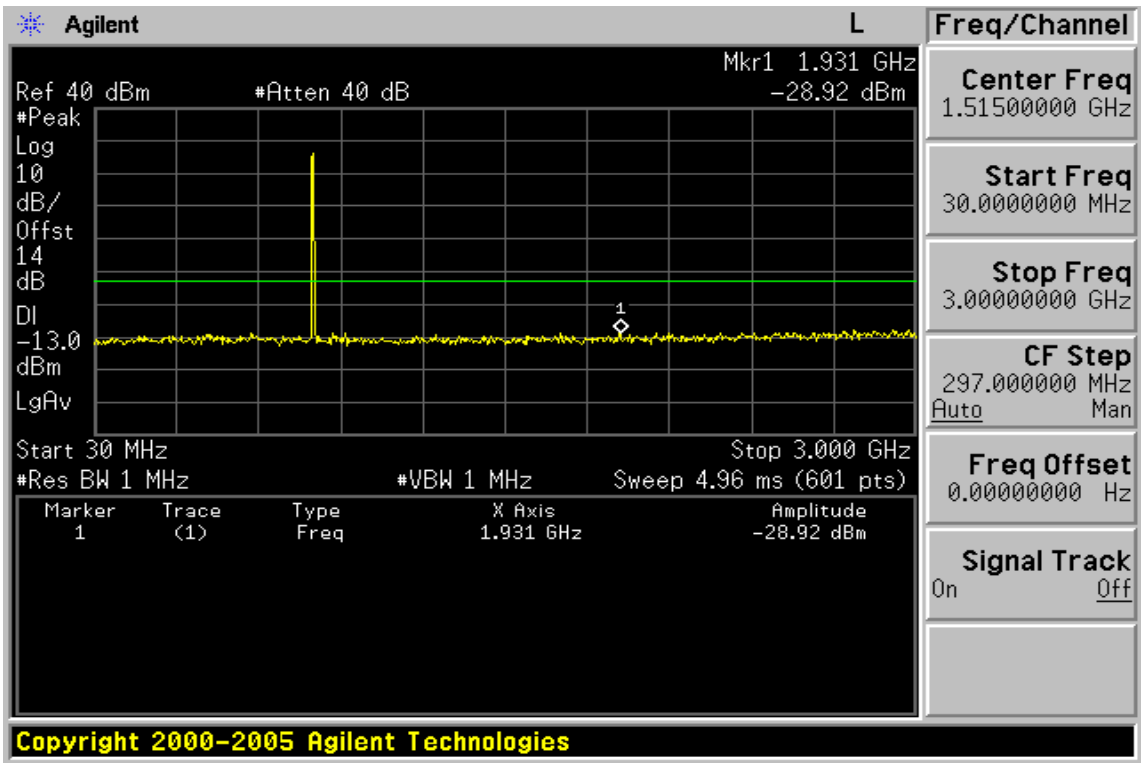
Out of Band emission at antenna terminals – CDMA BC10 Channel Lowest

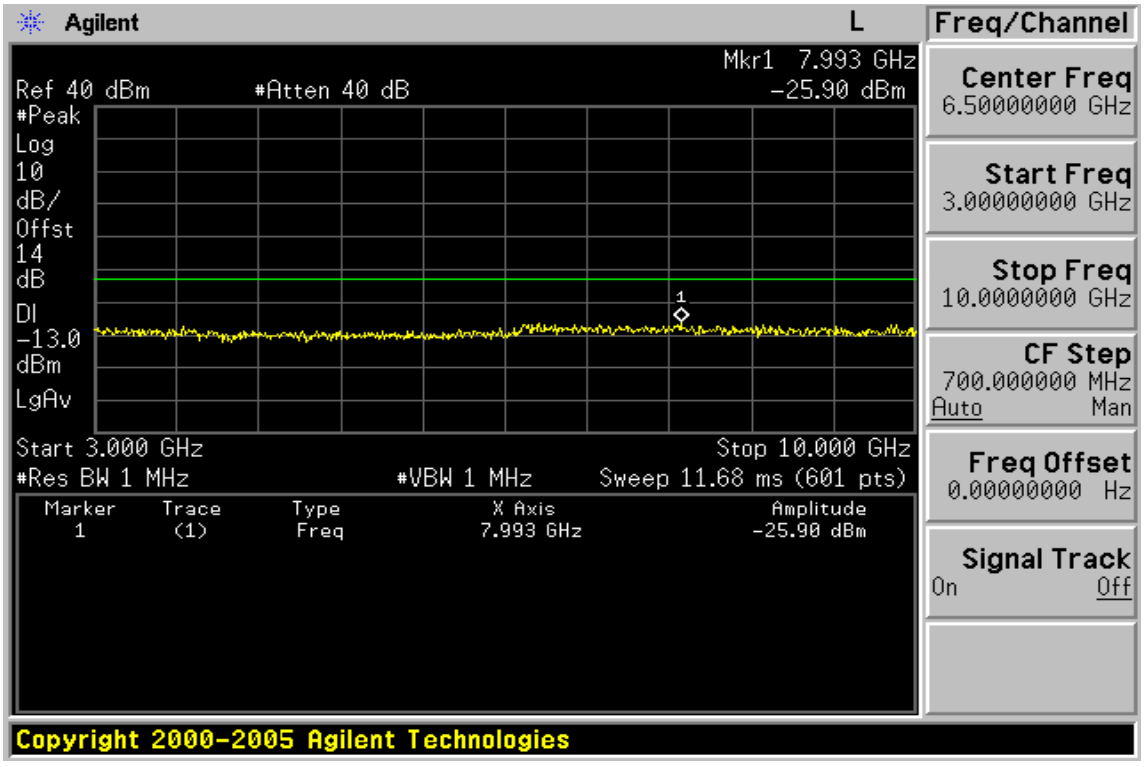




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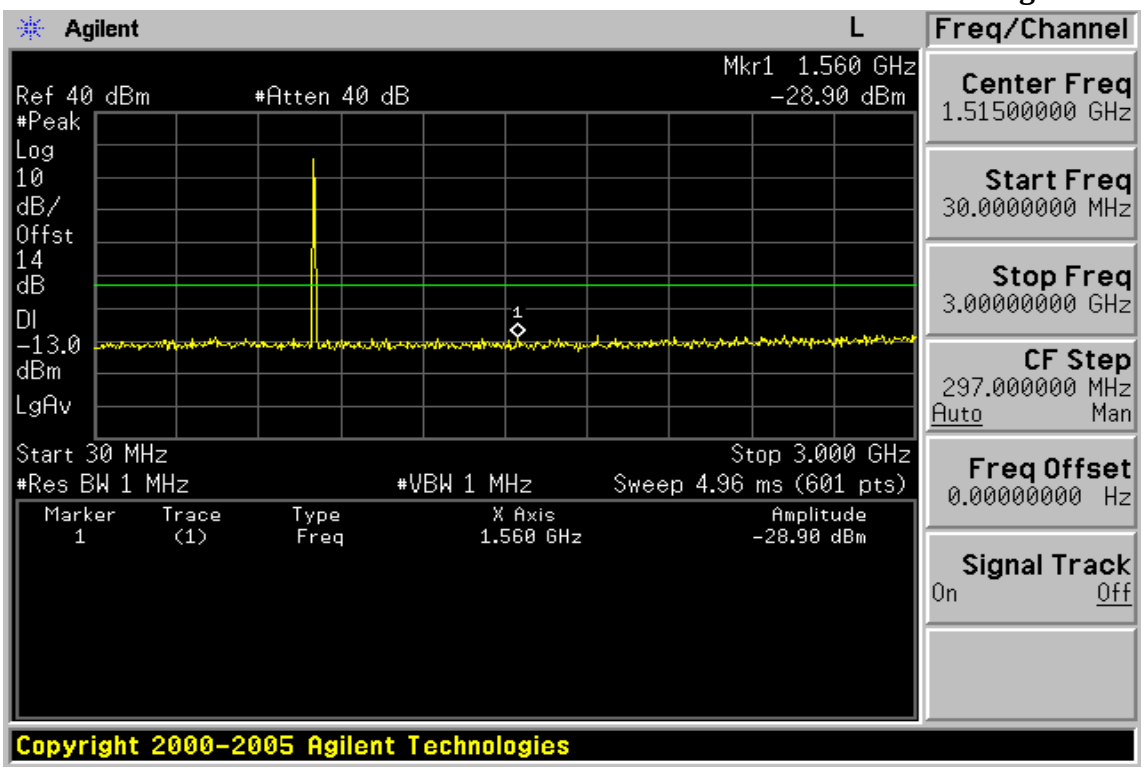
Out of Band emission at antenna terminals – CDMA BC10 Channel Mid

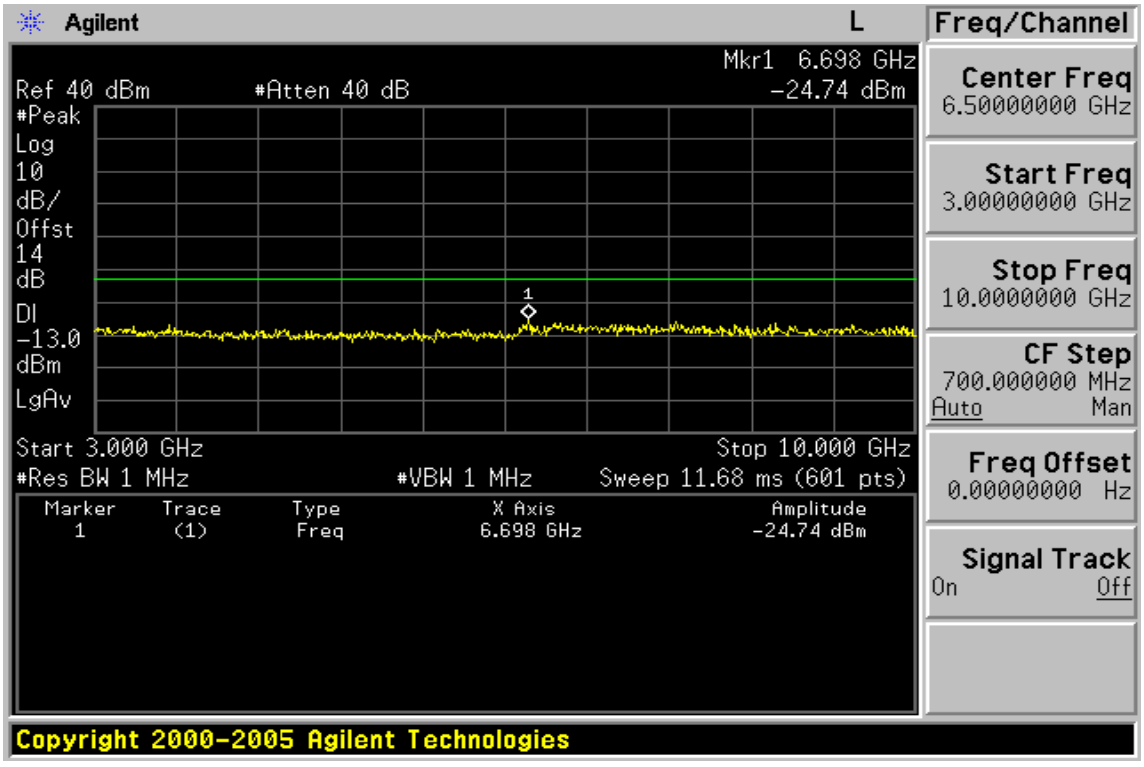




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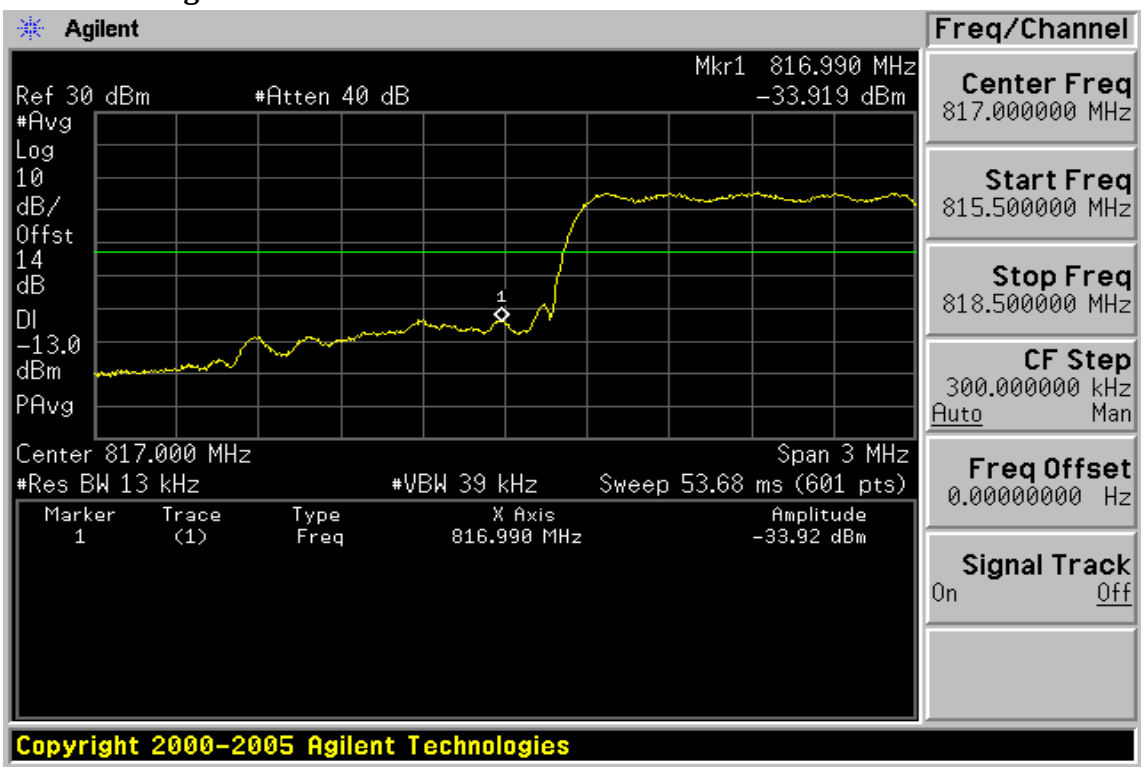
Out of Band emission at antenna terminals – CDMA BC10 Channel Highest



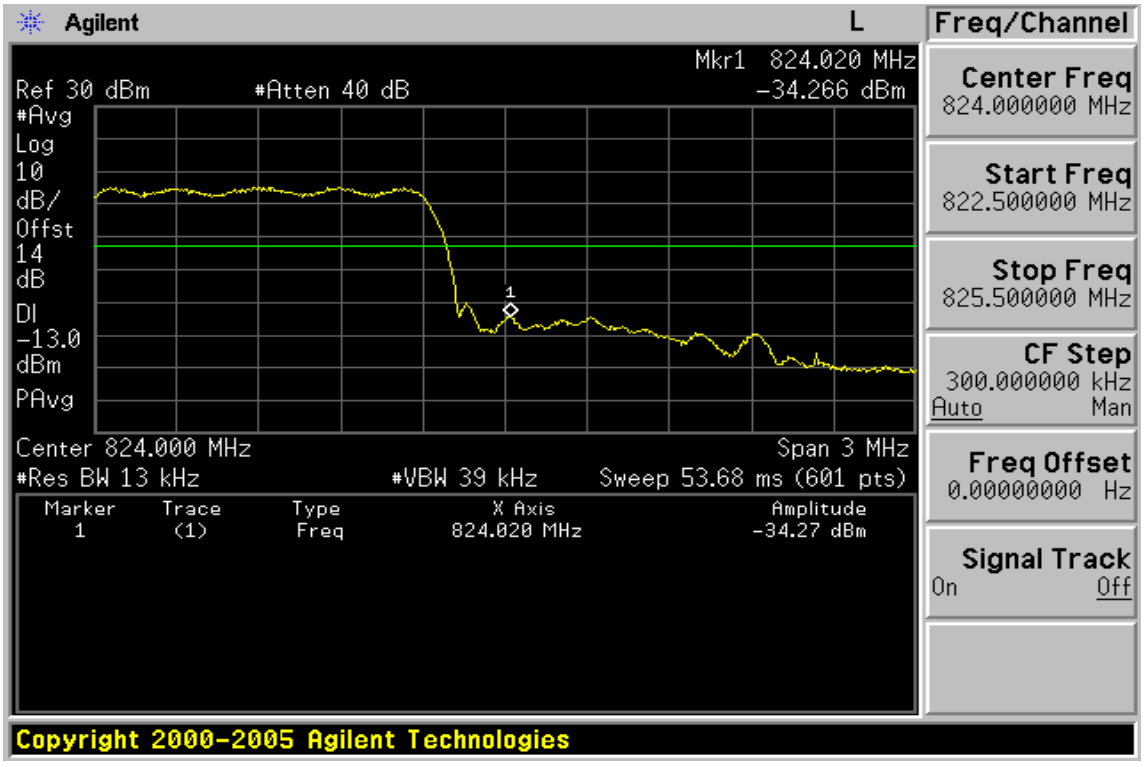


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Band edge emission at antenna terminals – CDMA BC10 Channel Lowest

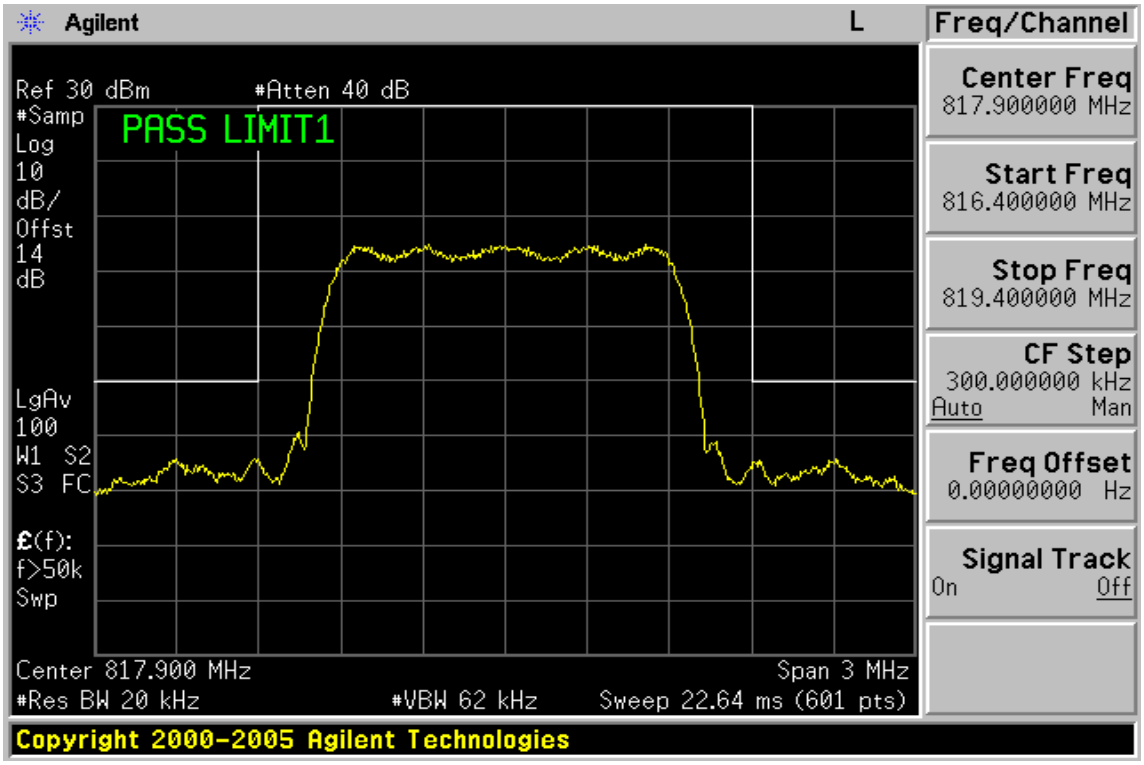


Band edge emission at antenna terminals – CDMA BC10 Channel Highest

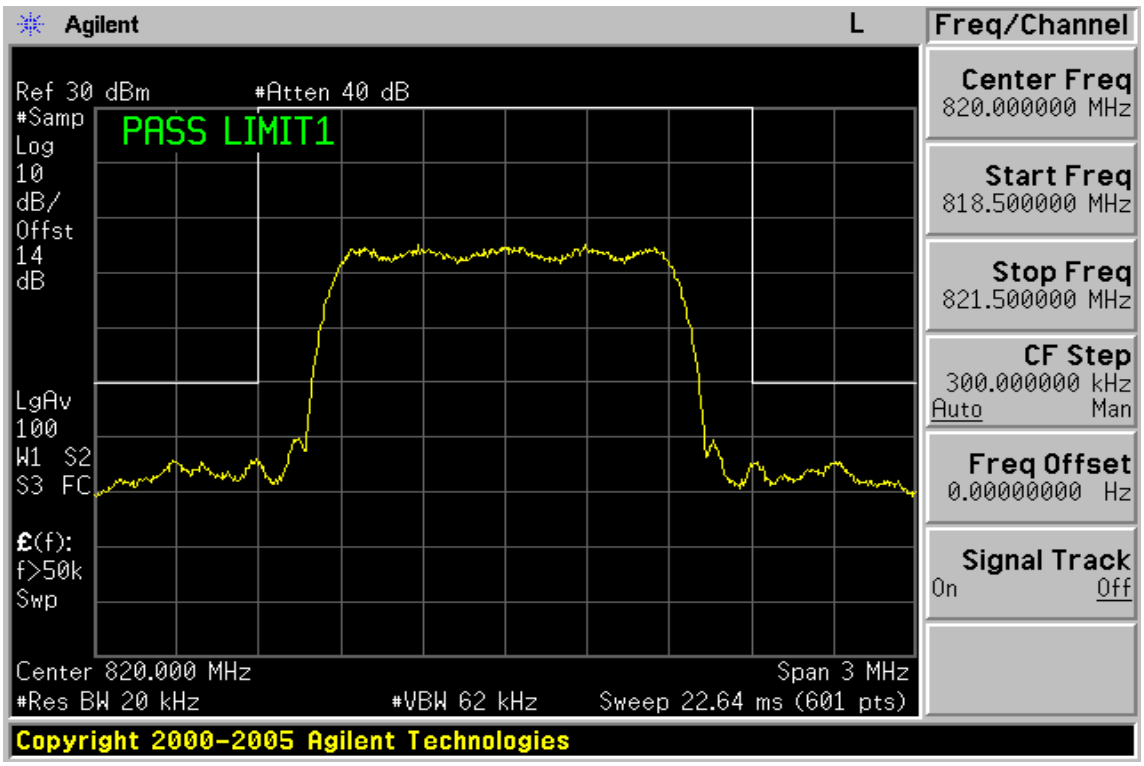


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Emission Mask CDMA2000 BC10 Channel Low

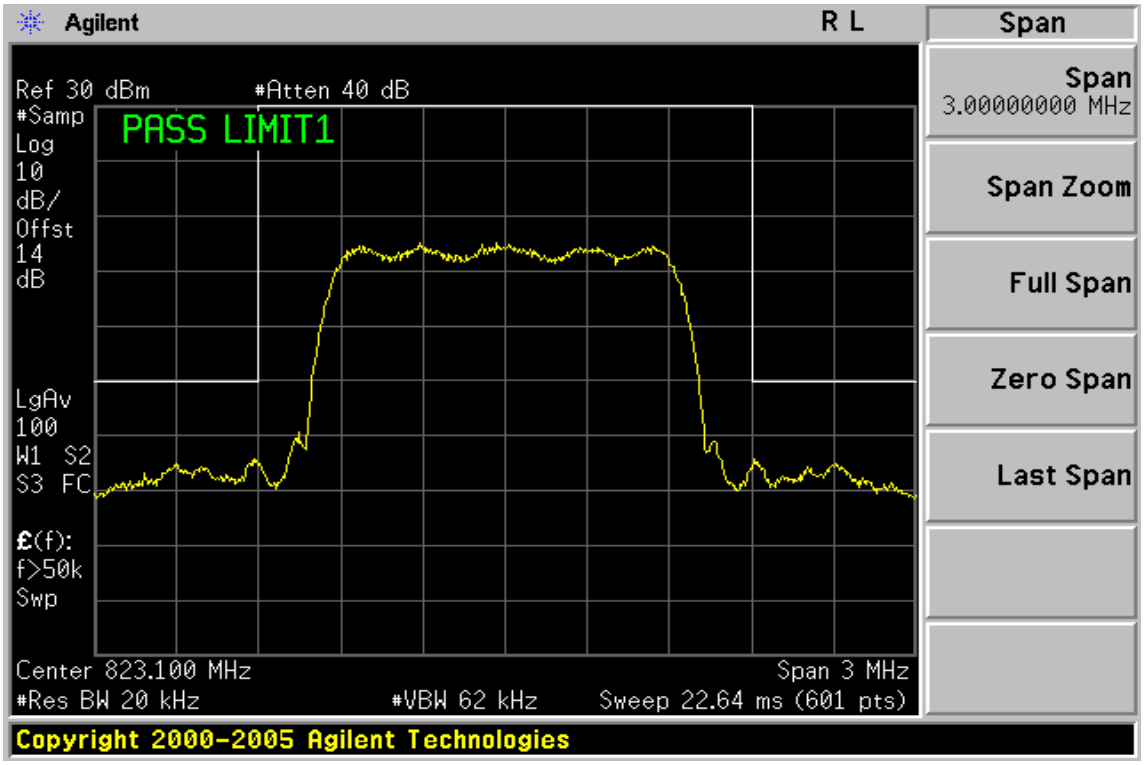


Emission Mask CDMA2000 BC10 Channel Mid



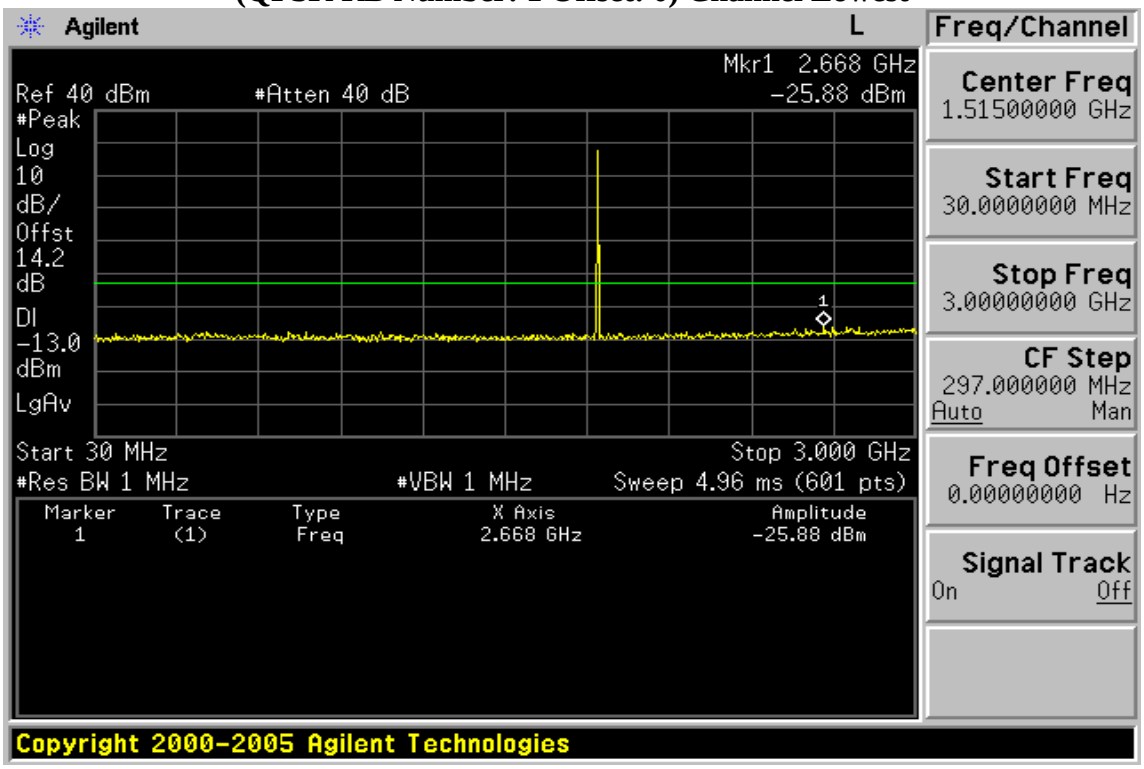
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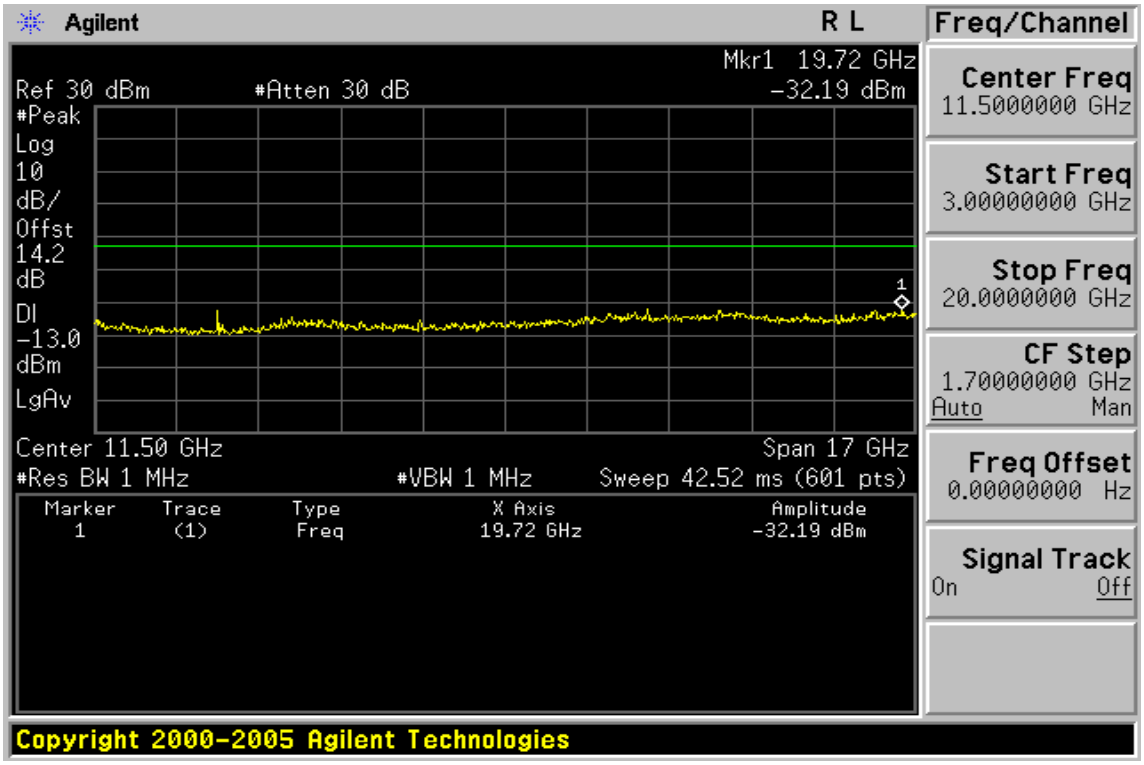
Emission Mask CDMA2000 BC10 Channel High



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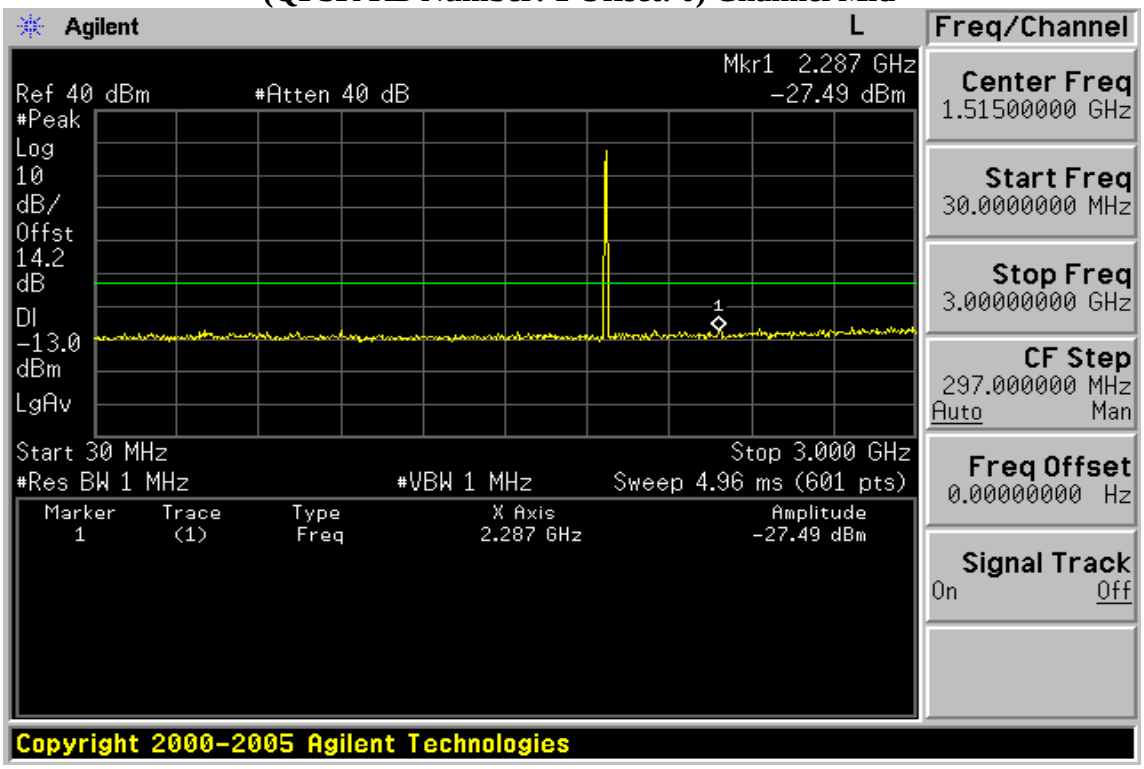
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

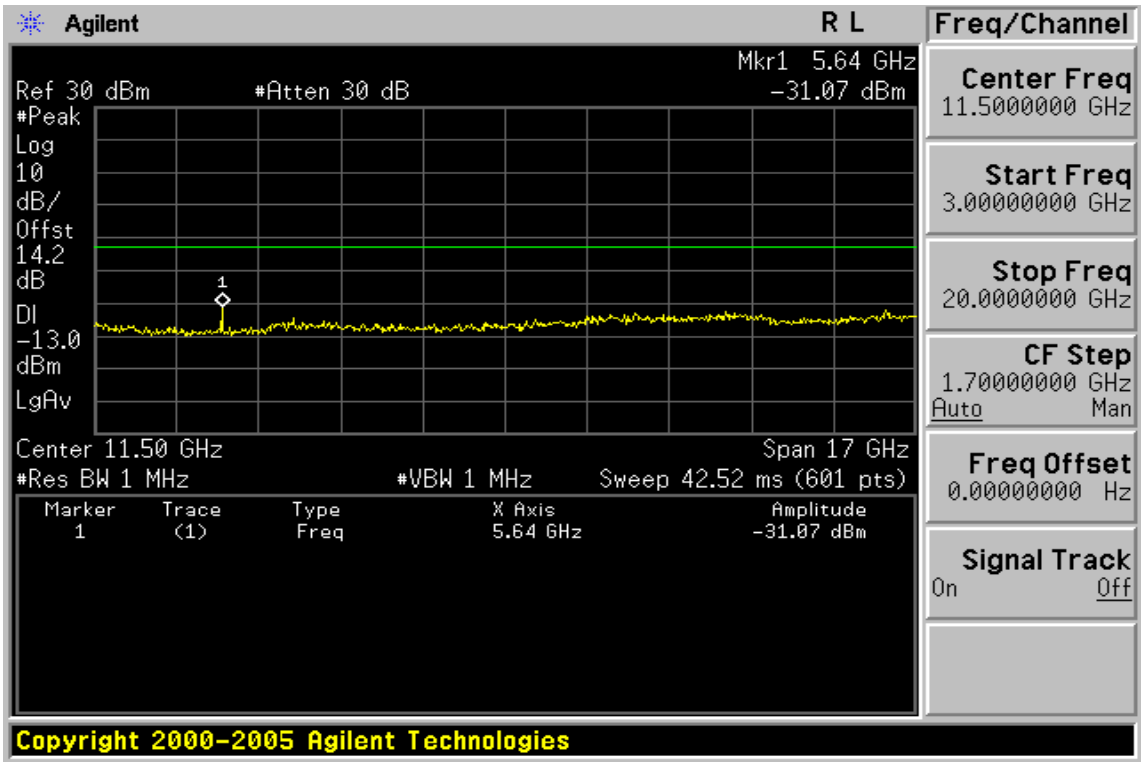




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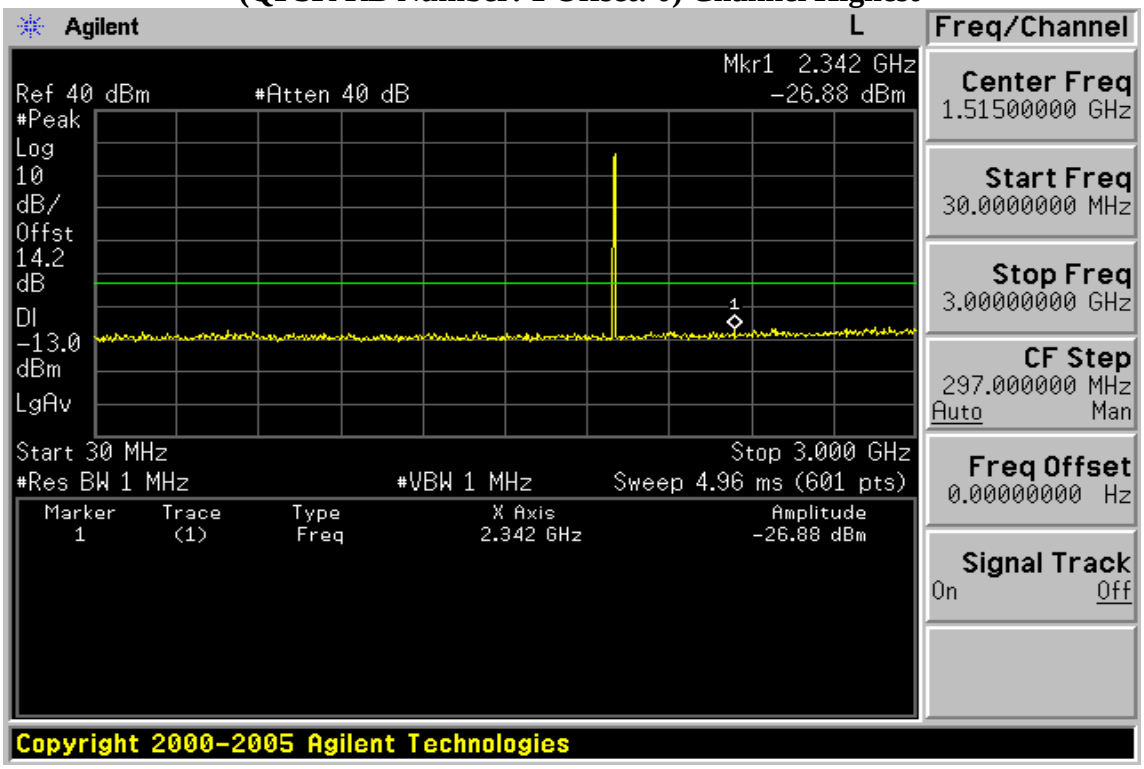
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

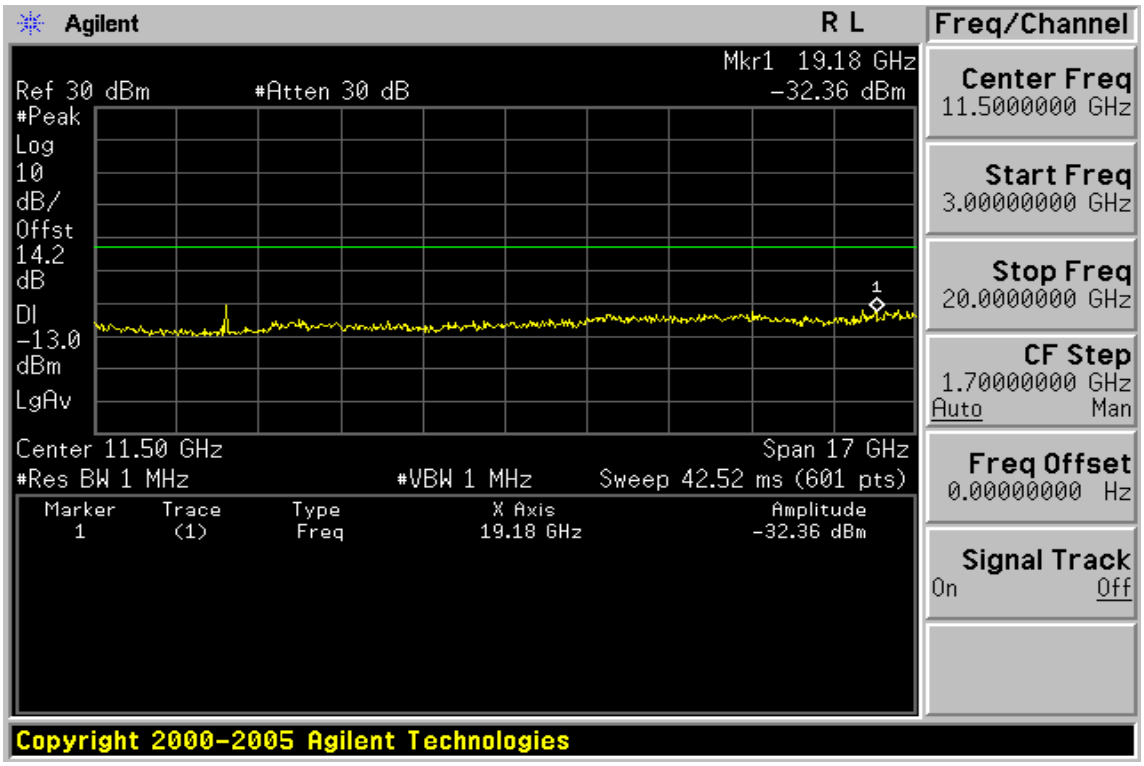




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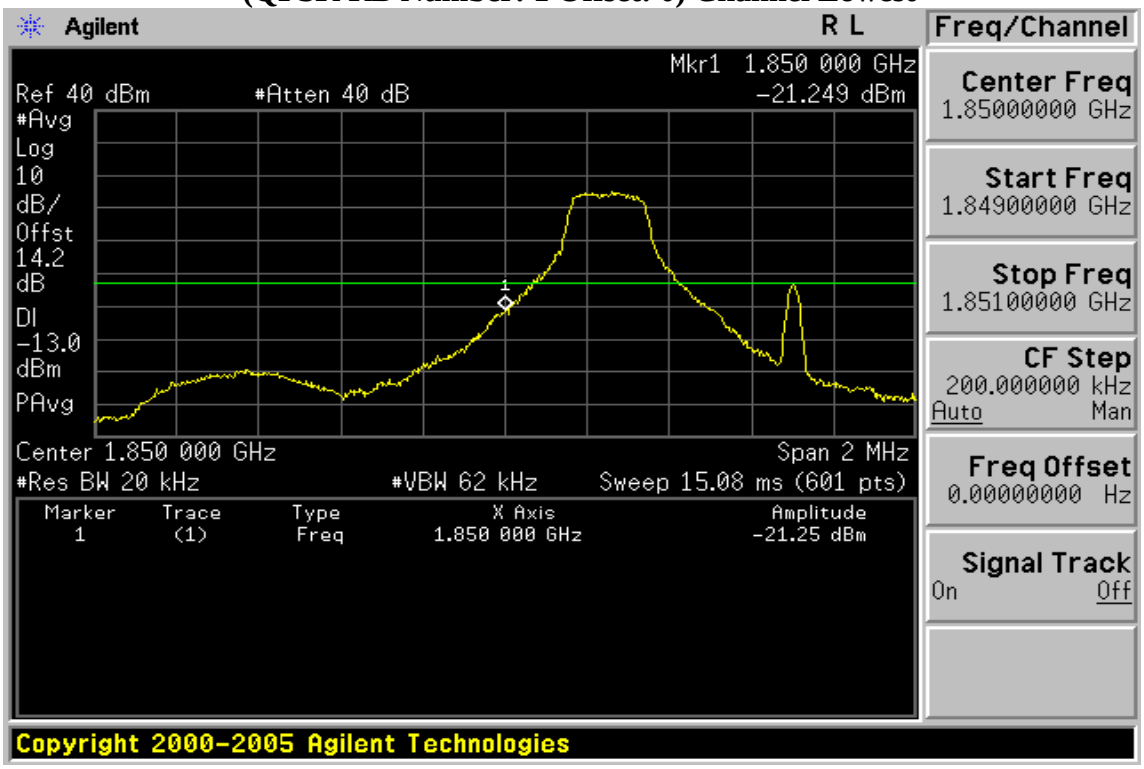
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



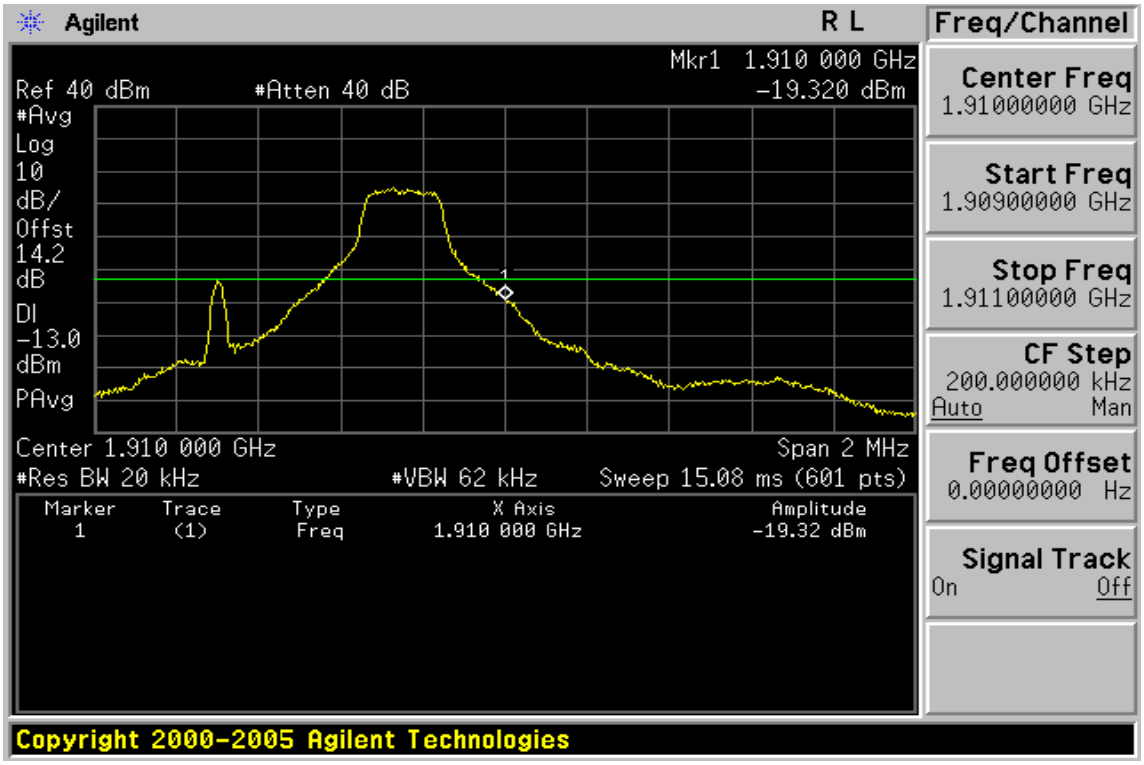


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

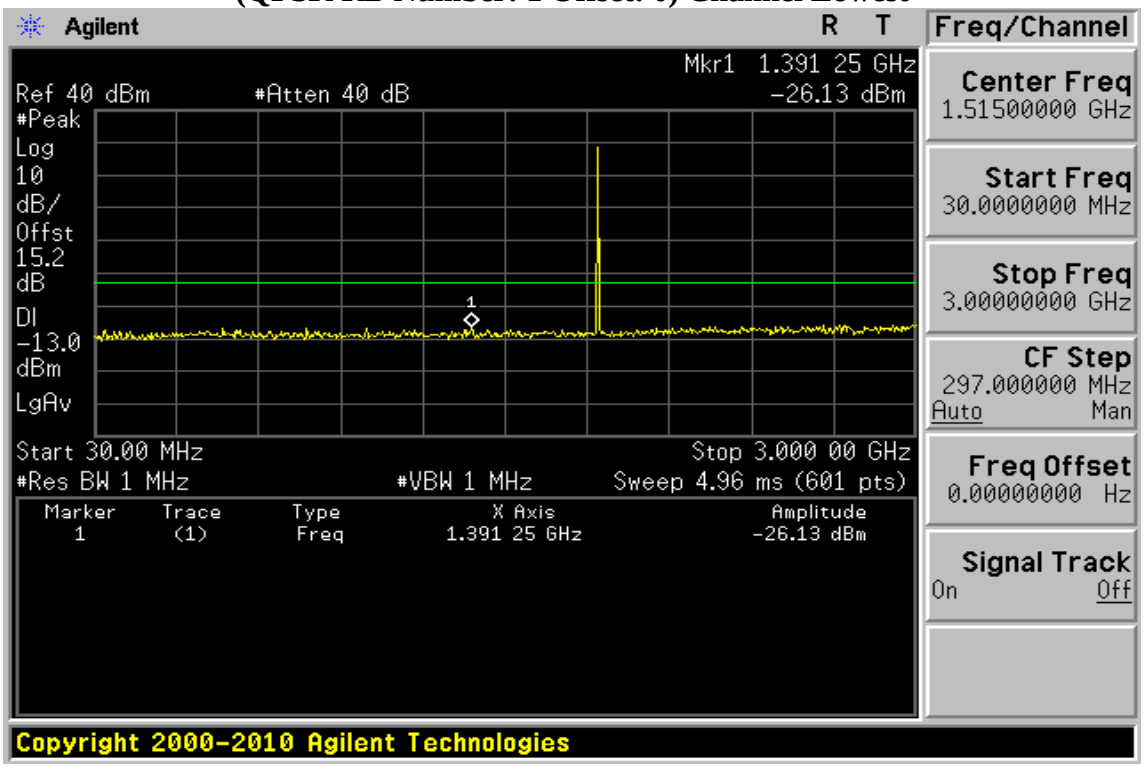


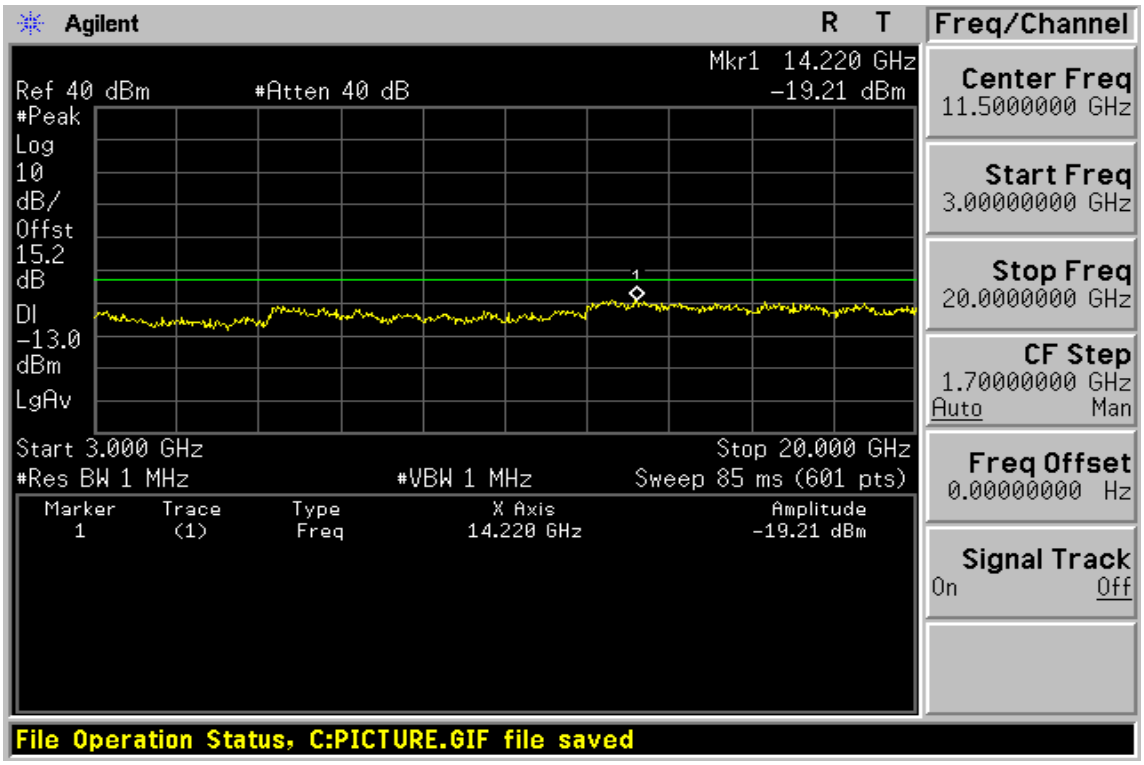
Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 5) Channel Highest



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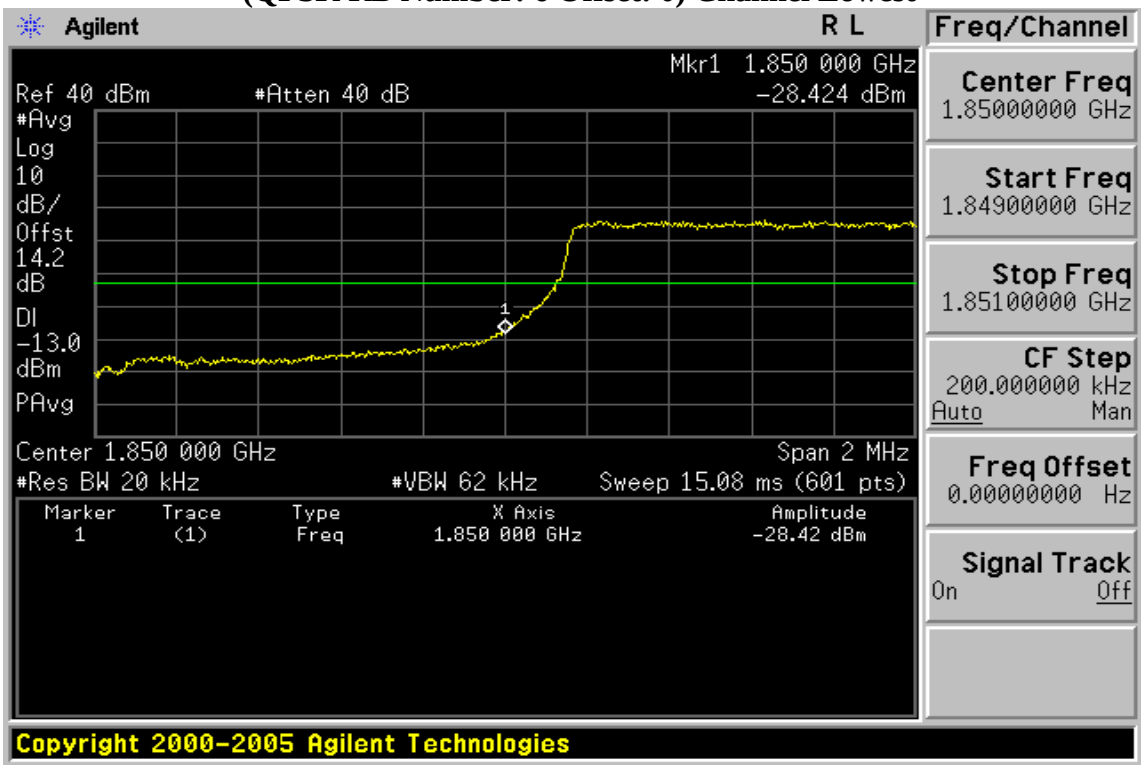
Out of Band emission at antenna terminals–3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest



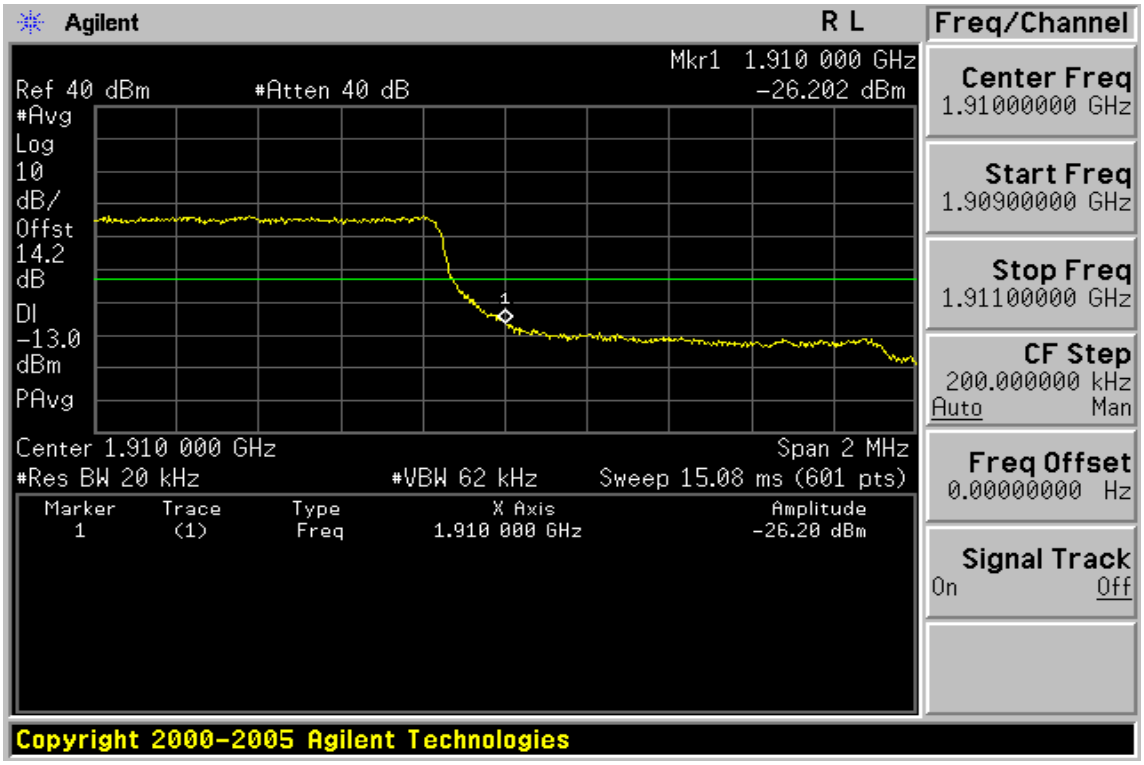


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 6 Offset: 0) Channel Lowest

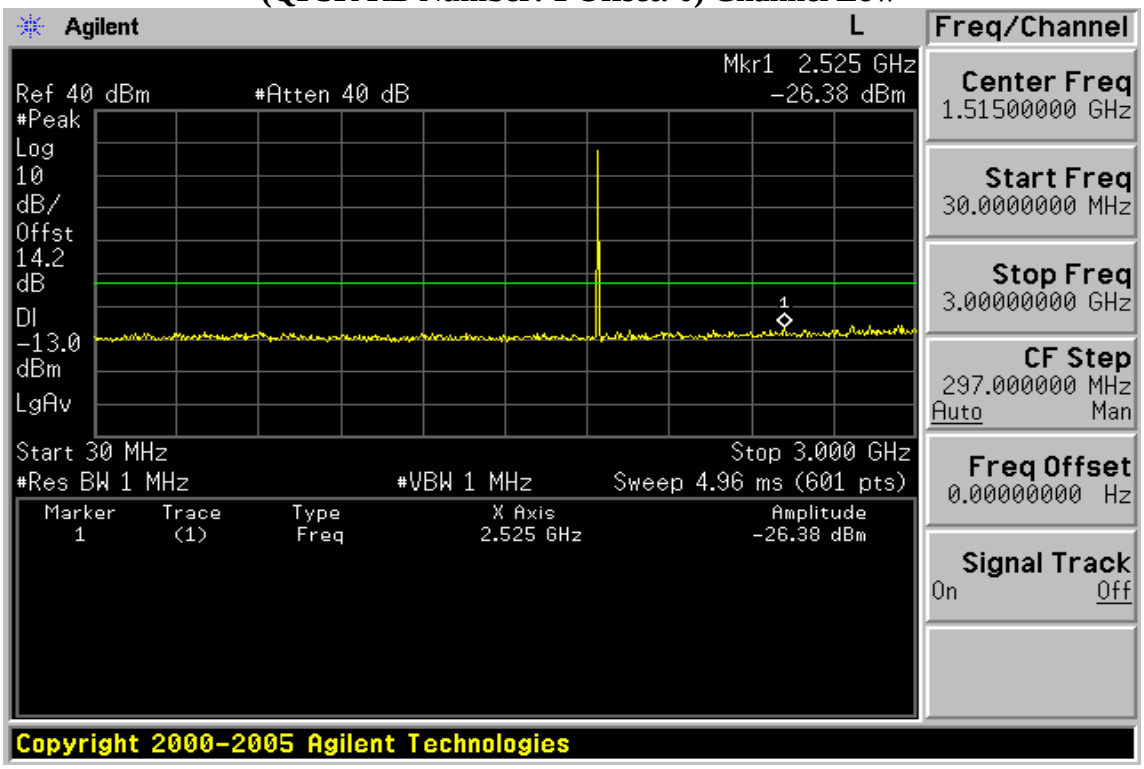


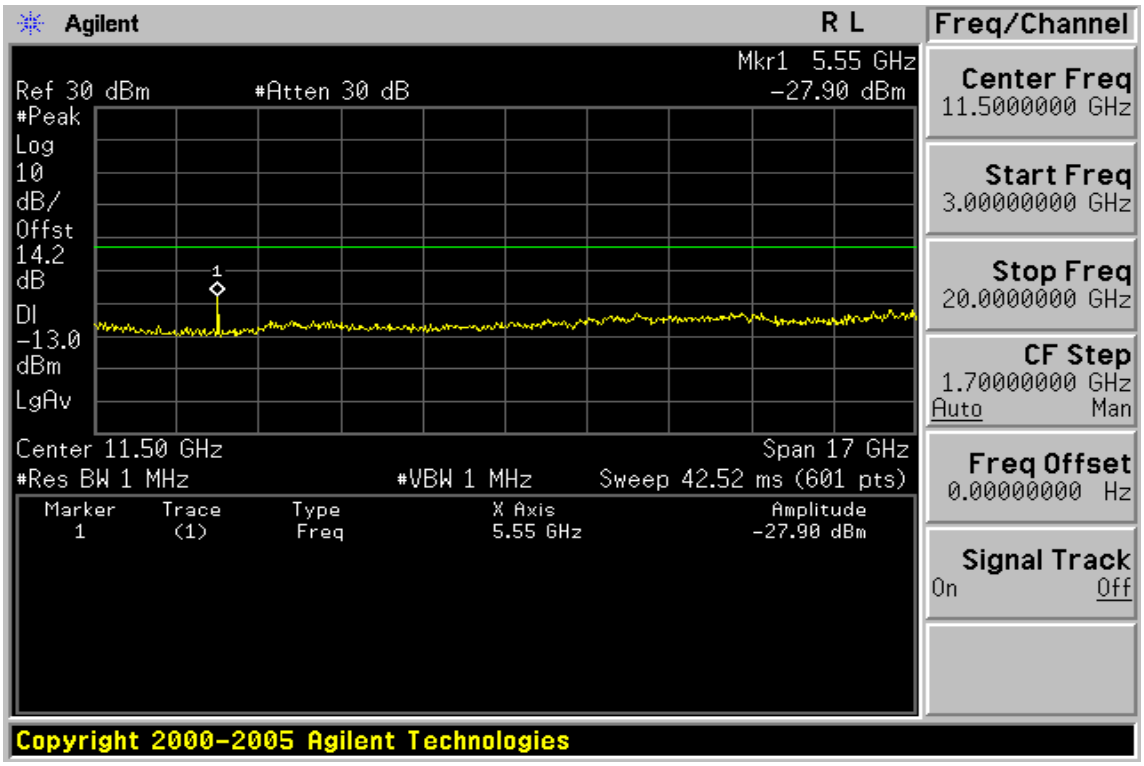
Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 6 Offset: 0) Channel Highest



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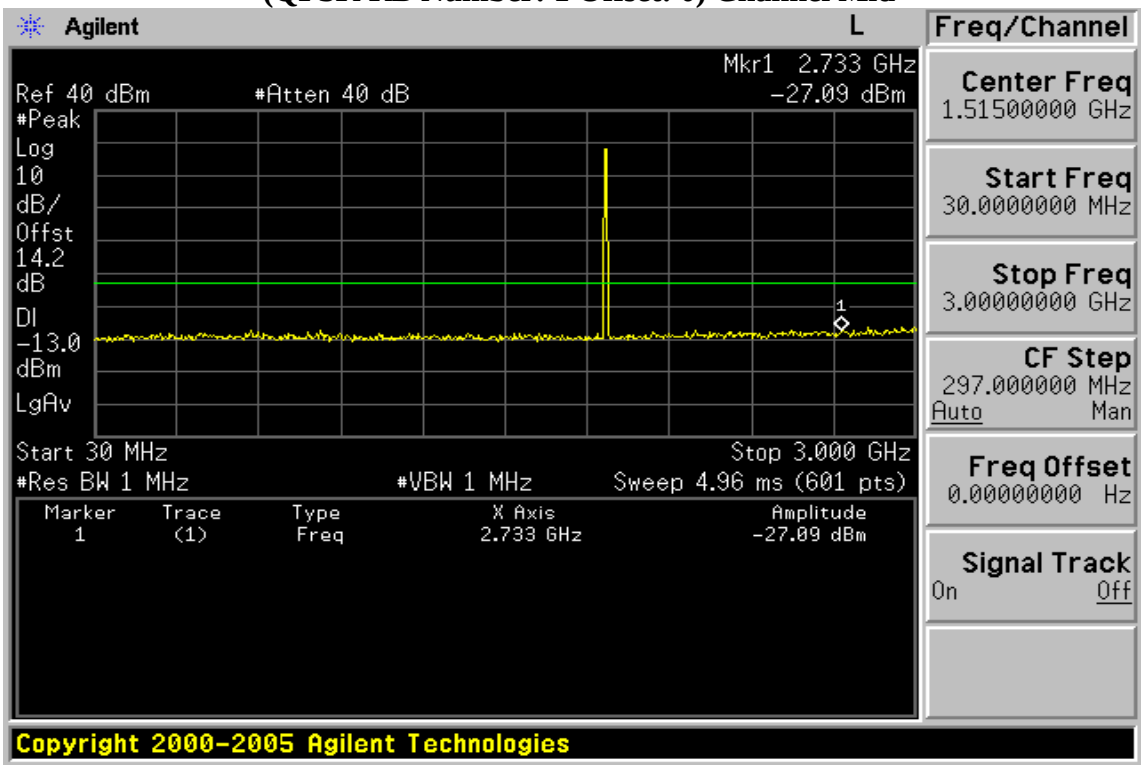
Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Low

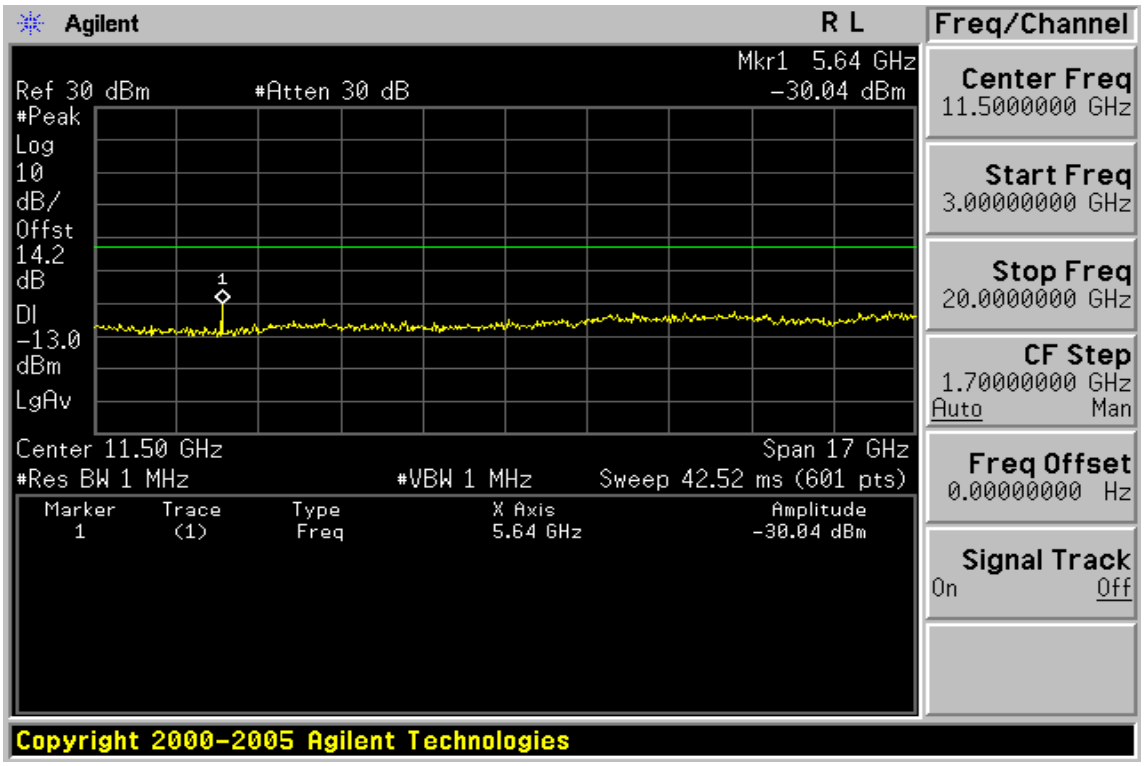




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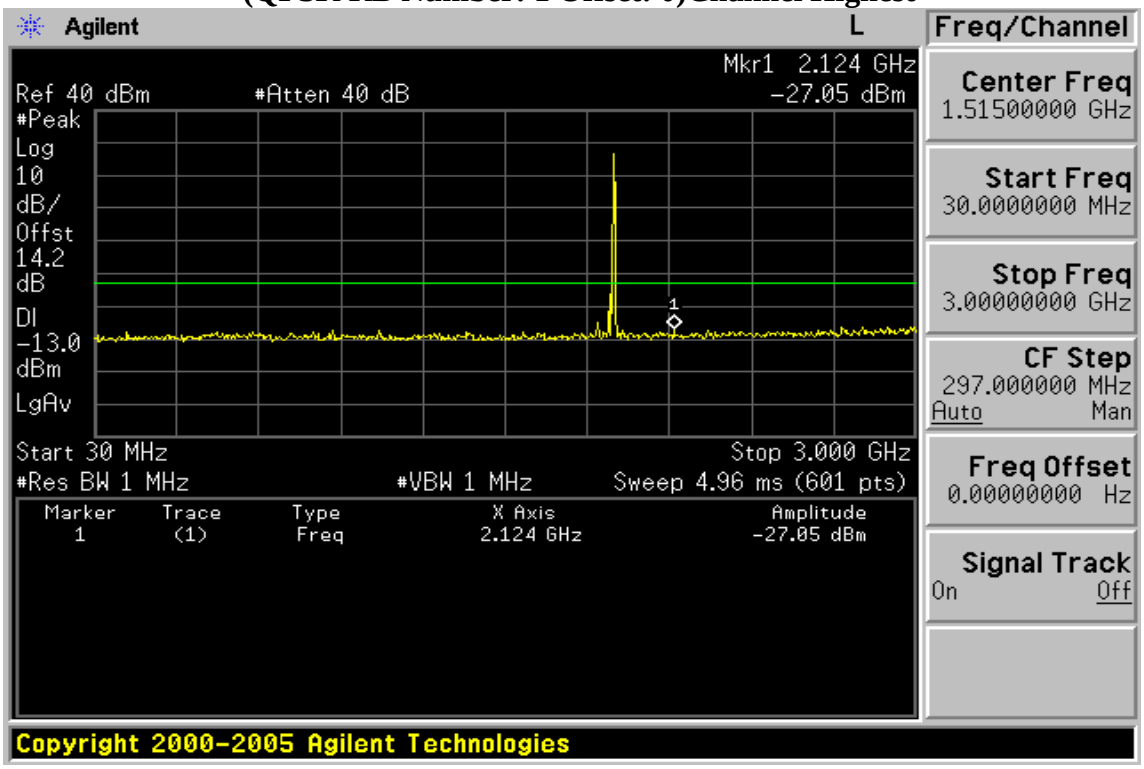
Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

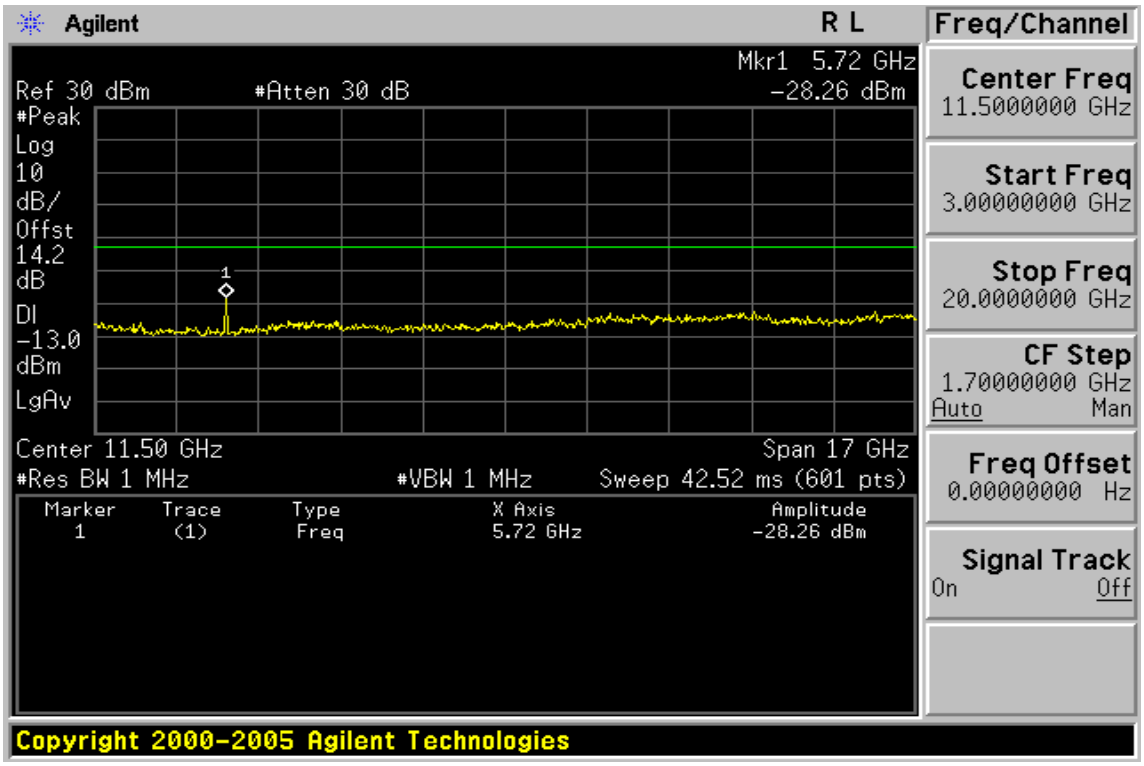




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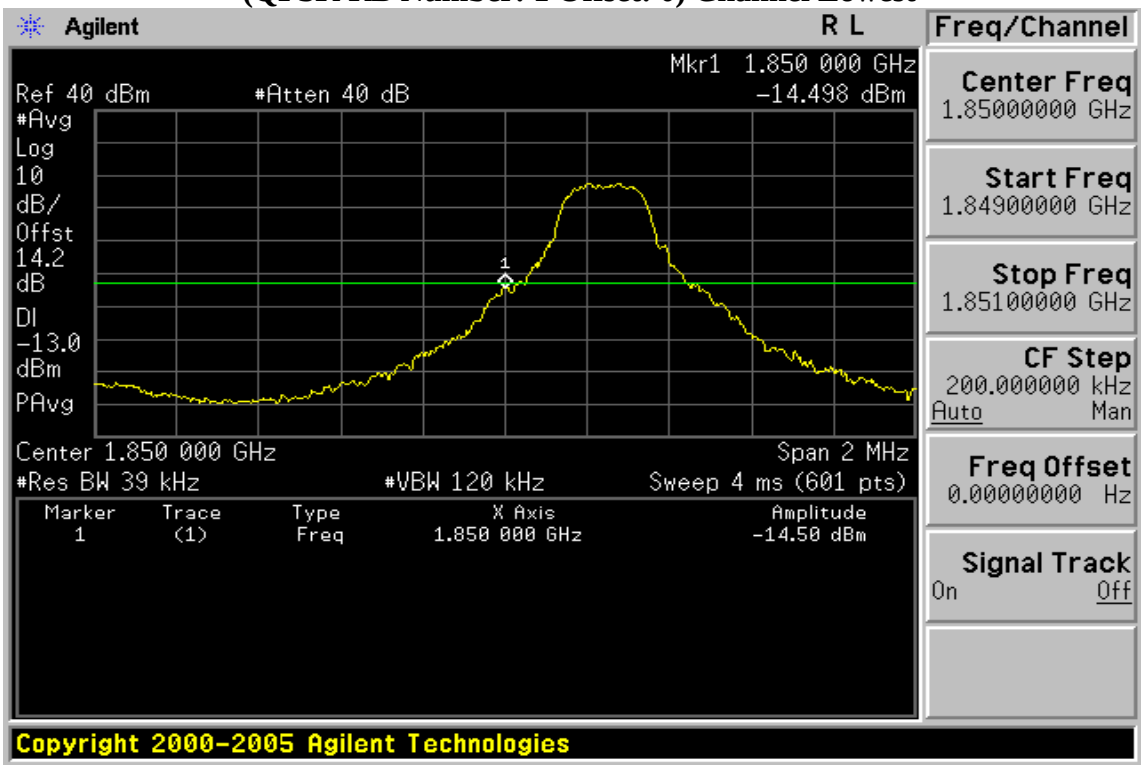
Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0)Channel Highest



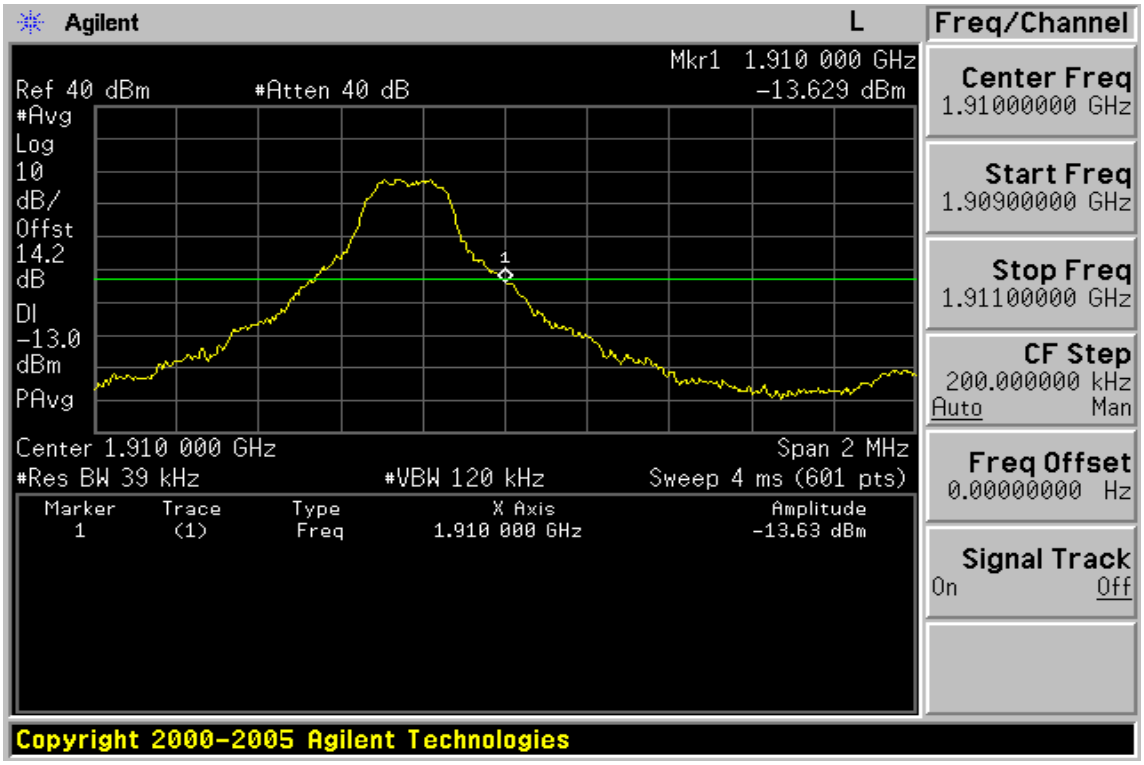


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Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

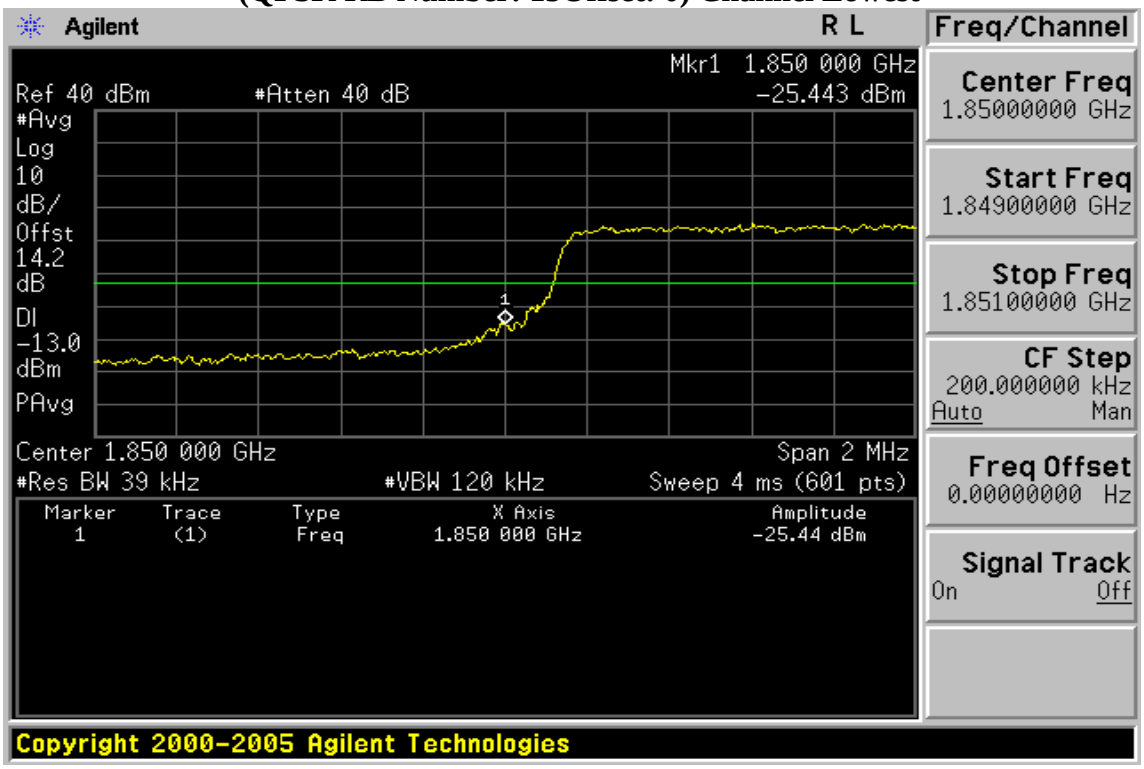


Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 14) Channel Highest

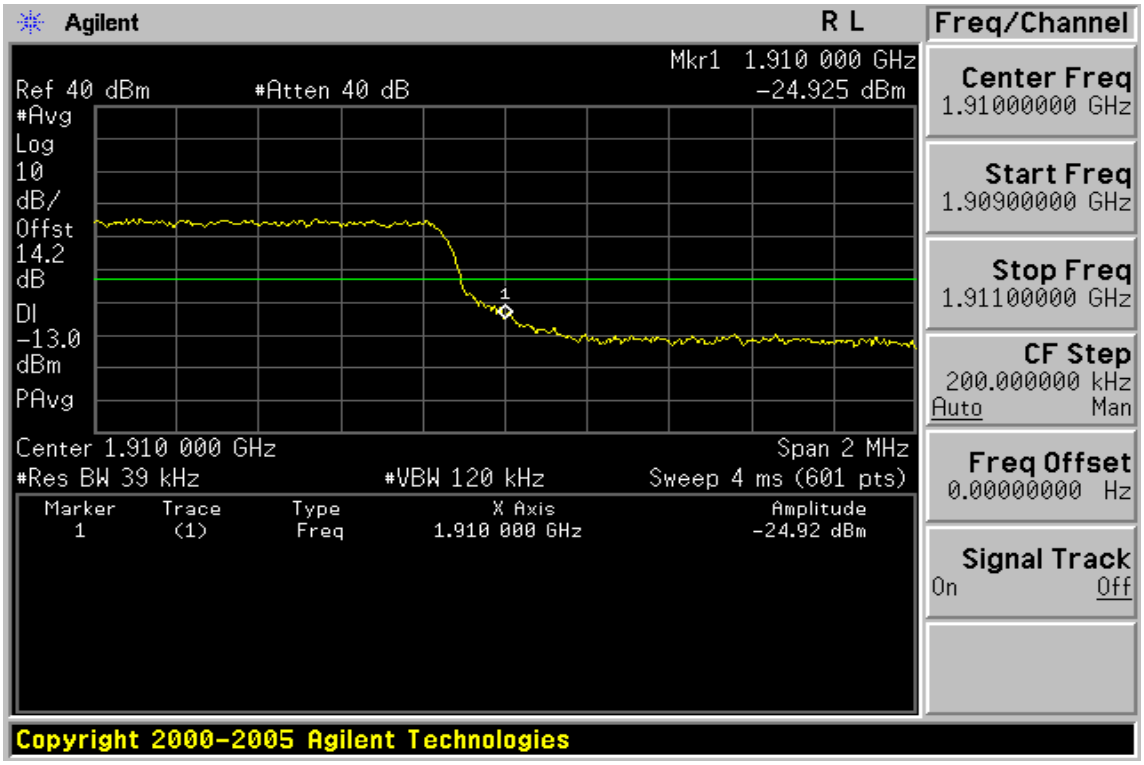


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Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 15Offset: 0) Channel Lowest

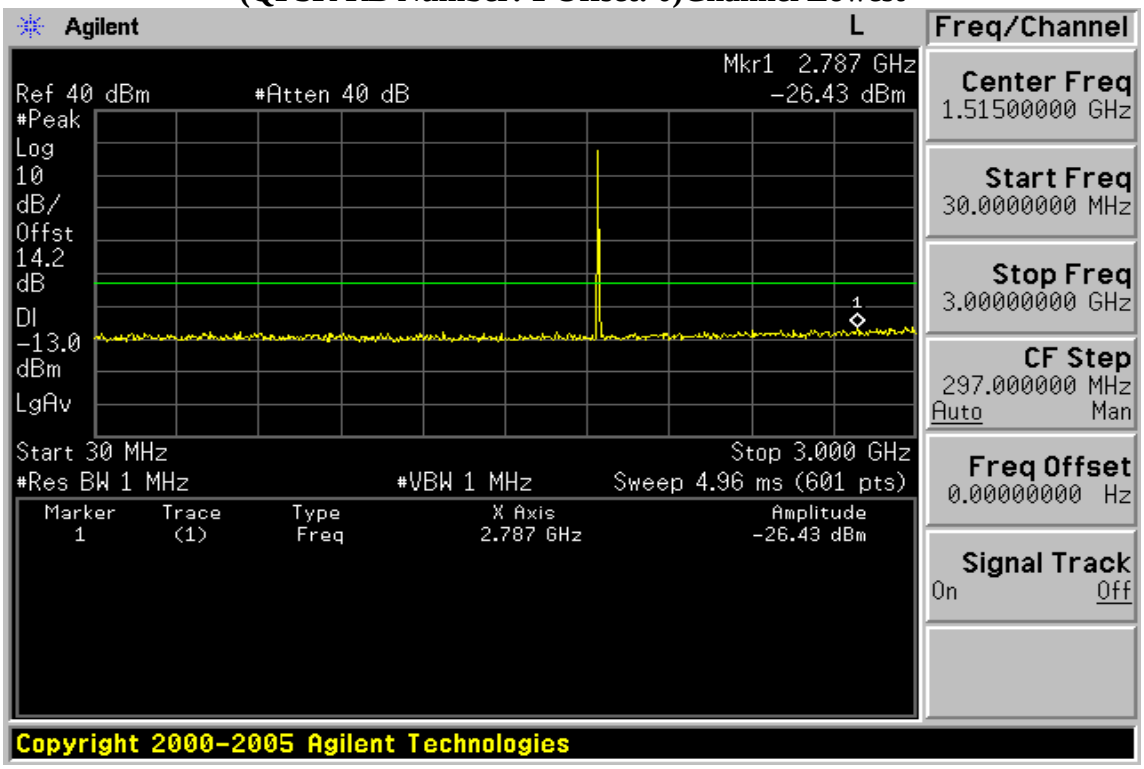


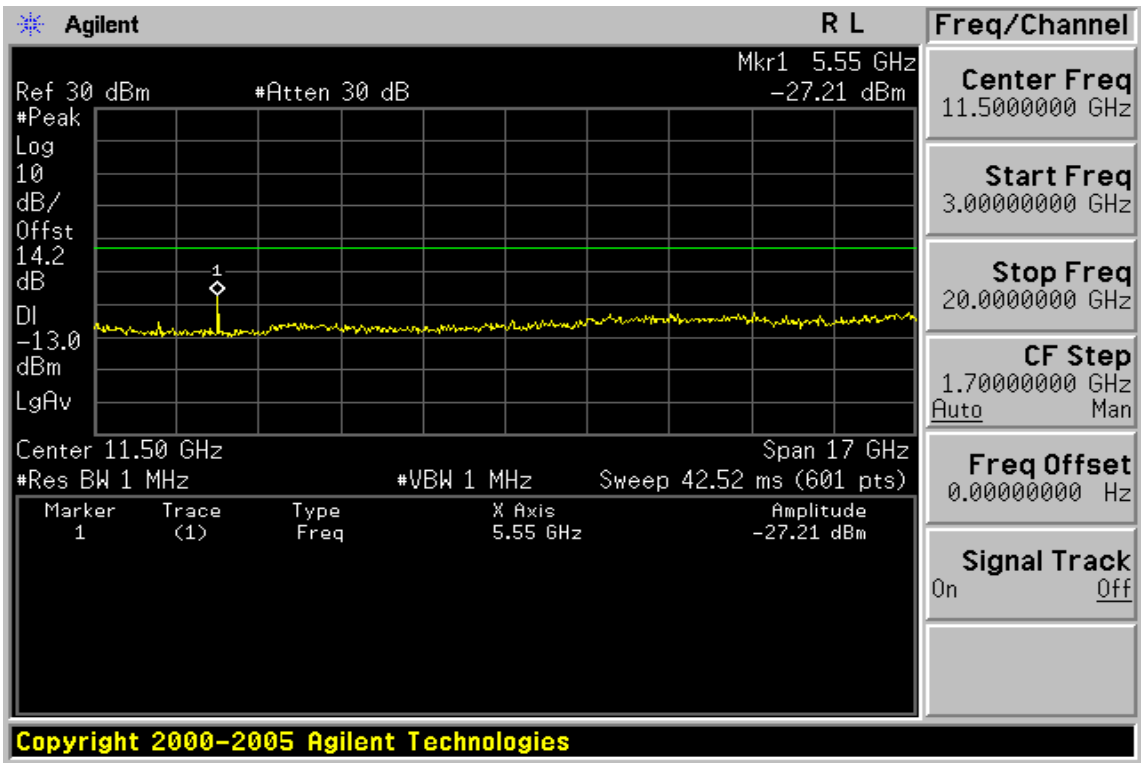
Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 15Offset: 14) Channel Highest



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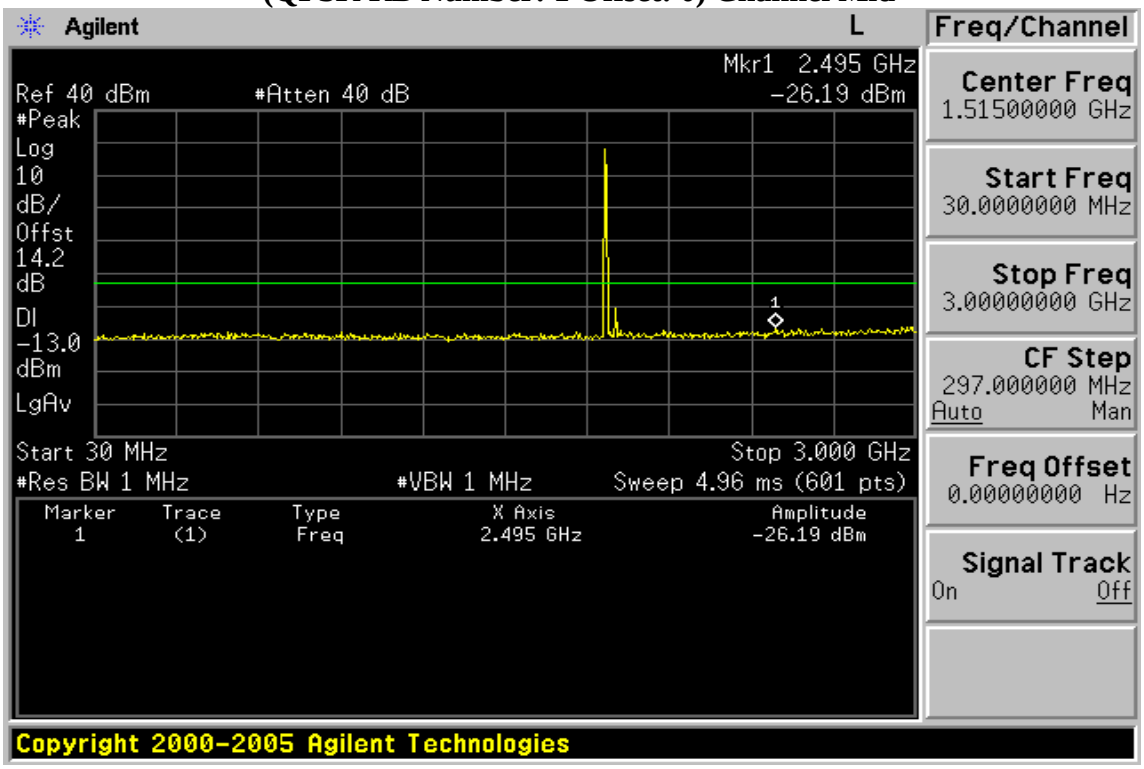
Out of Band emission at antenna terminals–5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0)Channel Lowest

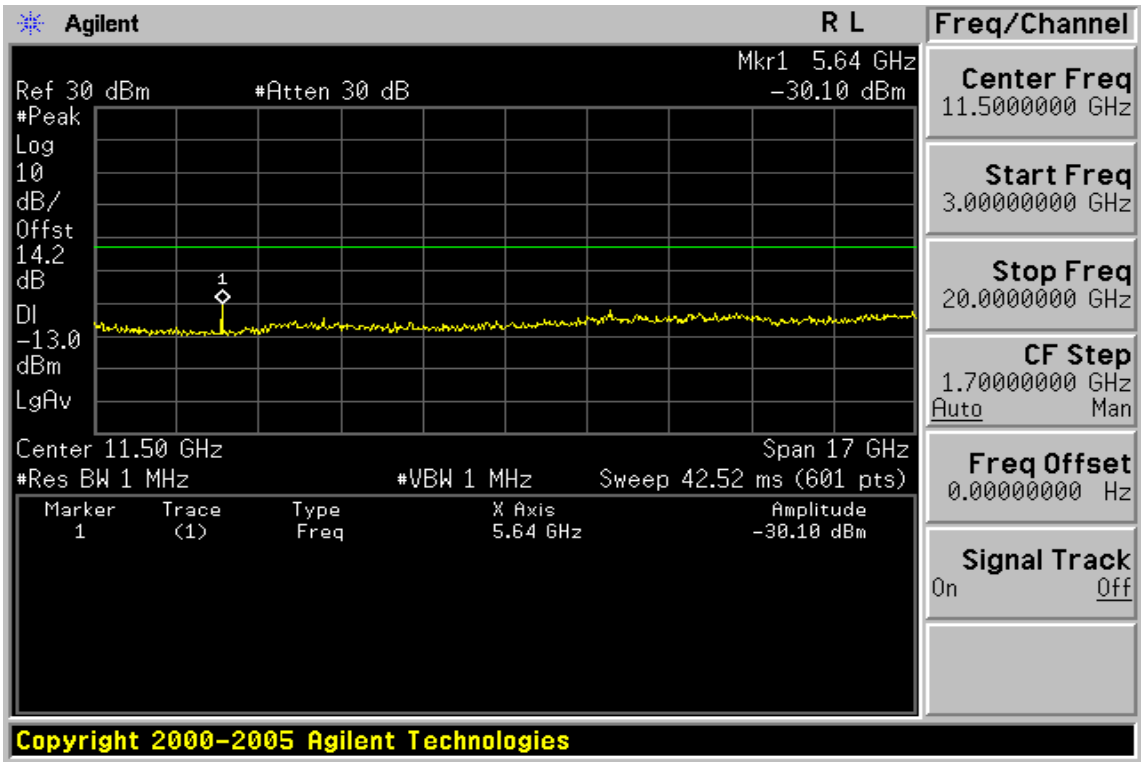




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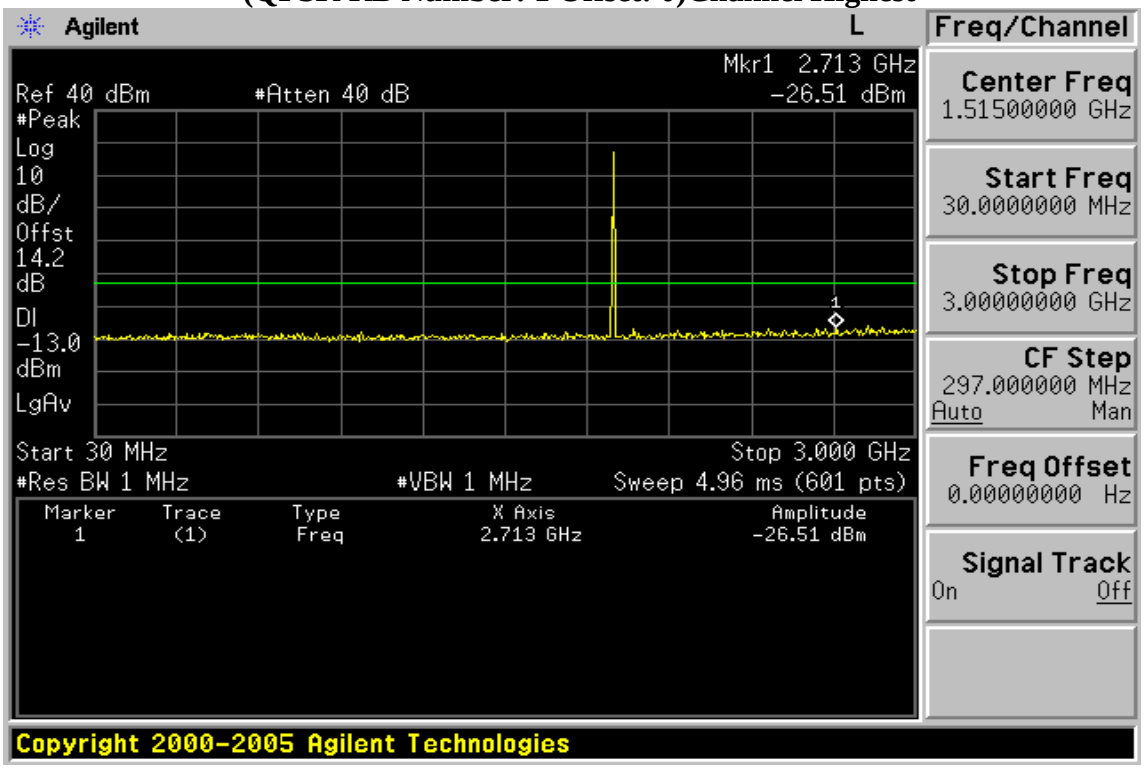
Out of Band emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

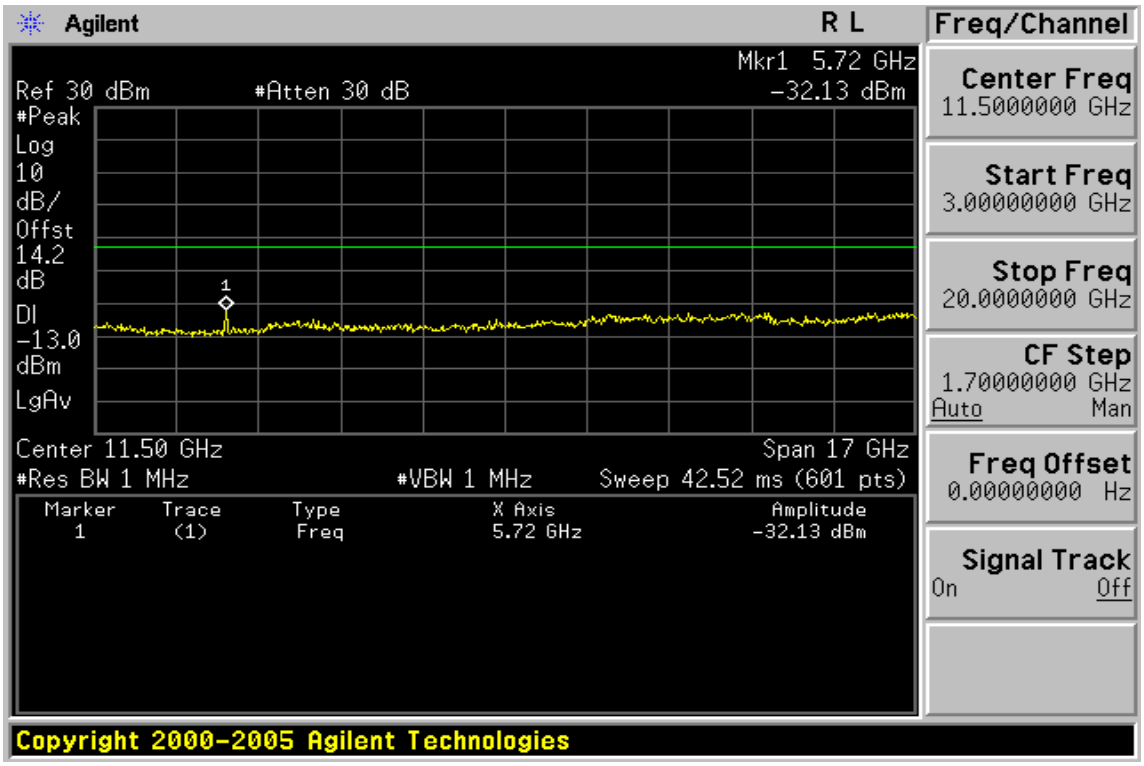




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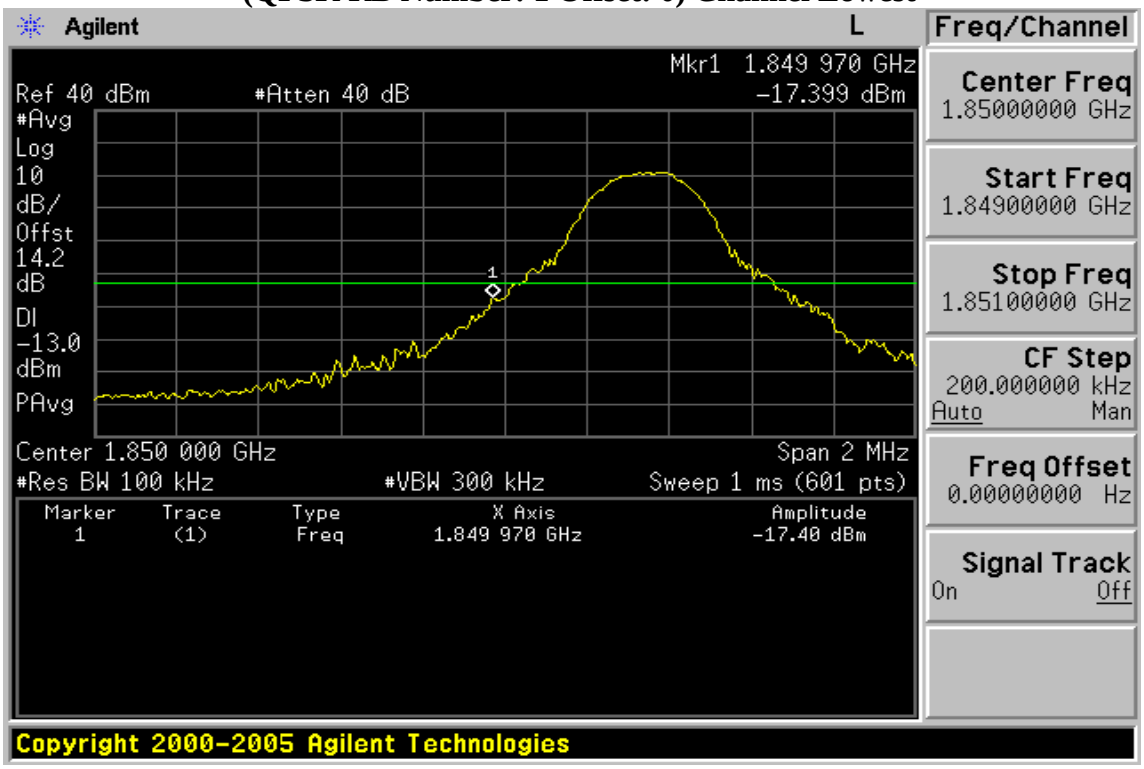
Out of Band emission at antenna terminals–5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0)Channel Highest



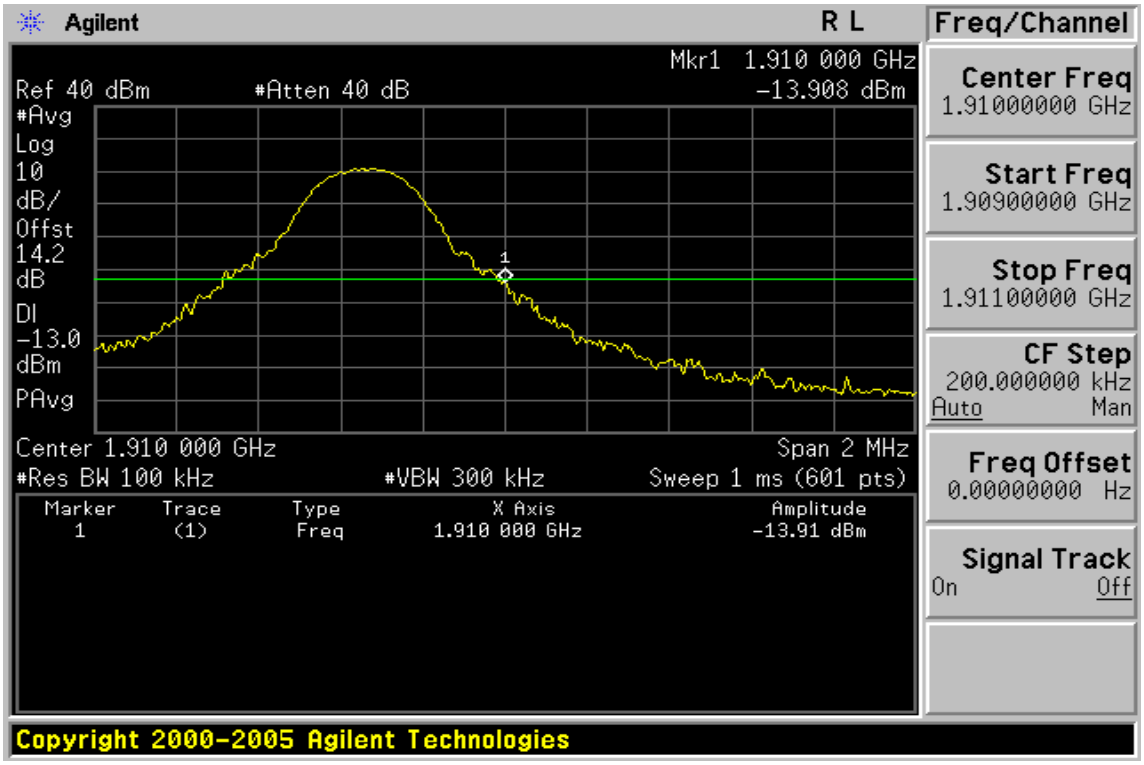


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Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

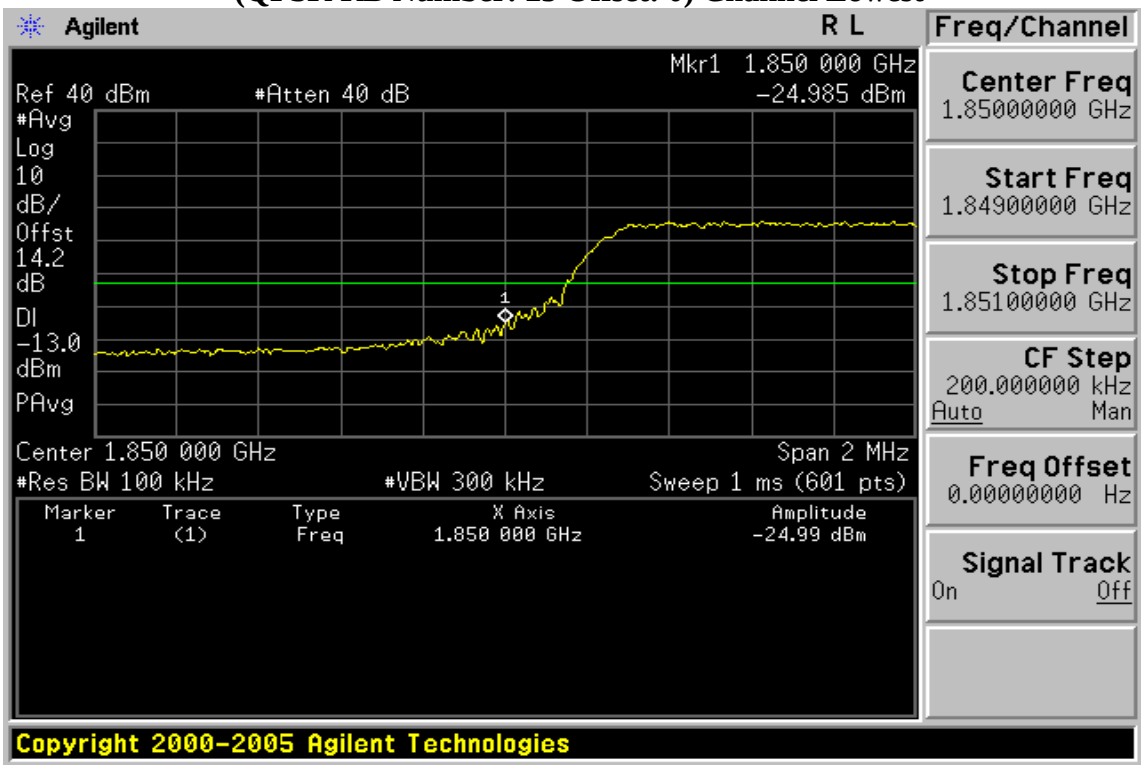


Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Highest



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

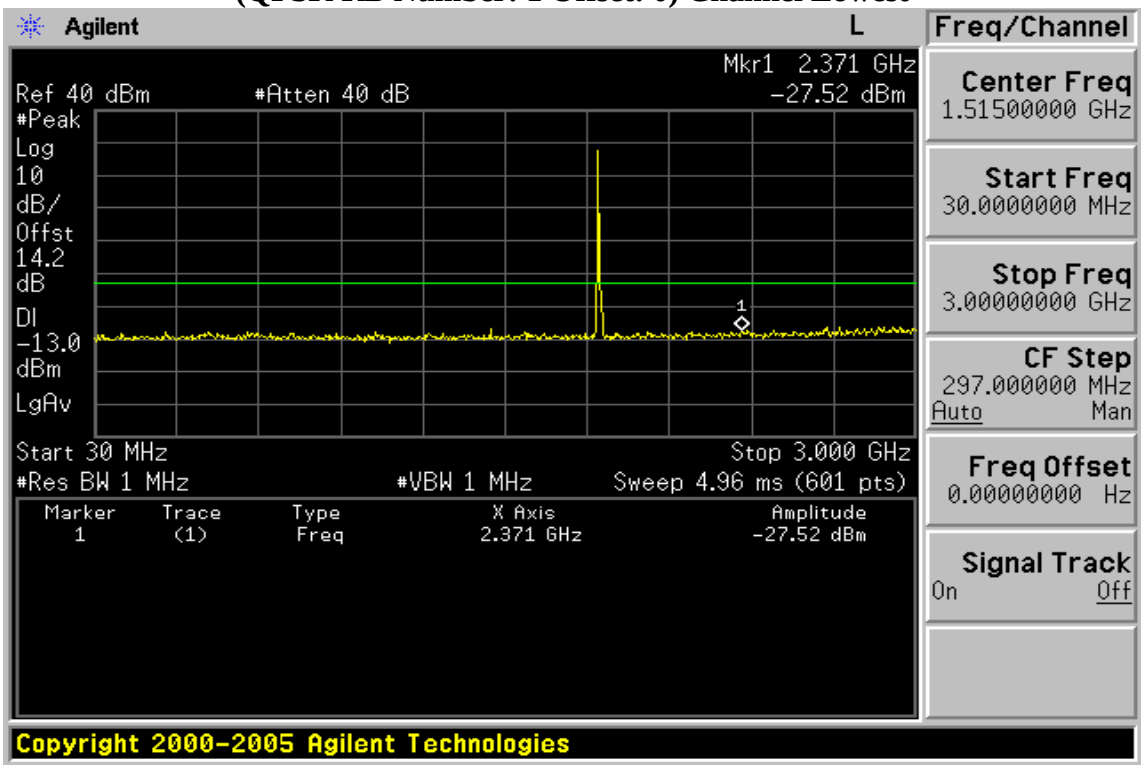


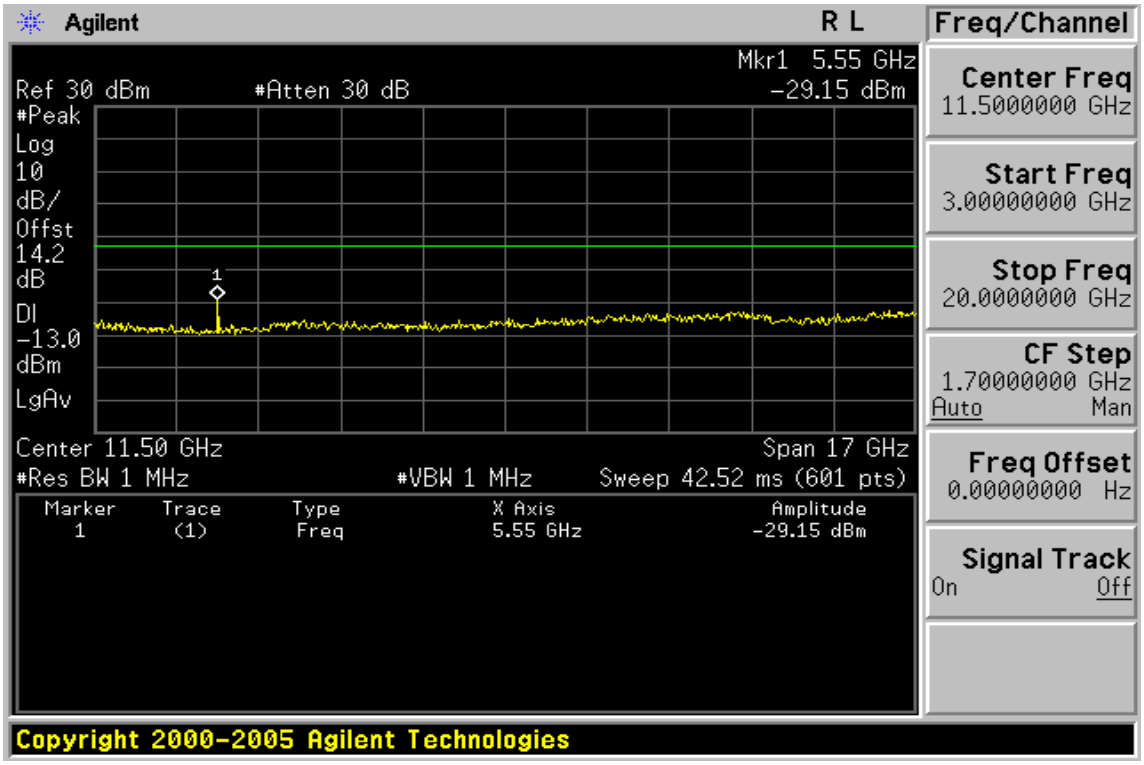
Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 25 Offset: 0) Channel Highest



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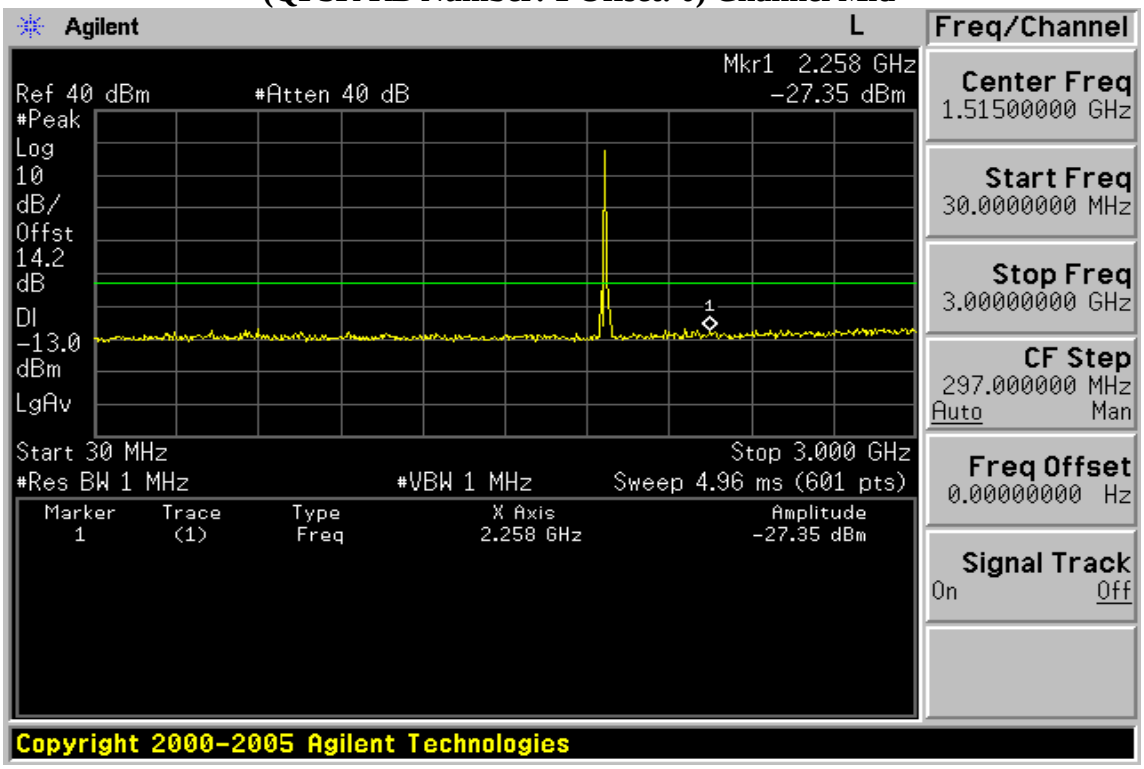
Out of Band emission at antenna terminals–10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

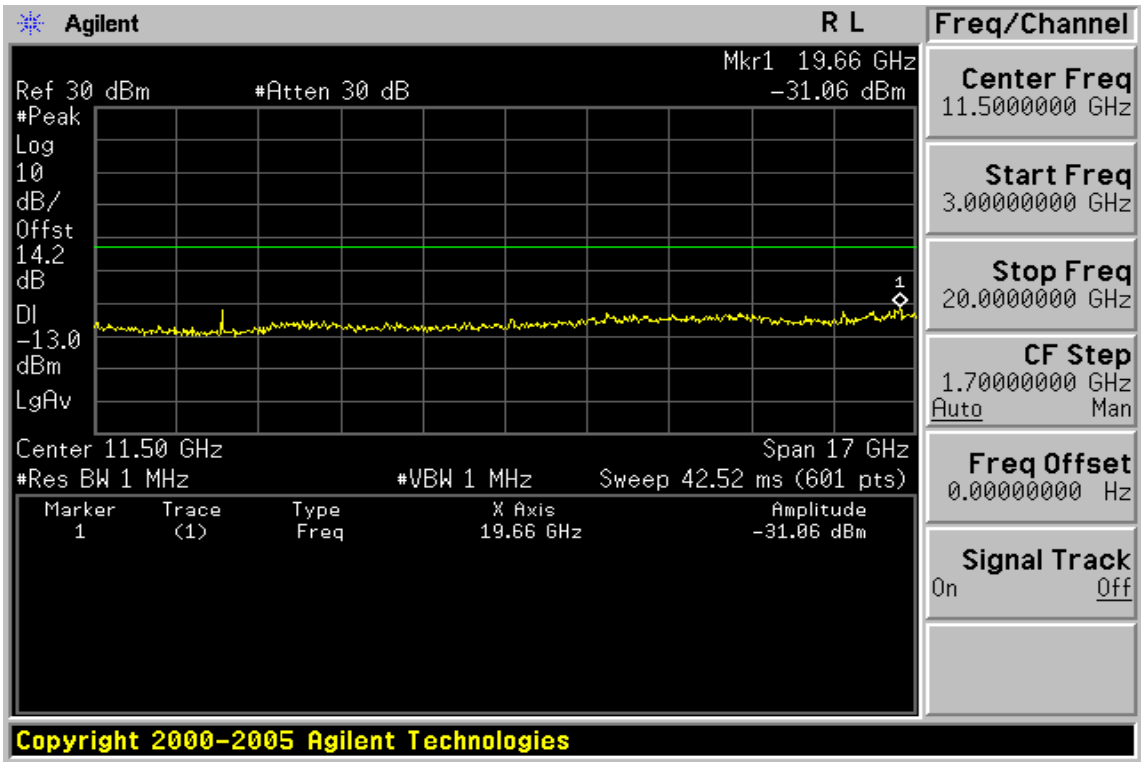




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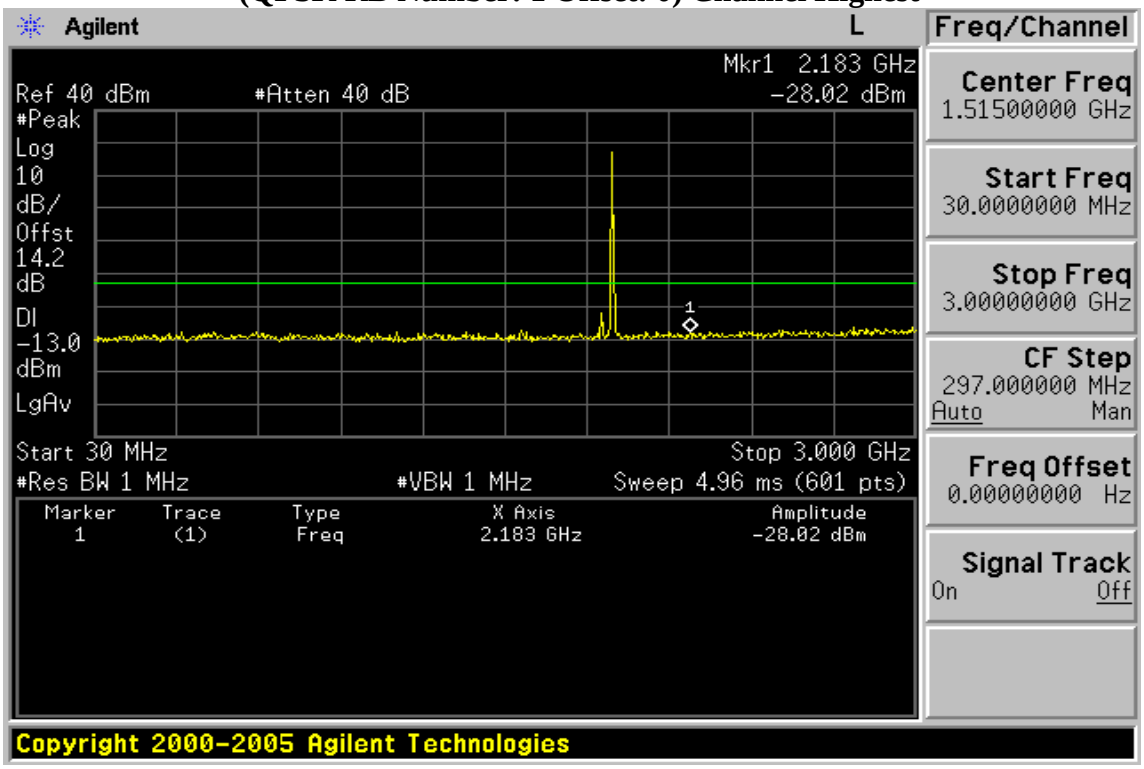
Out of Band emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

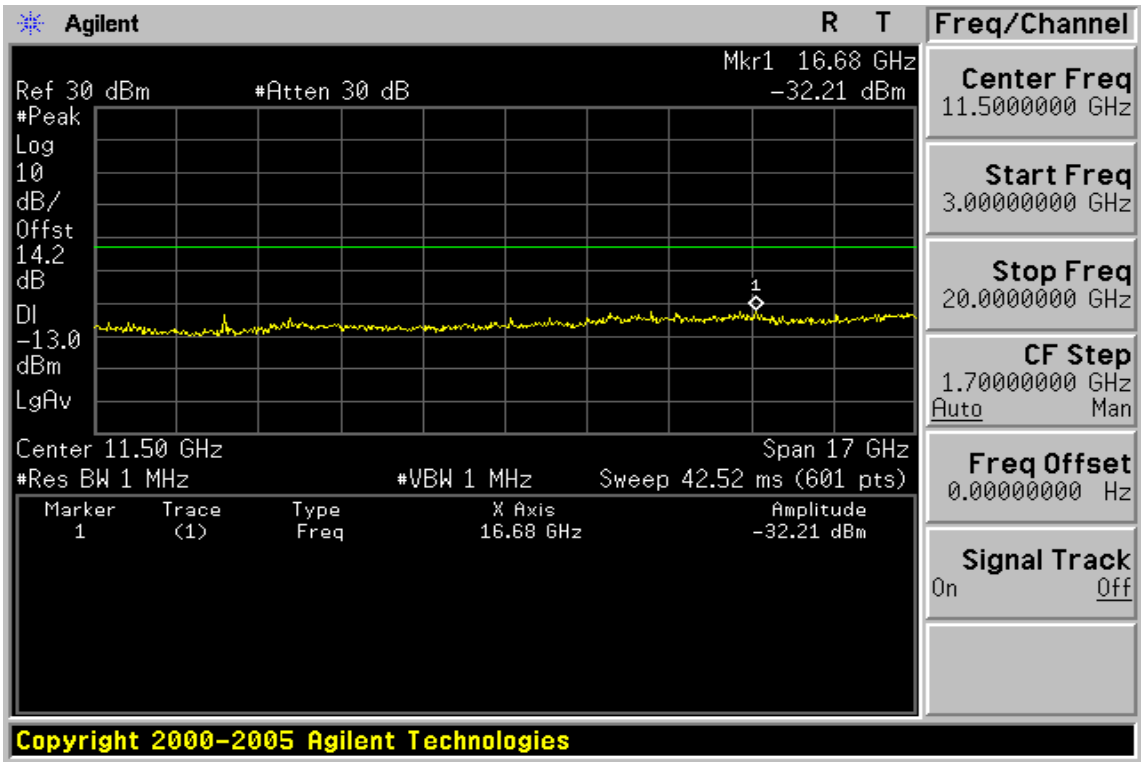




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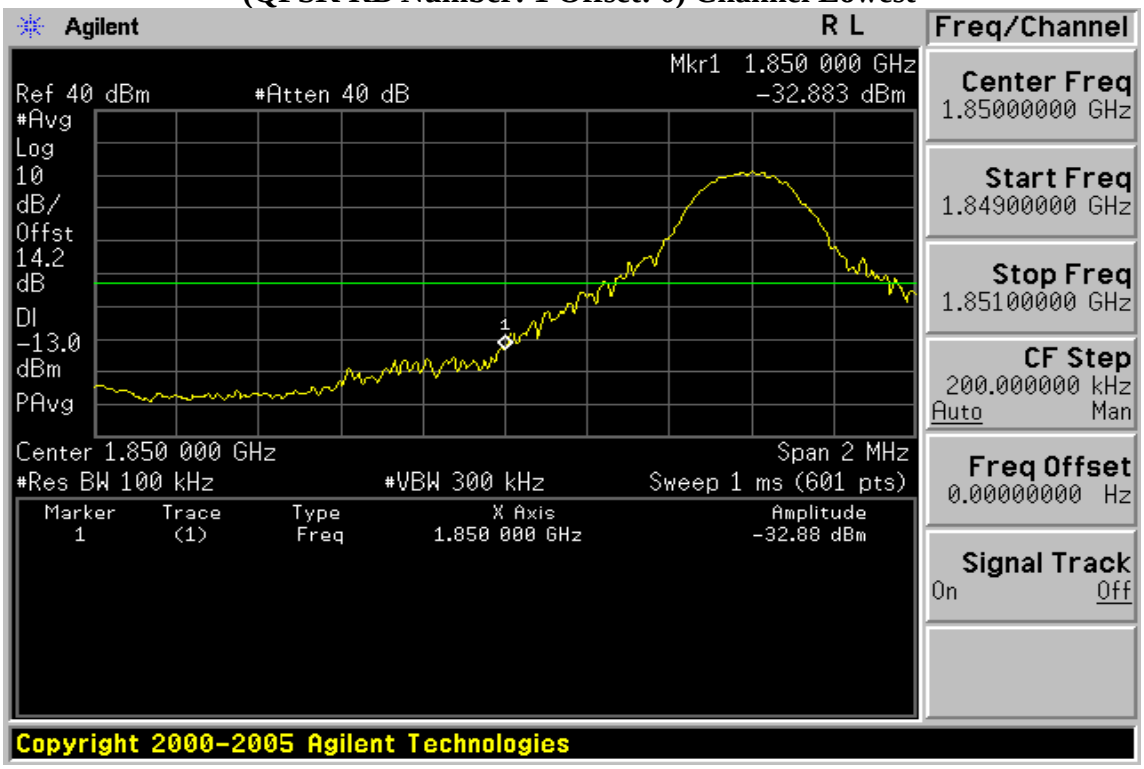
Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



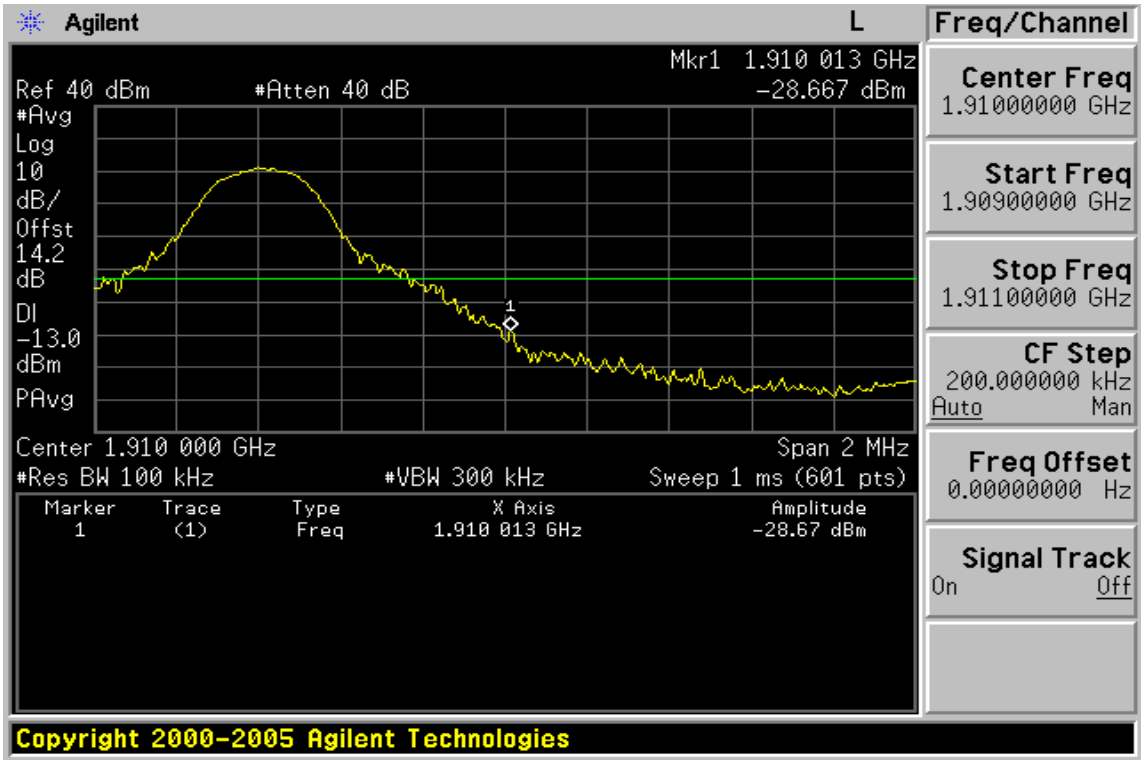


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Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

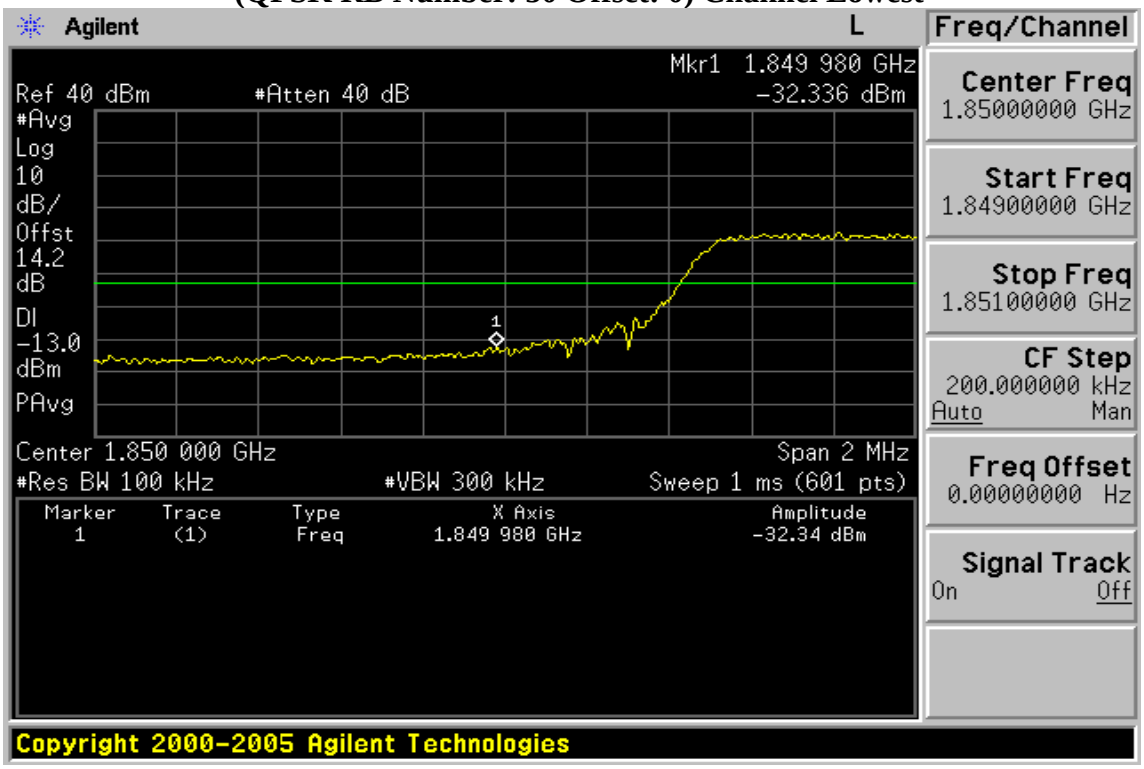


Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 49) Channel Highest

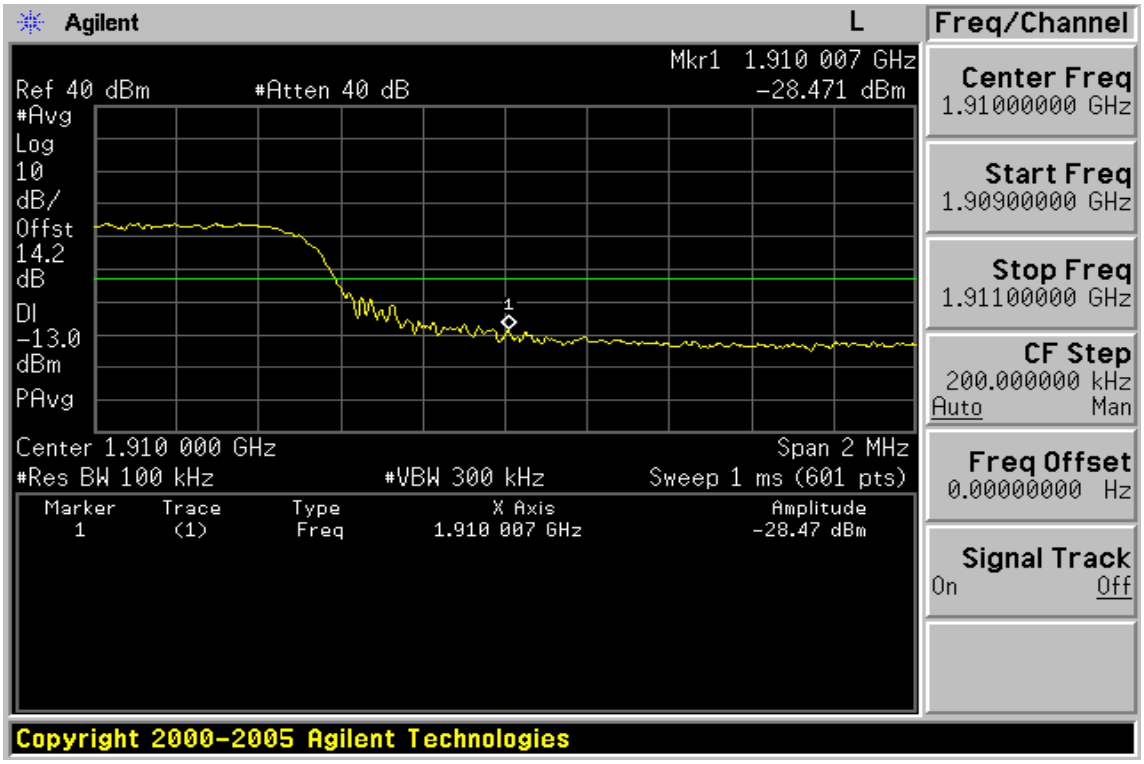


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Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 50 Offset: 0) Channel Lowest

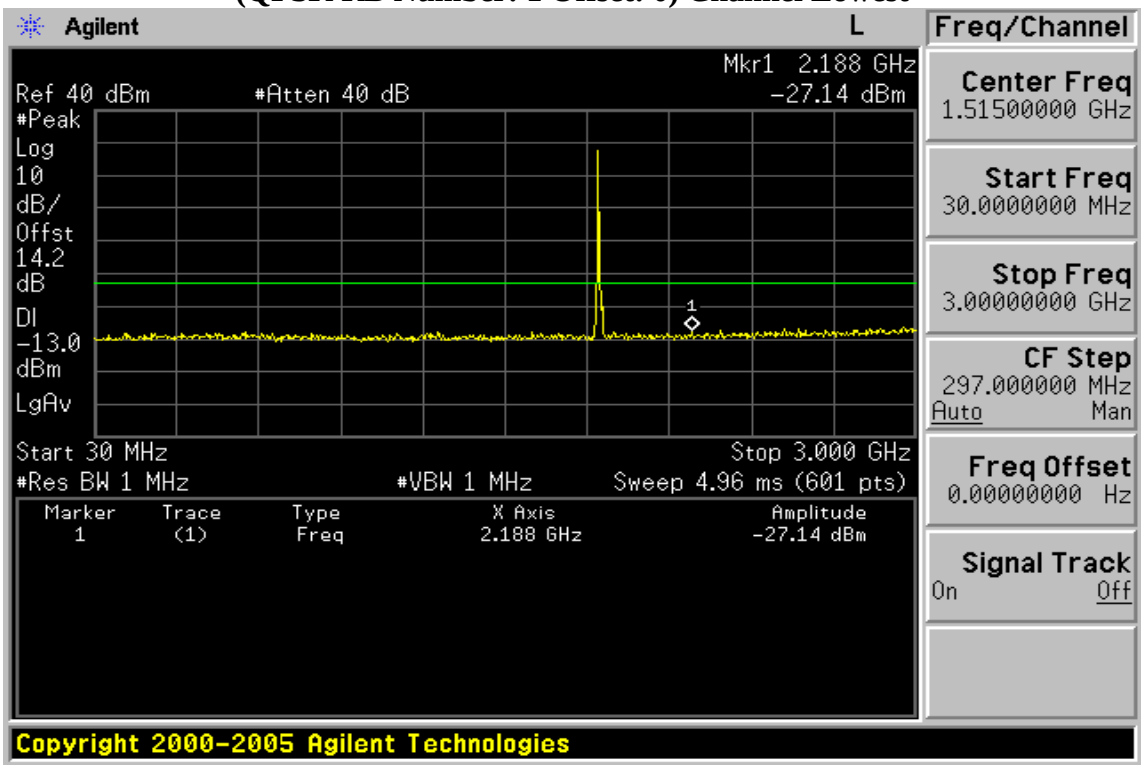


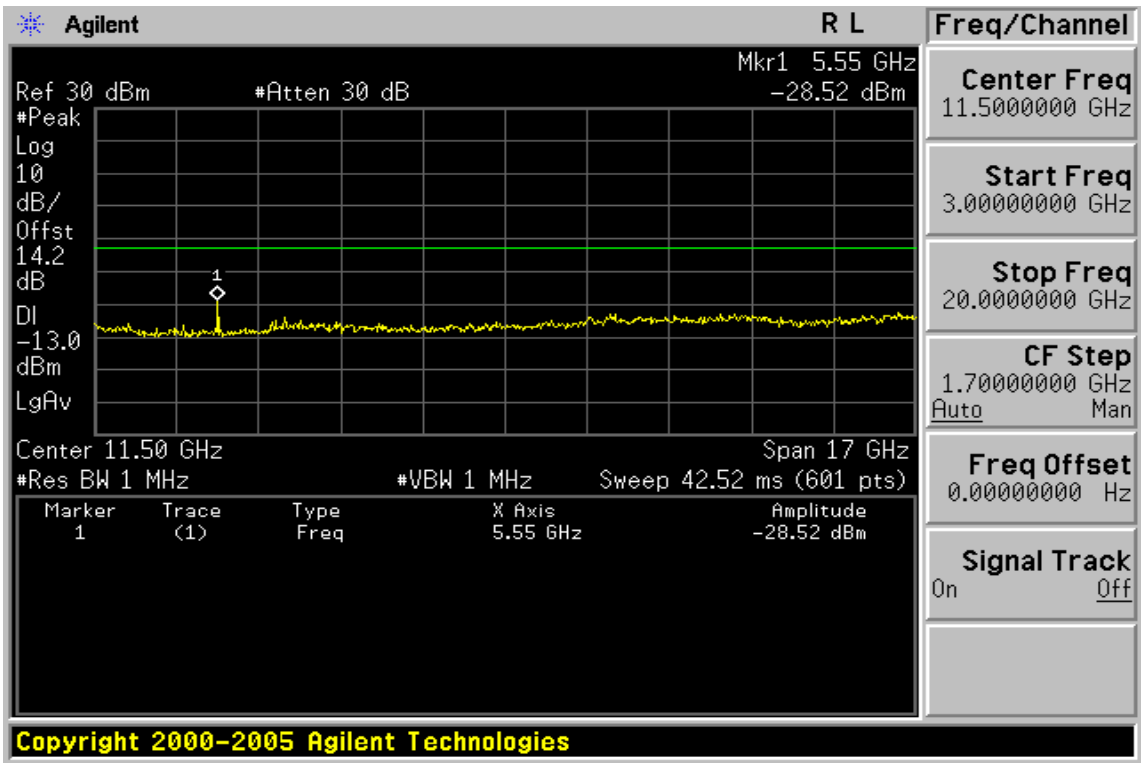
Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 50 Offset: 0) Channel Highest



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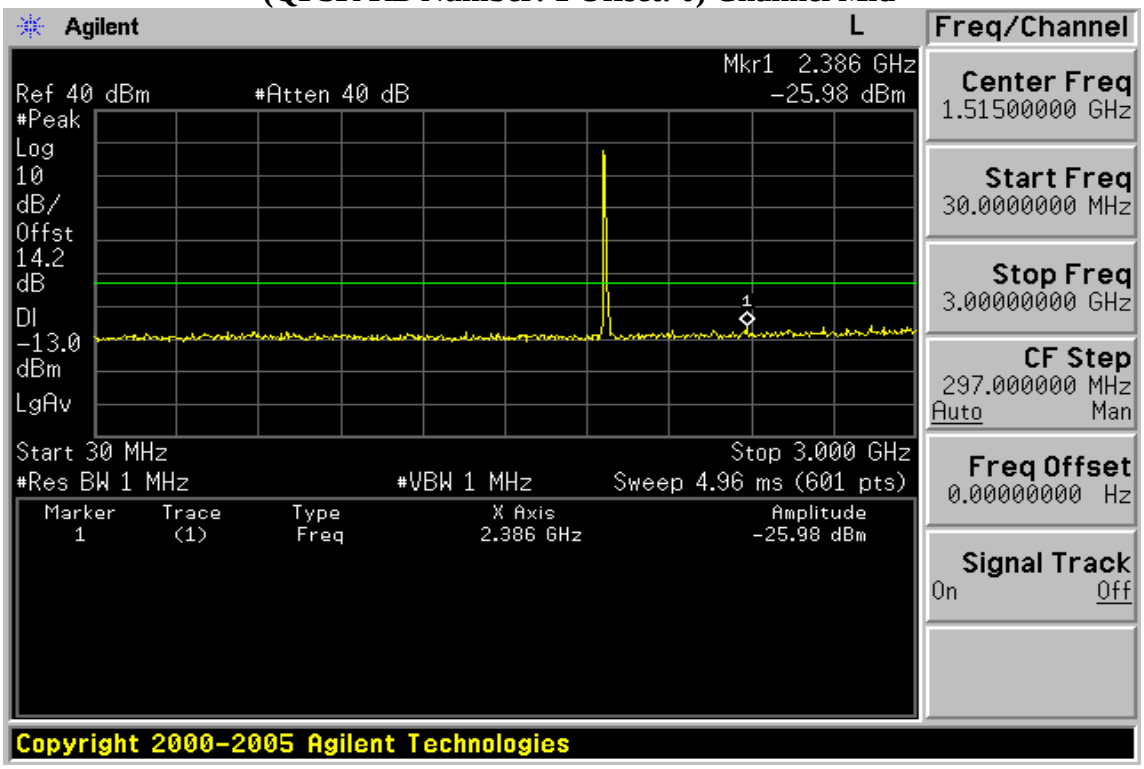
Out of Band emission at antenna terminals–15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

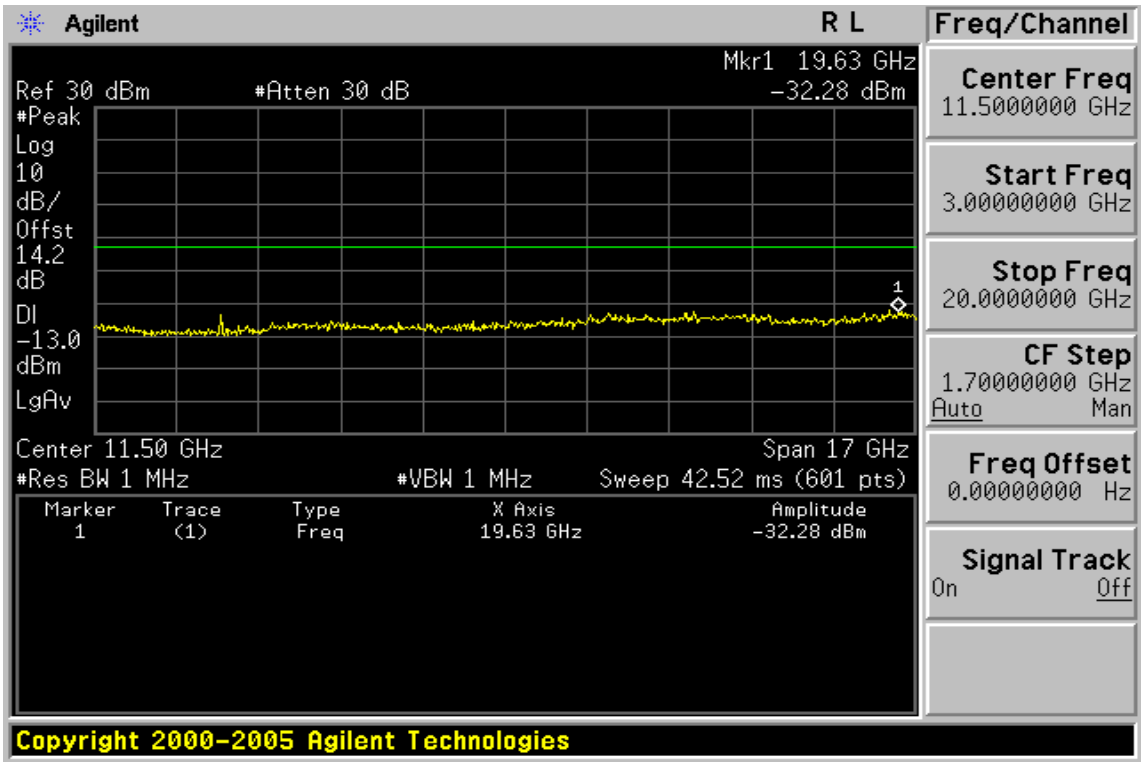




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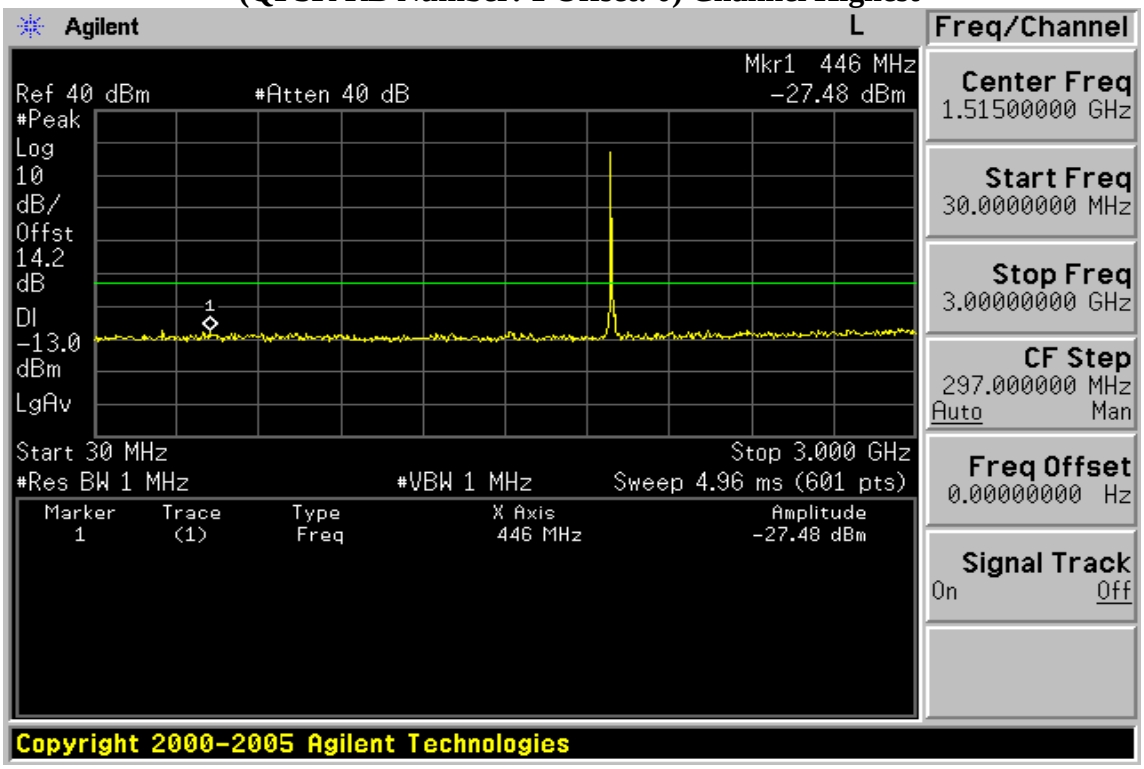
Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

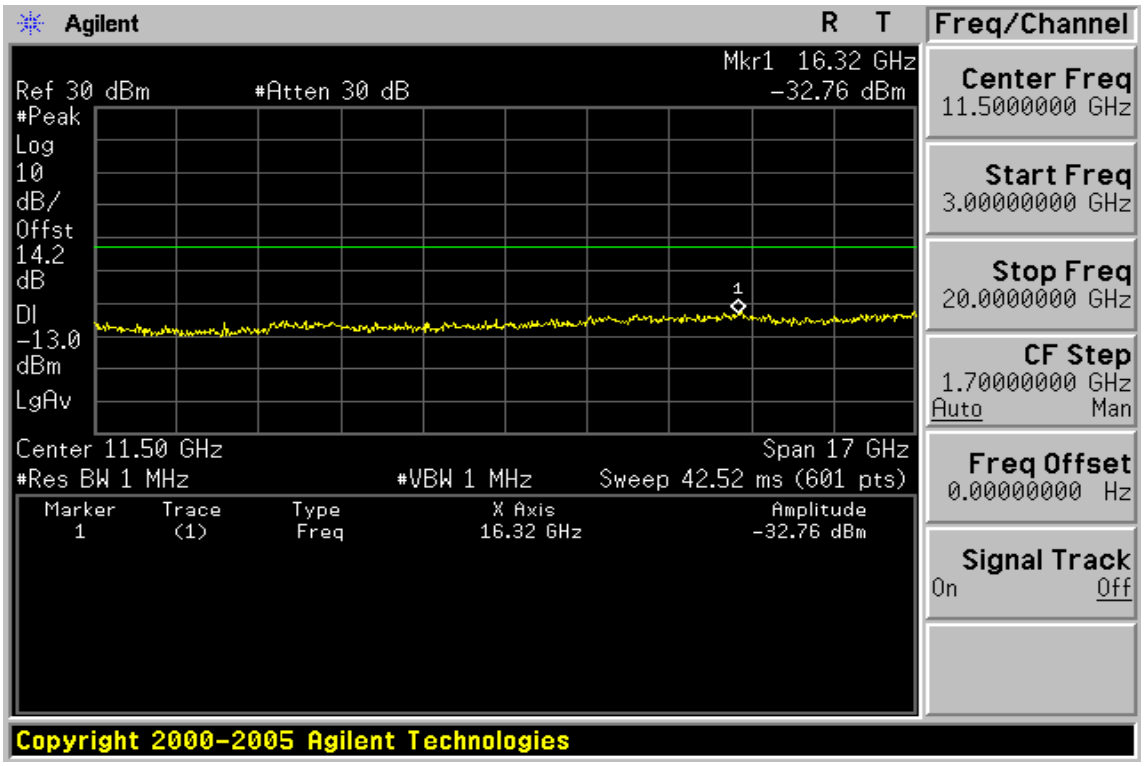




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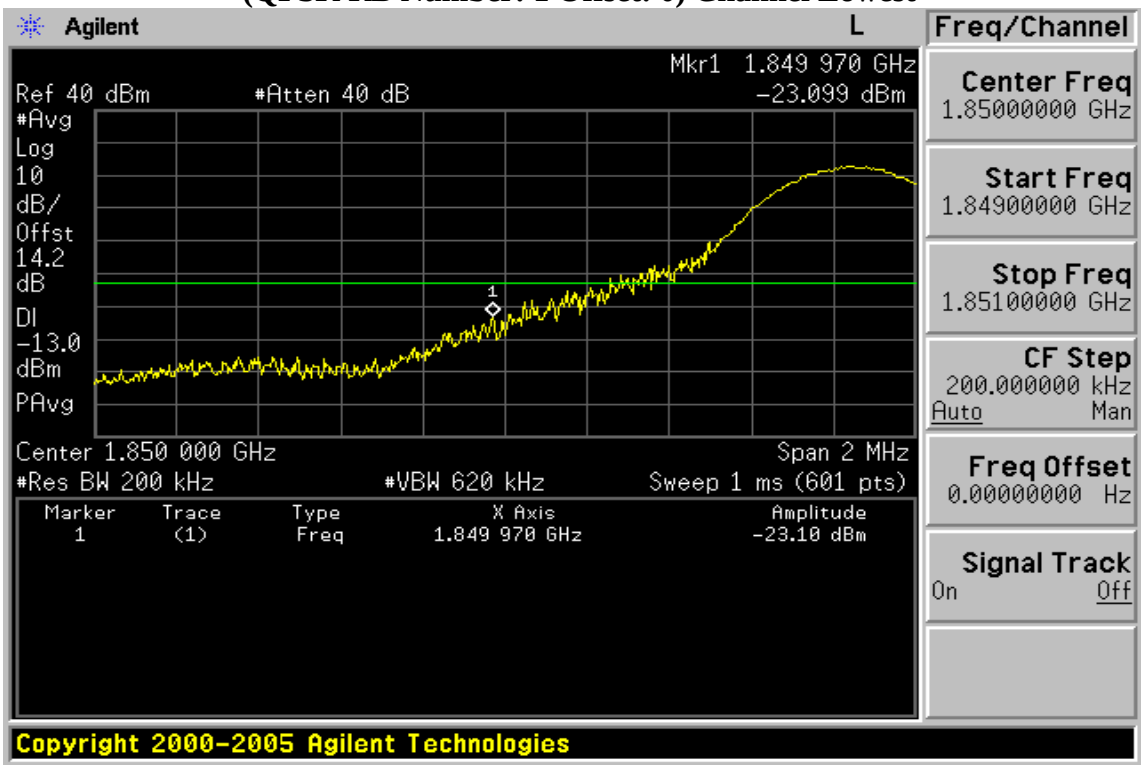
Out of Band emission at antenna terminals–15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



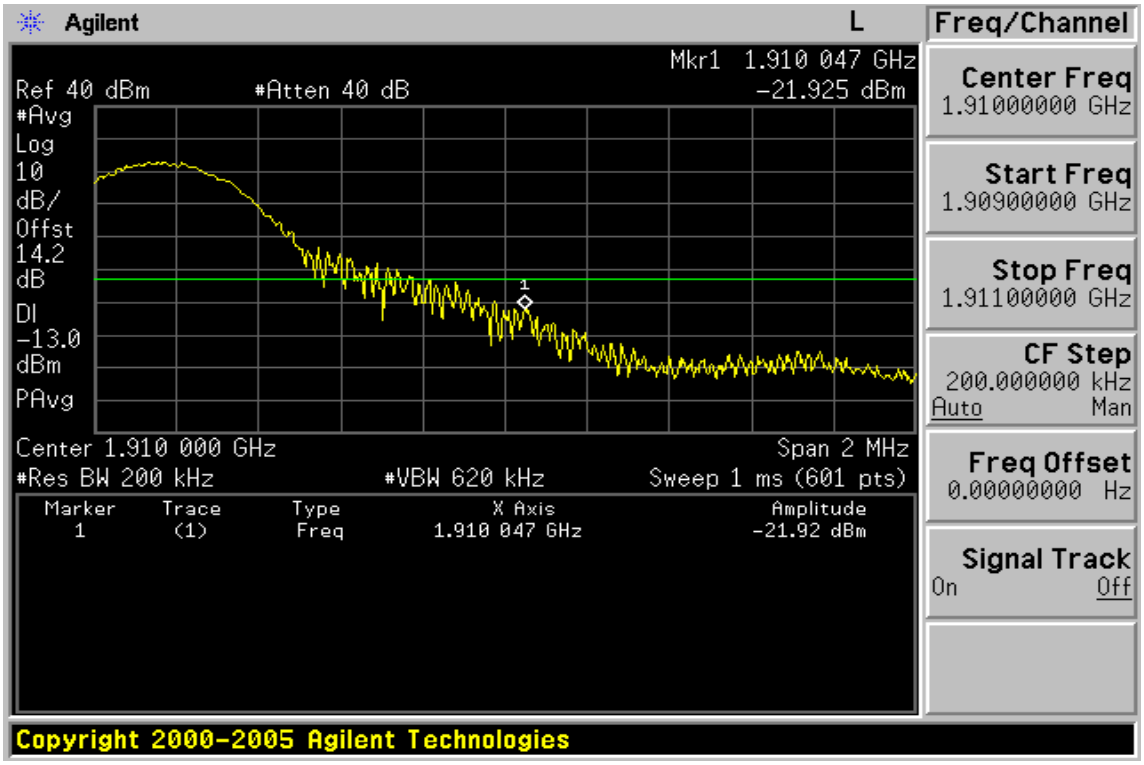


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Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

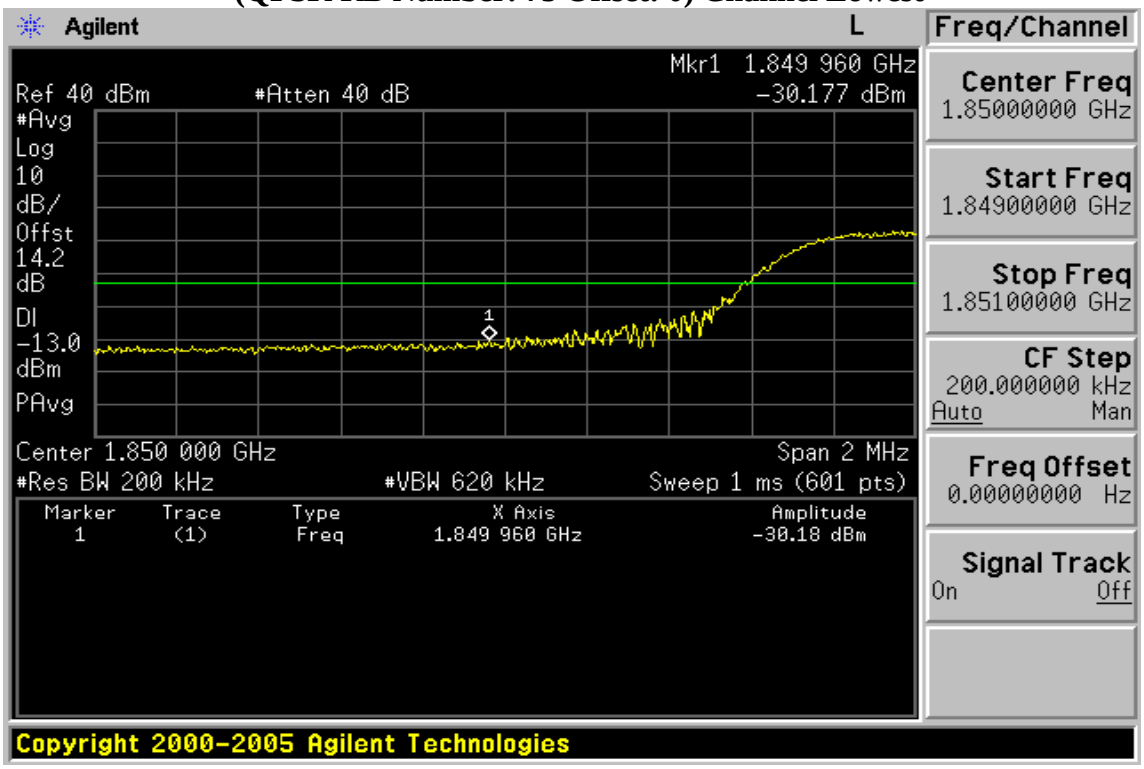


Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 74) Channel Highest

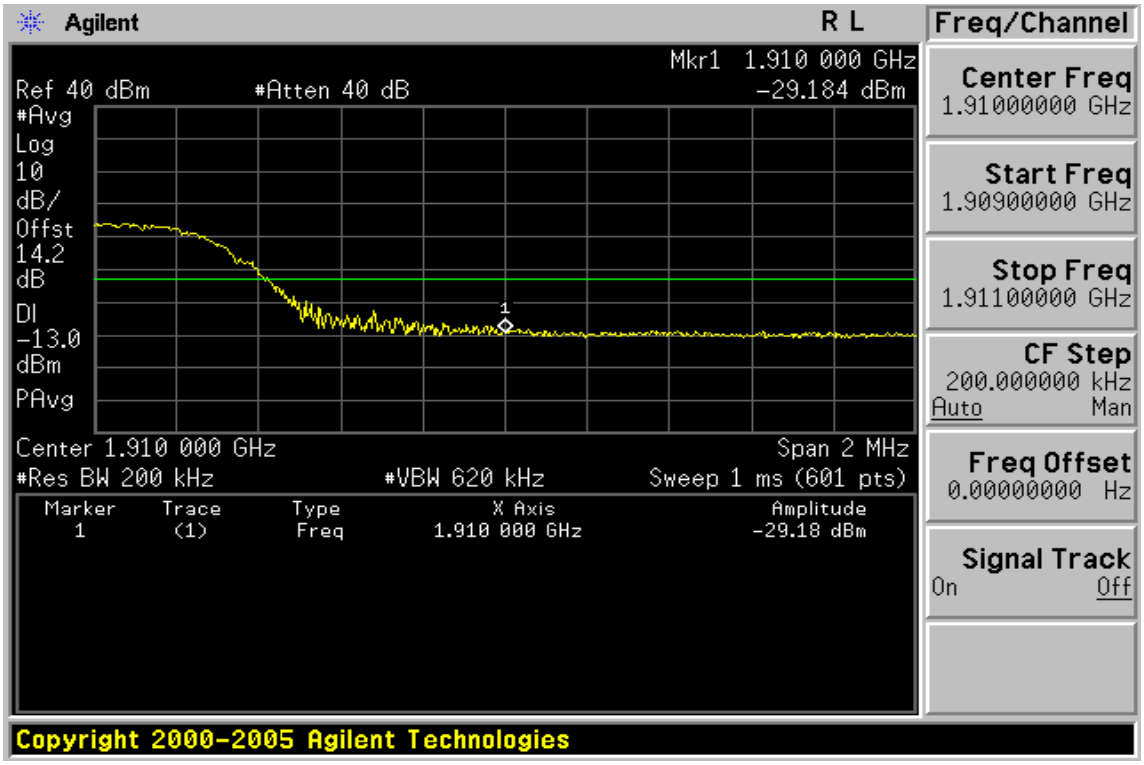


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Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 75 Offset: 0) Channel Lowest

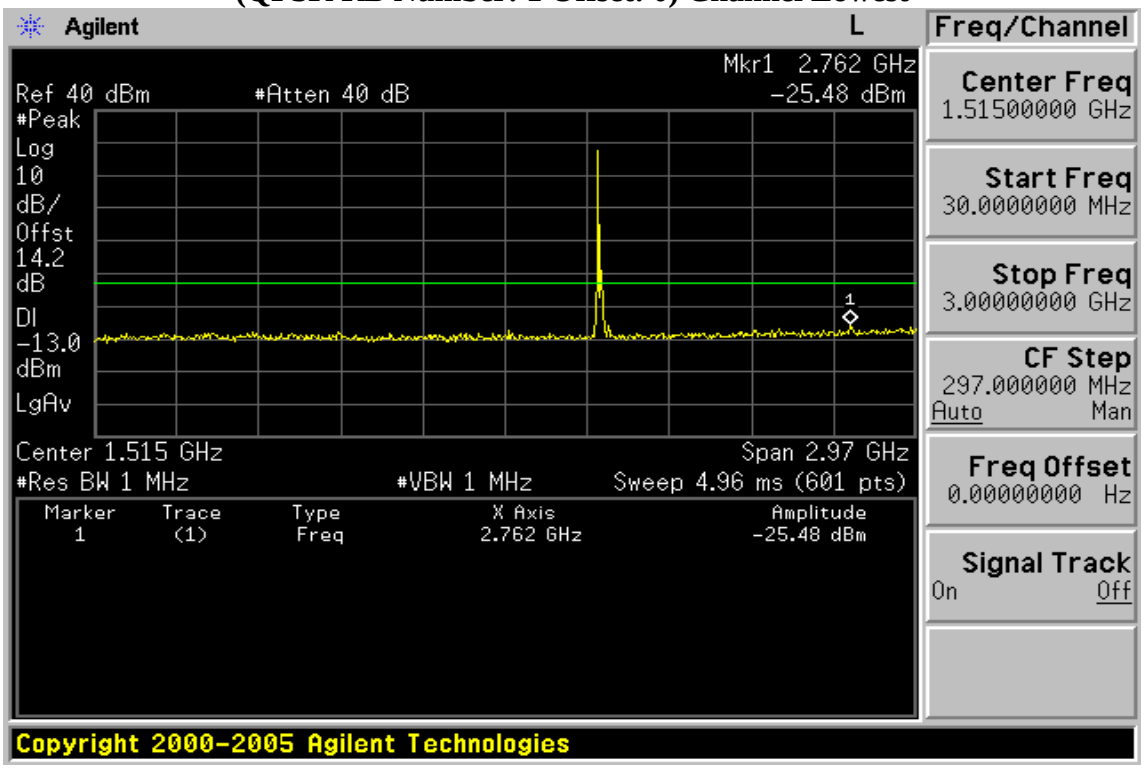


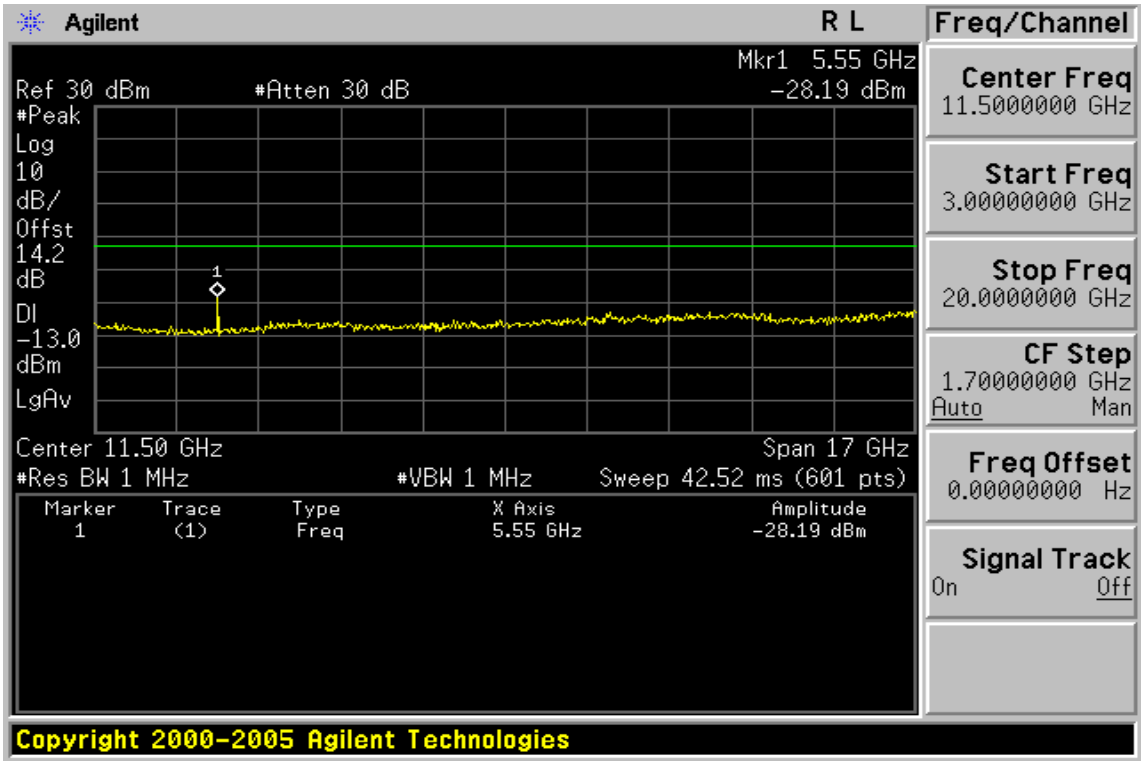
Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 75 Offset: 0) Channel Highest



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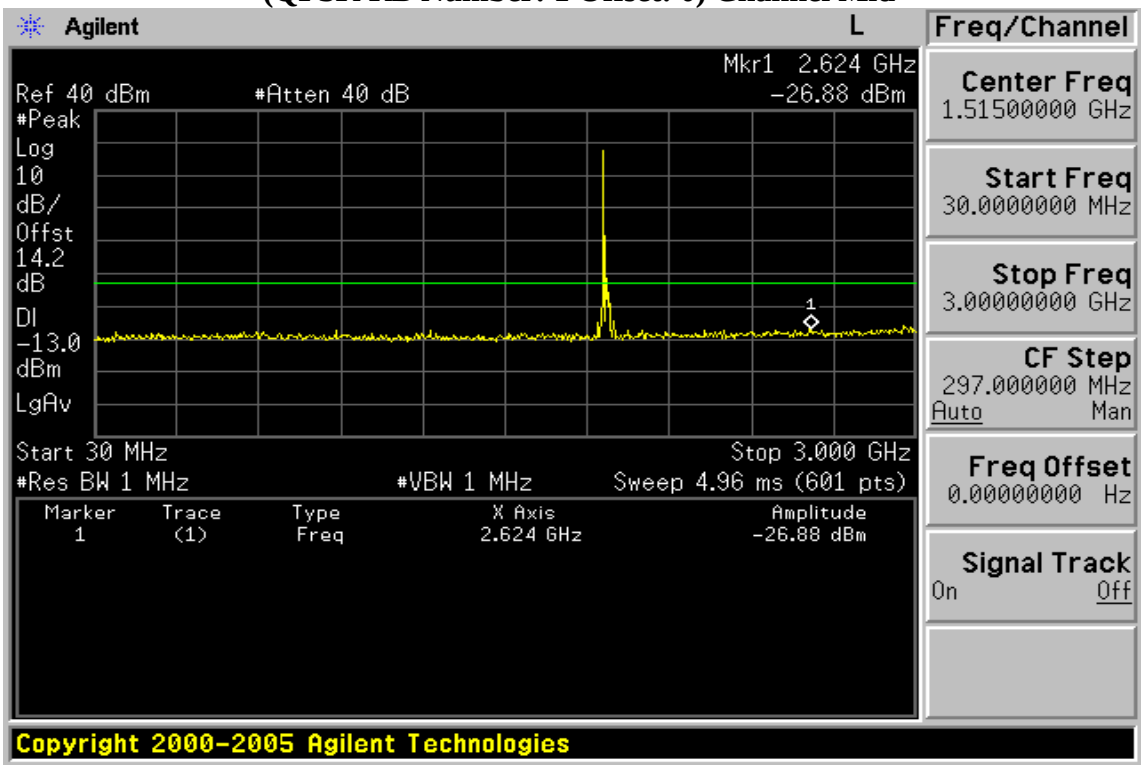
Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

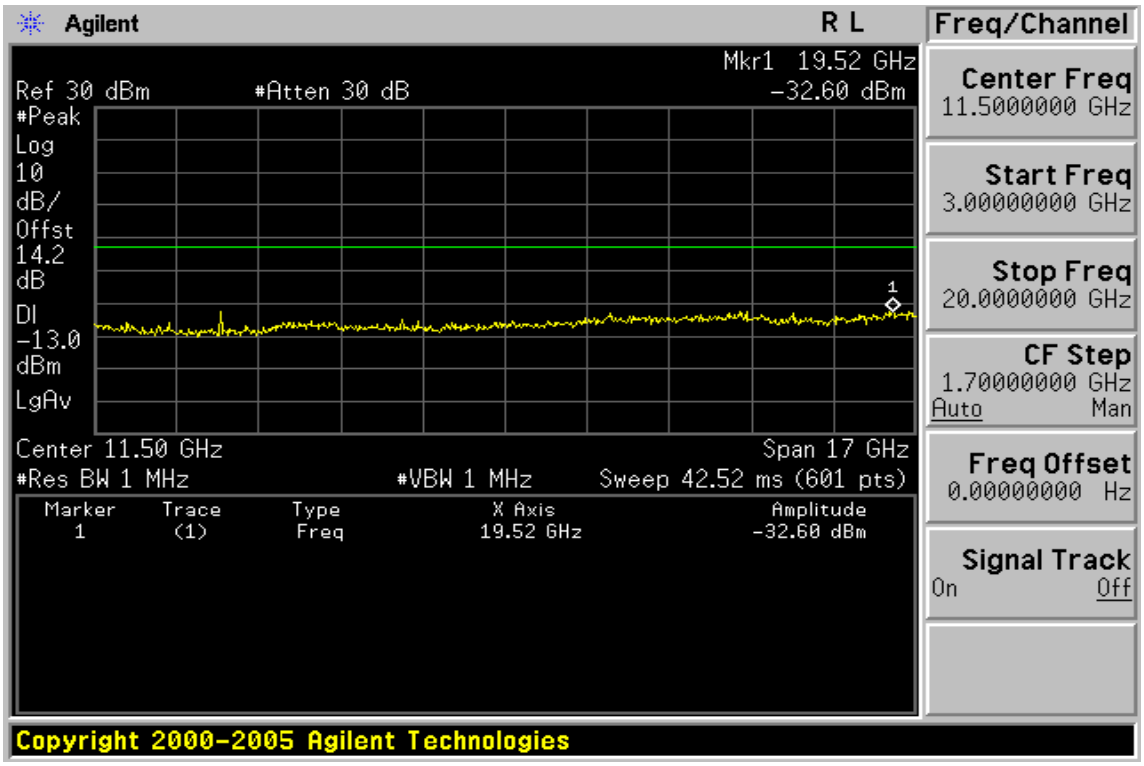




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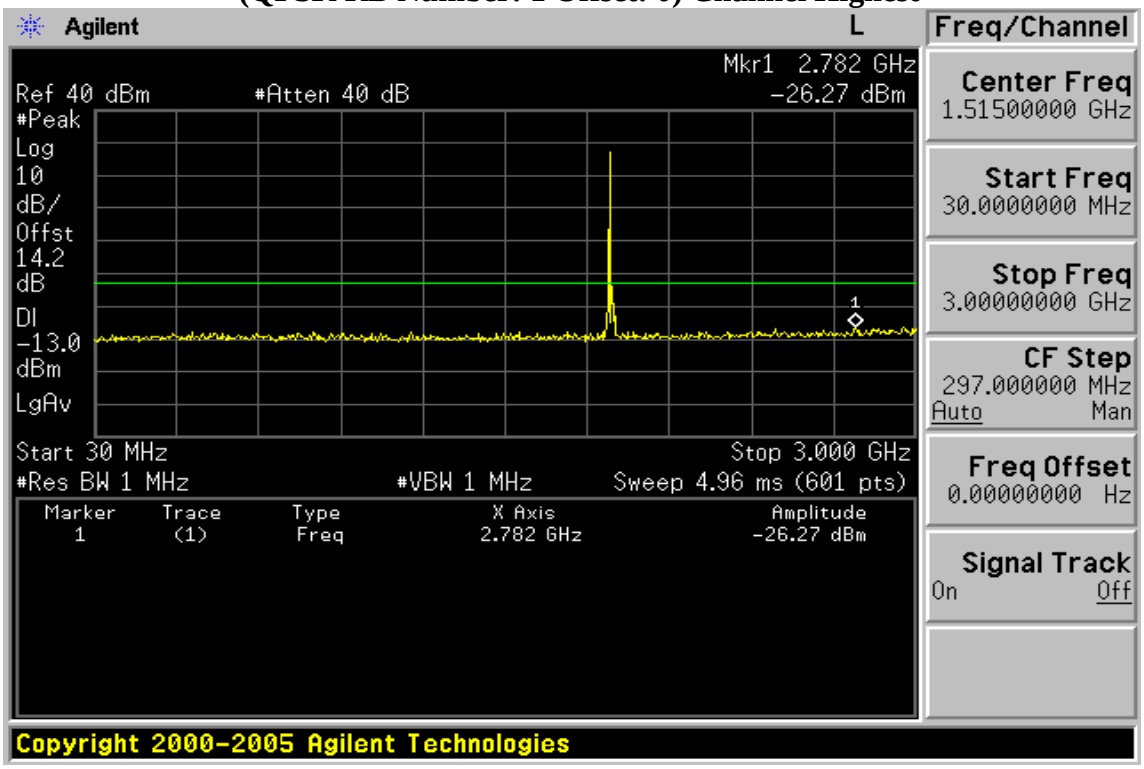
Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

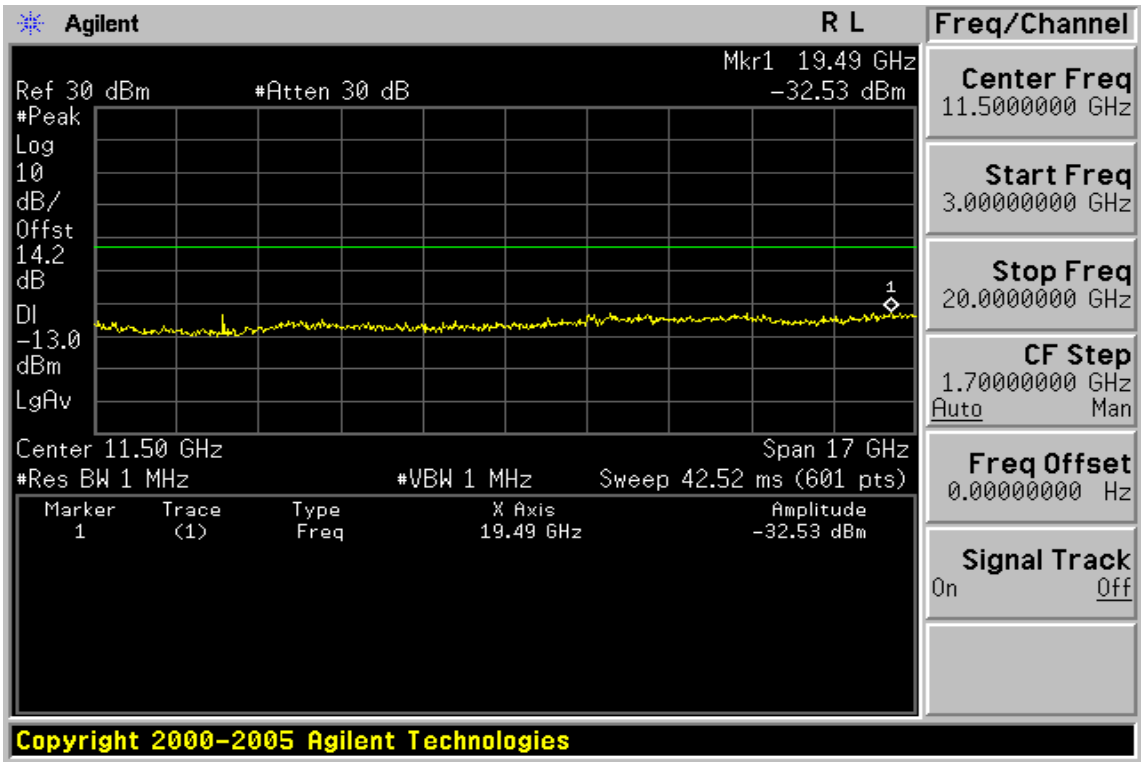




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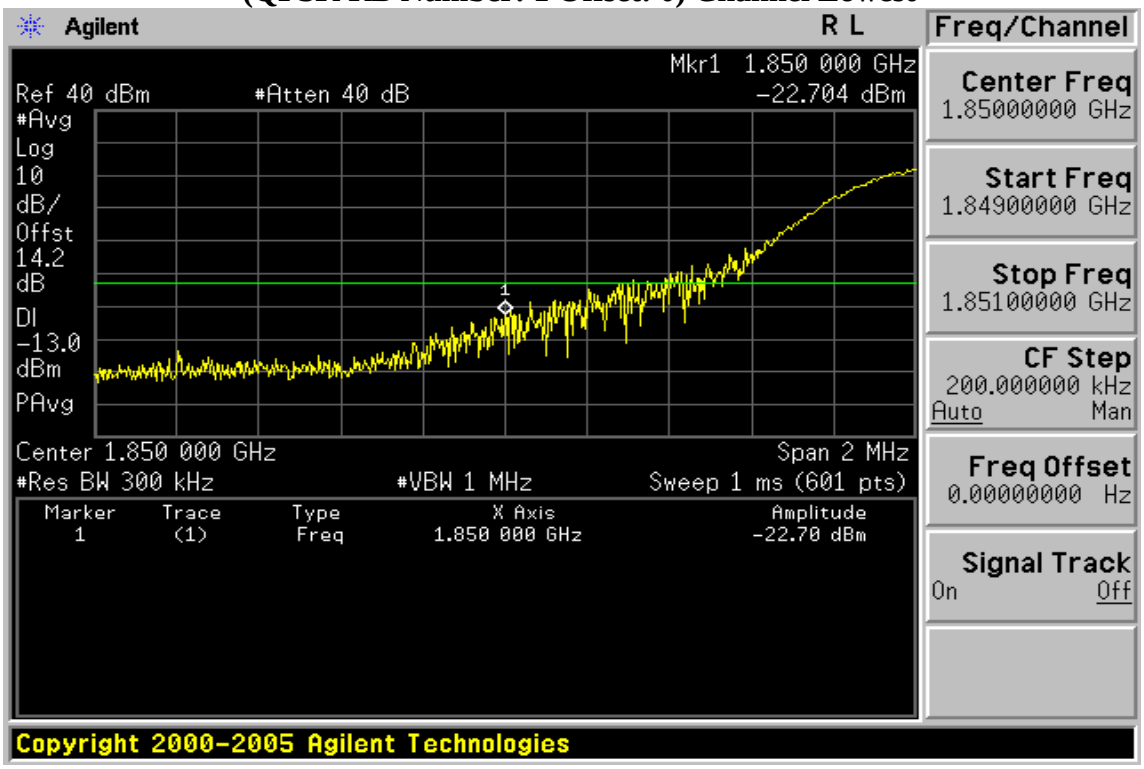
Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



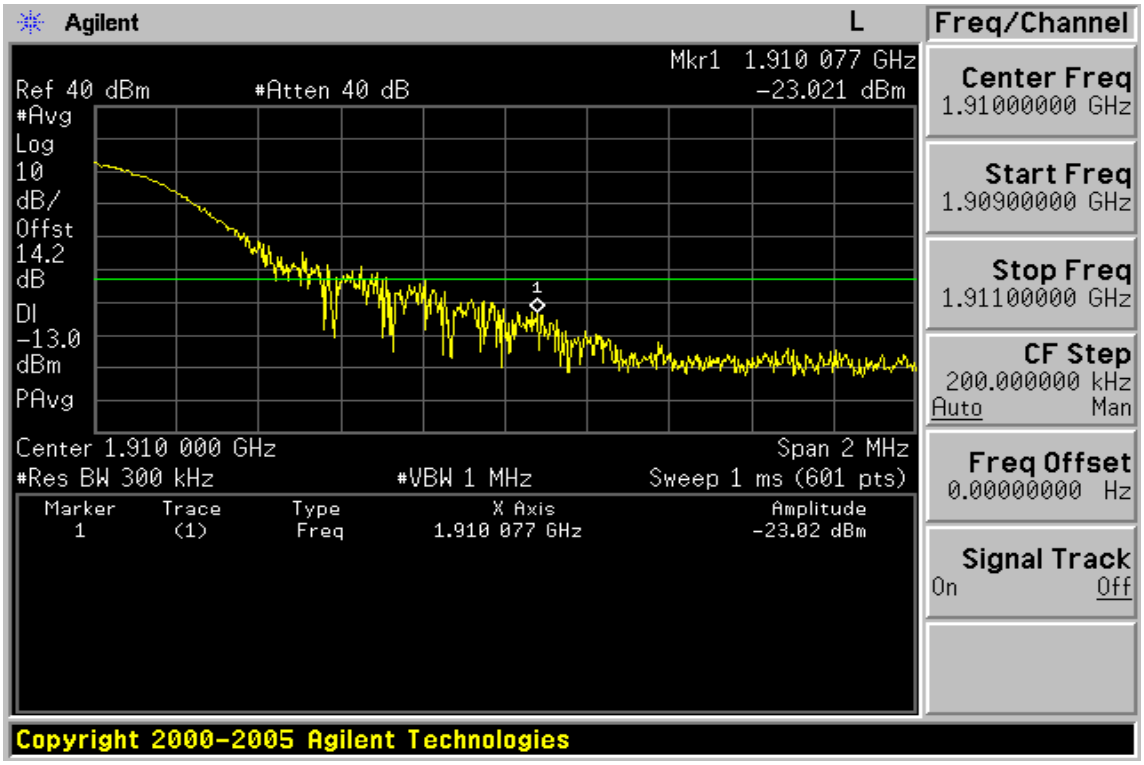


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Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

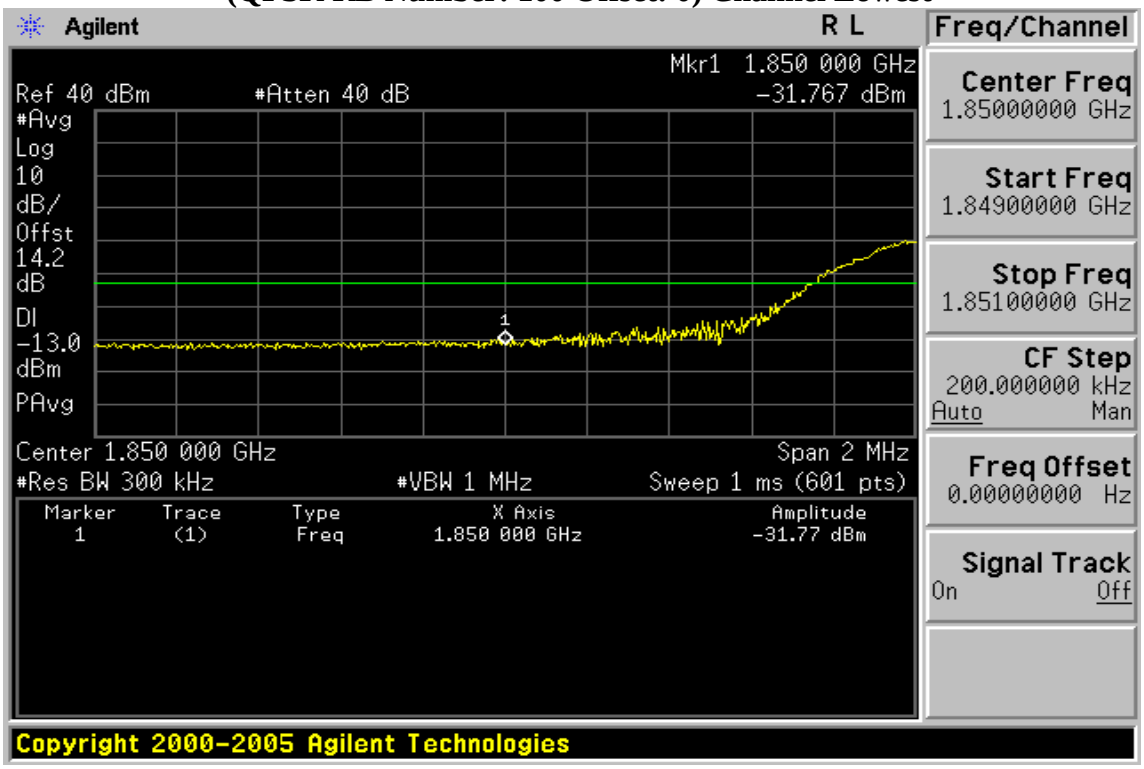


Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 99) Channel Highest

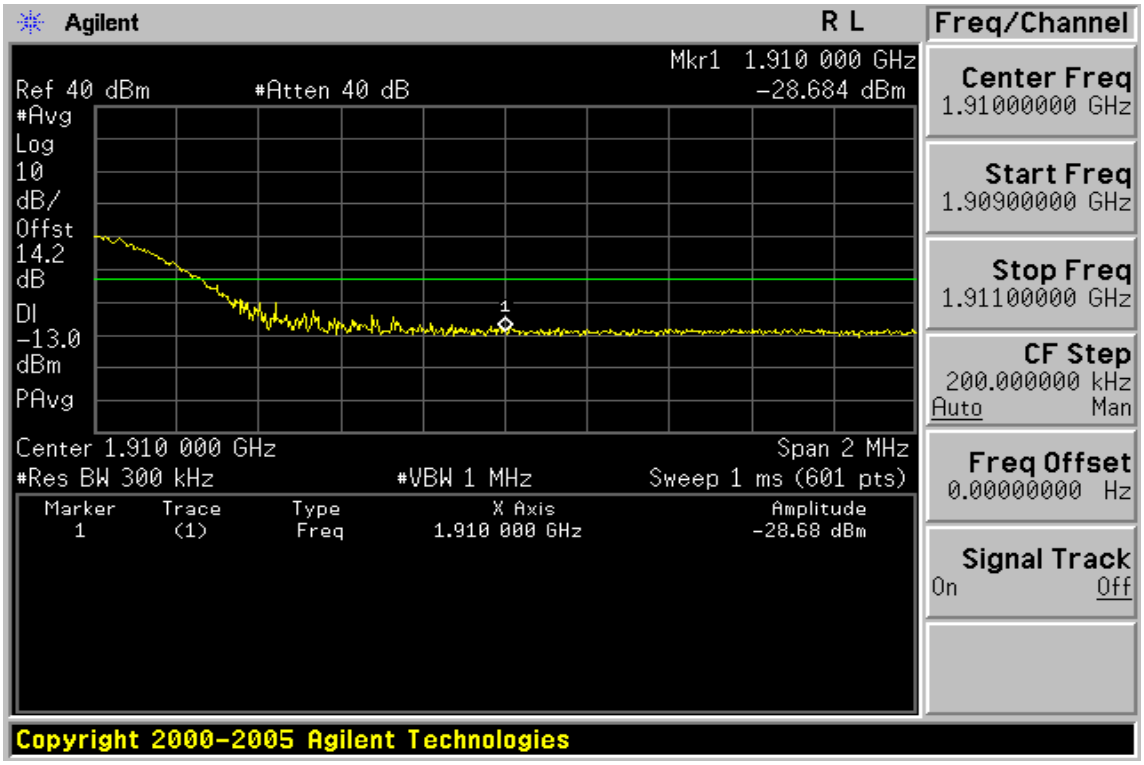


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Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 100 Offset: 0) Channel Lowest

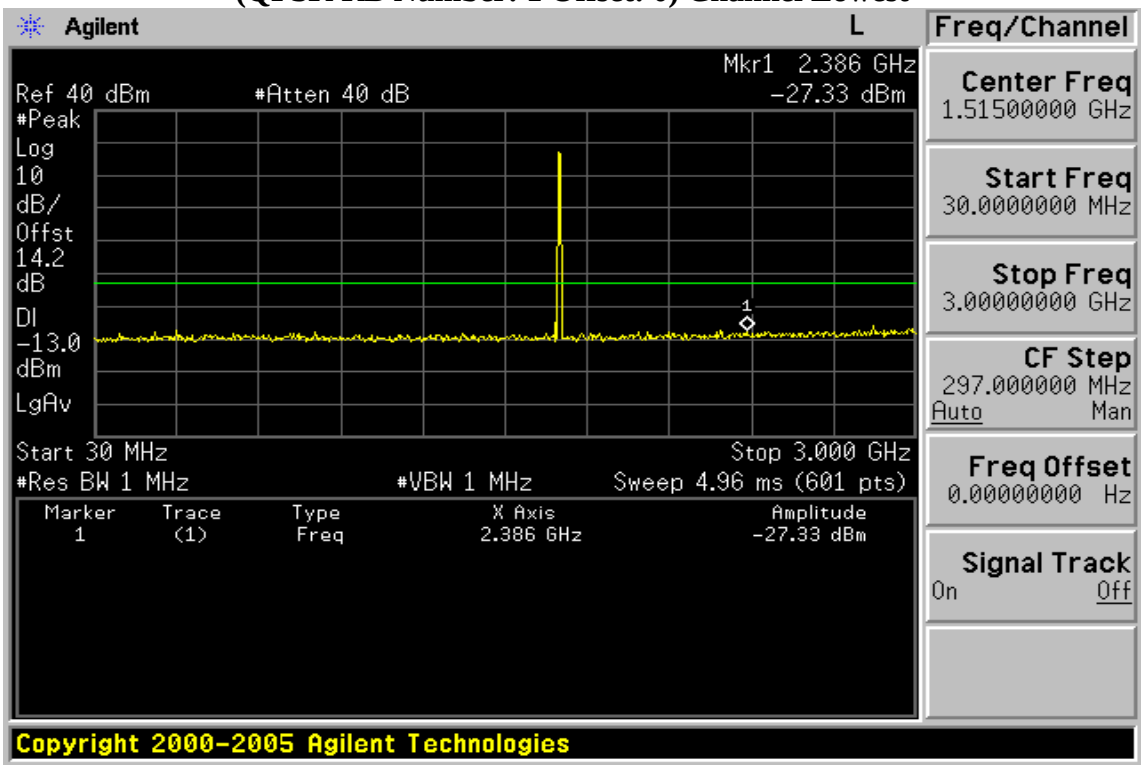


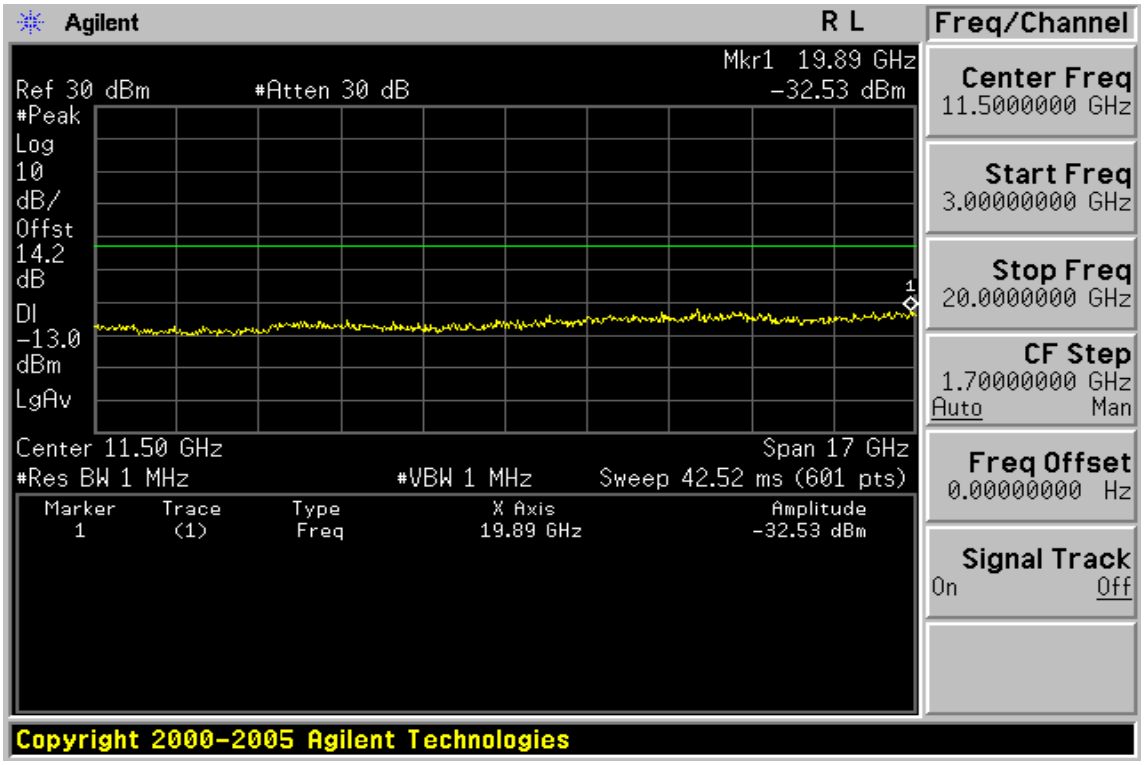
Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 100 Offset: 0) Channel Highest



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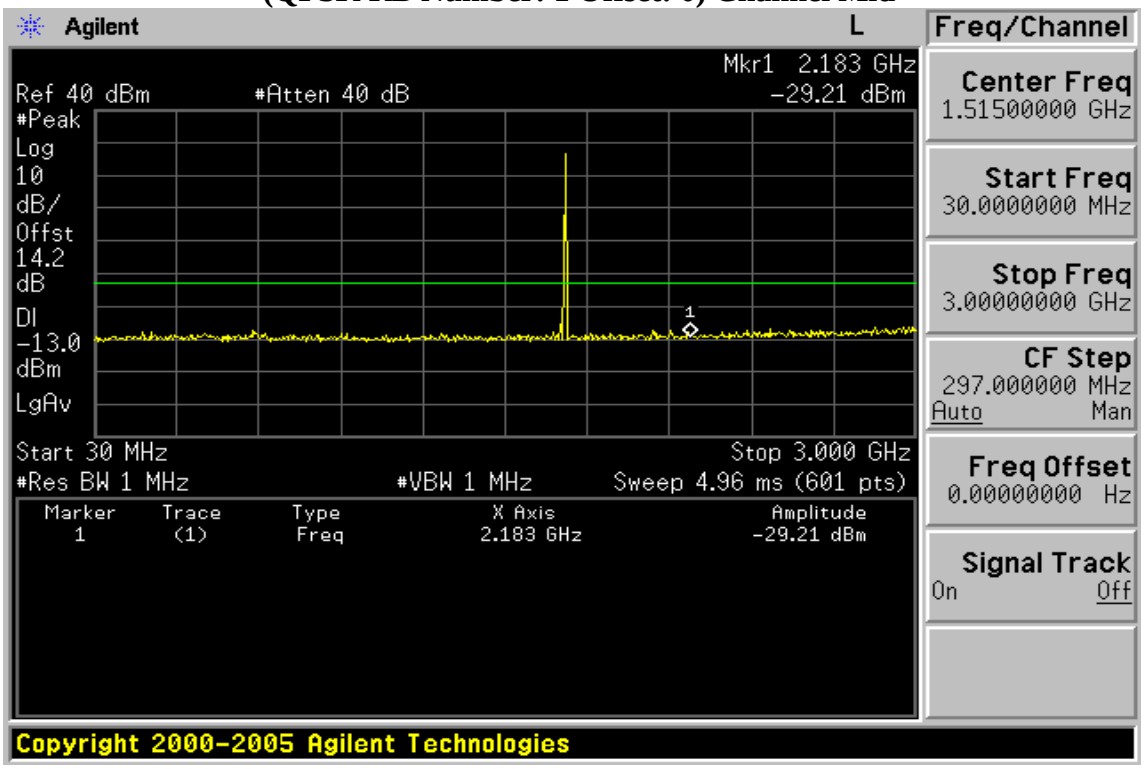
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

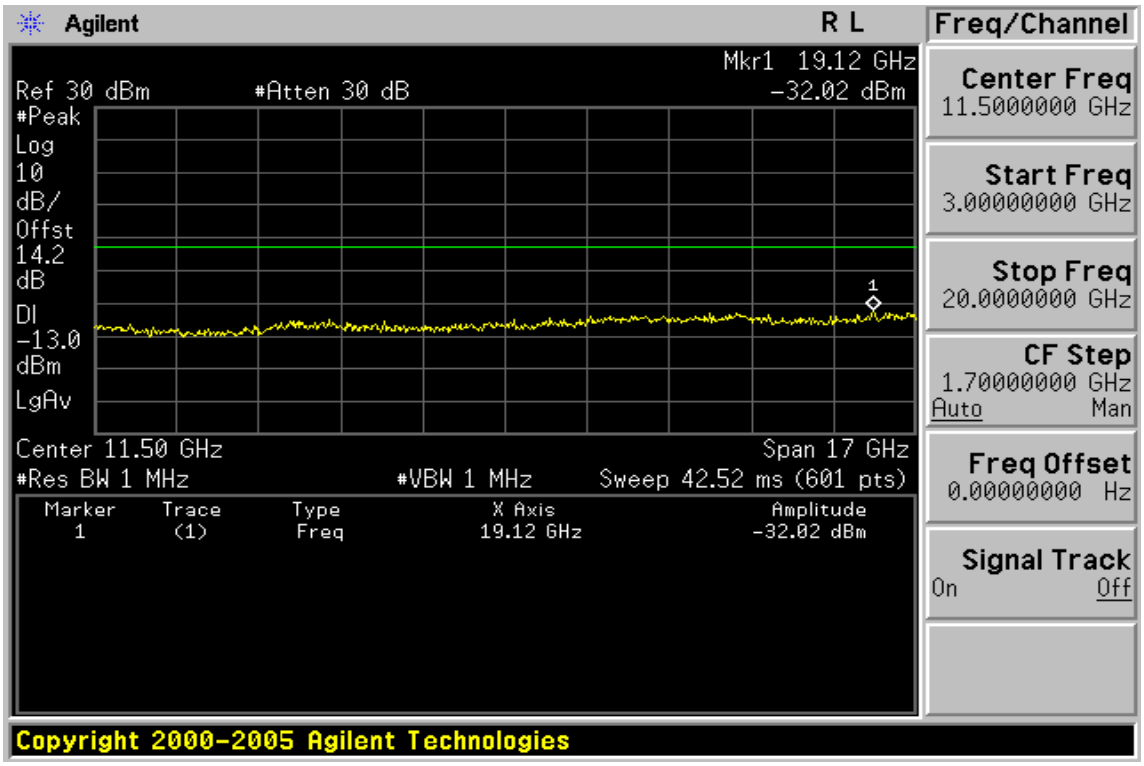




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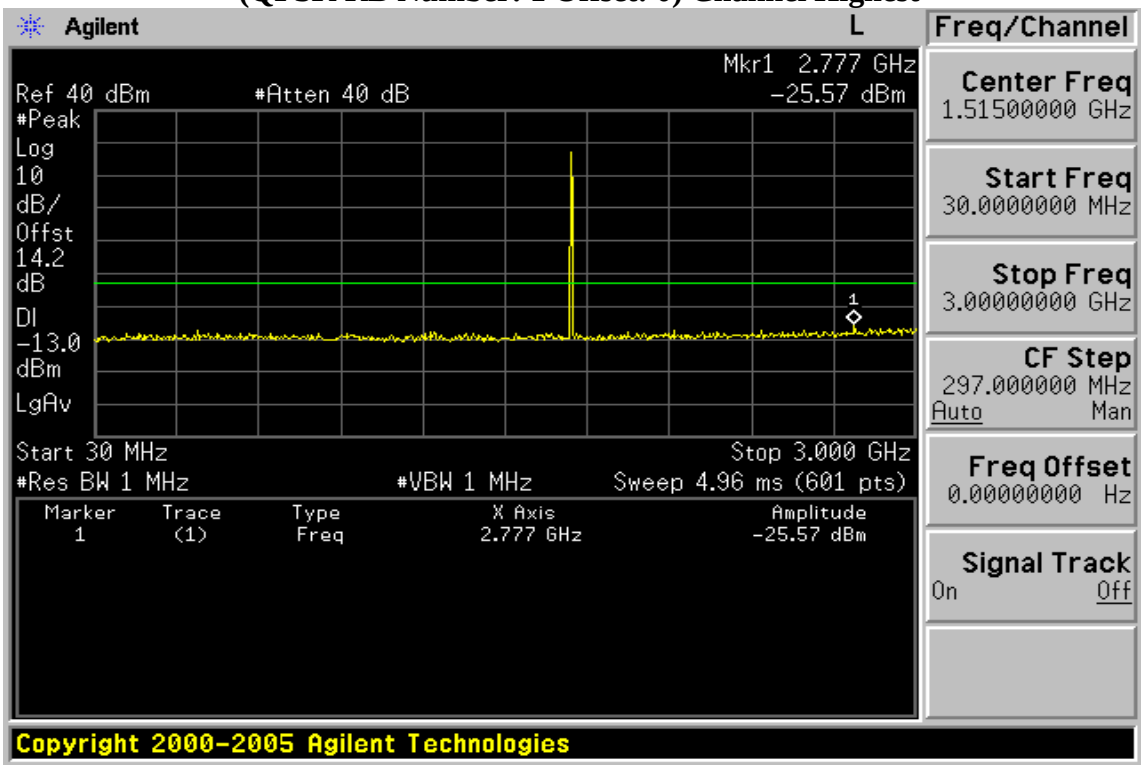
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

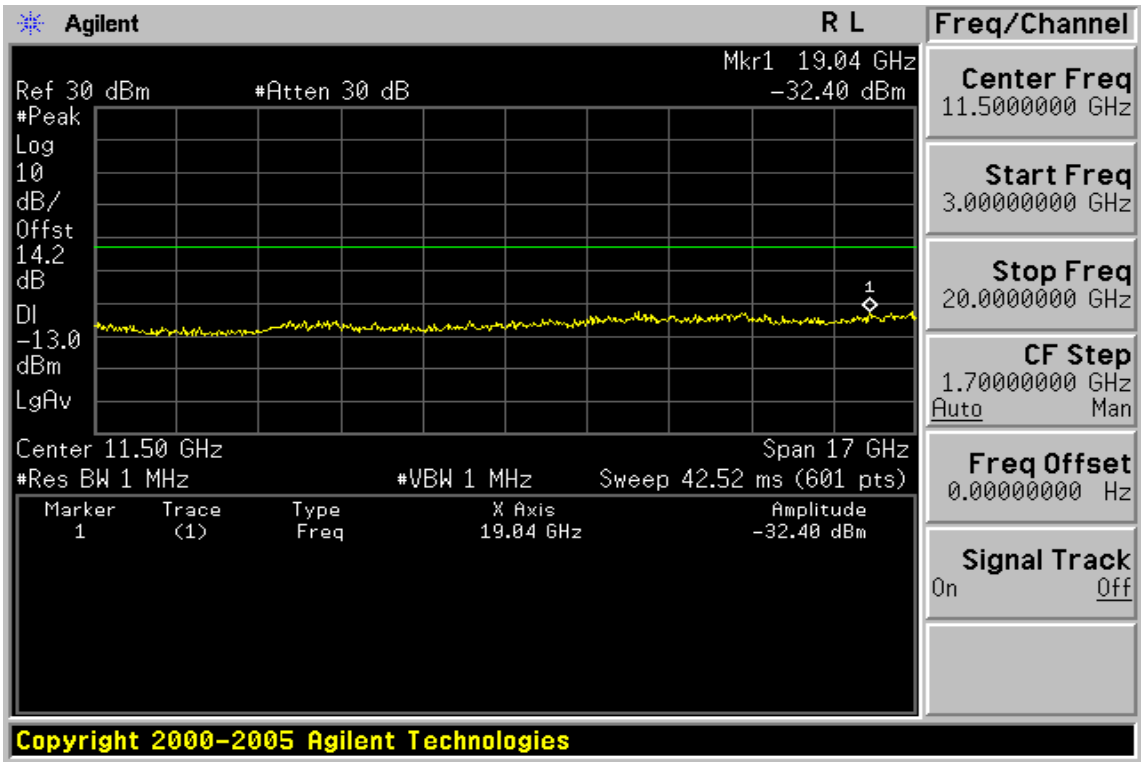




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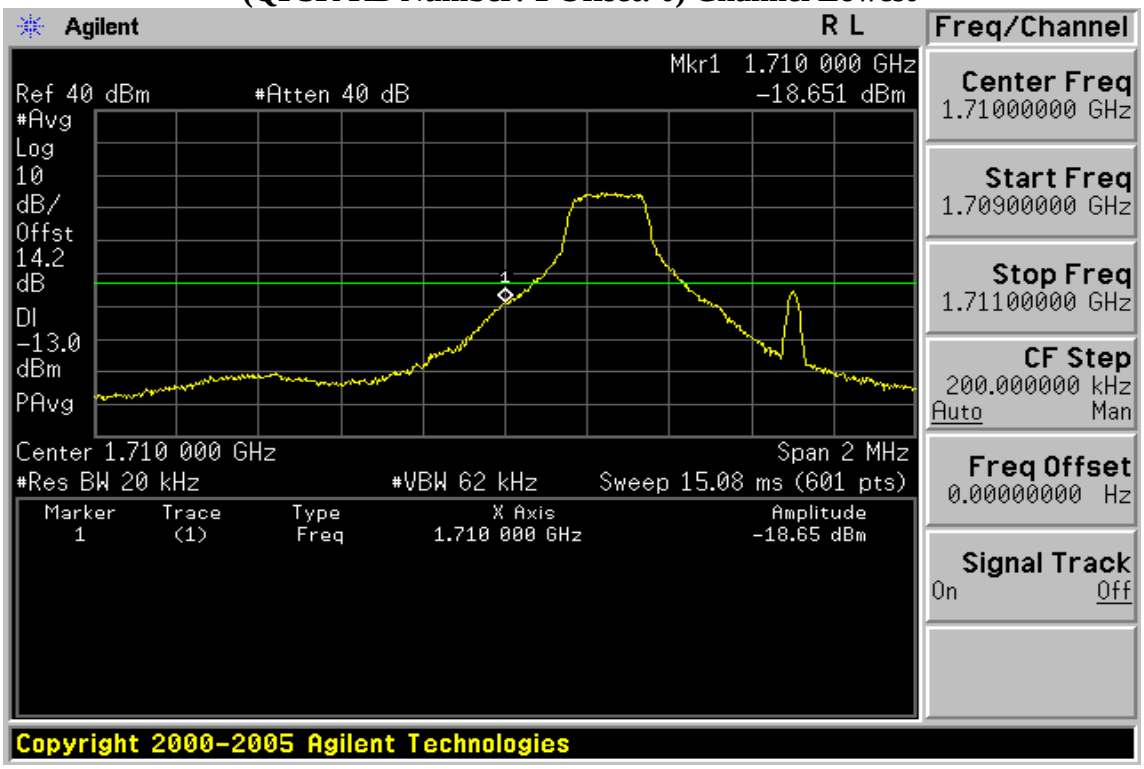
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



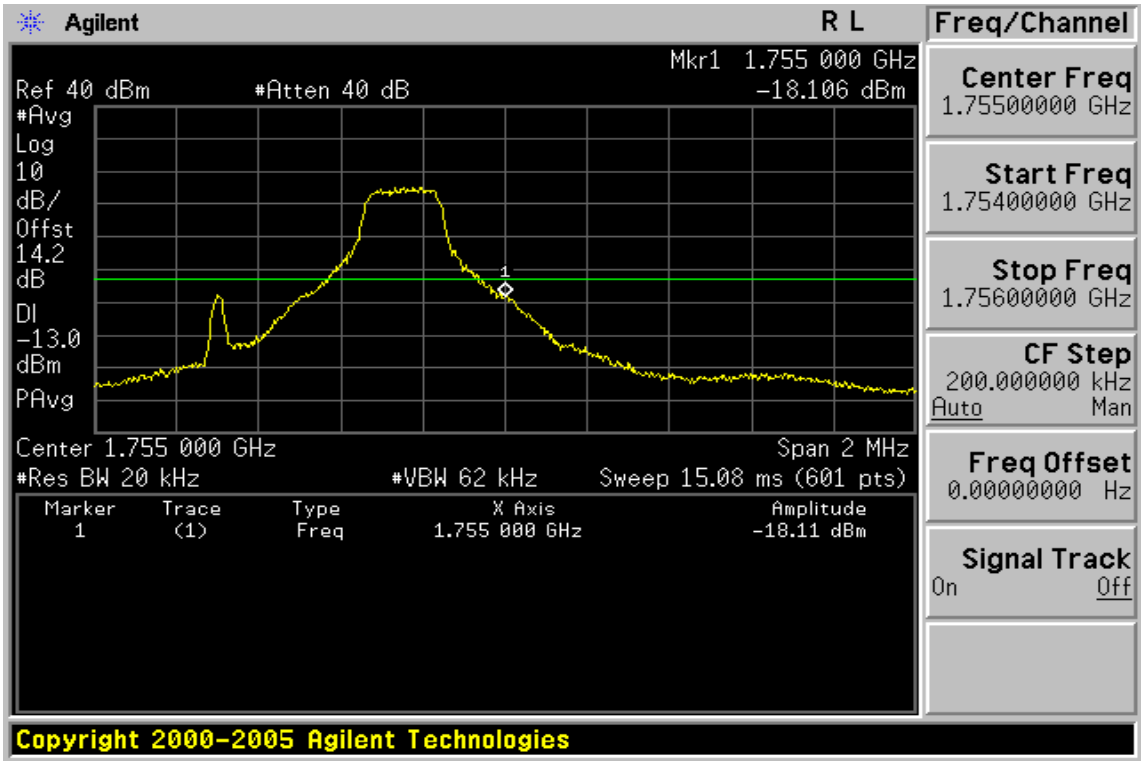


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

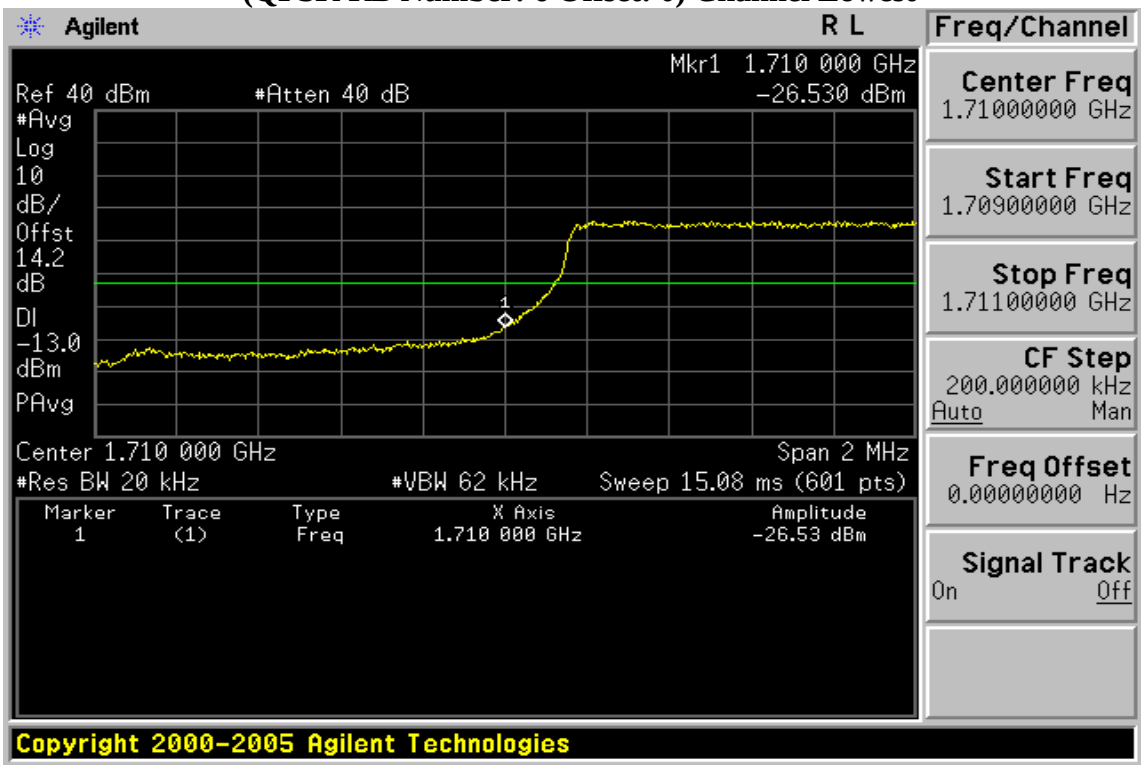


Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 5) Channel Highest

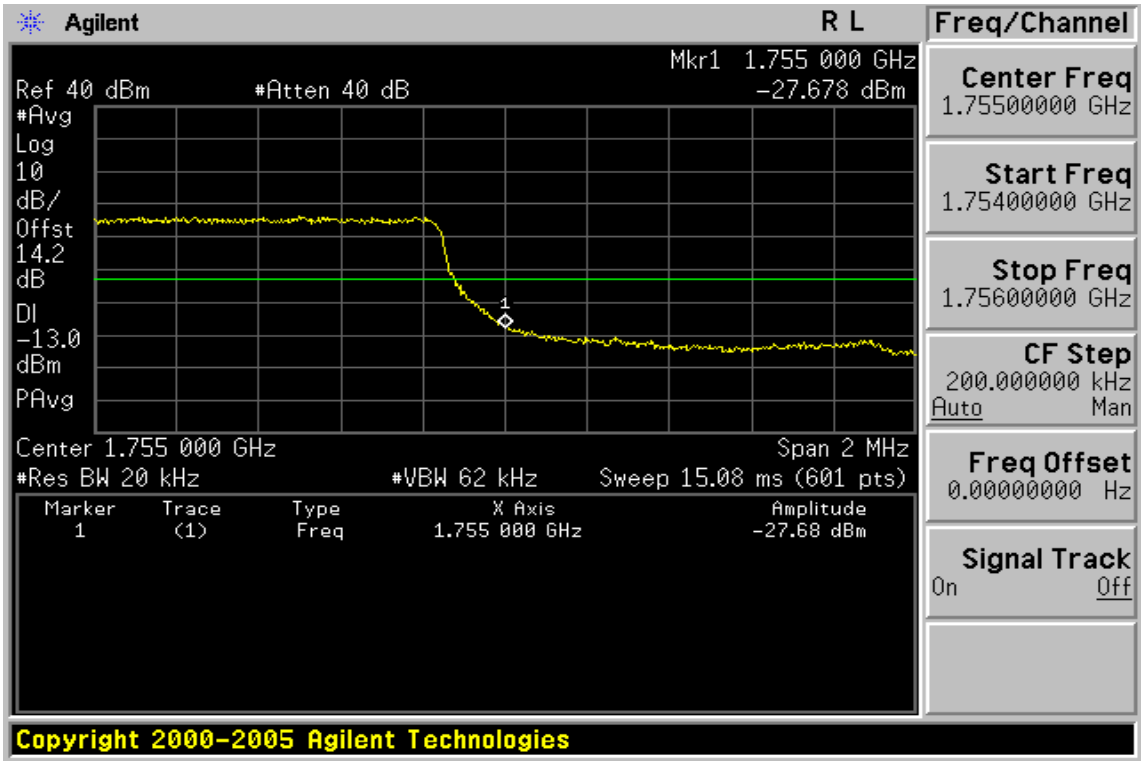


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 6 Offset: 0) Channel Lowest

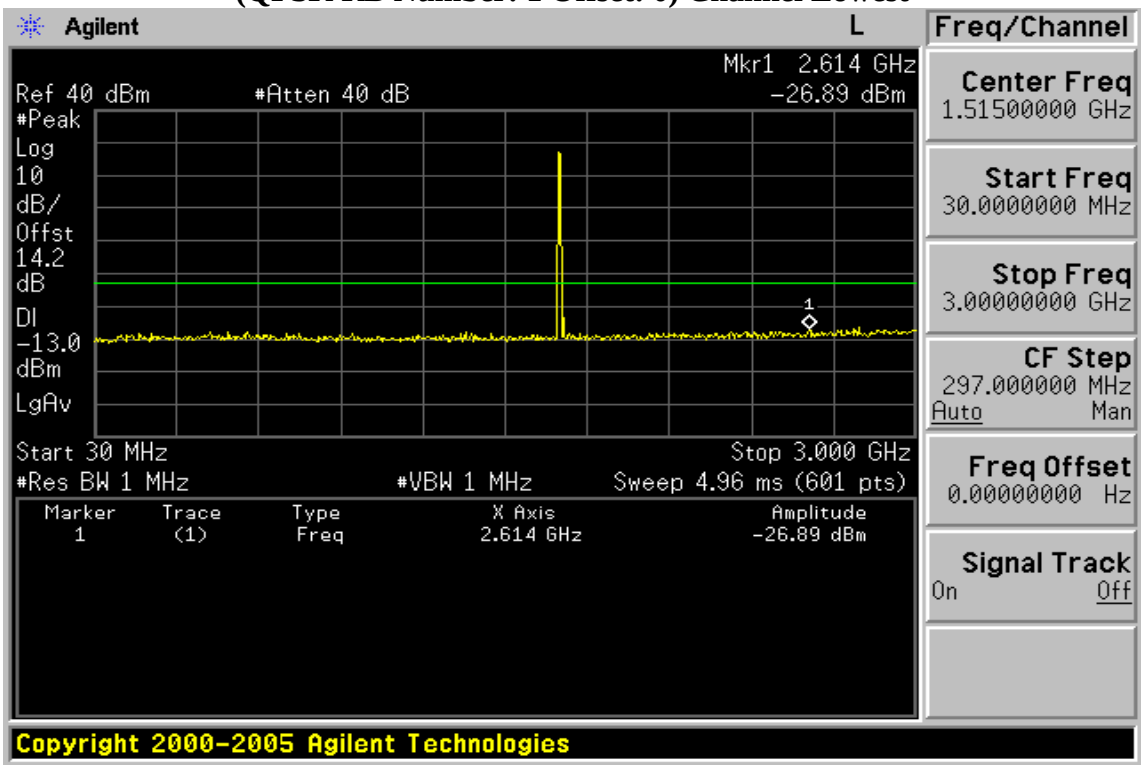


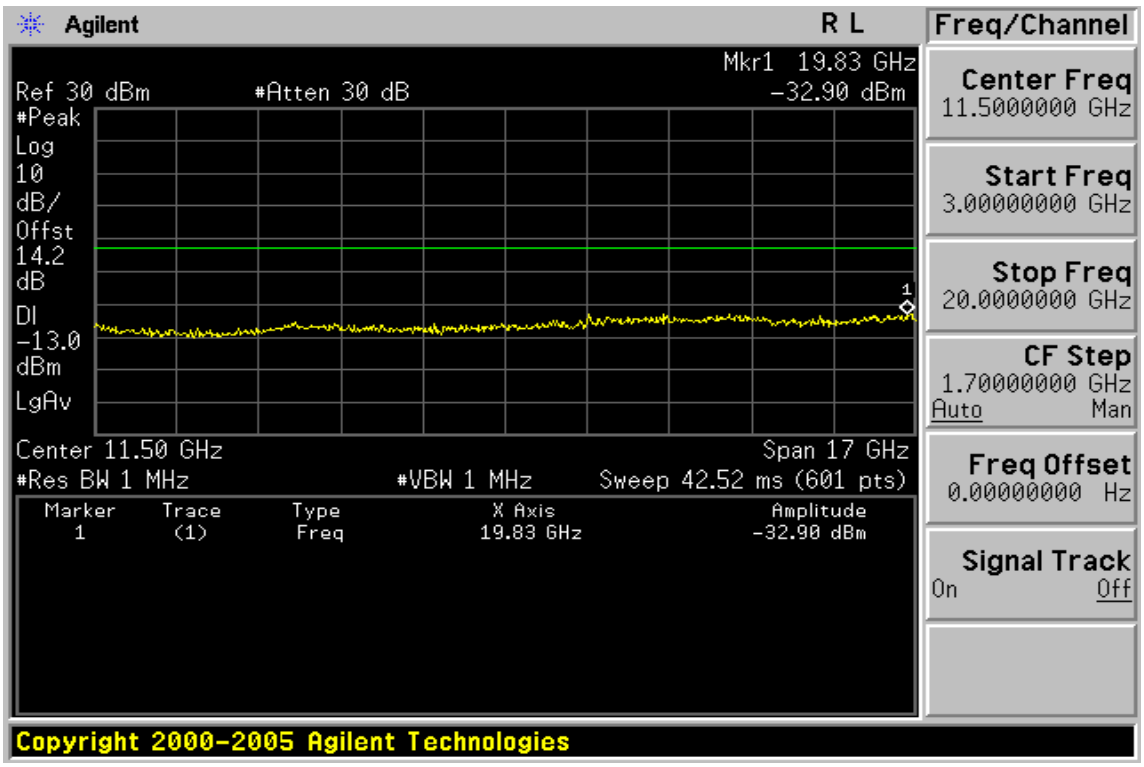
Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 6 Offset: 0) Channel Highest



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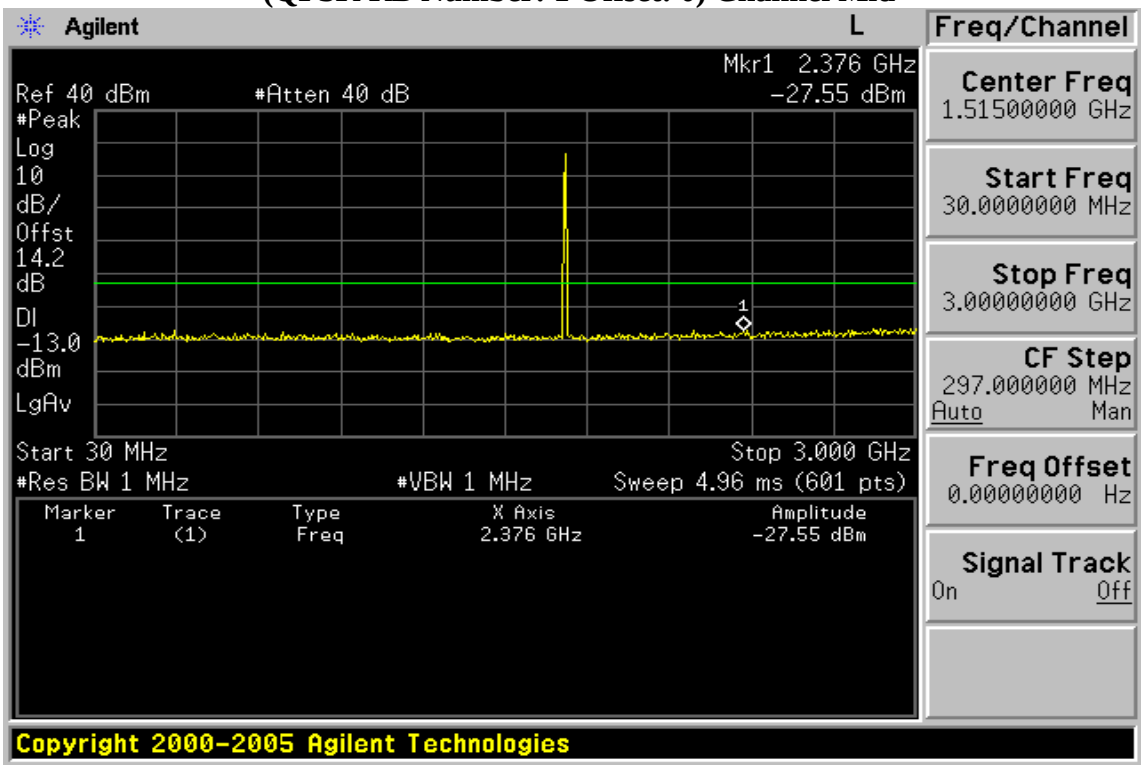
Out of Band emission at antenna terminals–3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

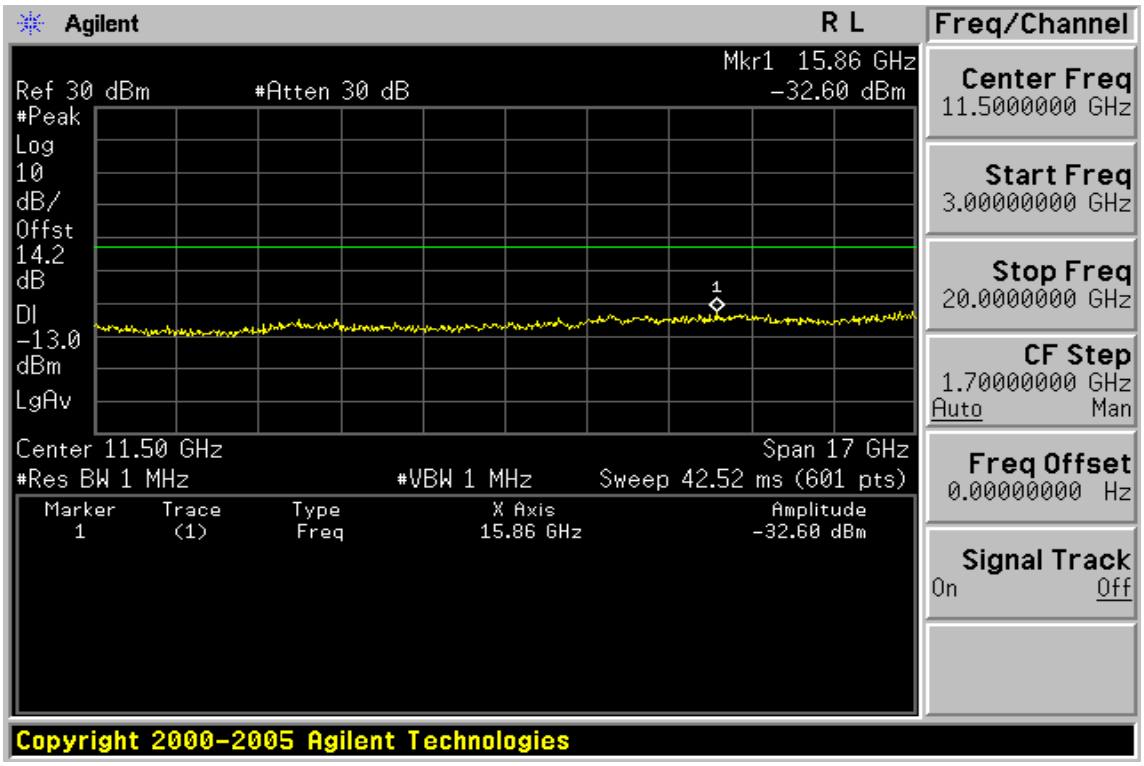




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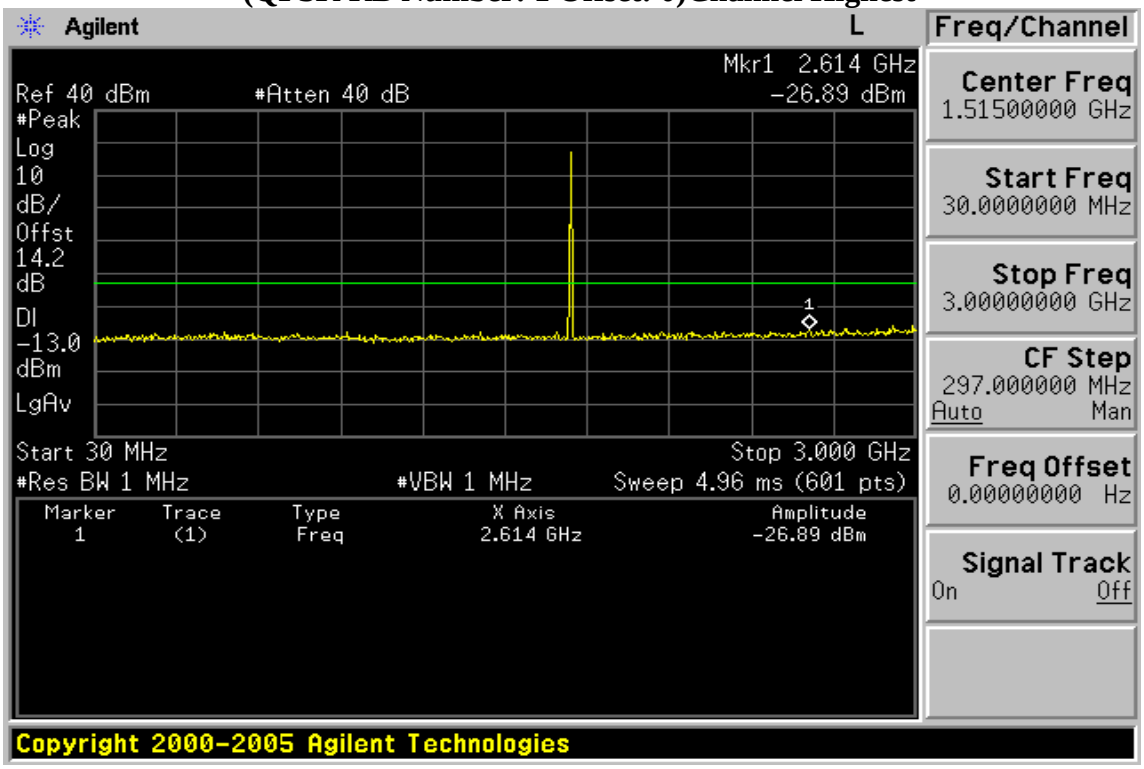
Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

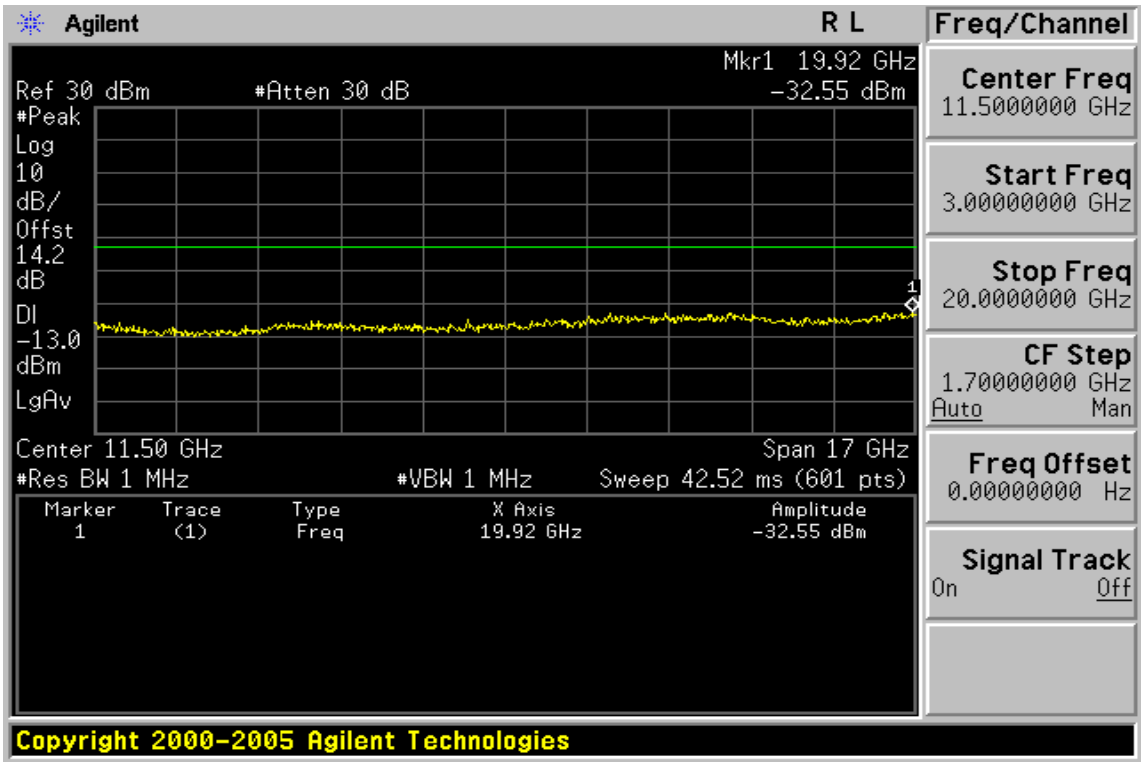




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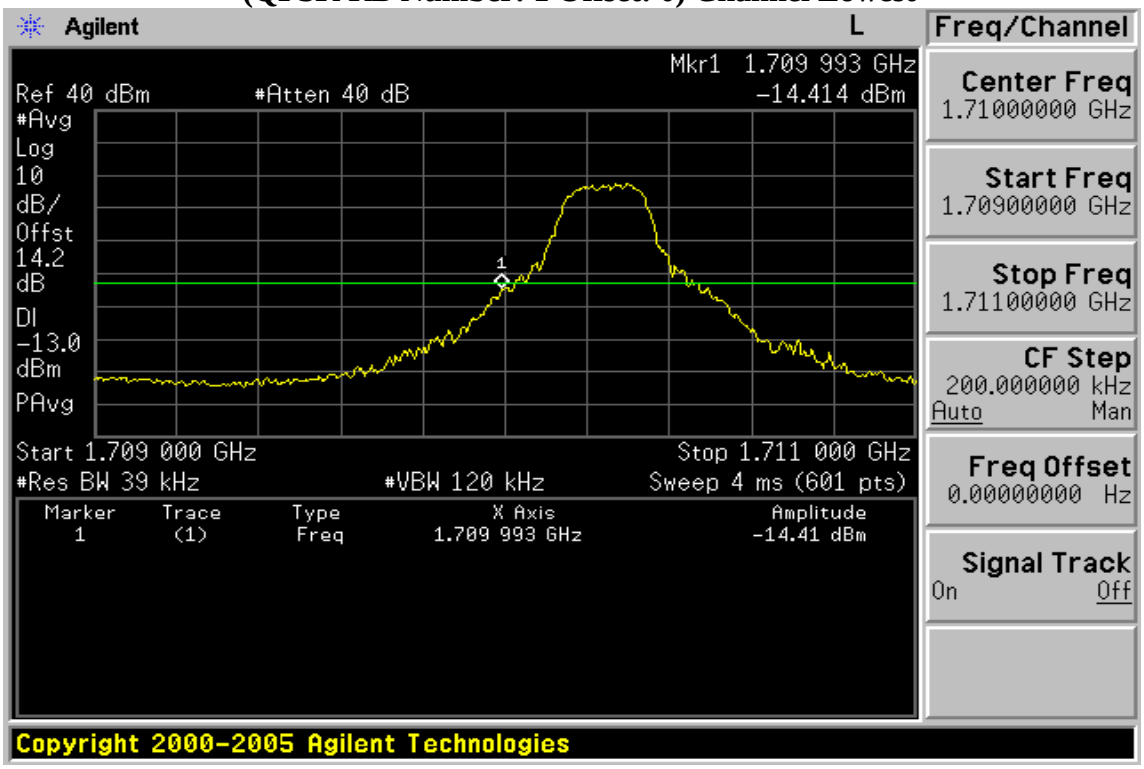
Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



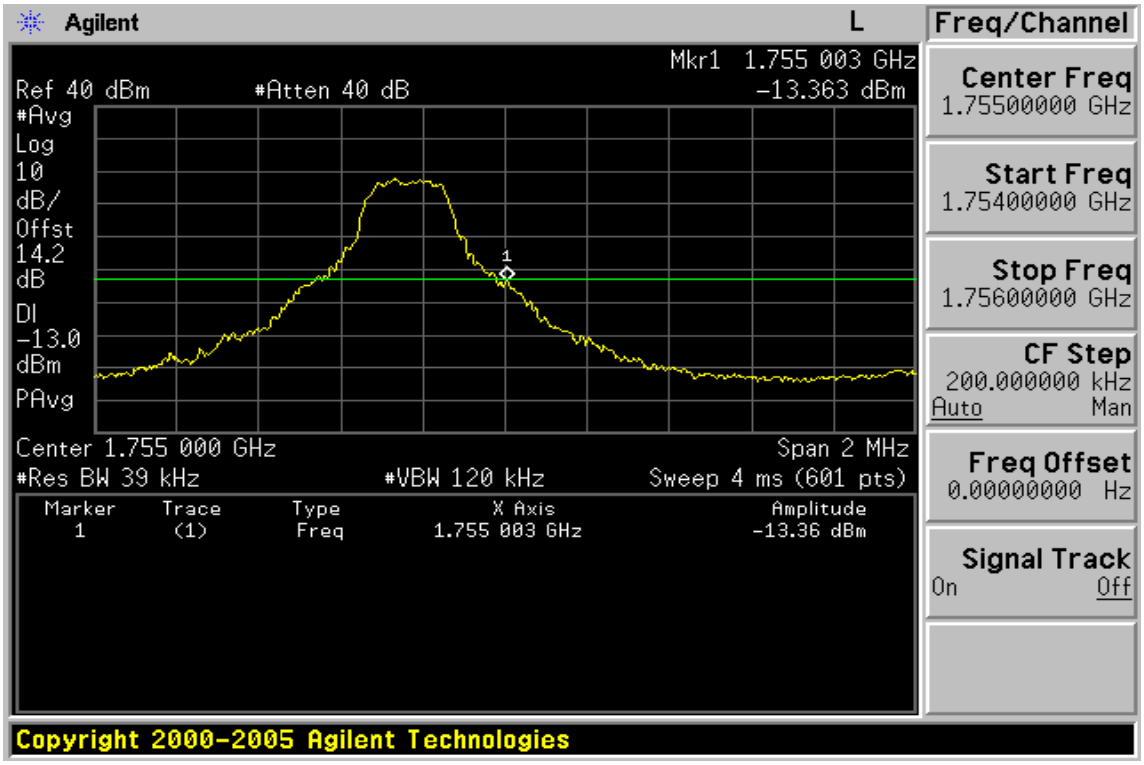


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Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

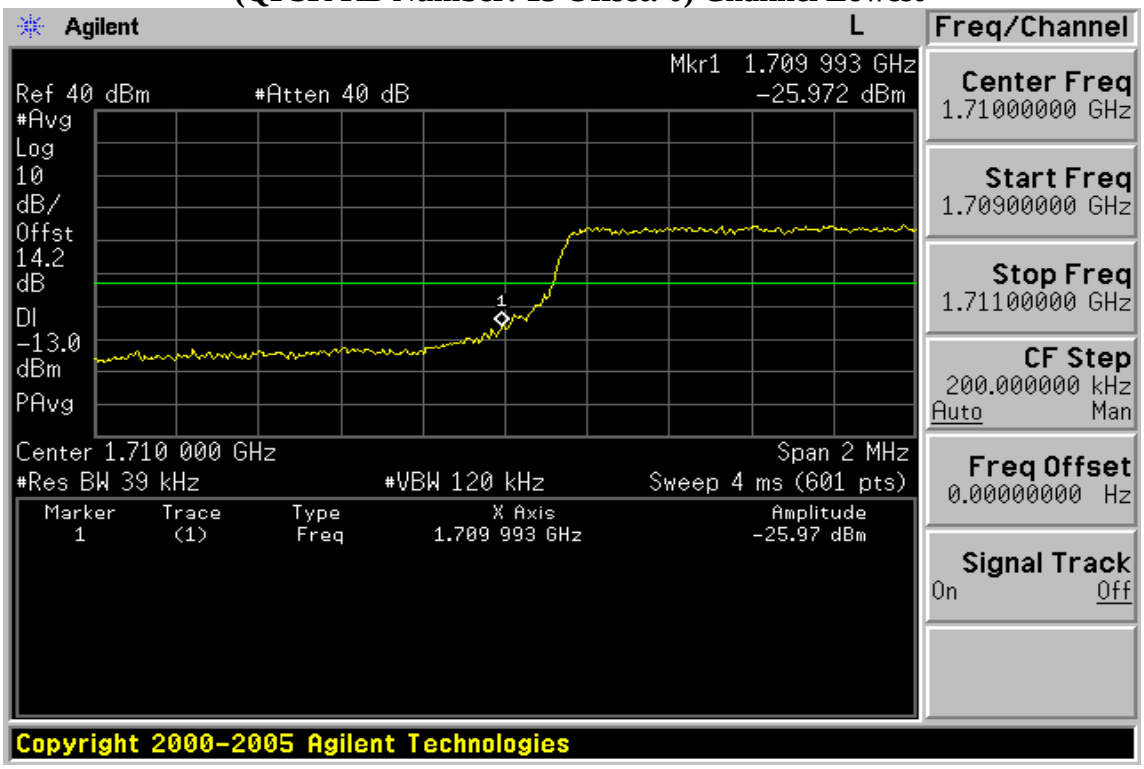


Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 14) Channel Highest



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

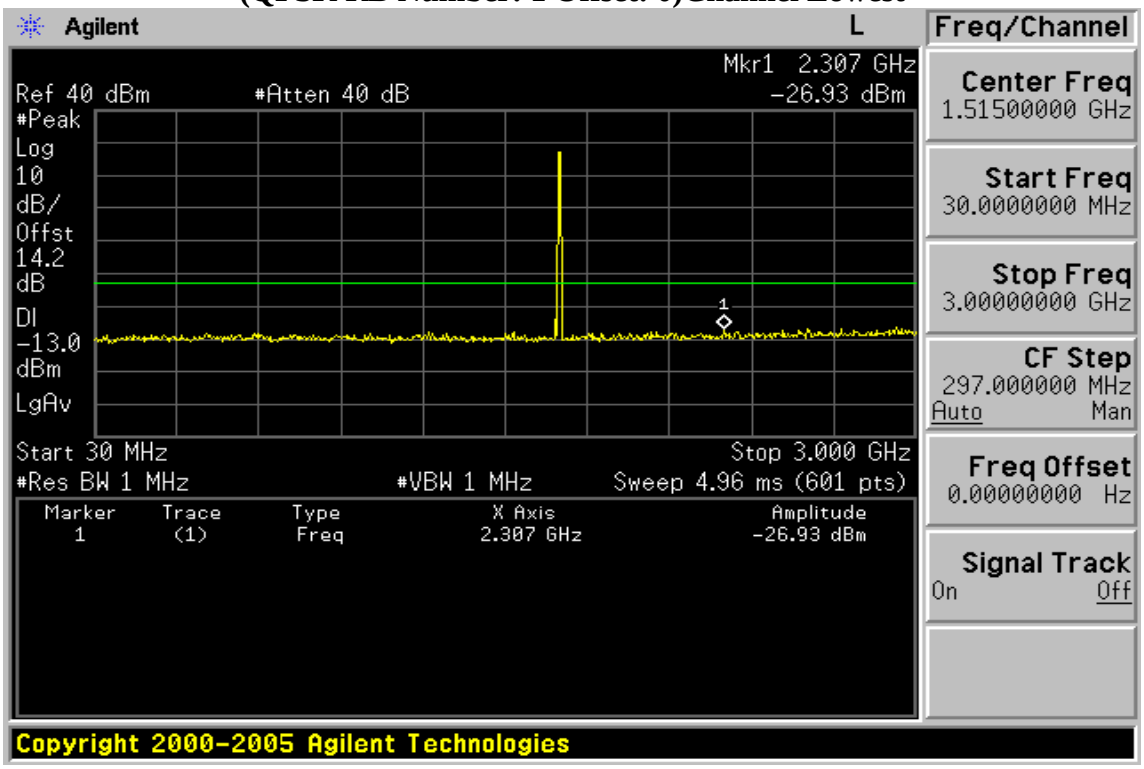


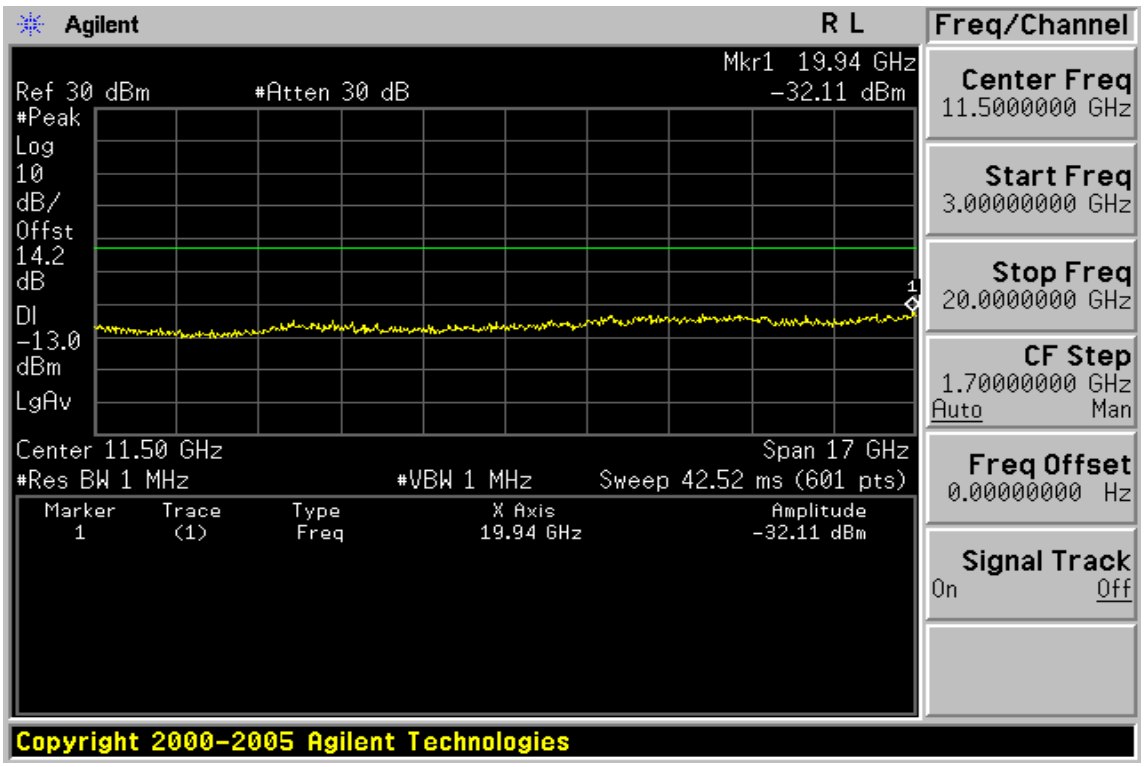
Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 15 Offset: 0) Channel Highest



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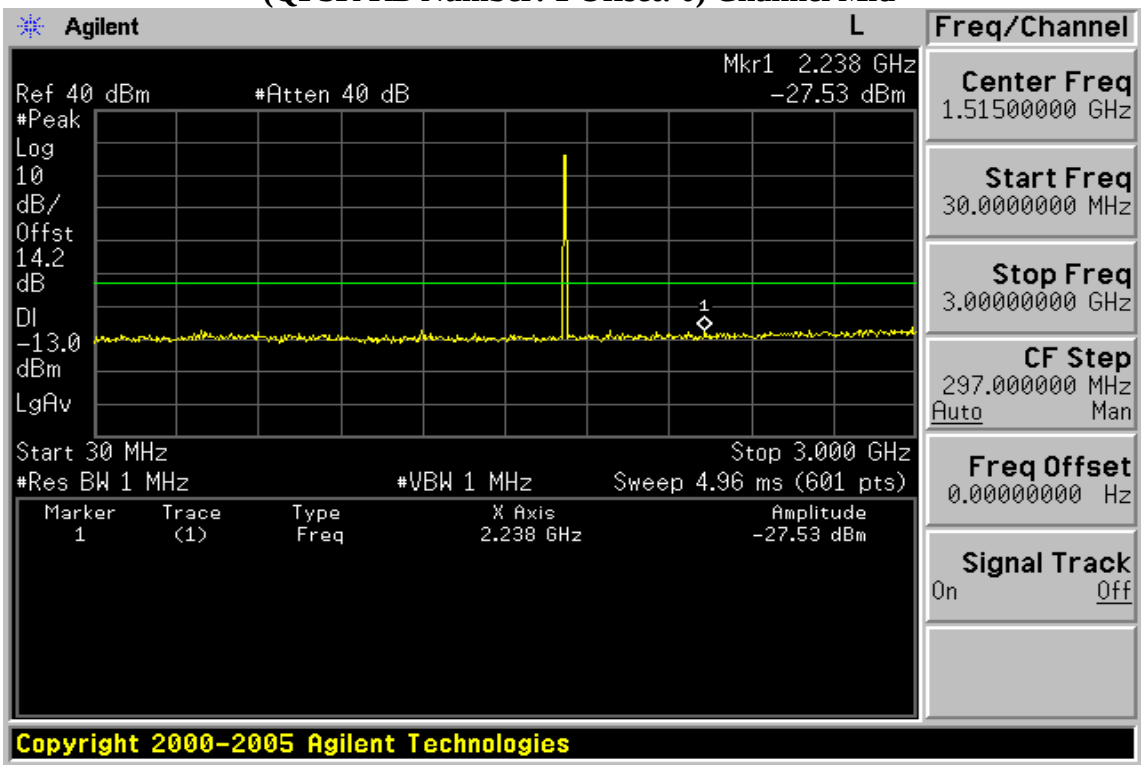
Out of Band emission at antenna terminals–5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0)Channel Lowest

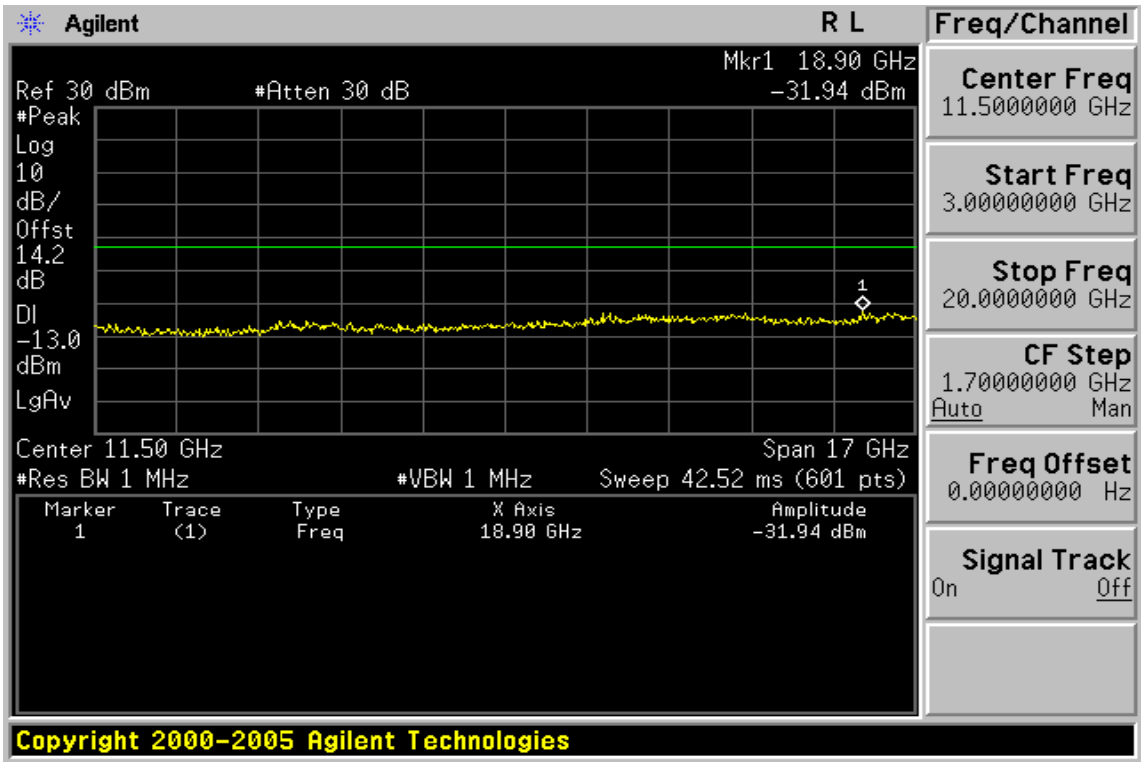




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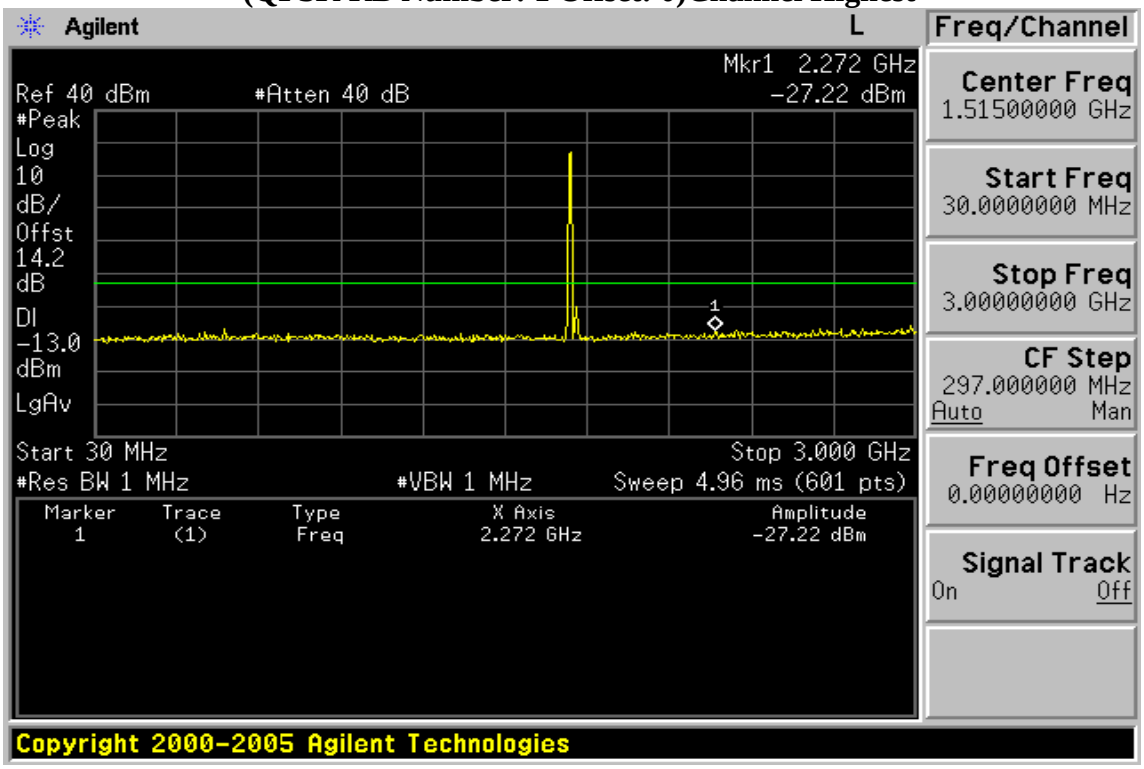
Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

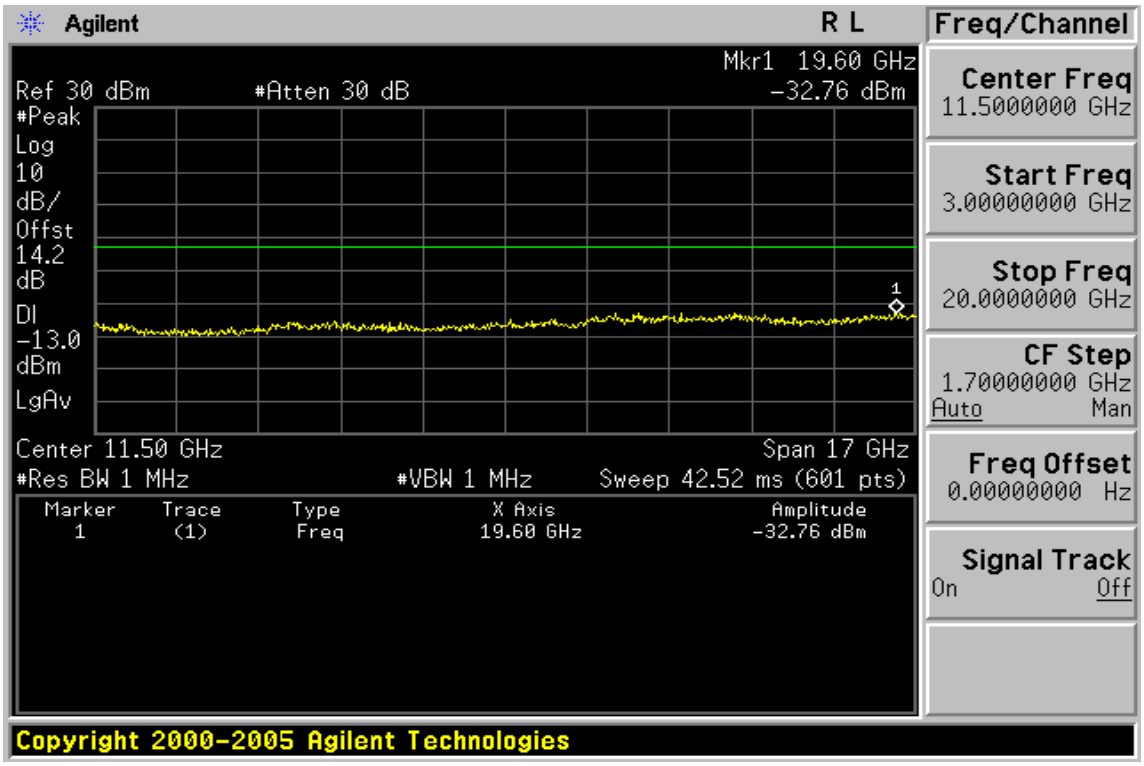




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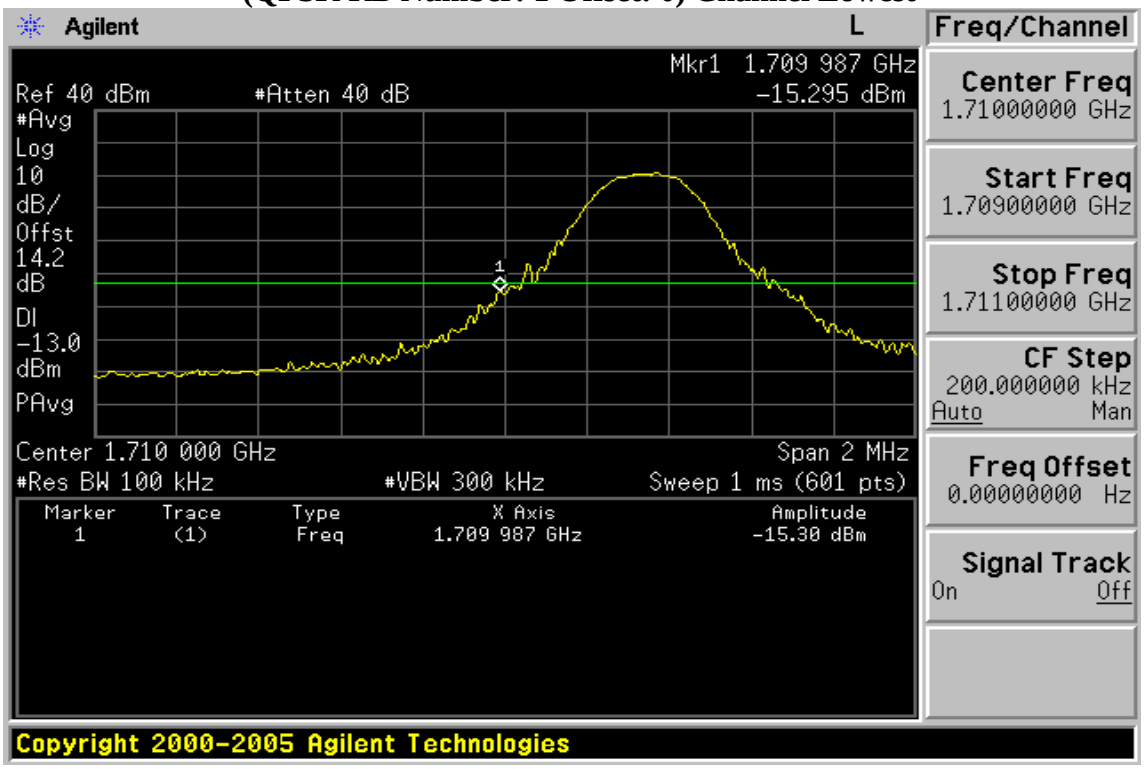
Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



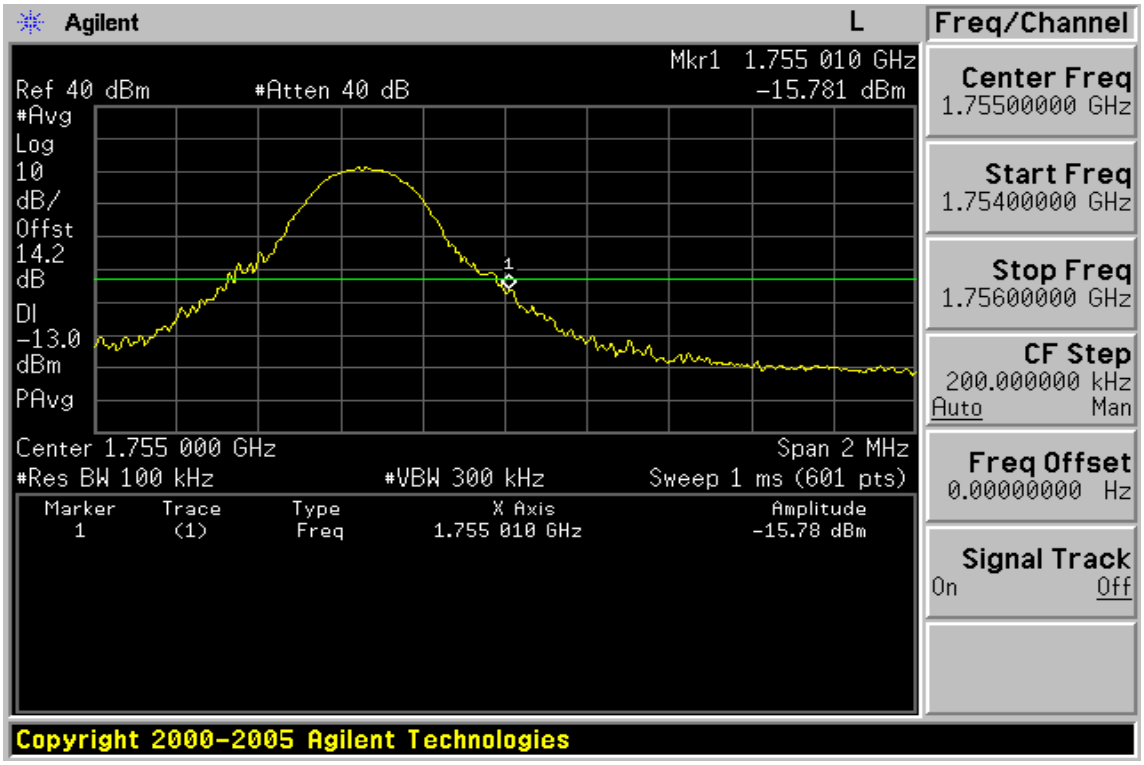


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Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

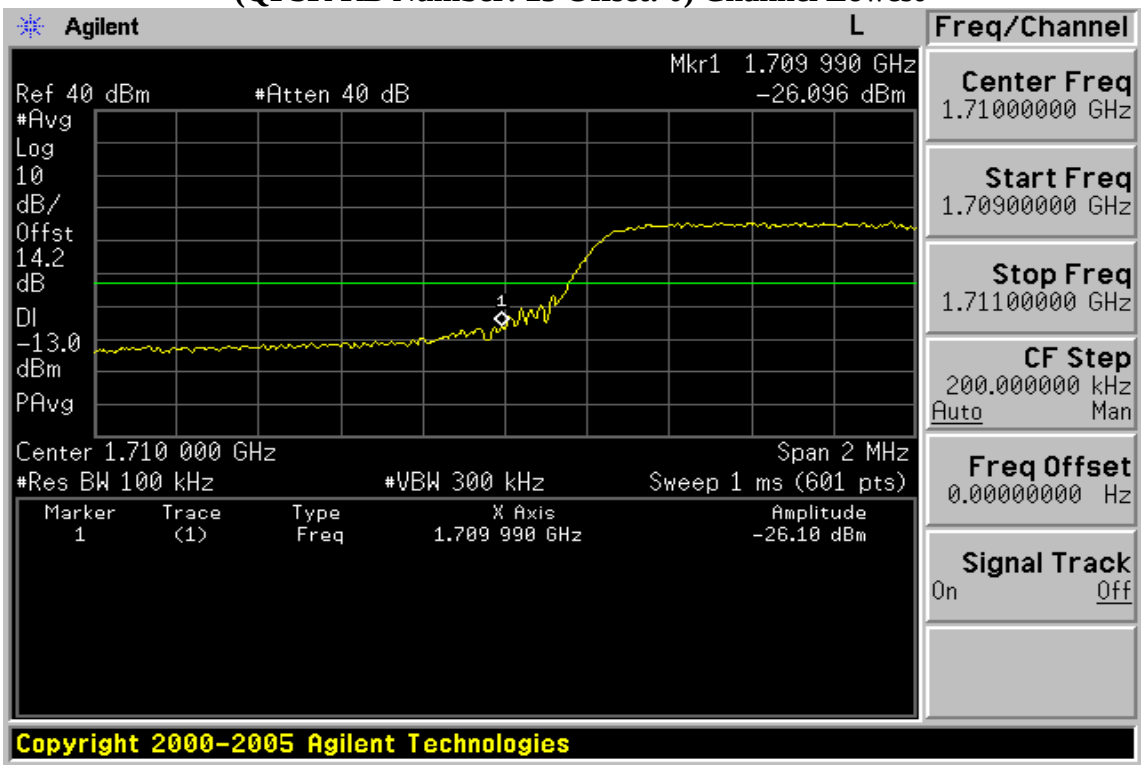


Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 24) Channel Highest



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

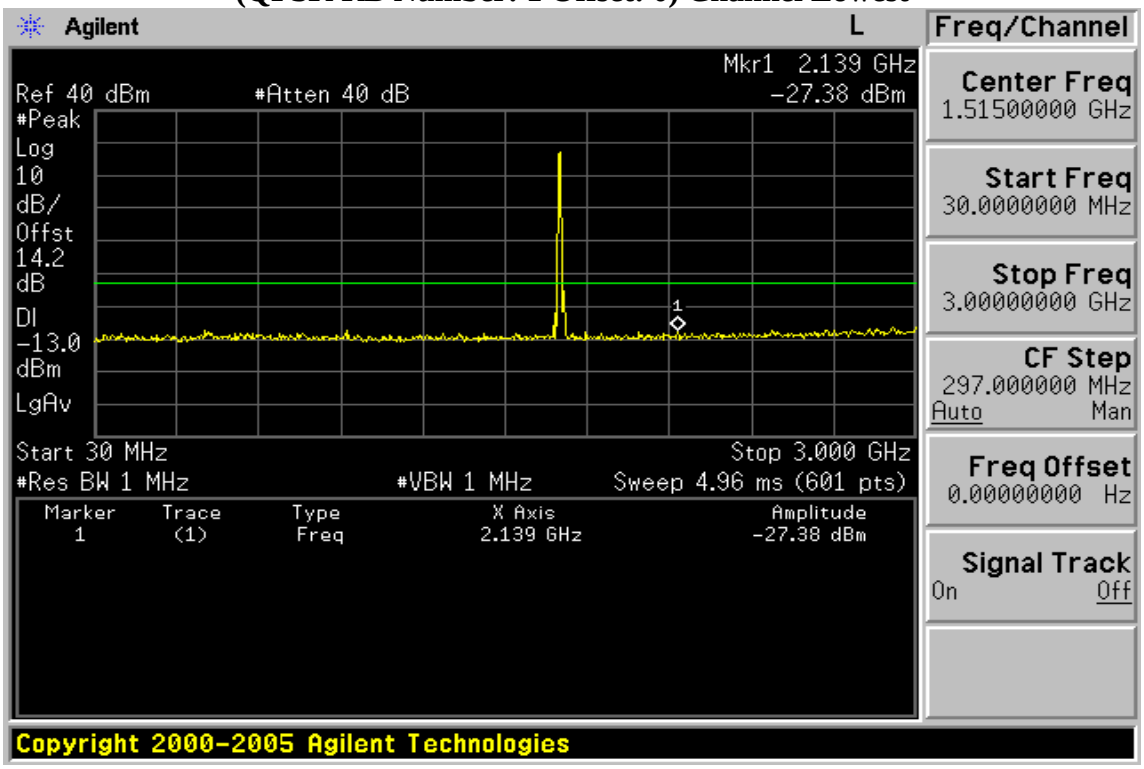


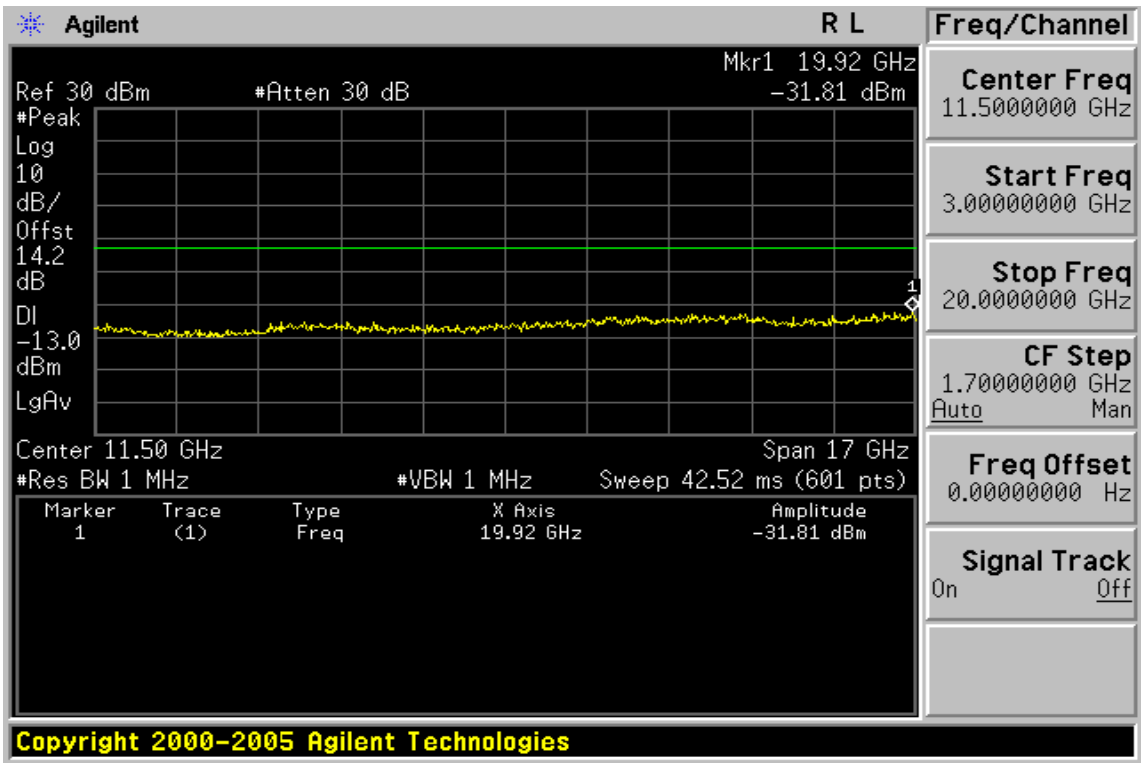
Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 25 Offset: 0) Channel Highest



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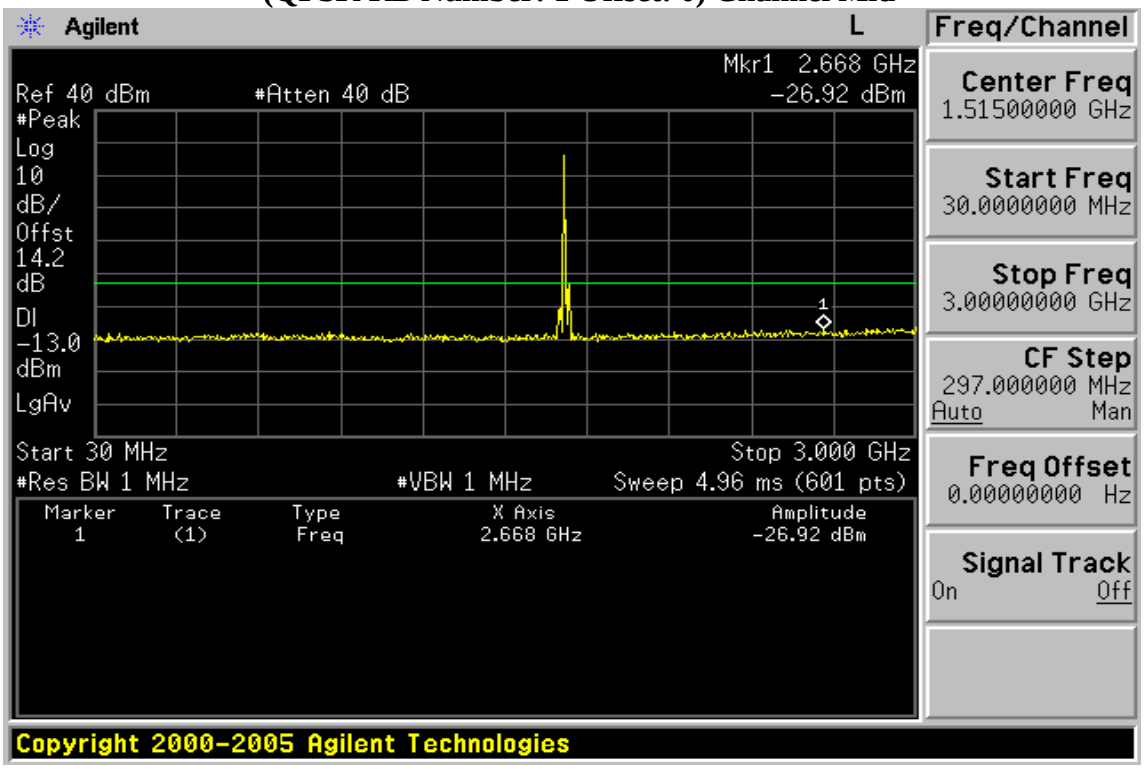
Out of Band emission at antenna terminals–10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

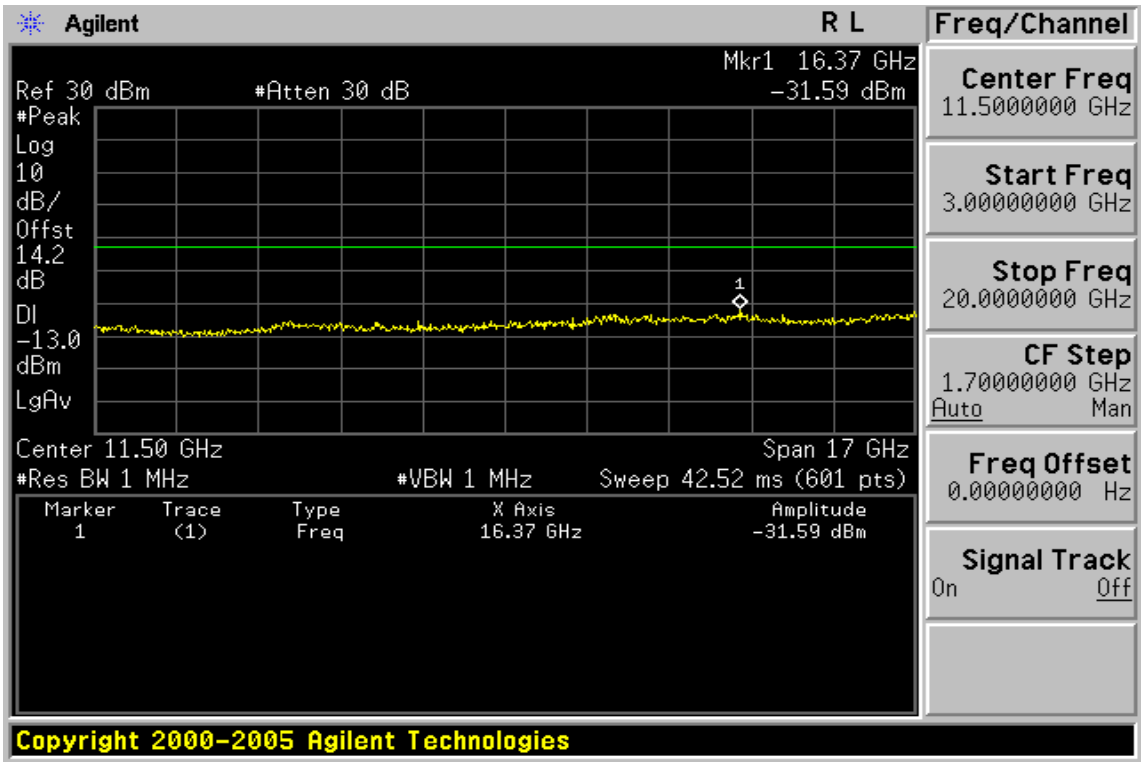




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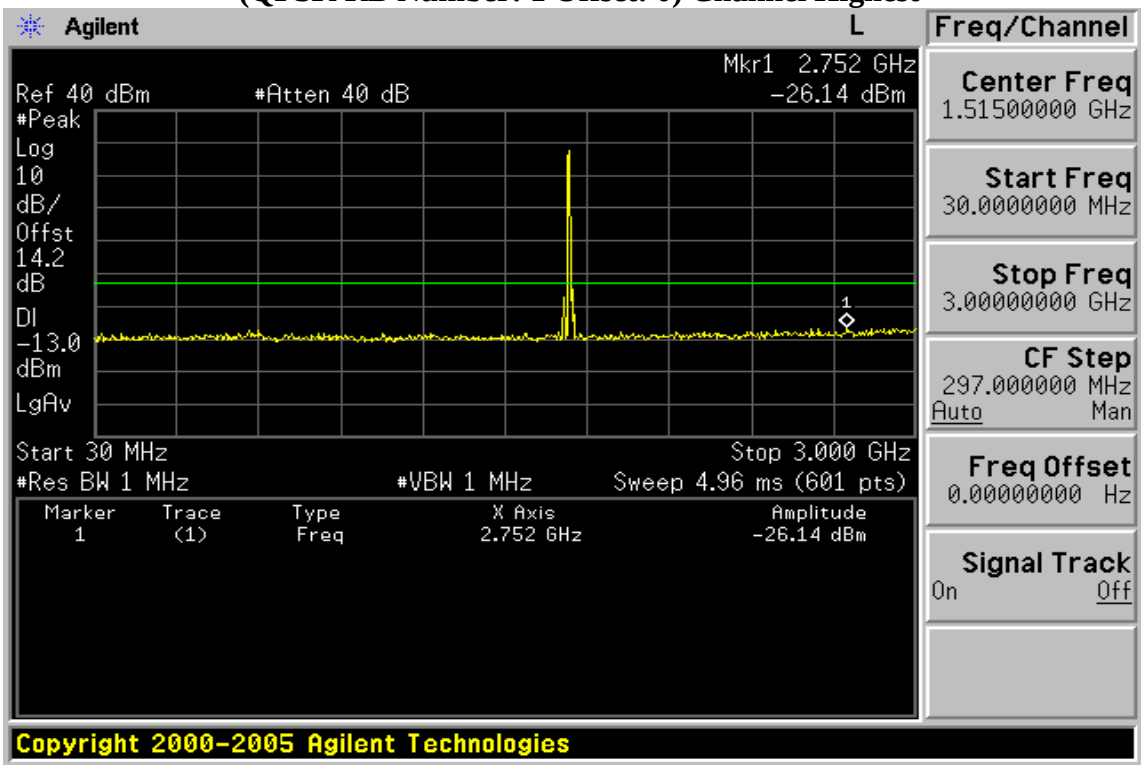
Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

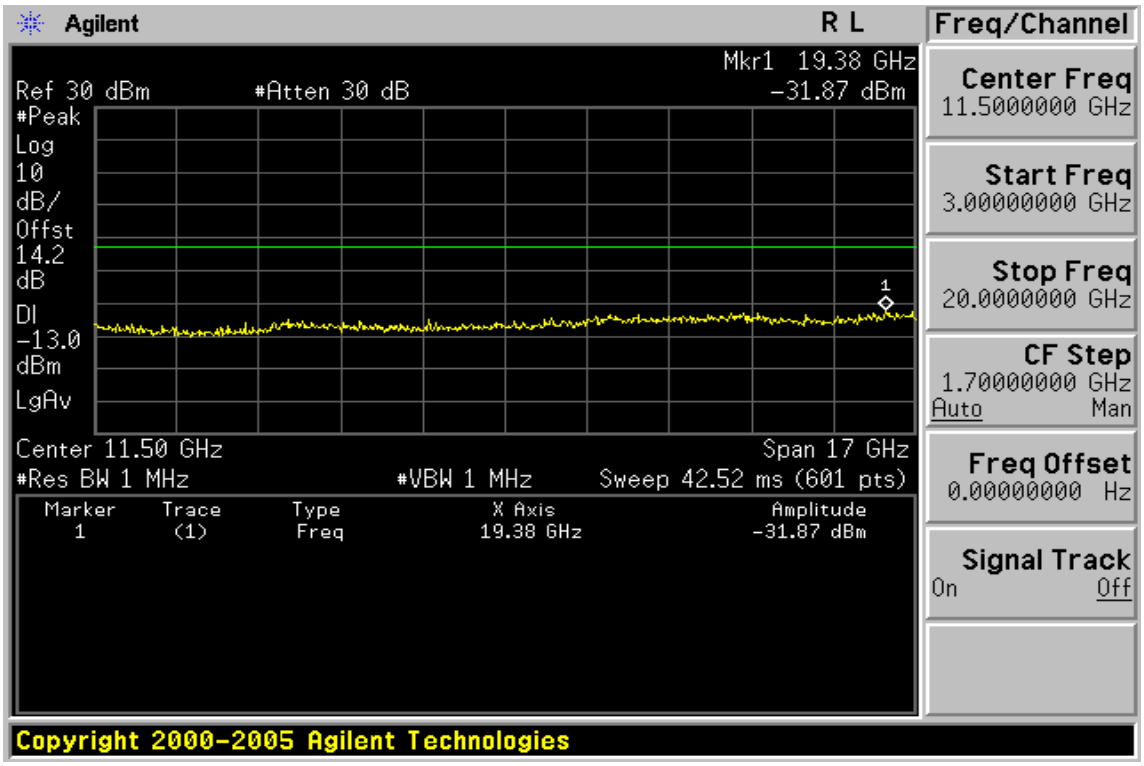




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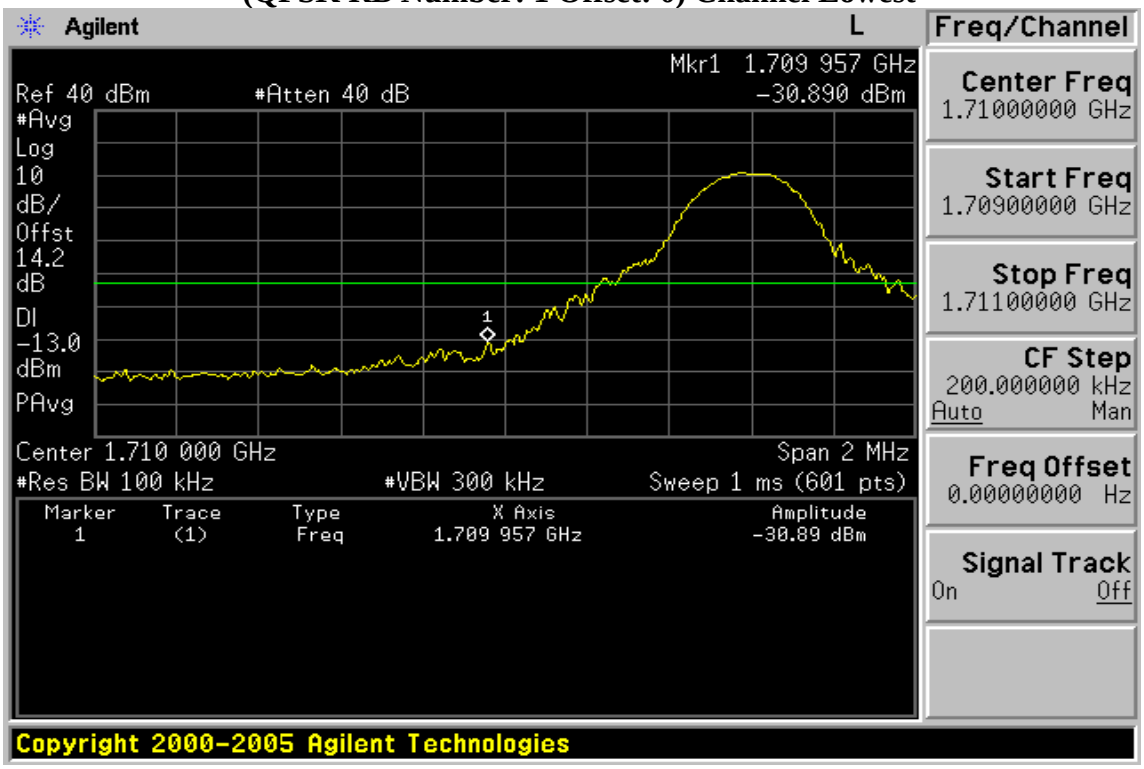
Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



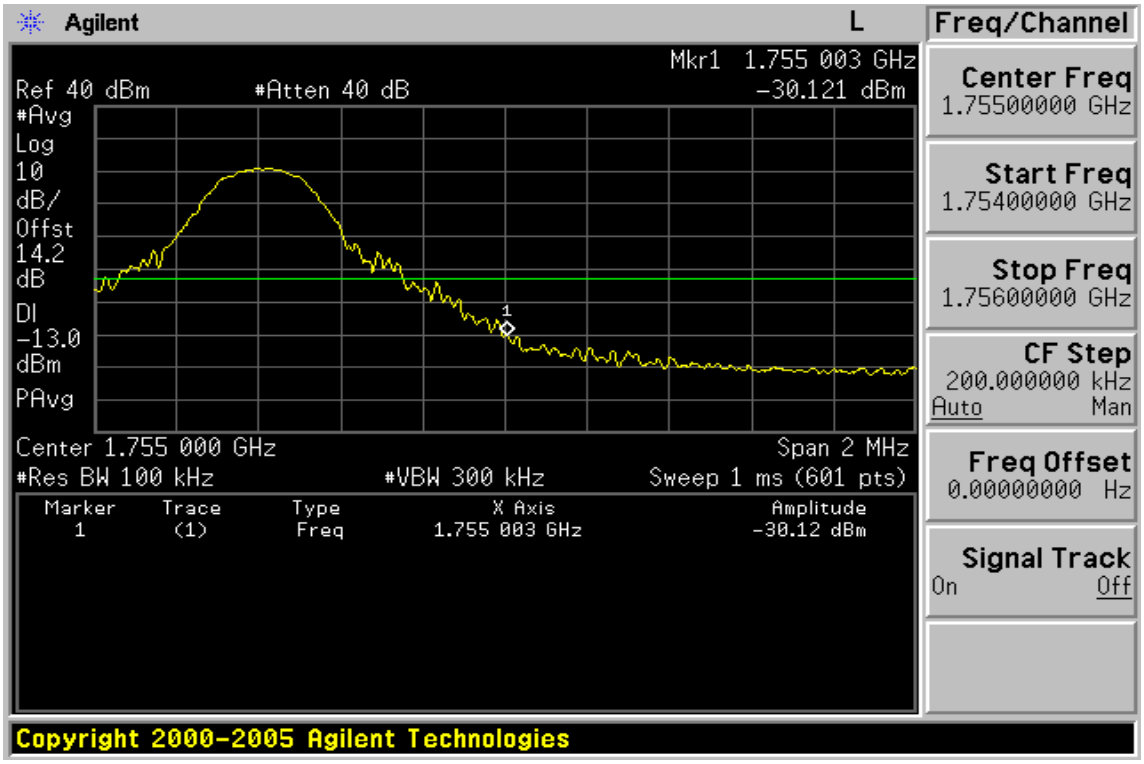


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Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

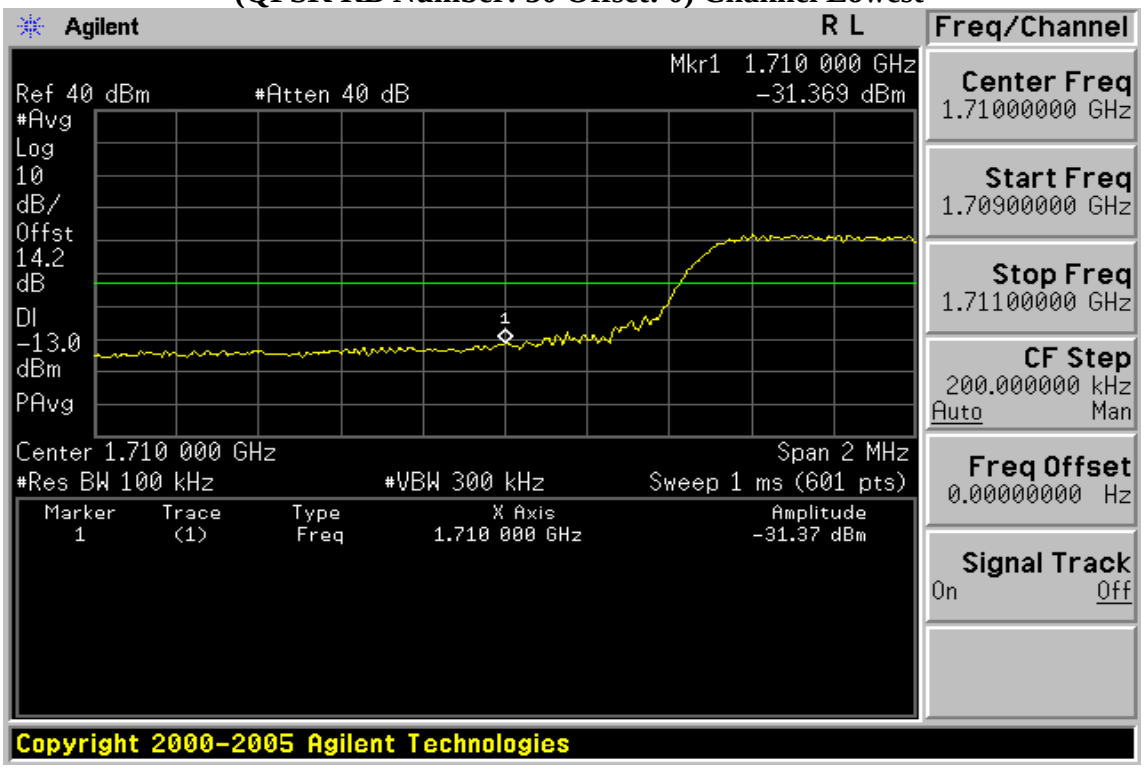


Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 49) Channel Highest



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

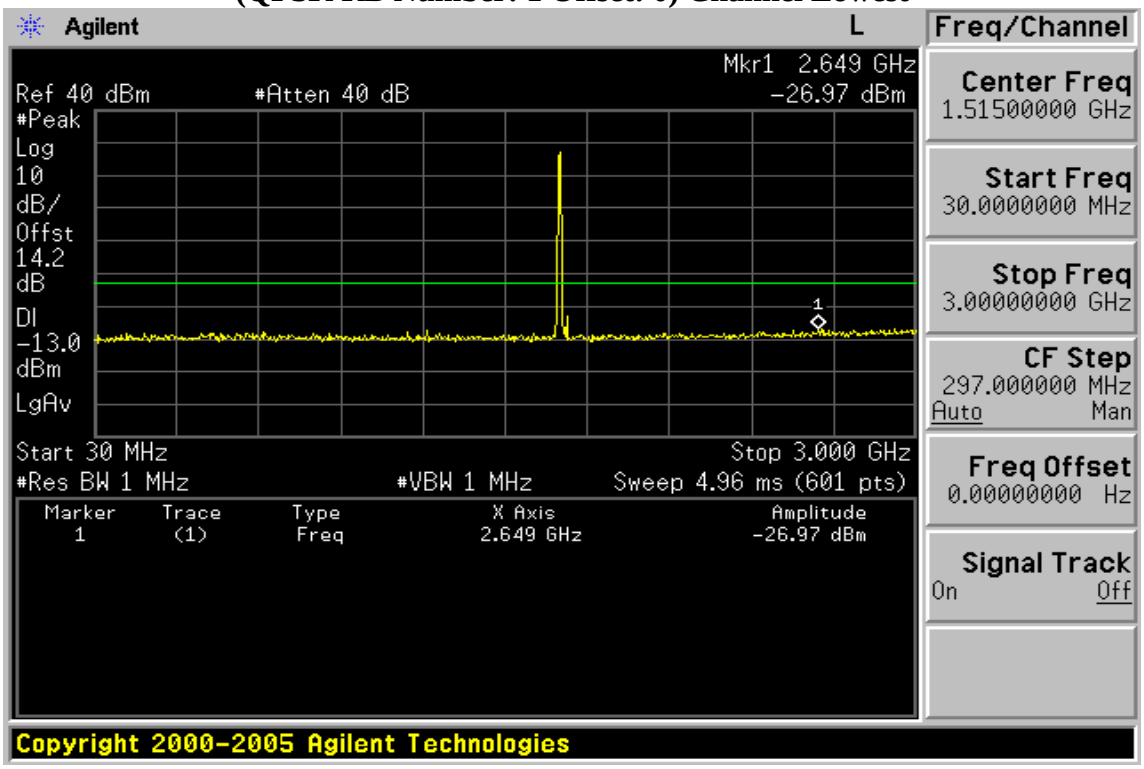


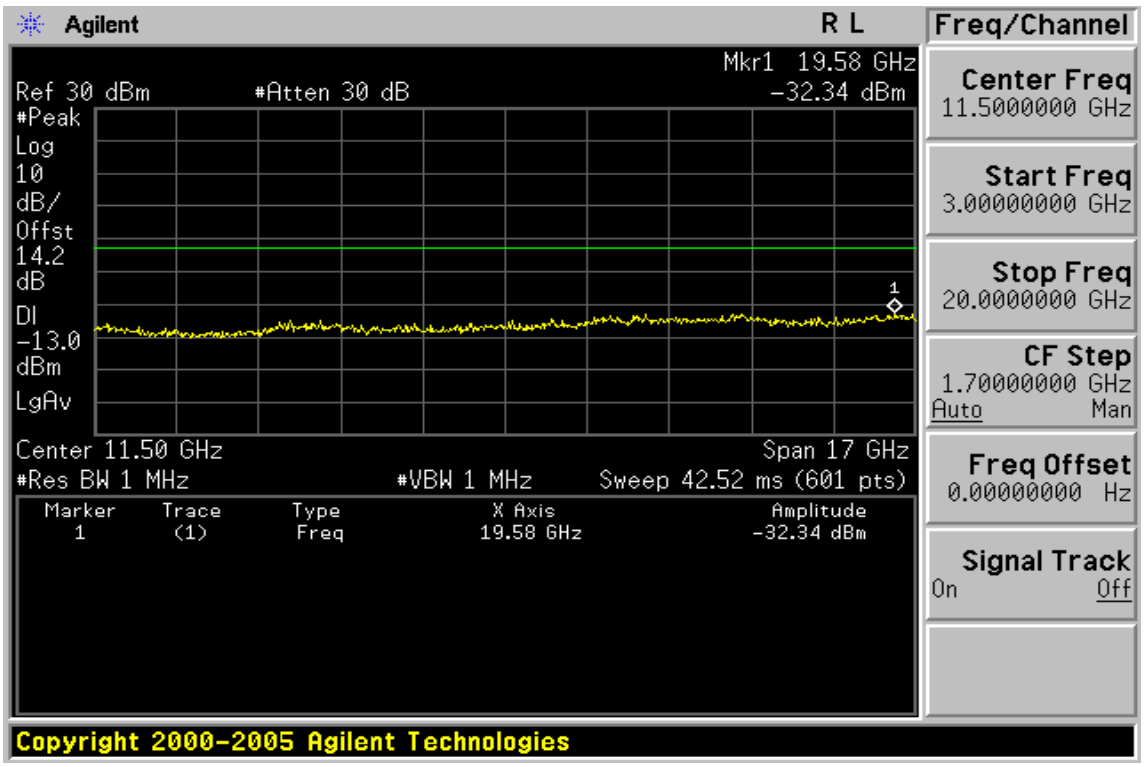
Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 50 Offset: 0) Channel Highest



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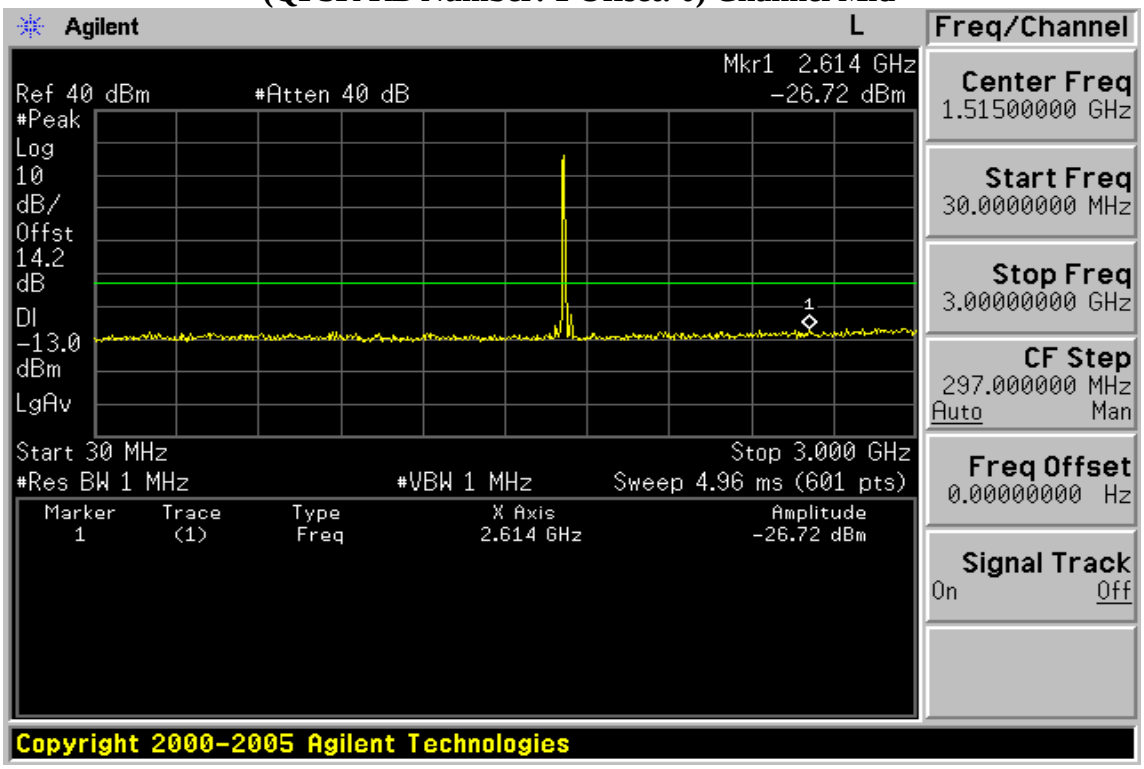
Out of Band emission at antenna terminals–15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

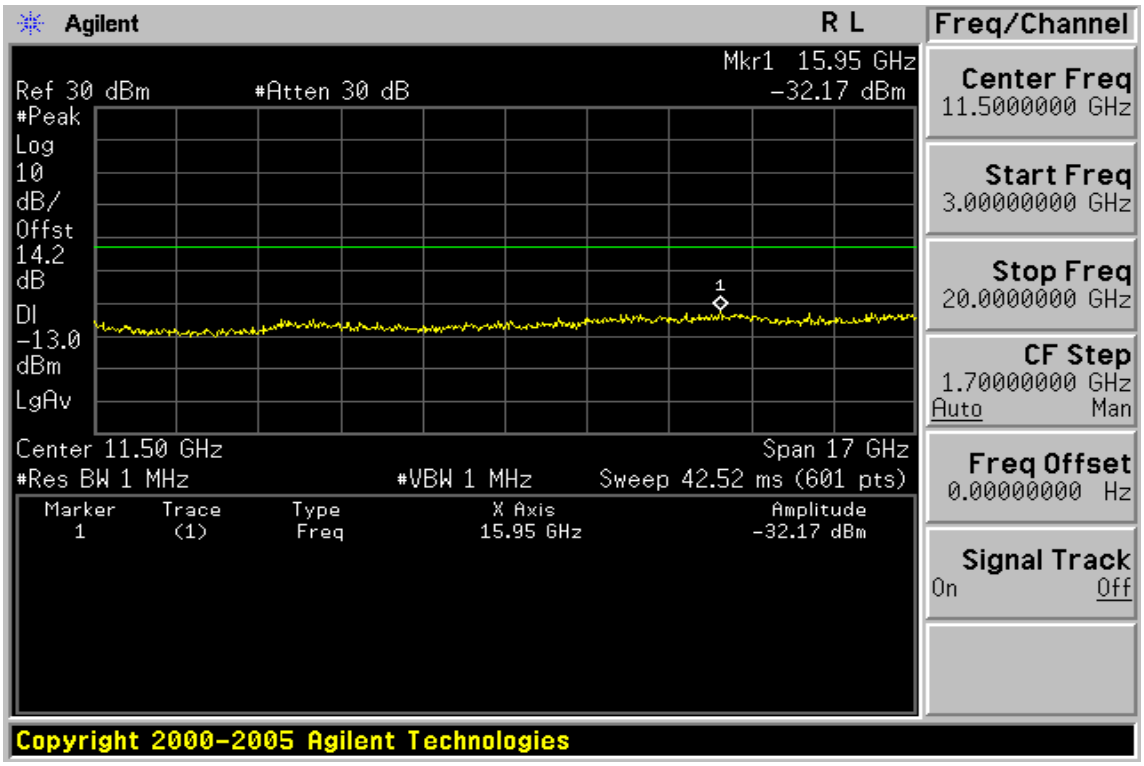




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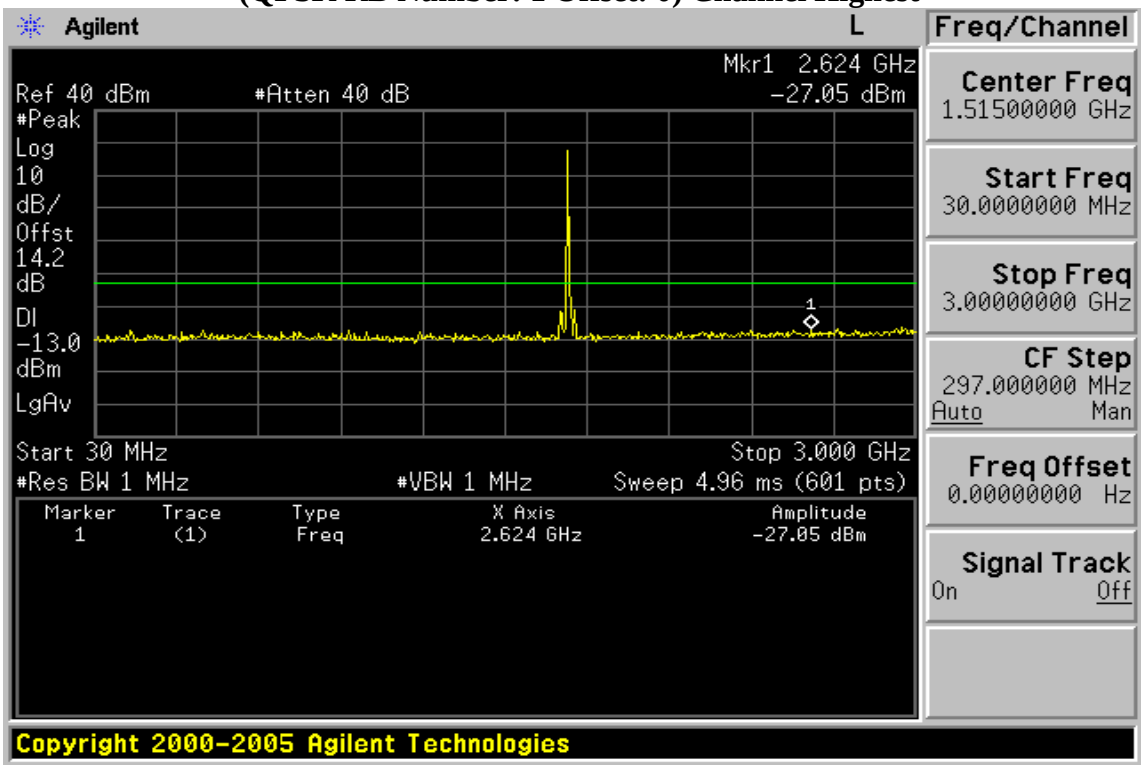
Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

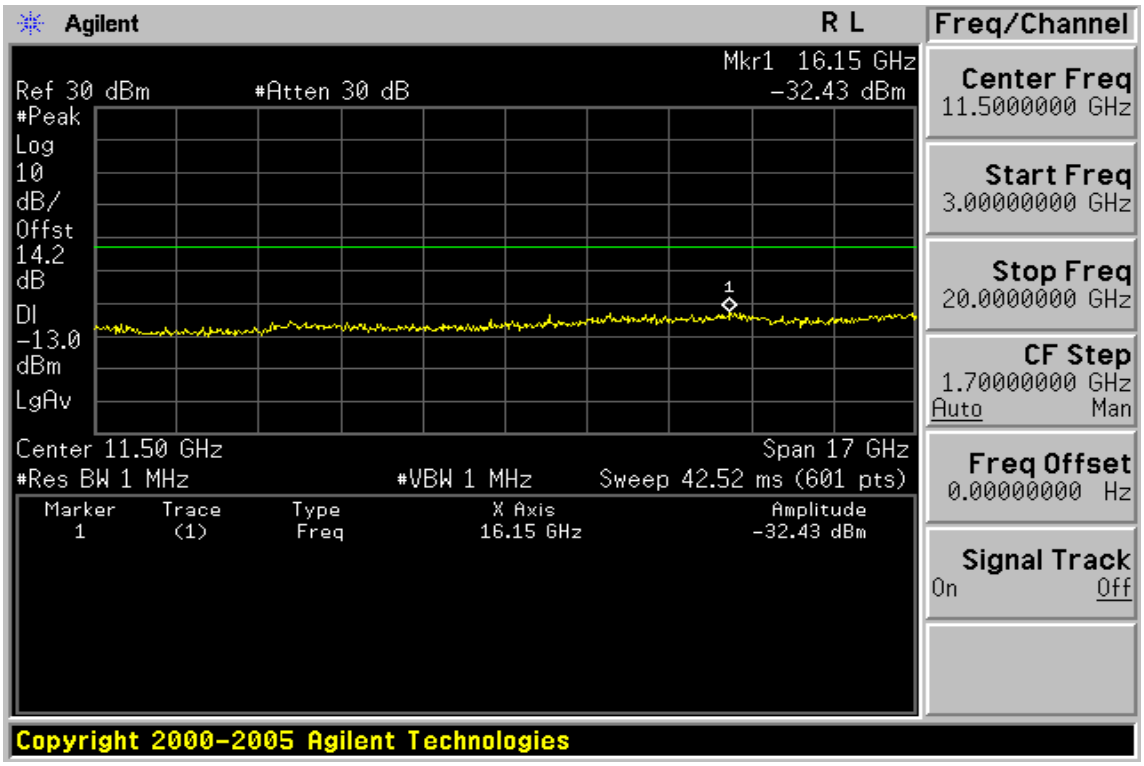




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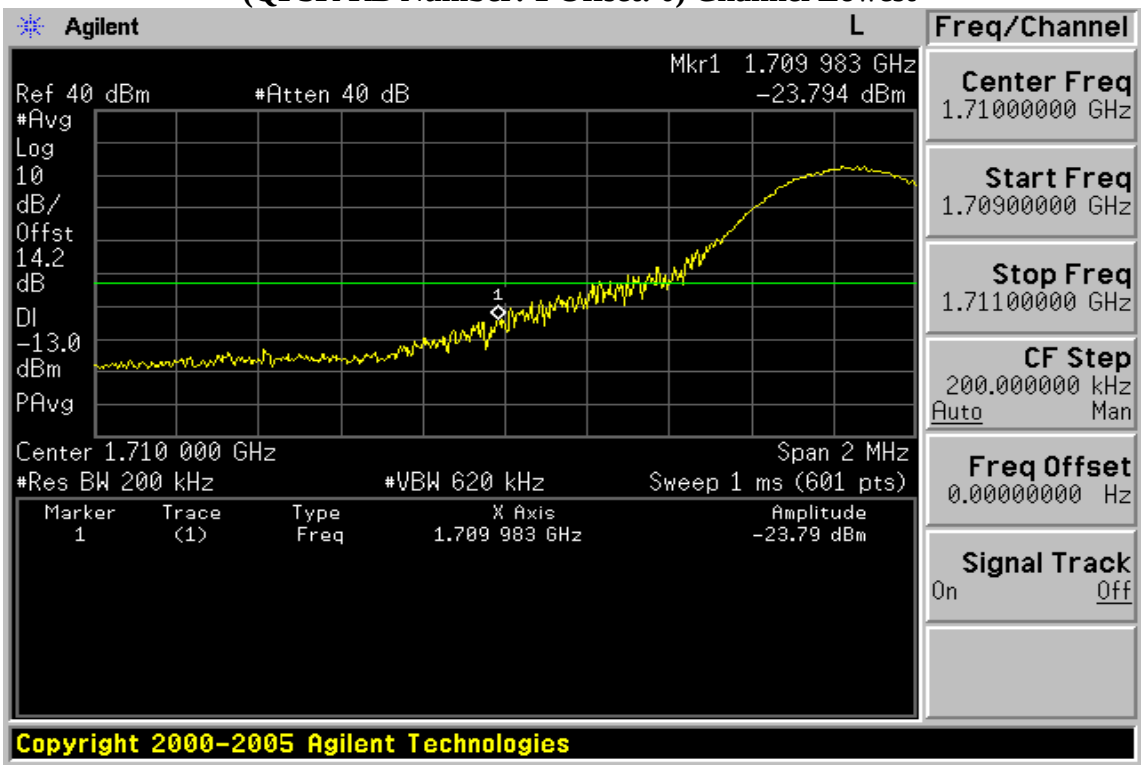
Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



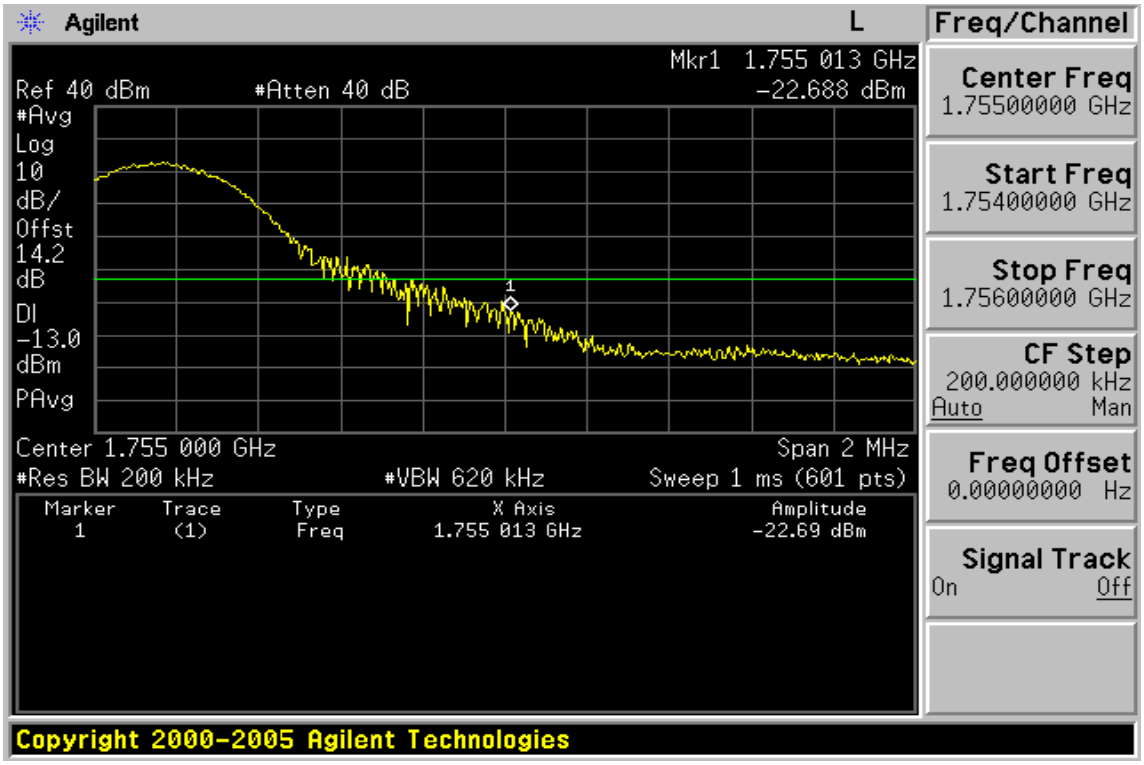


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Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

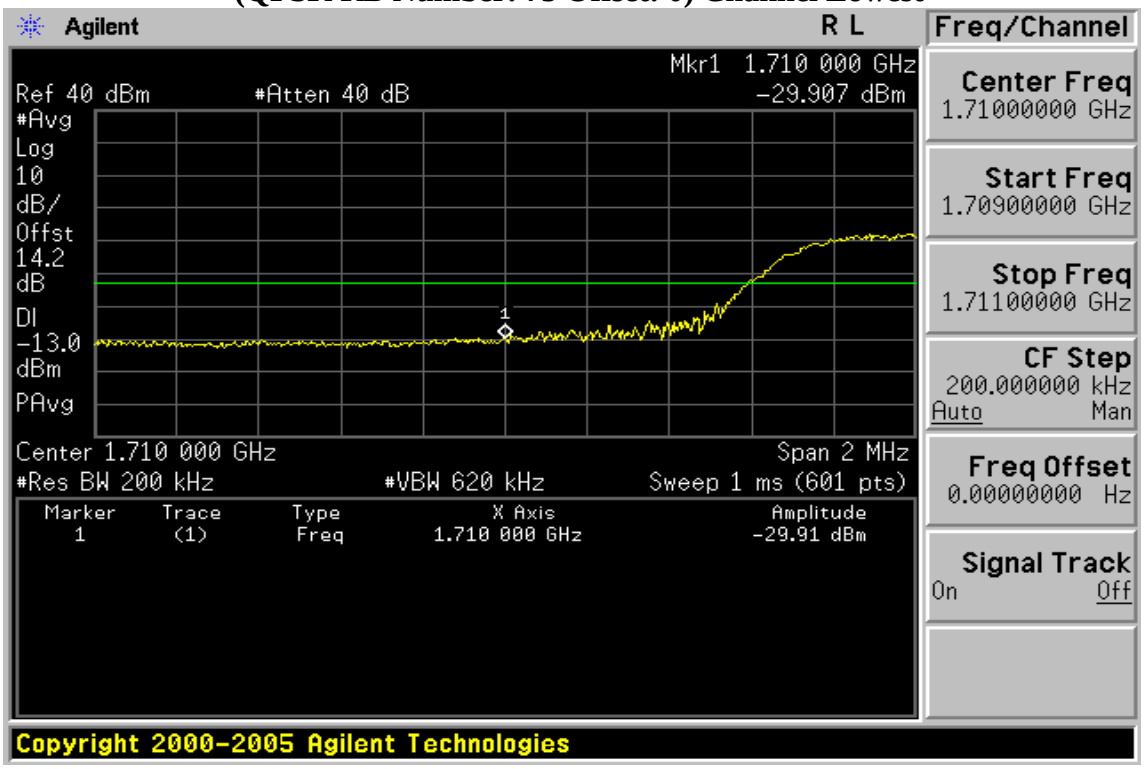


Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 74) Channel Highest

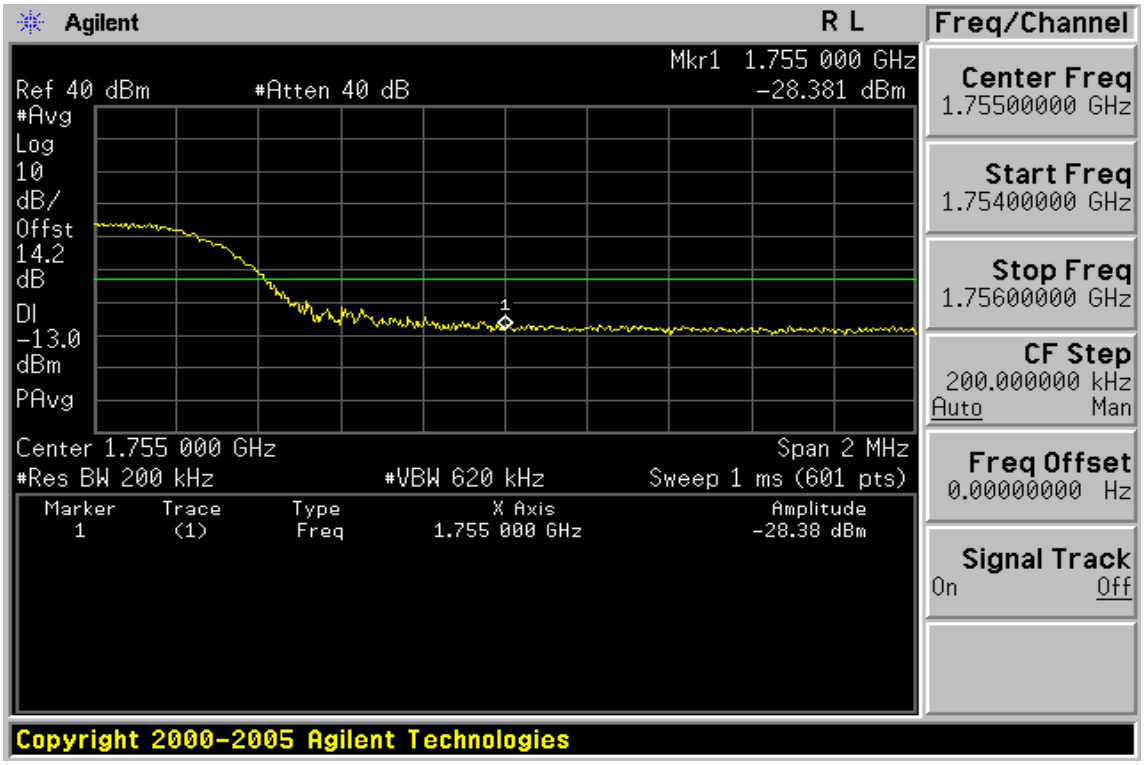


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Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 75 Offset: 0) Channel Lowest

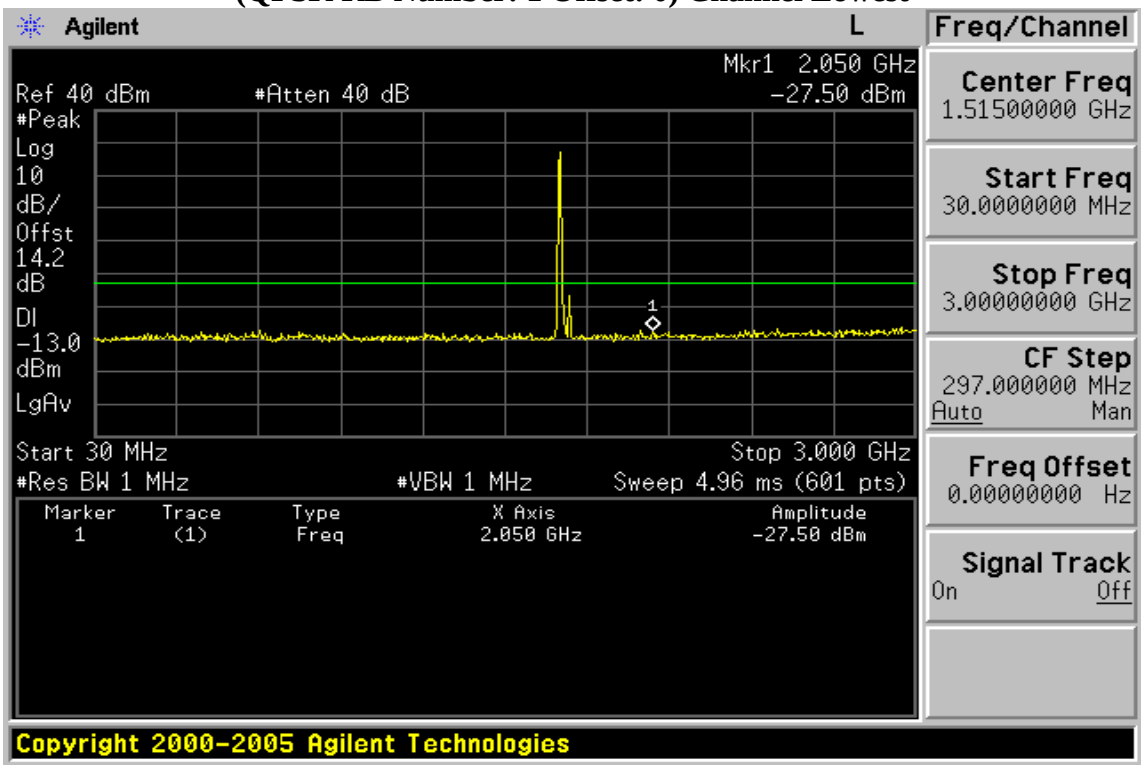


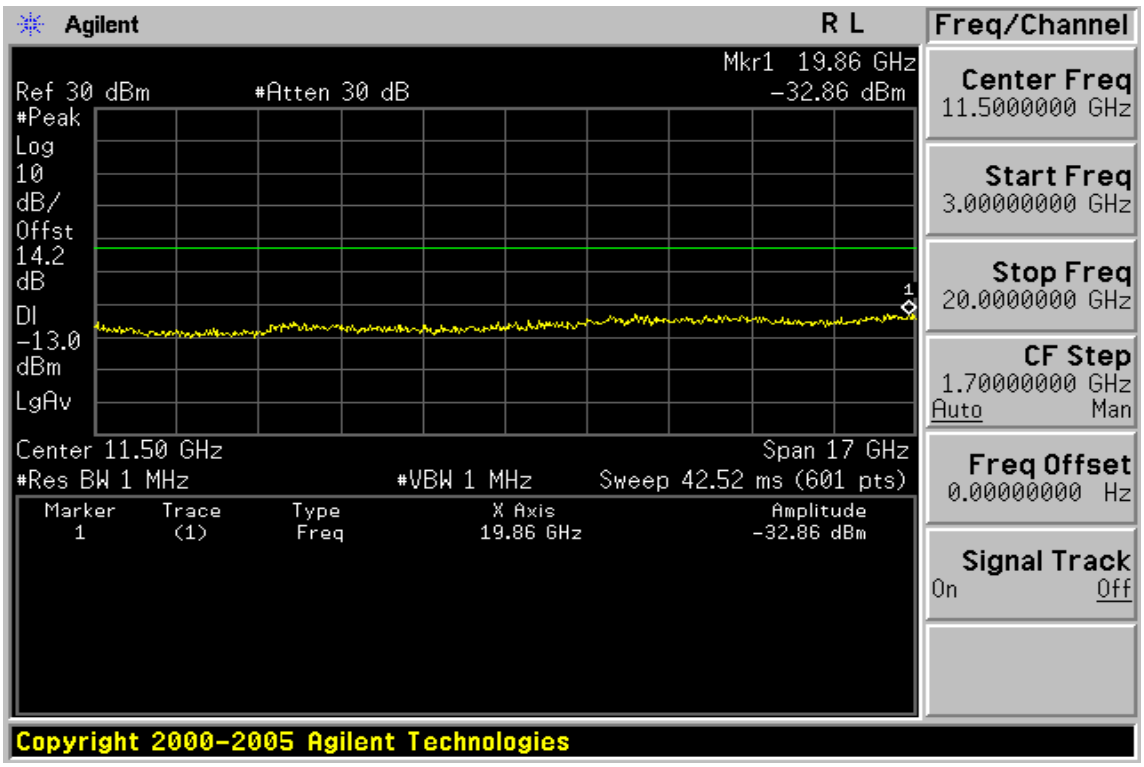
Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 75 Offset: 04) Channel Highest



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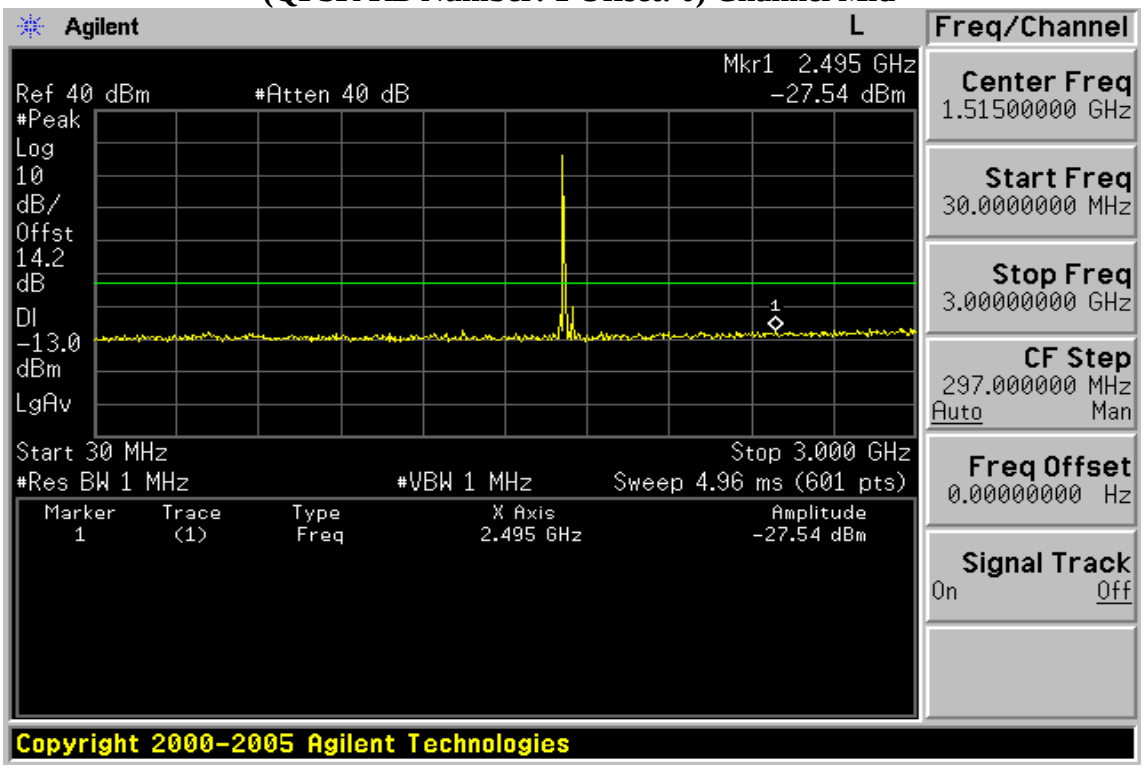
Out of Band emission at antenna terminals–20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

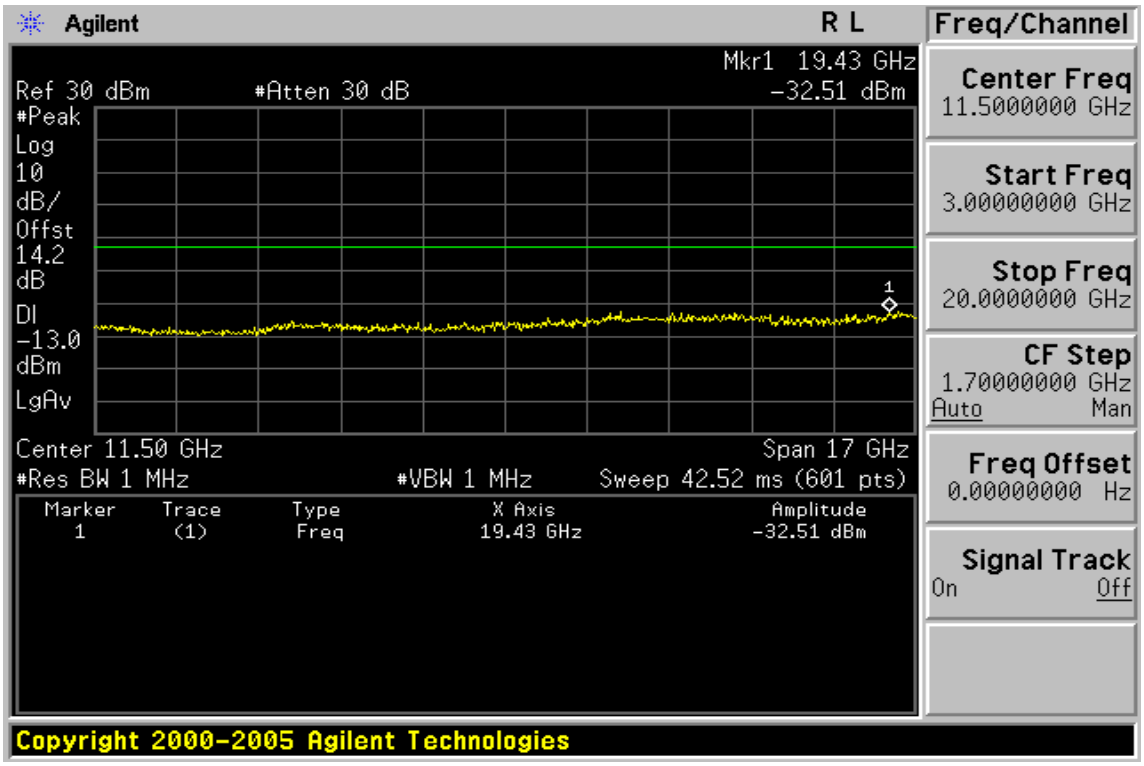




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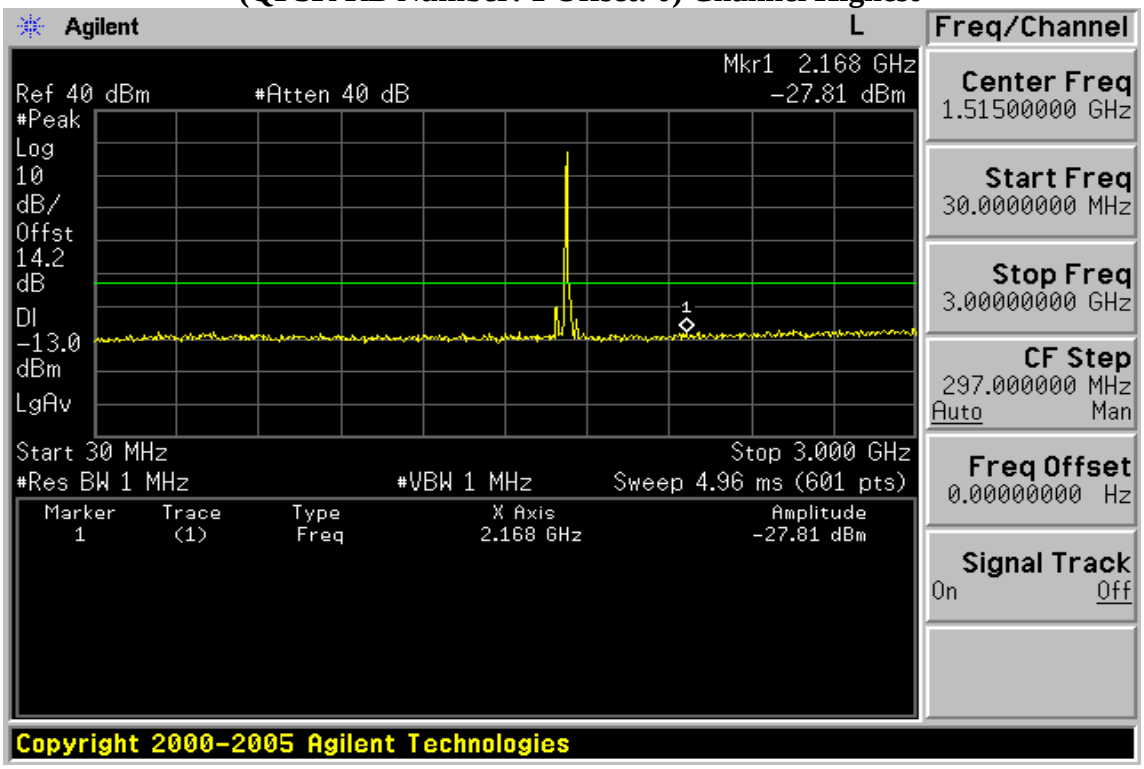
Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

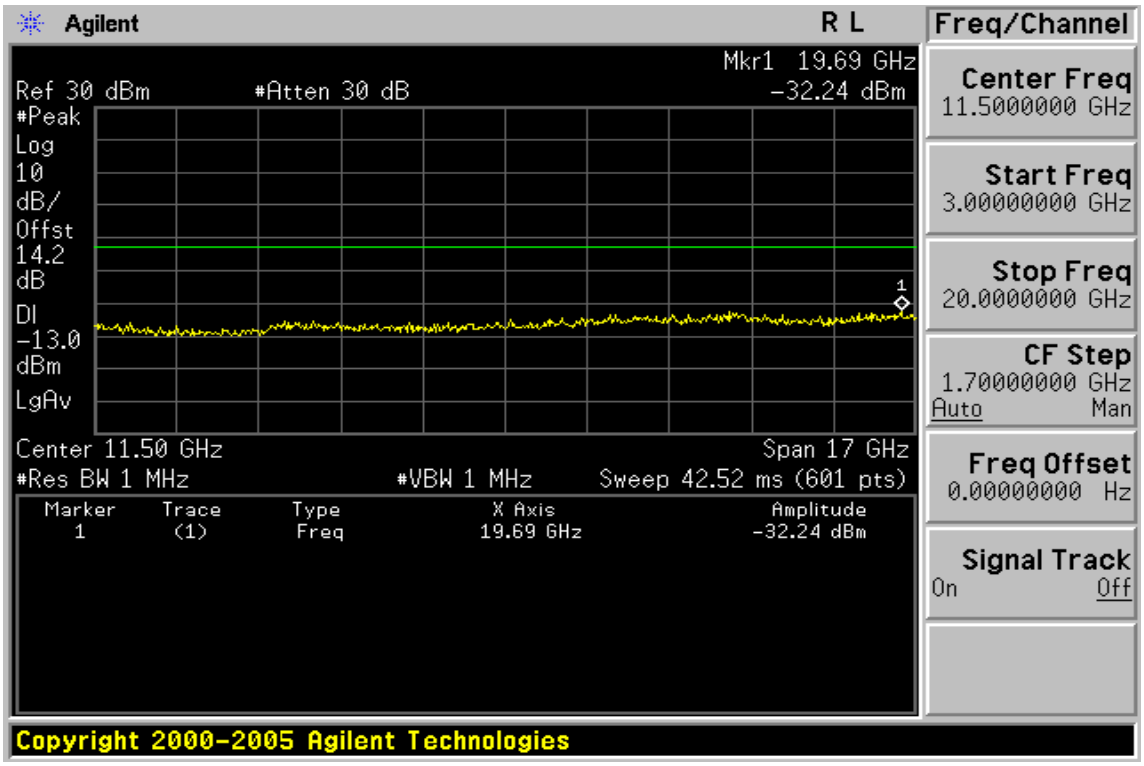




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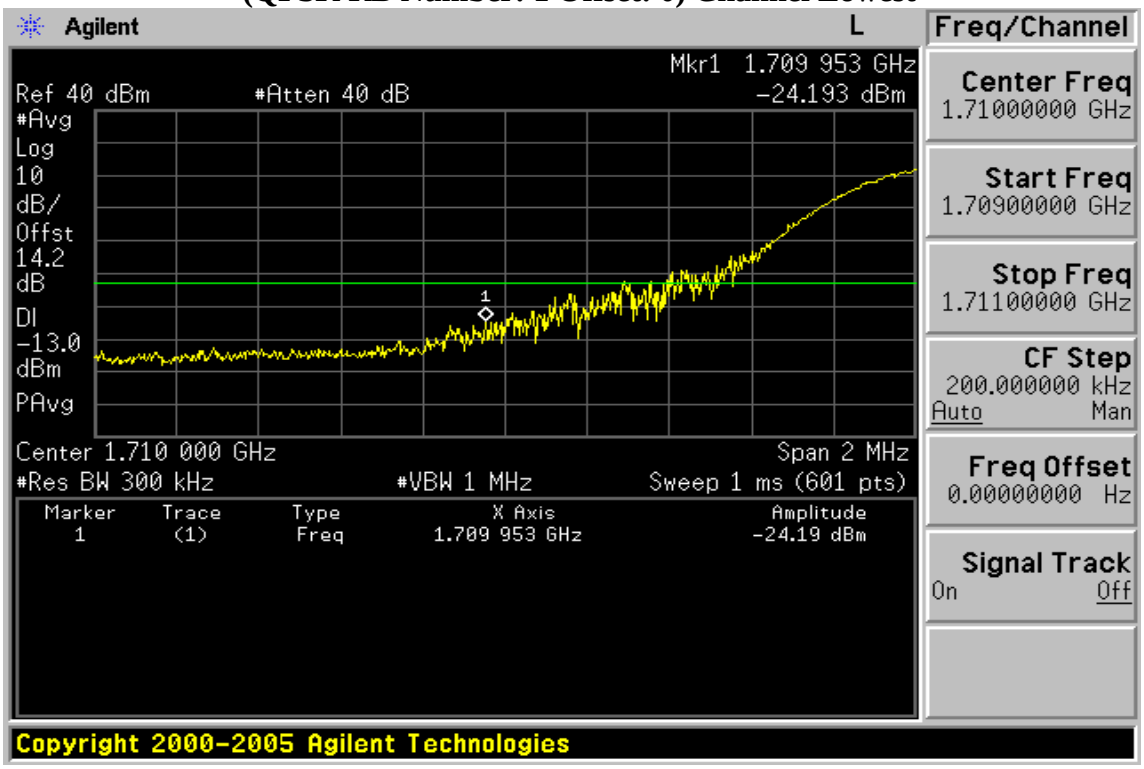
Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



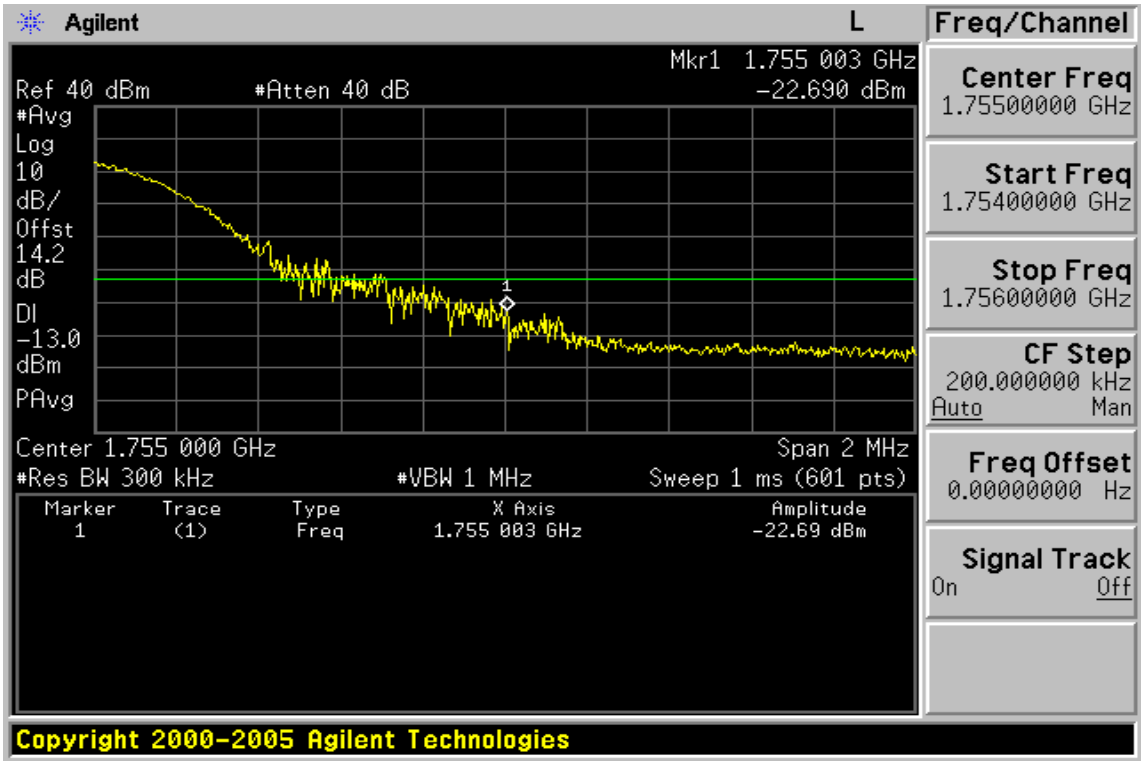


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Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

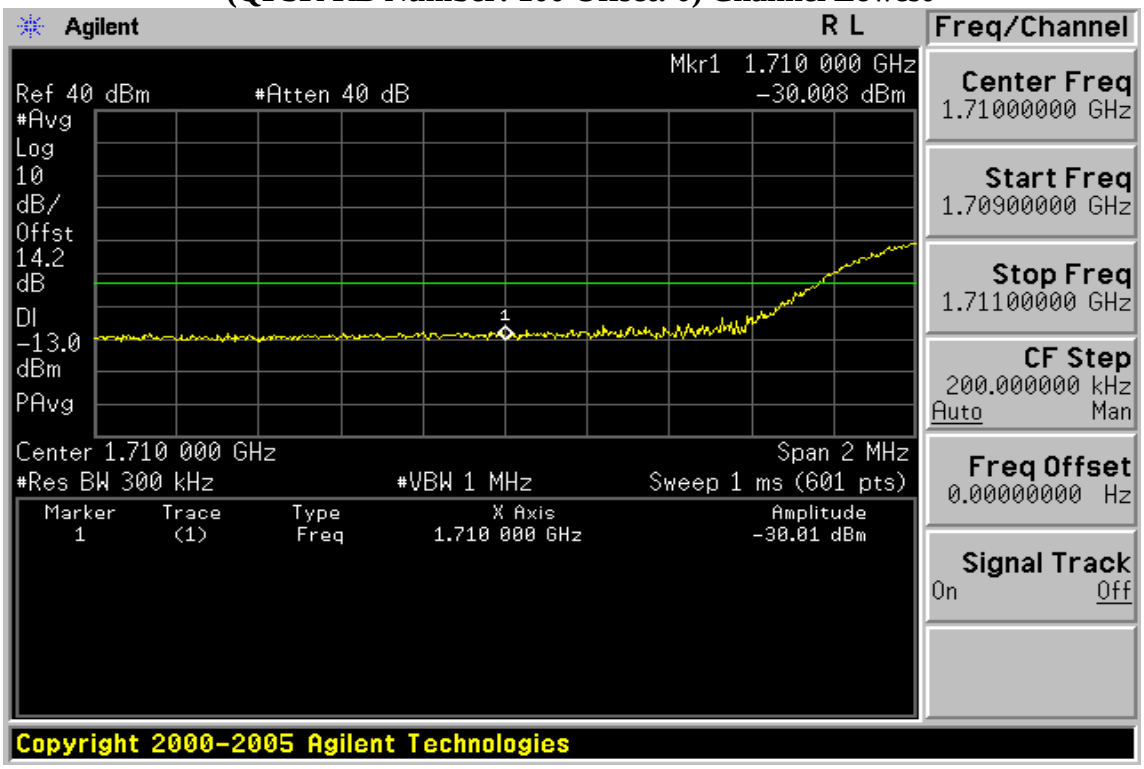


Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 99) Channel Highest

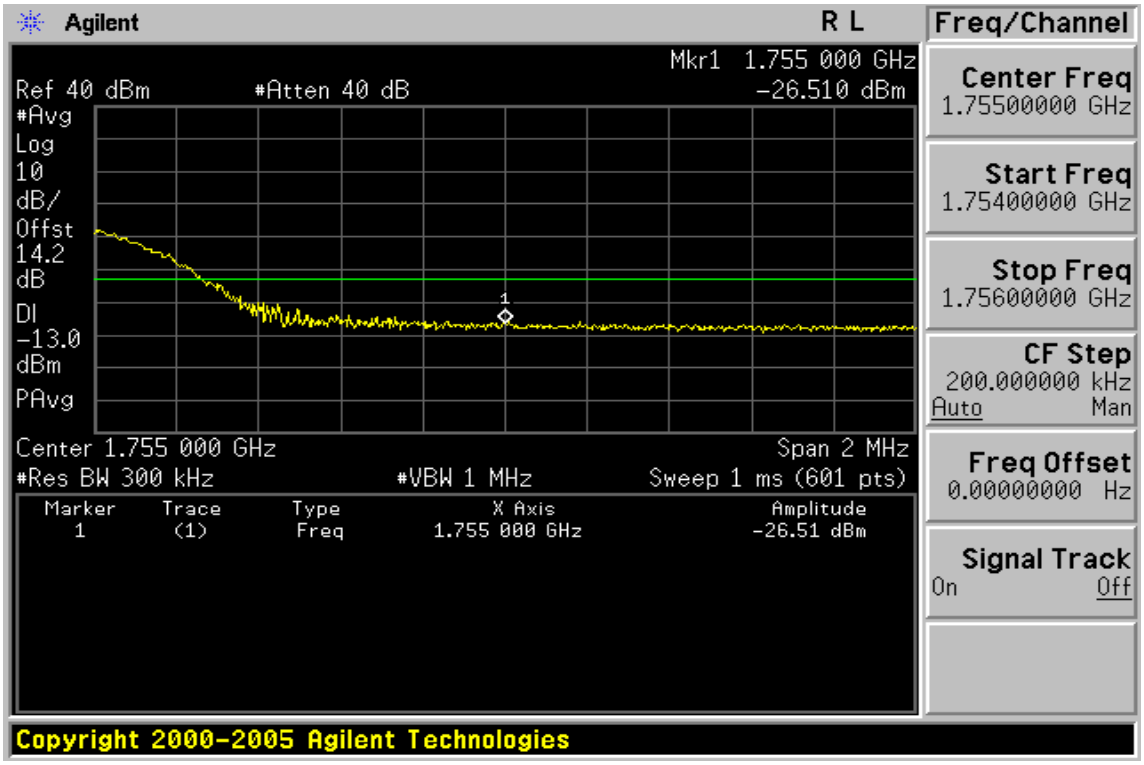


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Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 100 Offset: 0) Channel Lowest

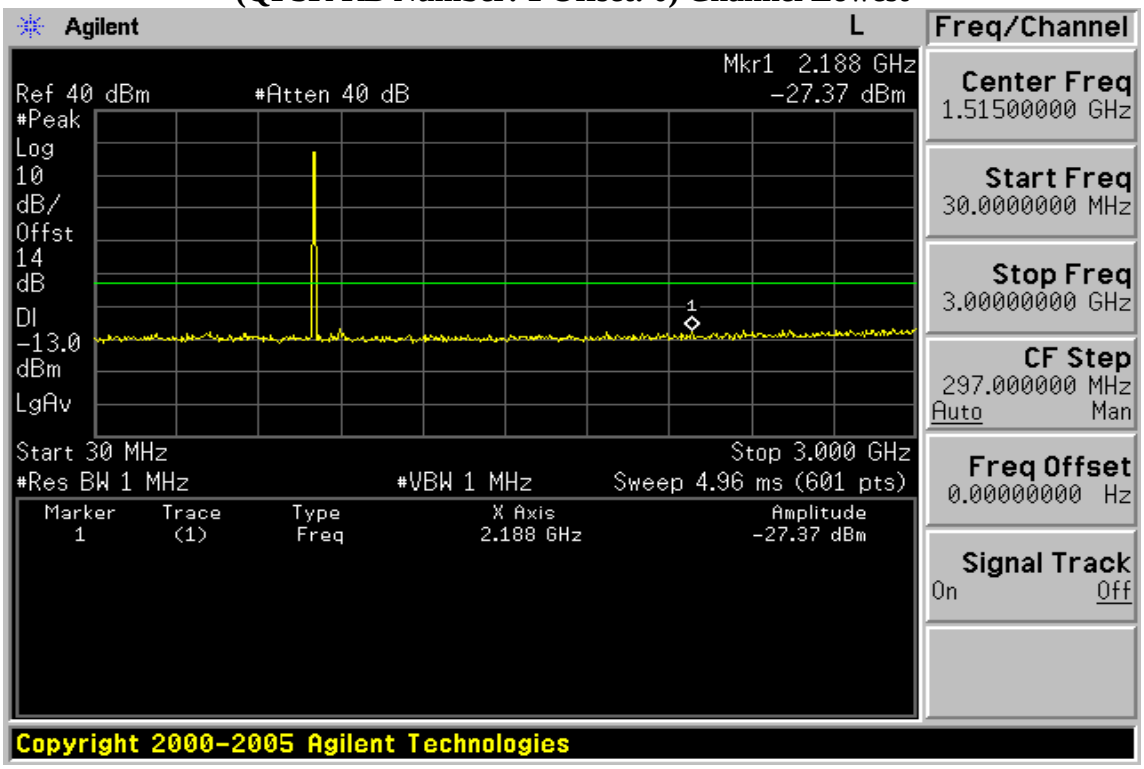


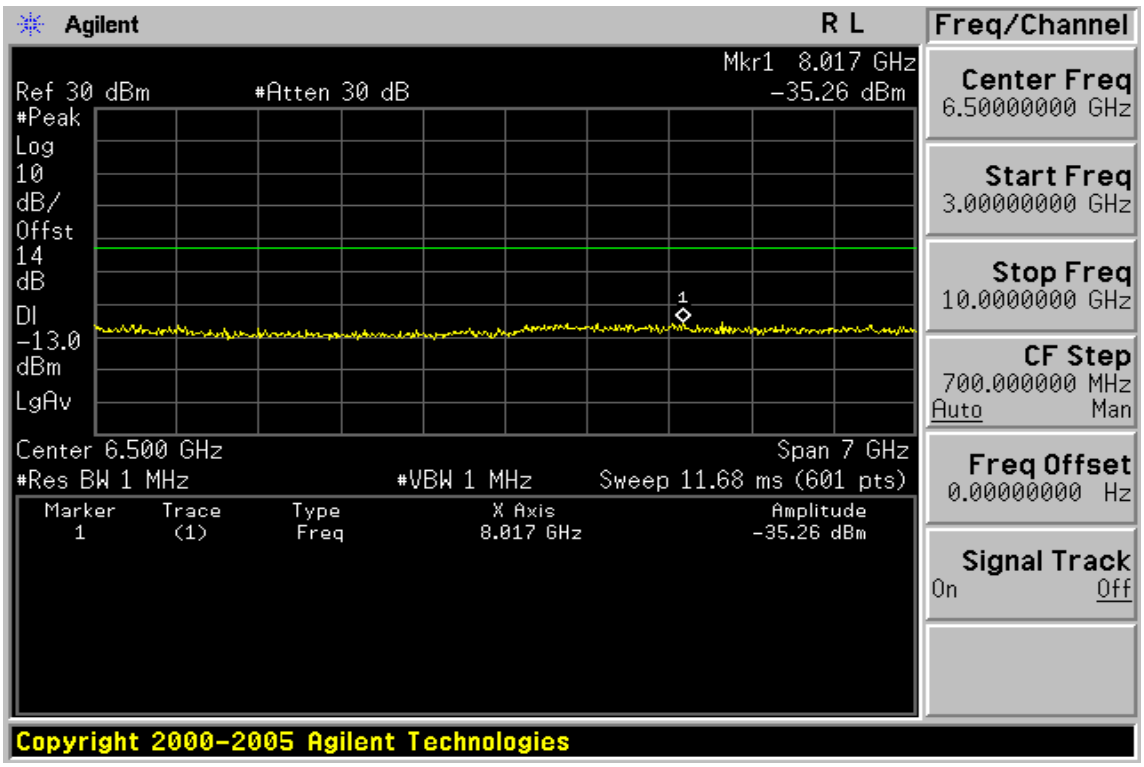
Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 100 Offset: 0) Channel Highest



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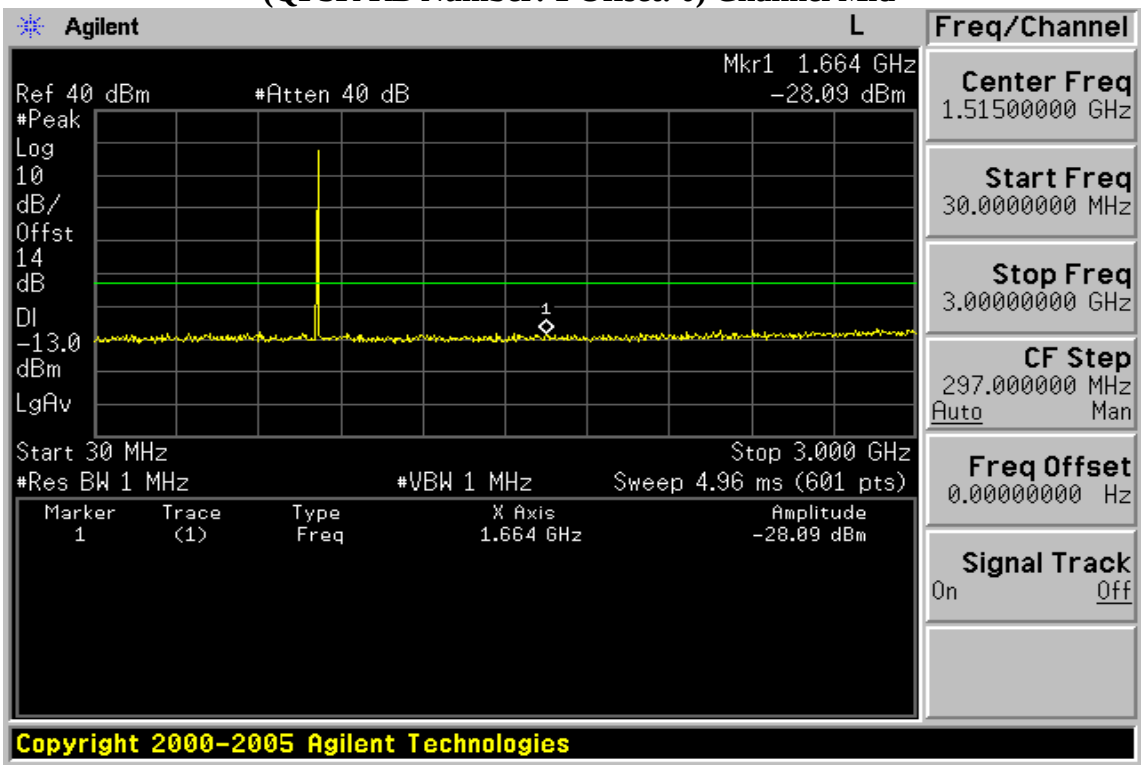
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

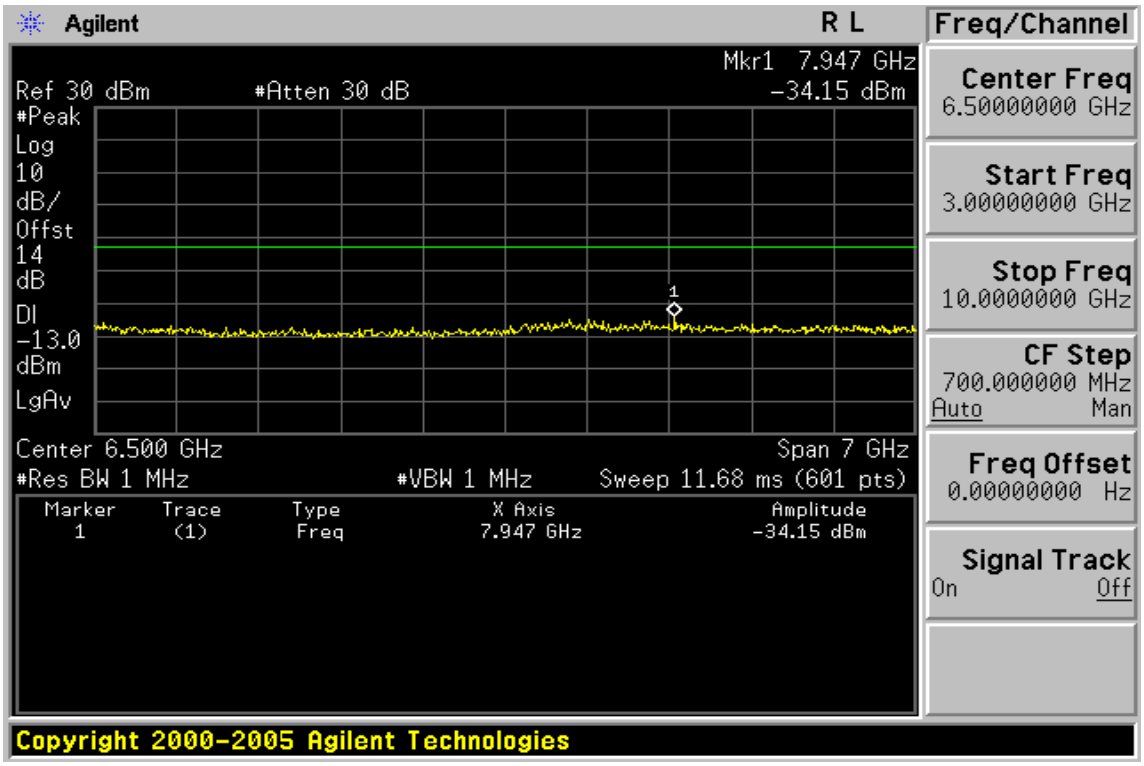




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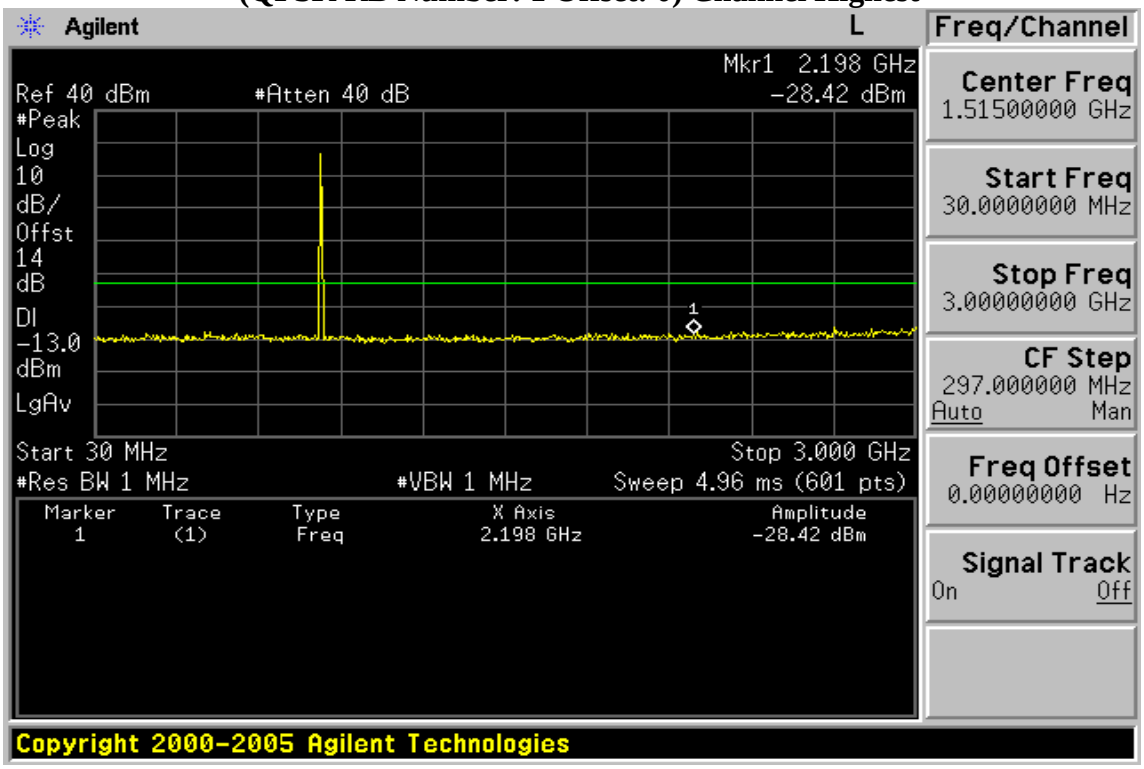
Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

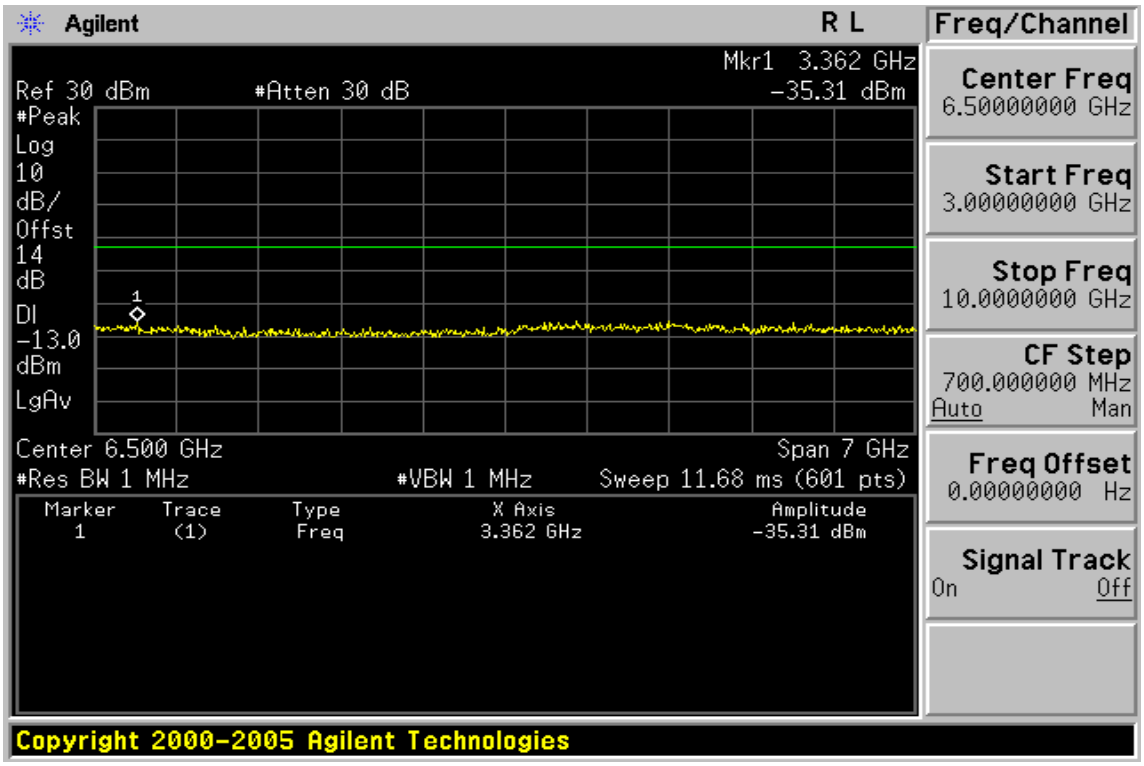




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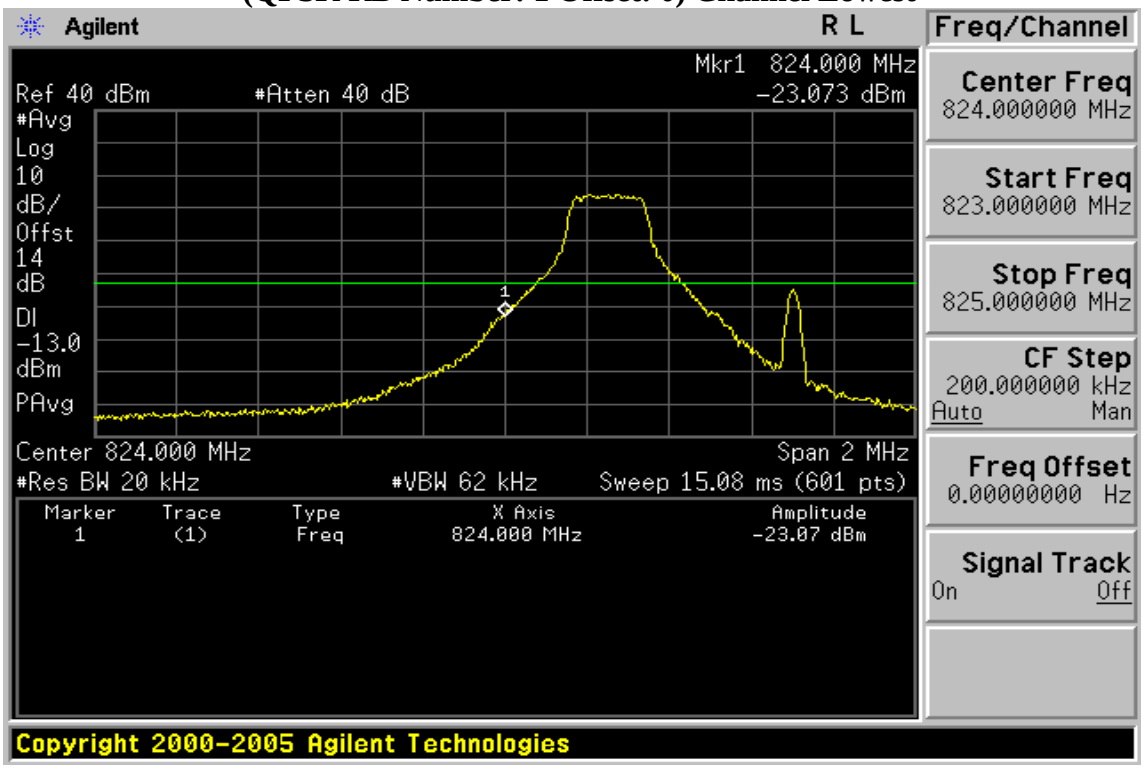
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



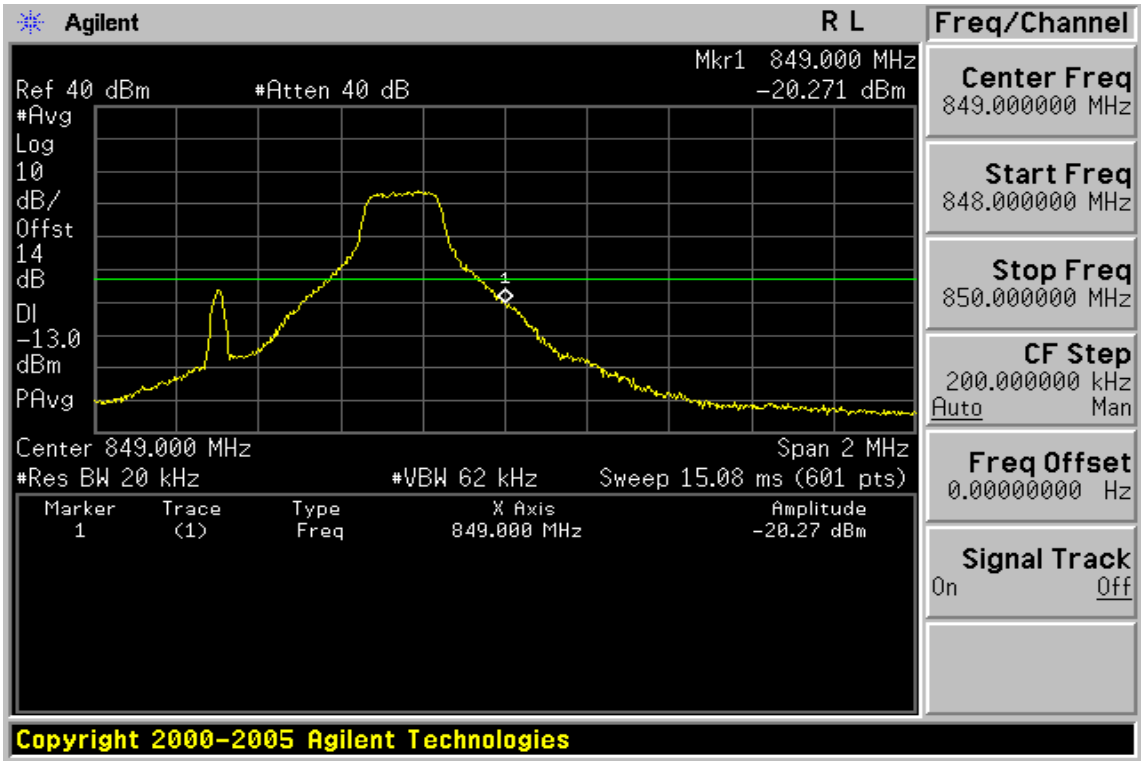


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

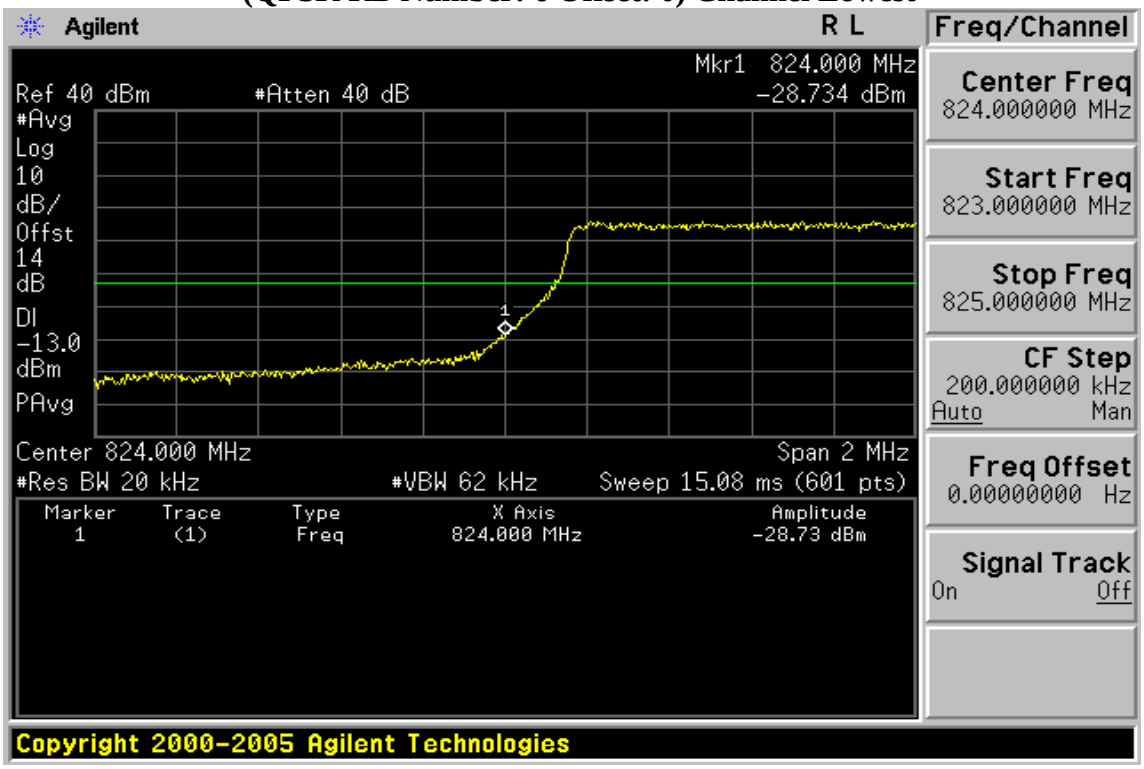


Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 5) Channel Highest

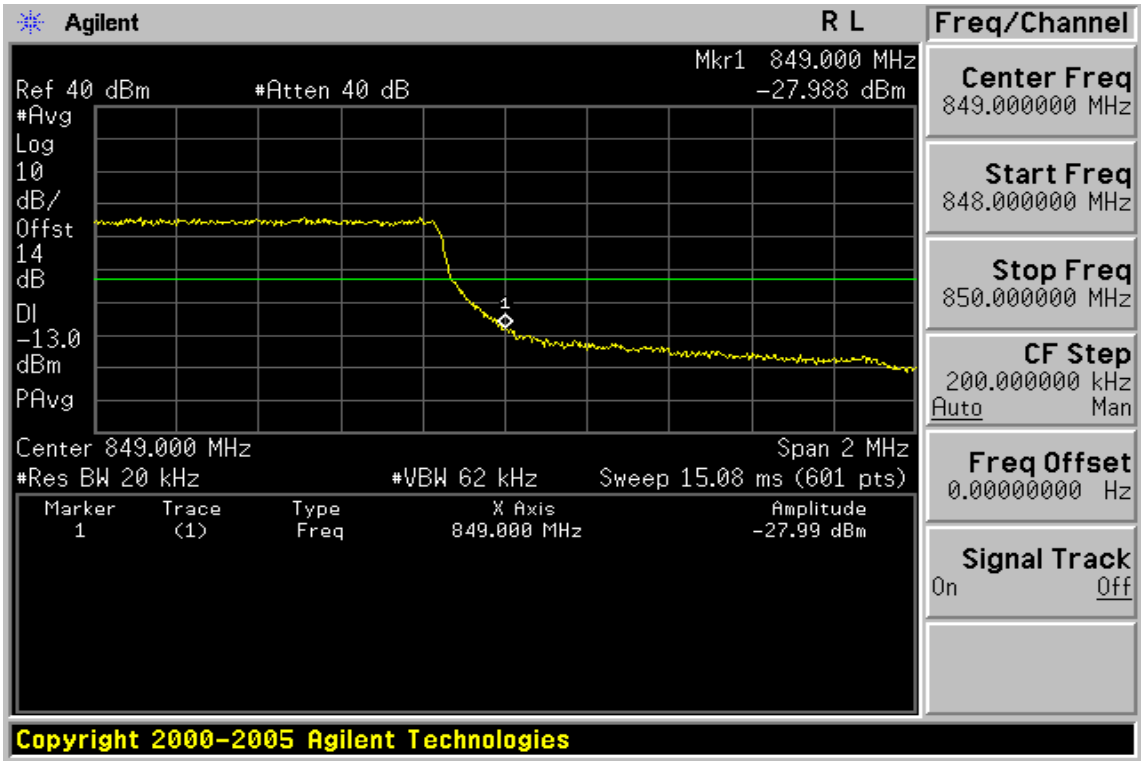


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 6 Offset: 0) Channel Lowest

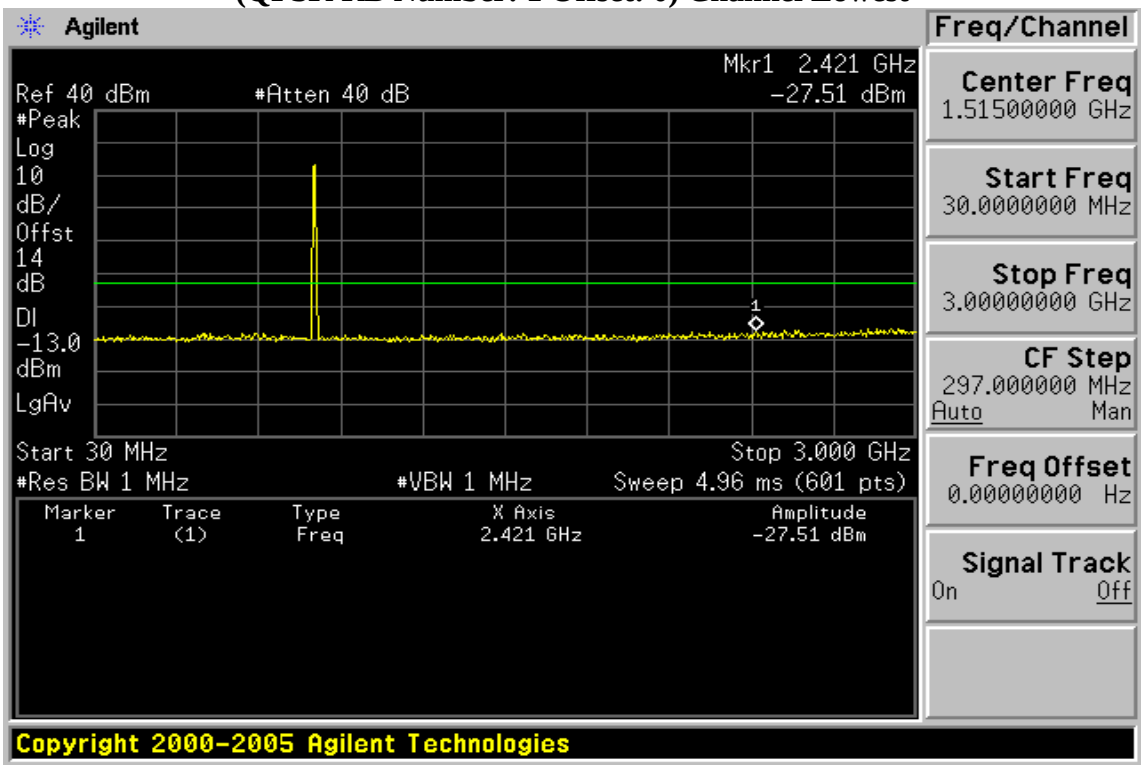


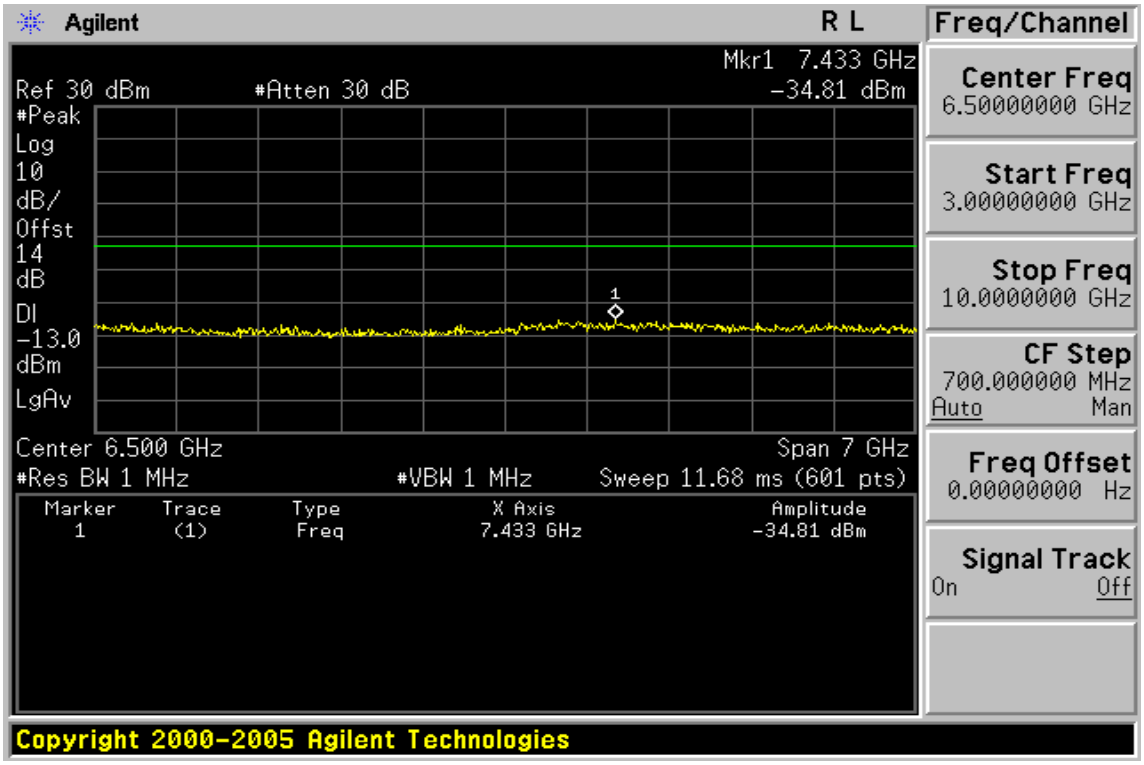
Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 6 Offset: 0) Channel Highest



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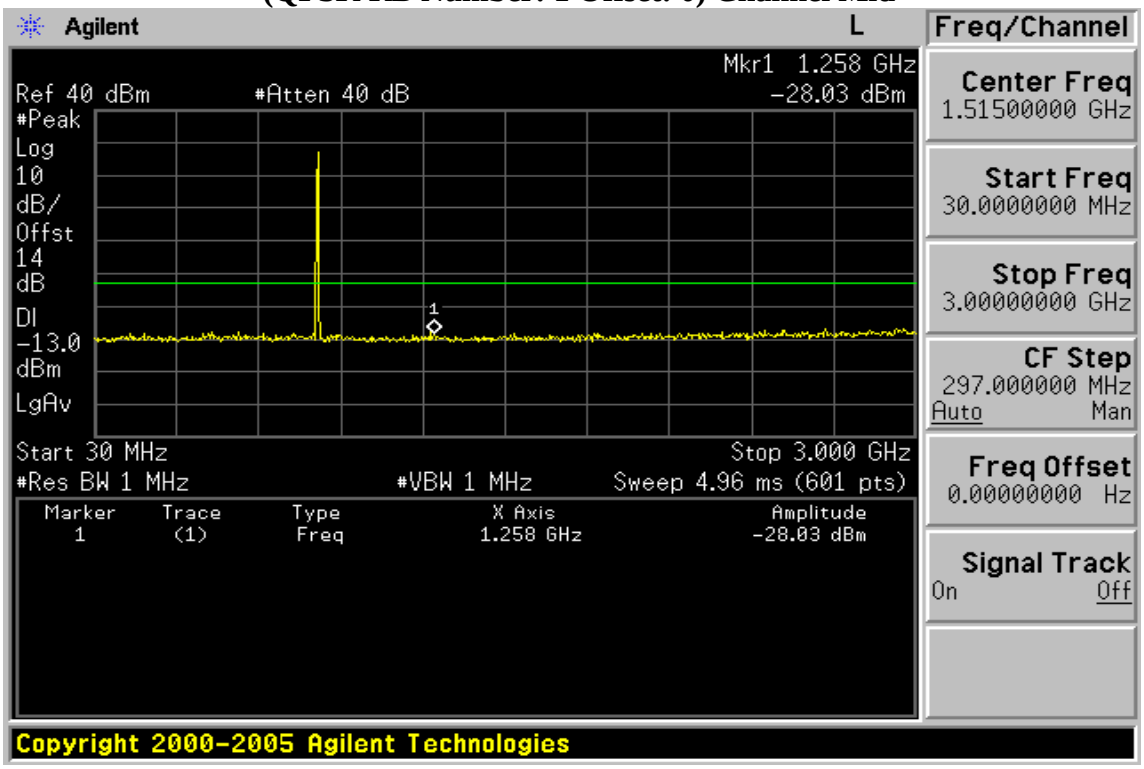
Out of Band emission at antenna terminals–3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

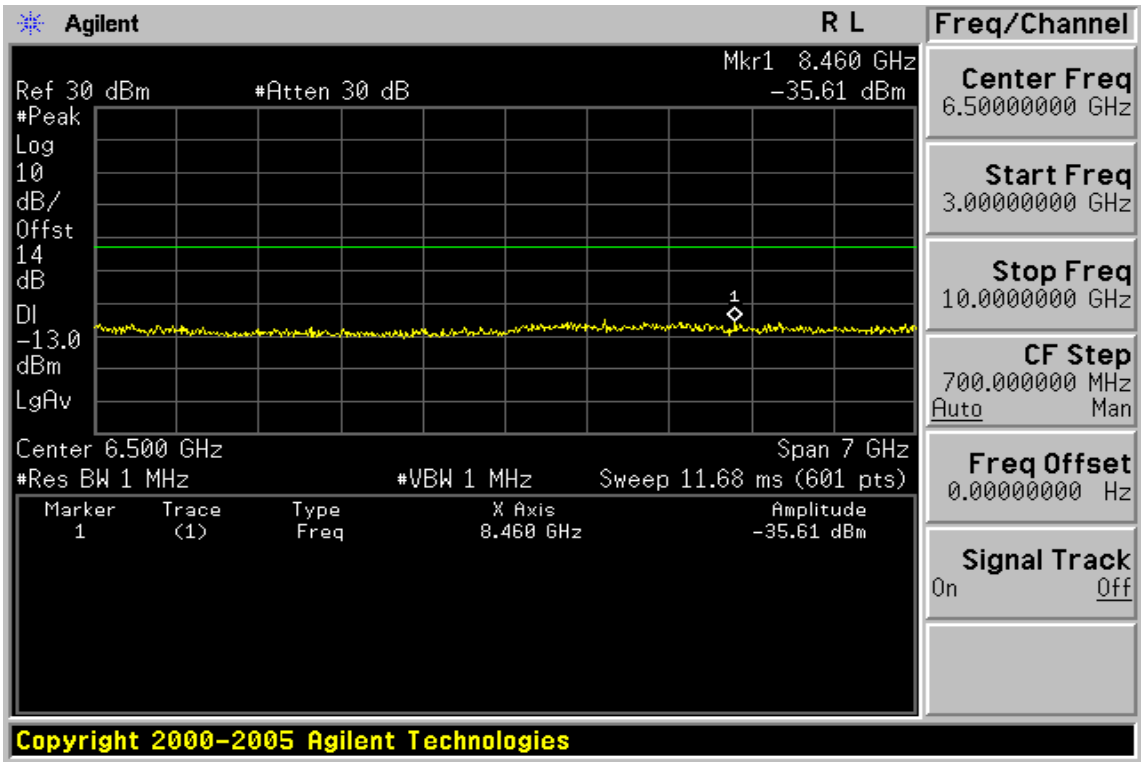




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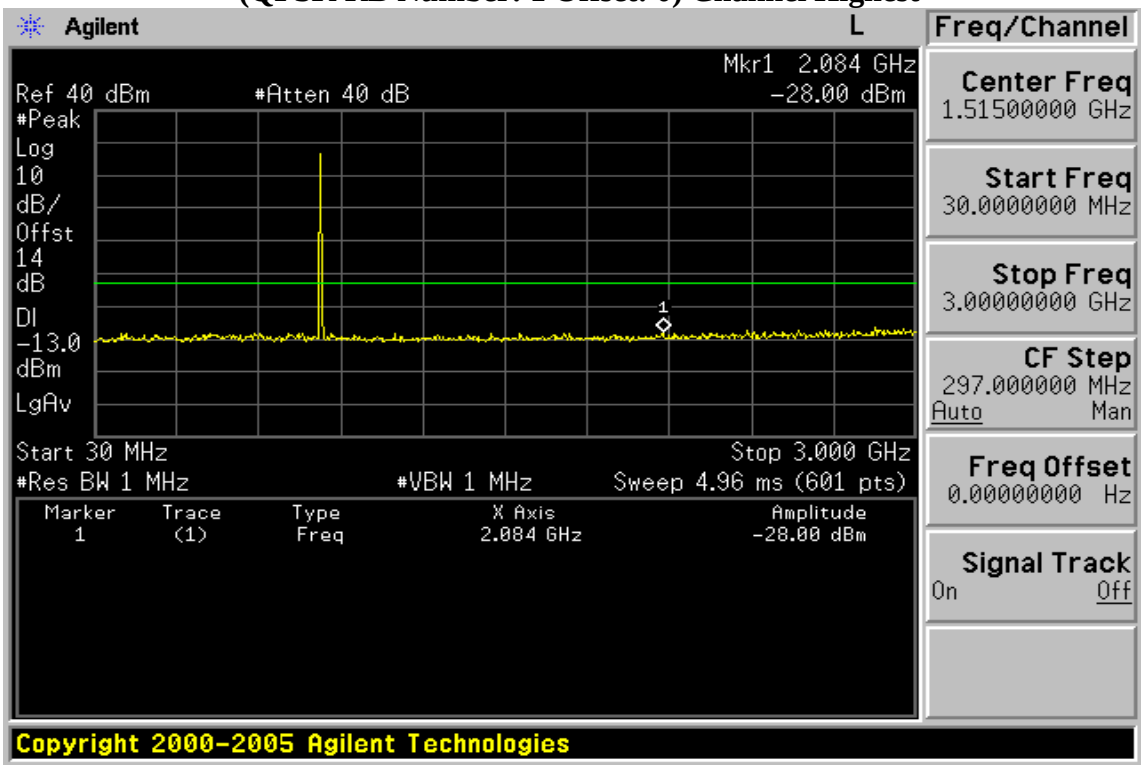
Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

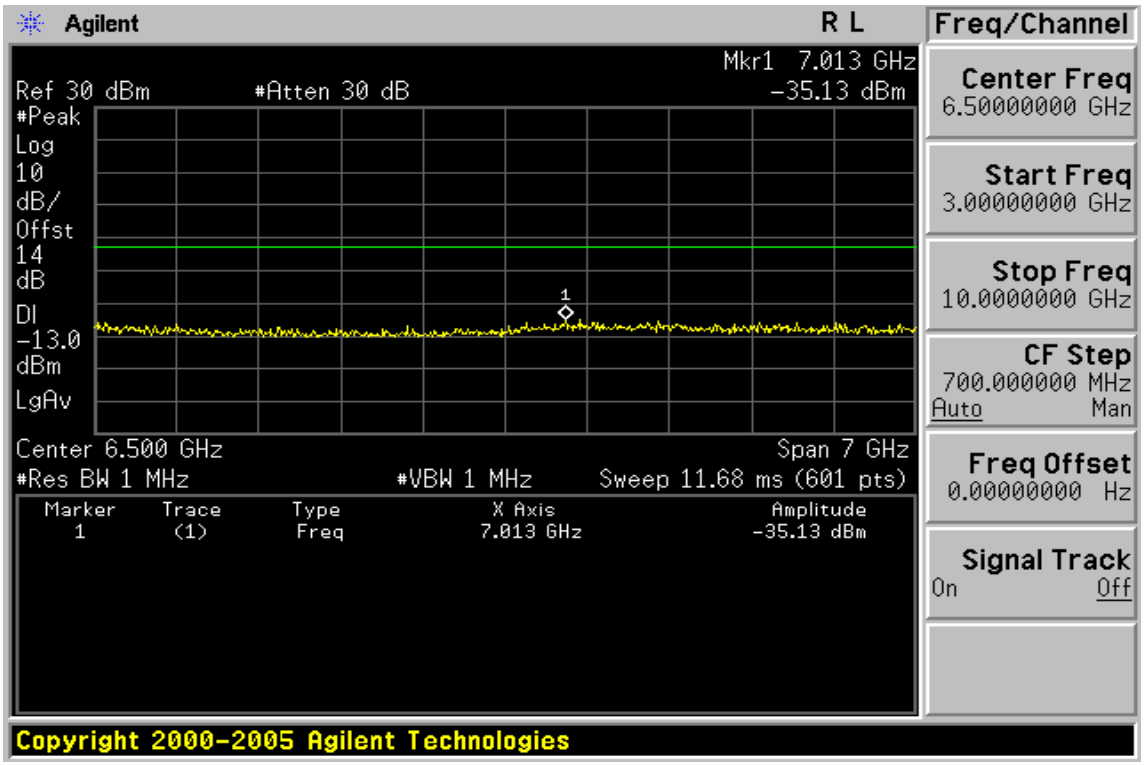




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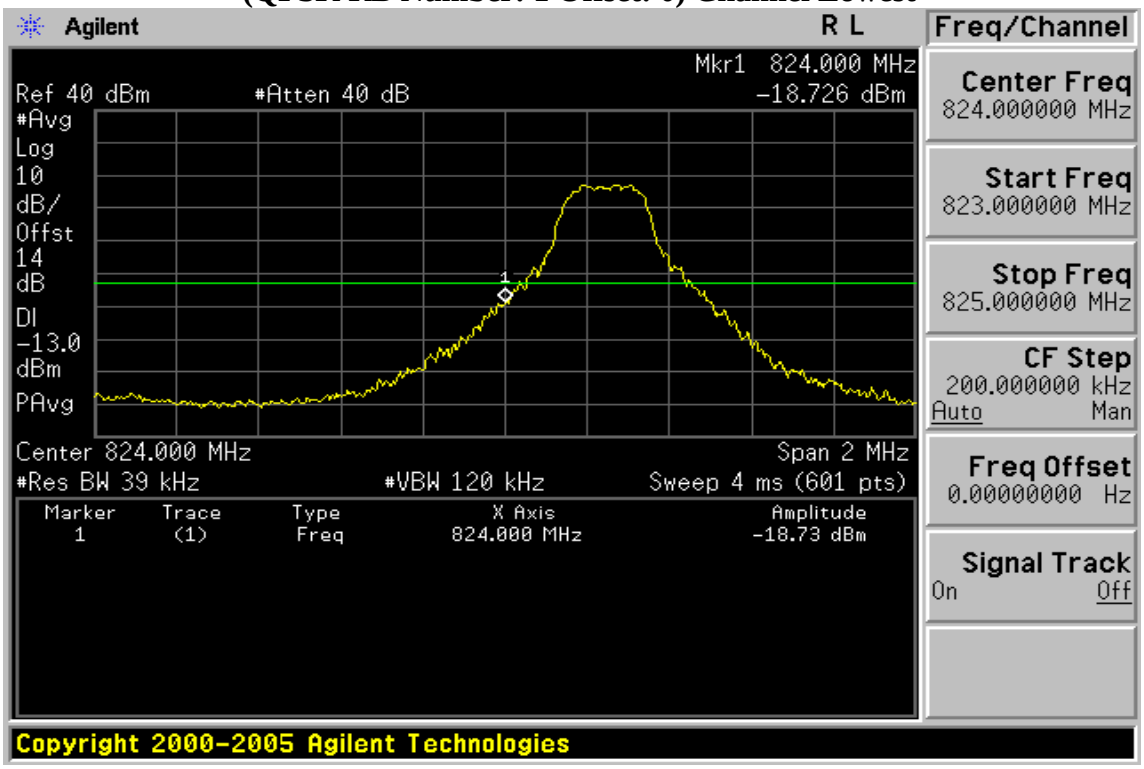
Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



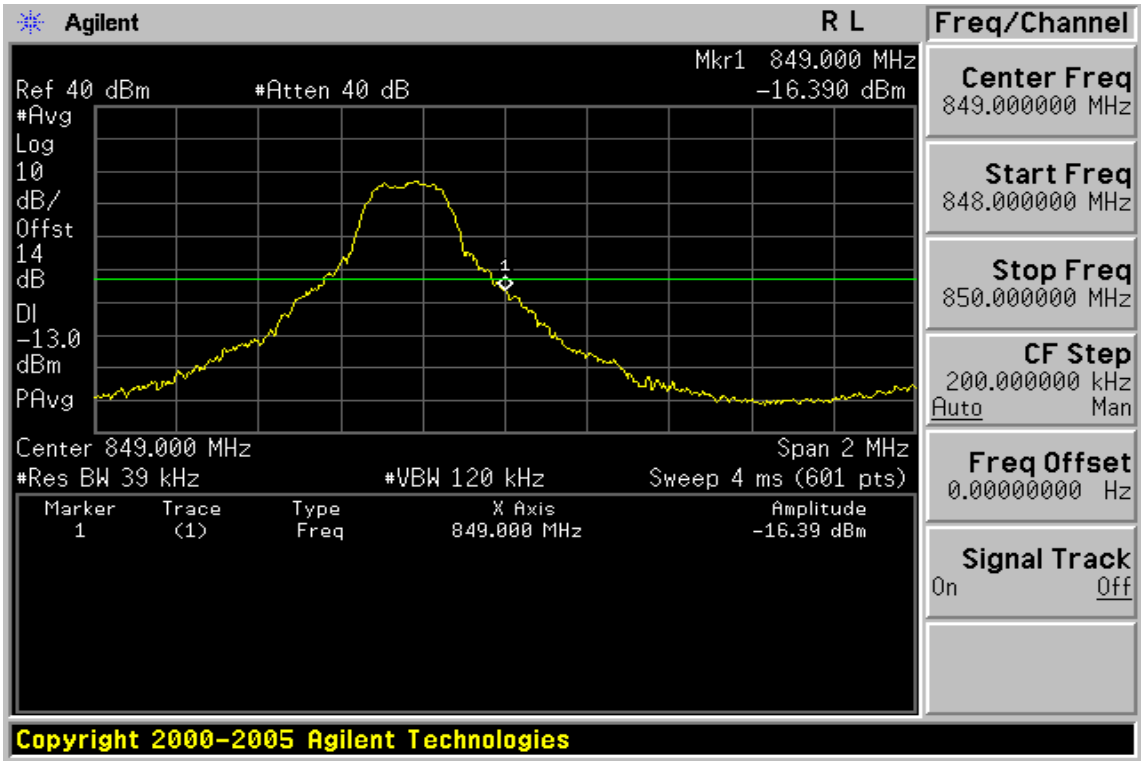


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Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

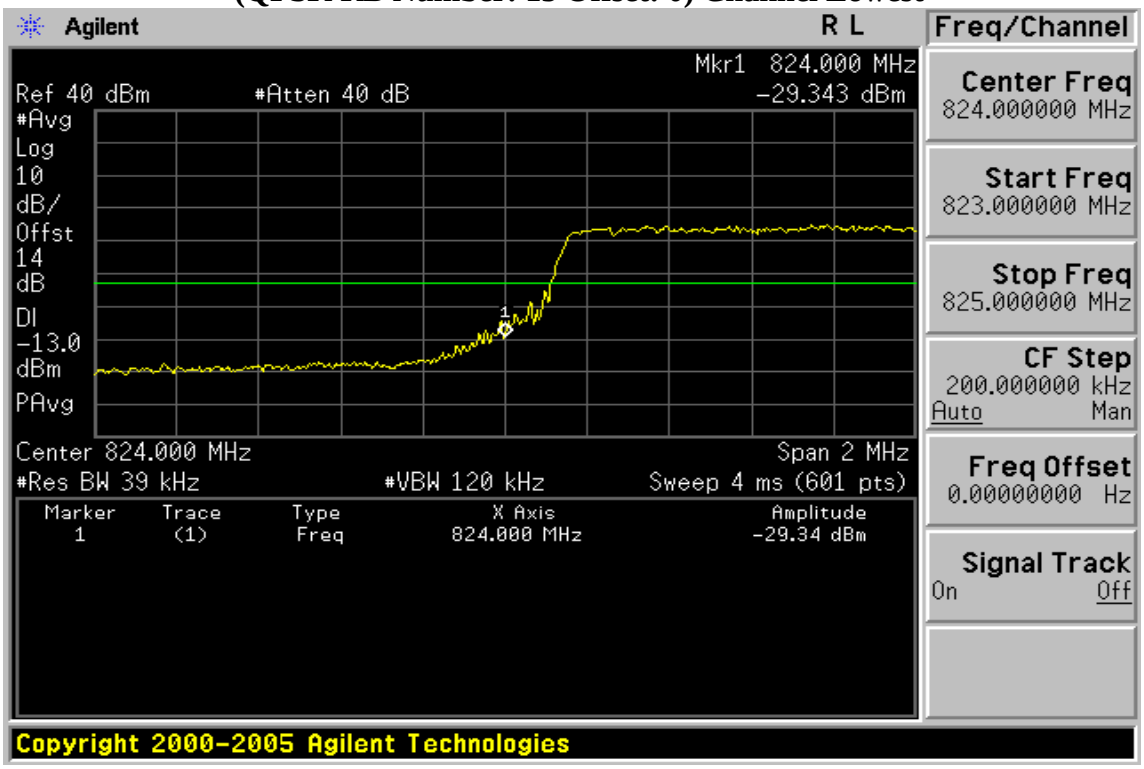


Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 14) Channel Highest

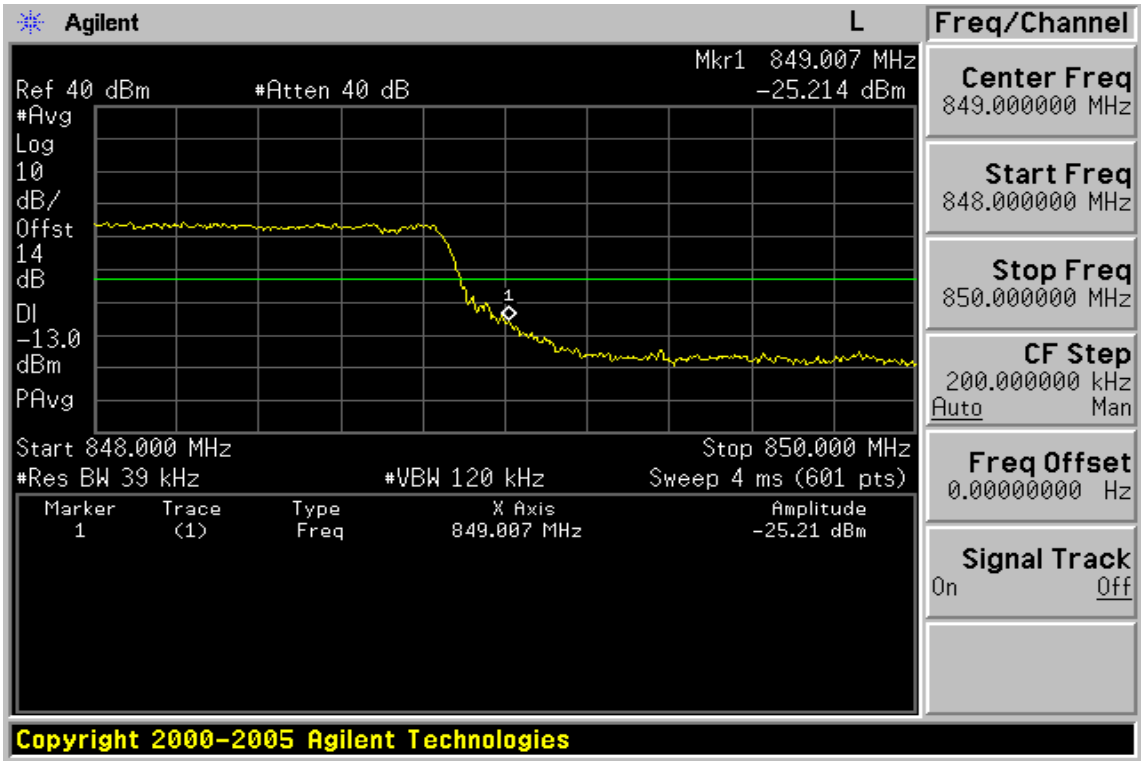


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Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 15 Offset: 0) Channel Lowest

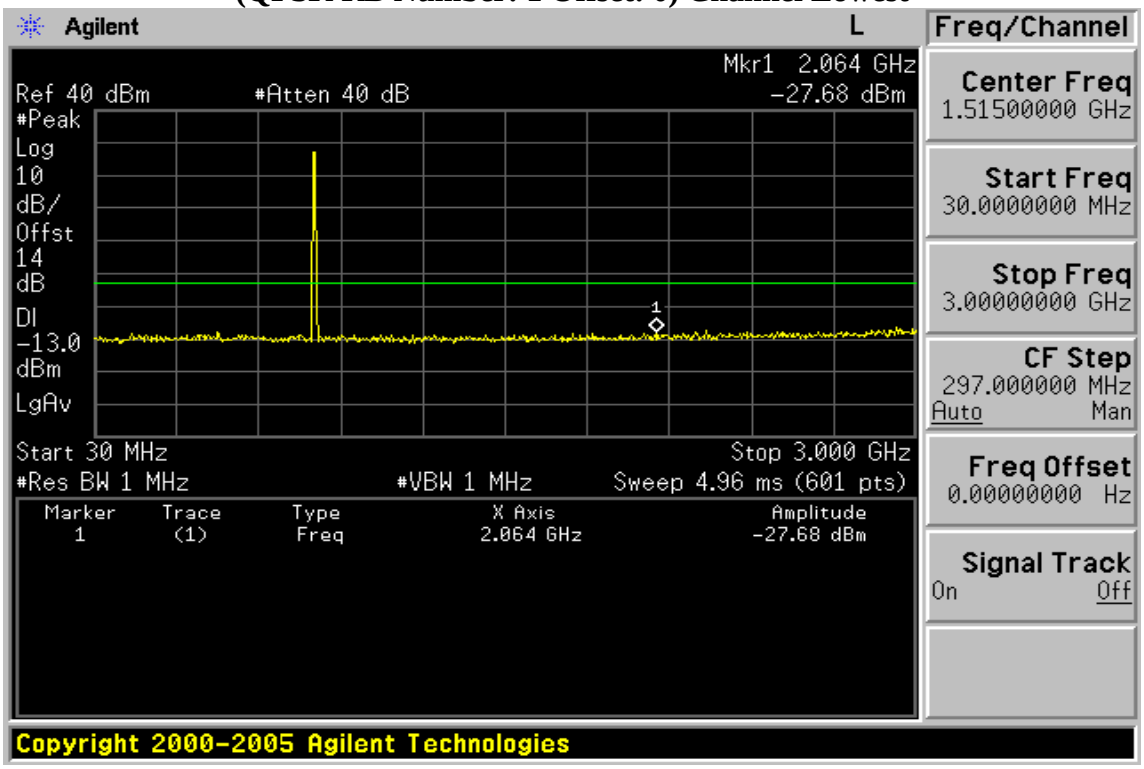


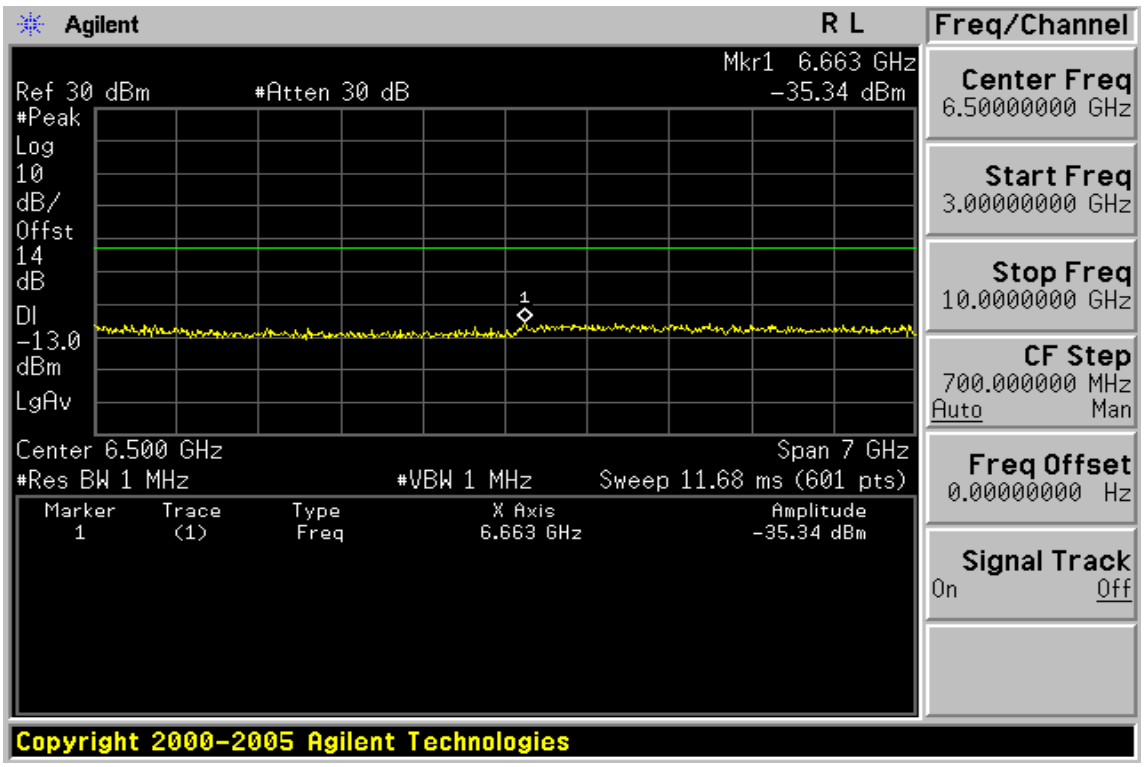
Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 15 Offset: 0) Channel Highest



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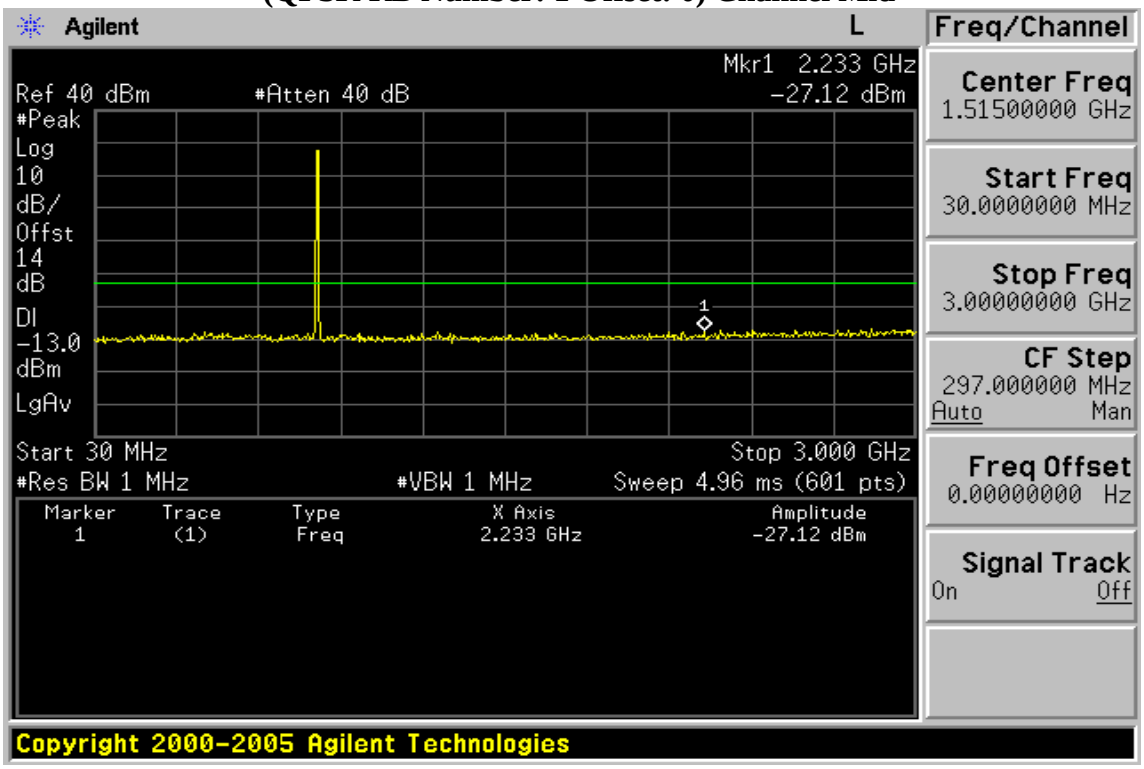
Out of Band emission at antenna terminals–5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

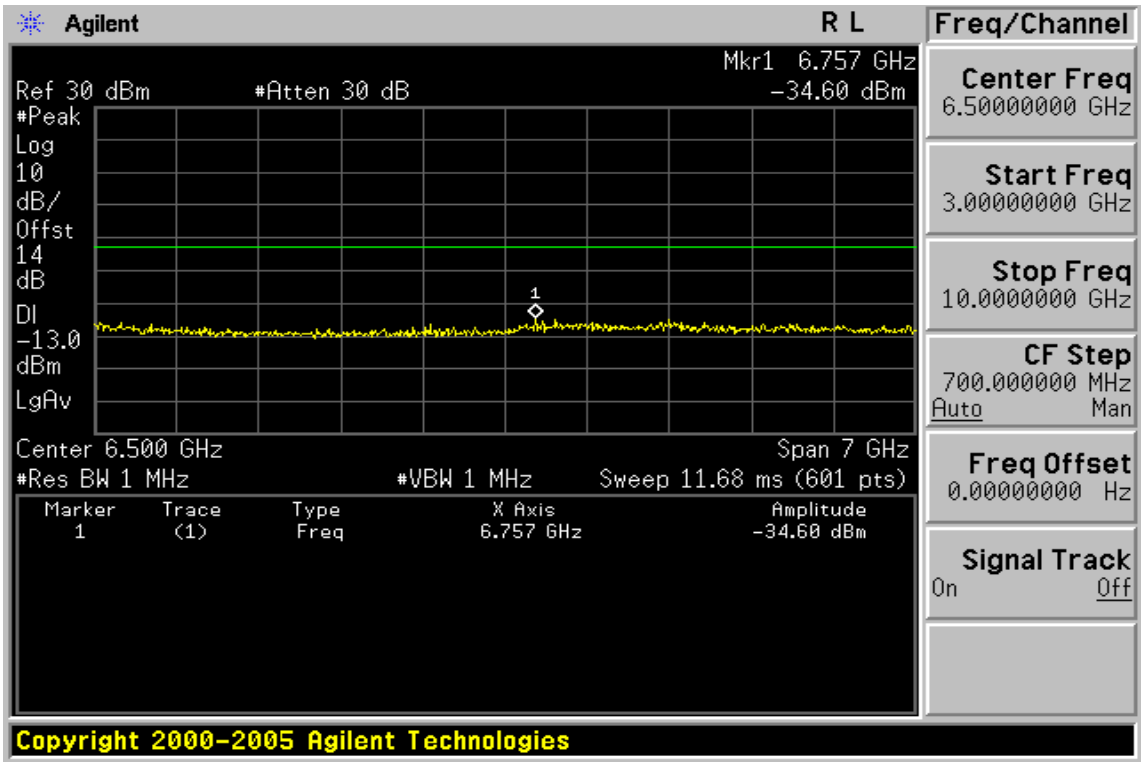




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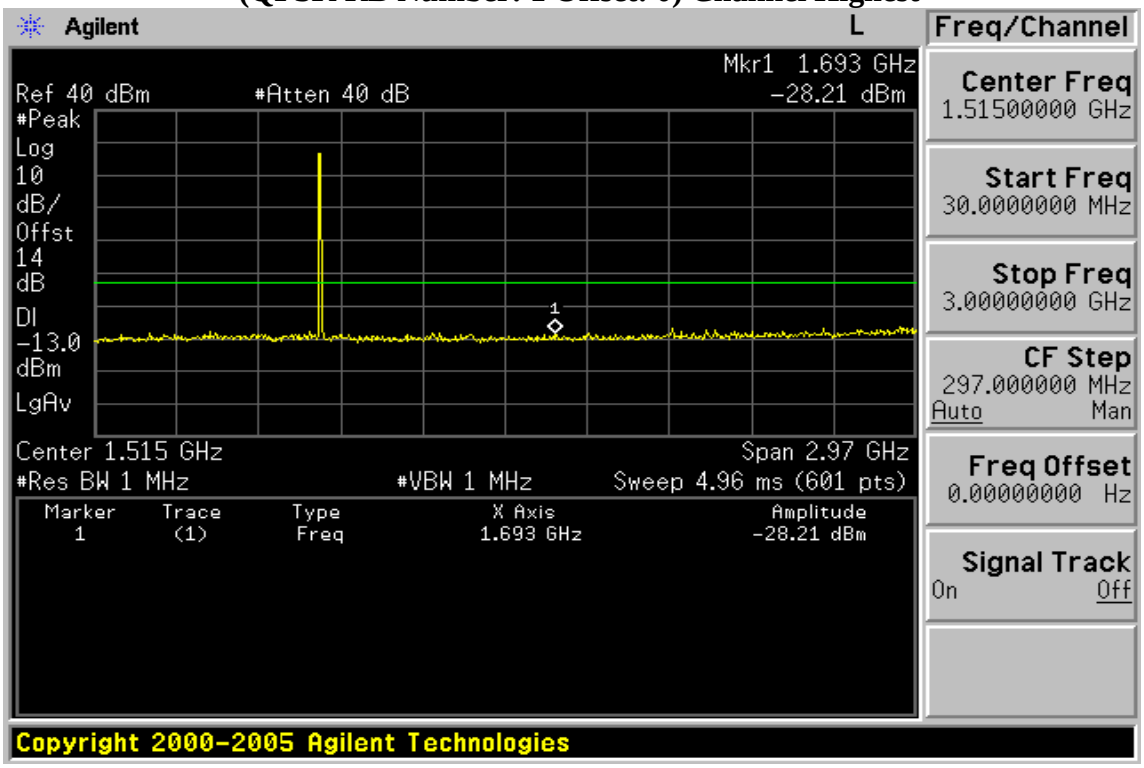
Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

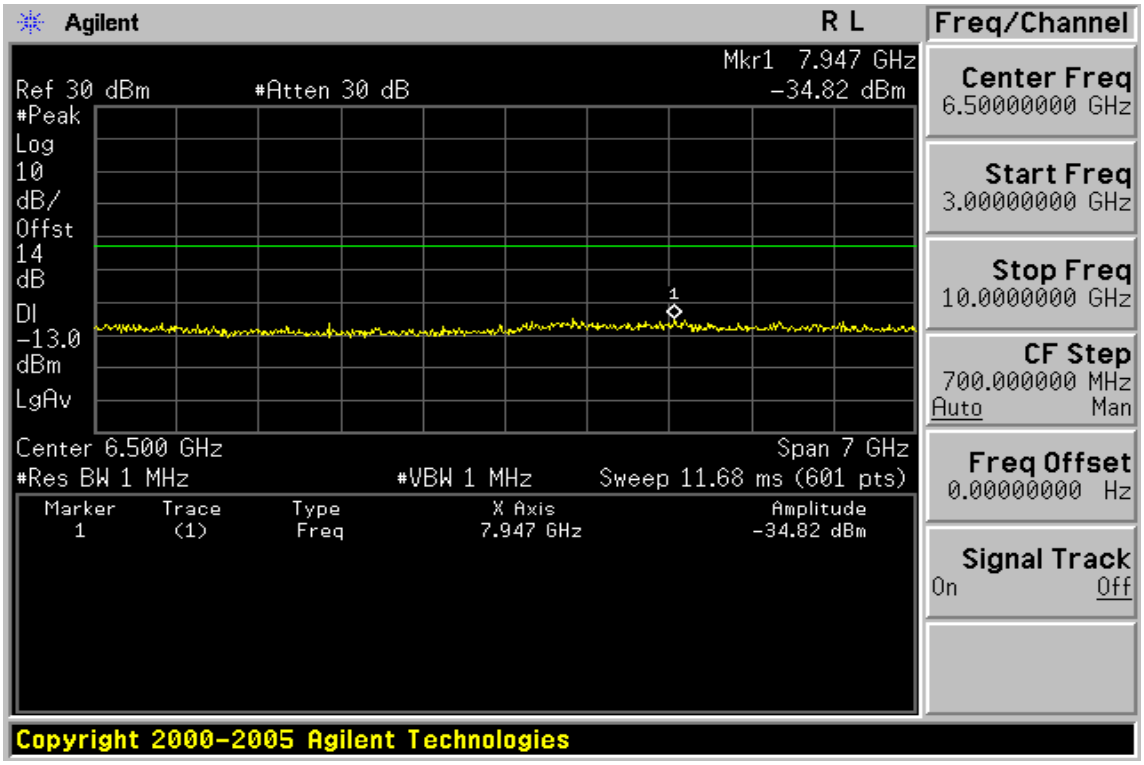




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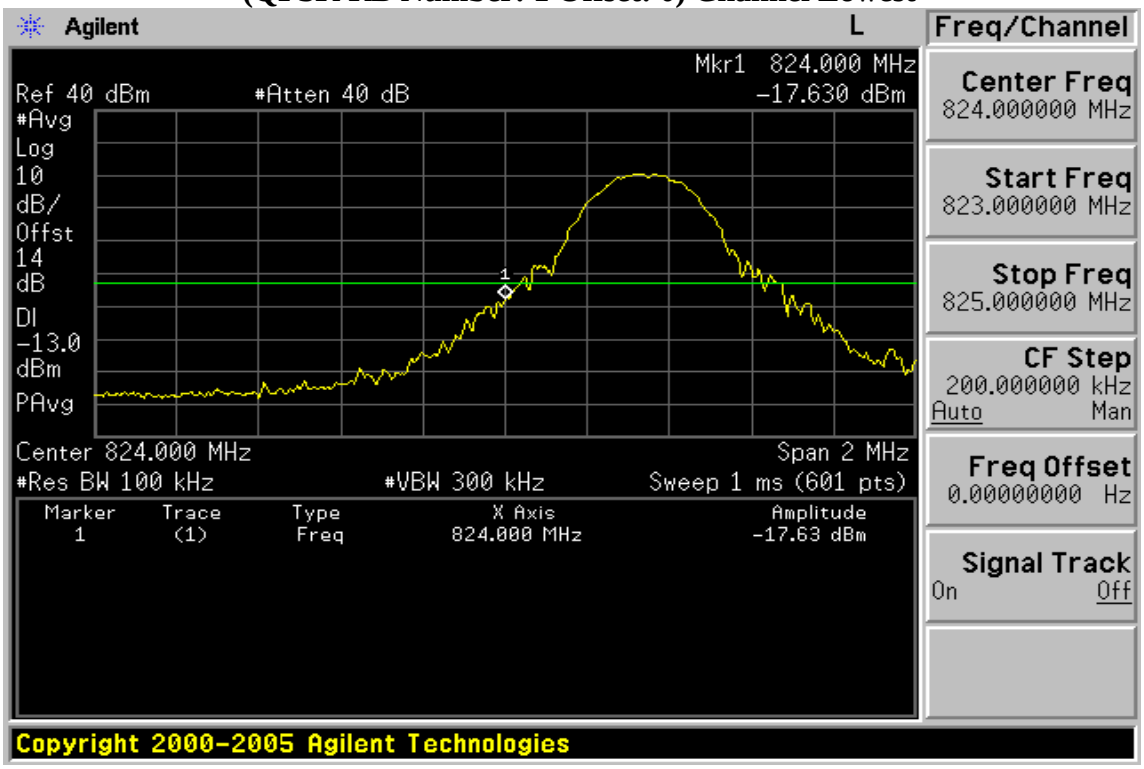
Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



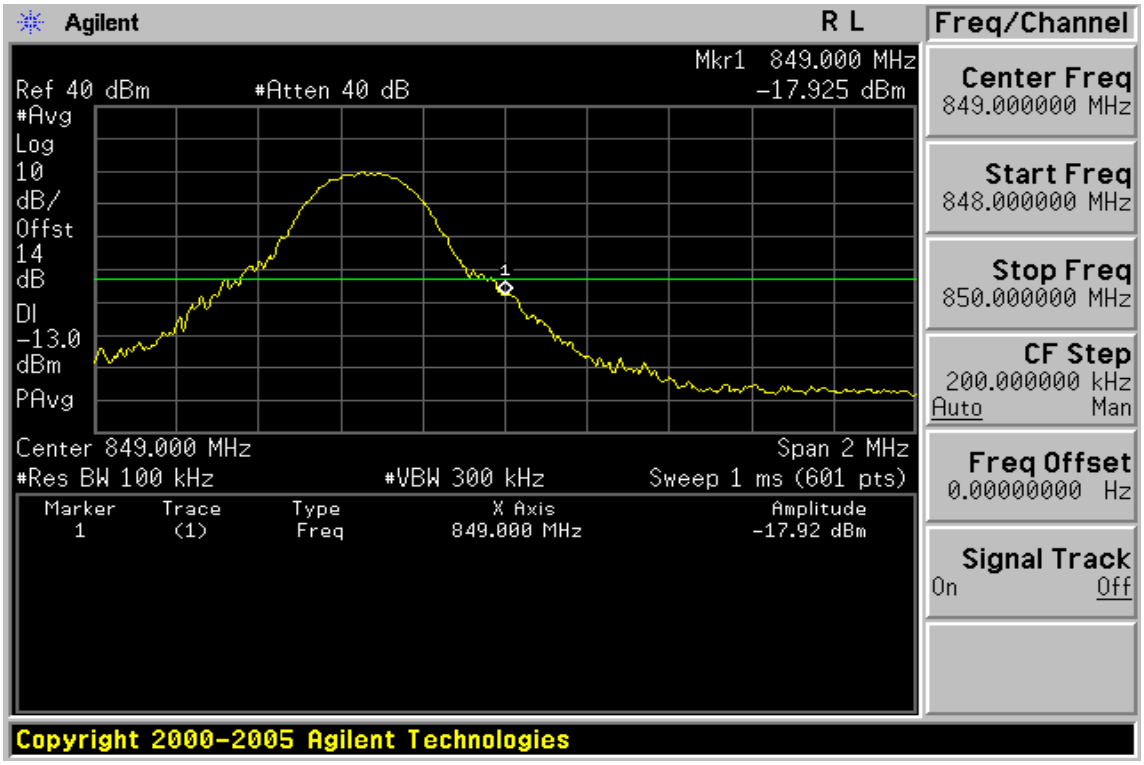


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Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

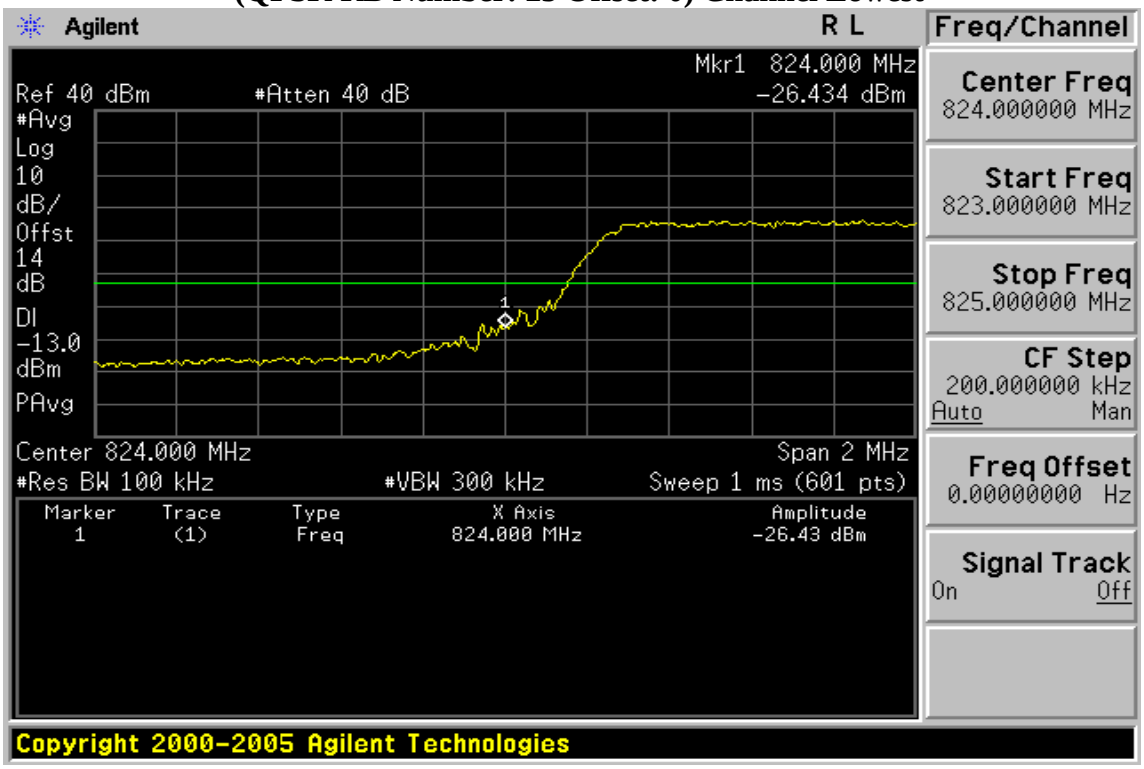


Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 24) Channel Highest

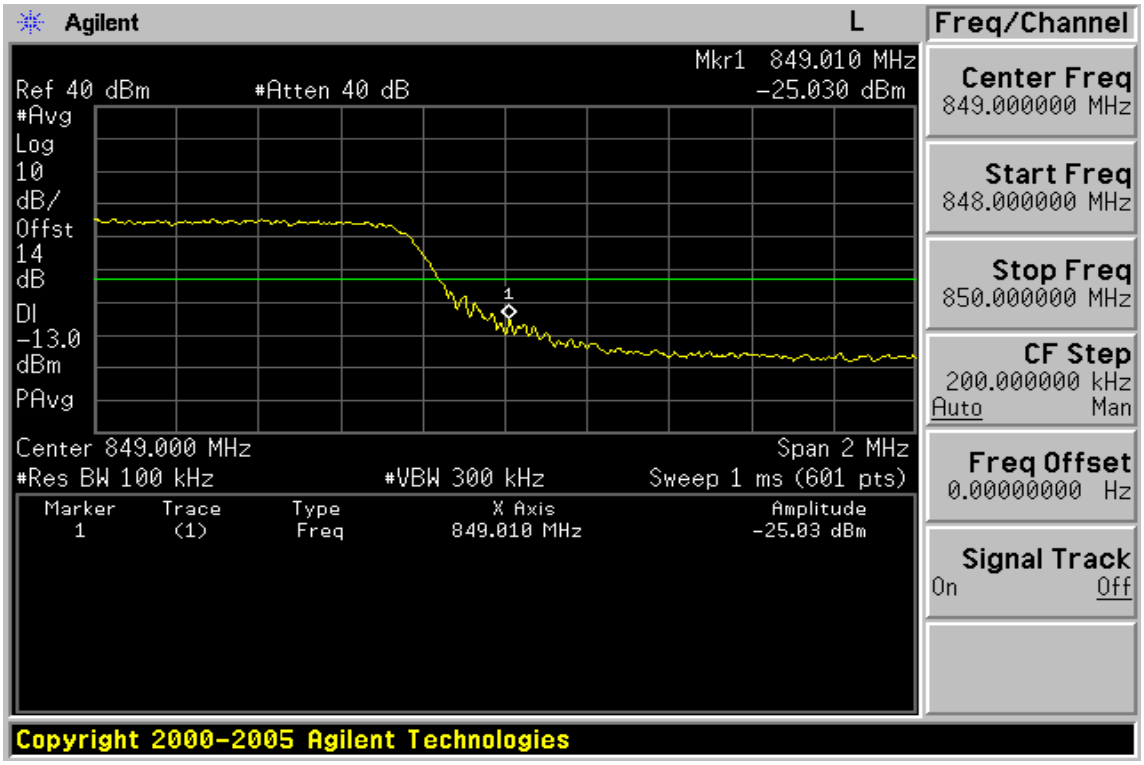


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Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 25 Offset: 0) Channel Lowest

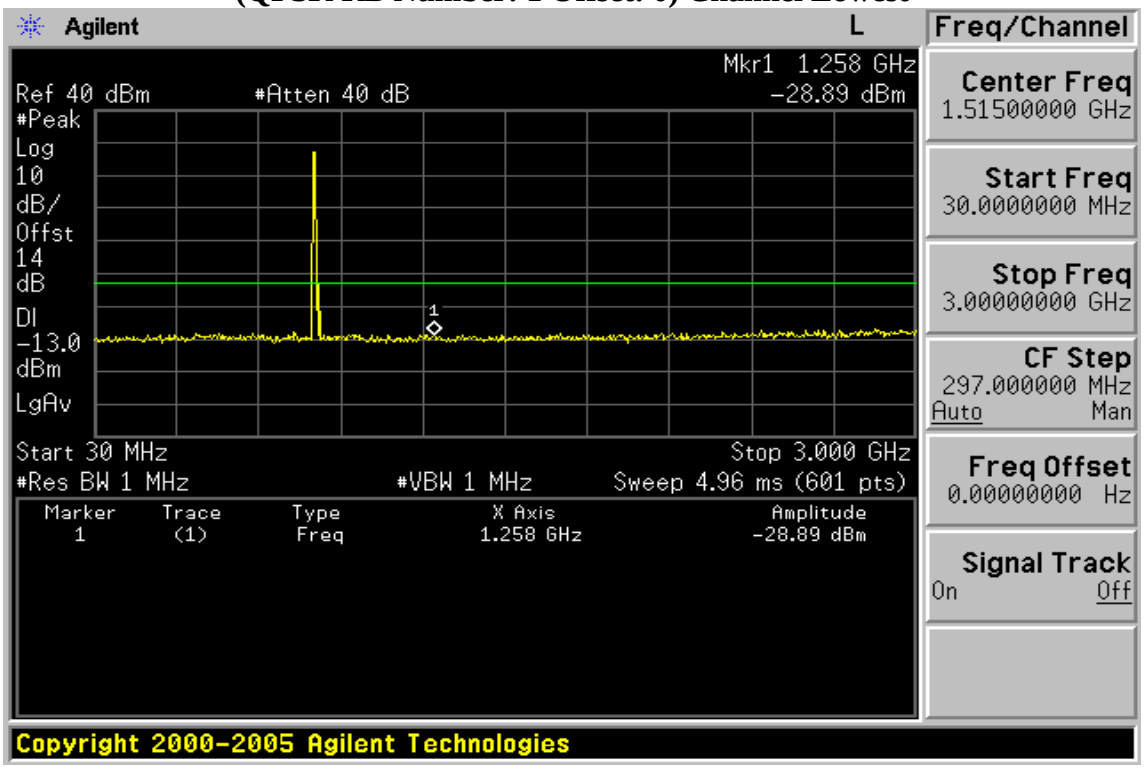


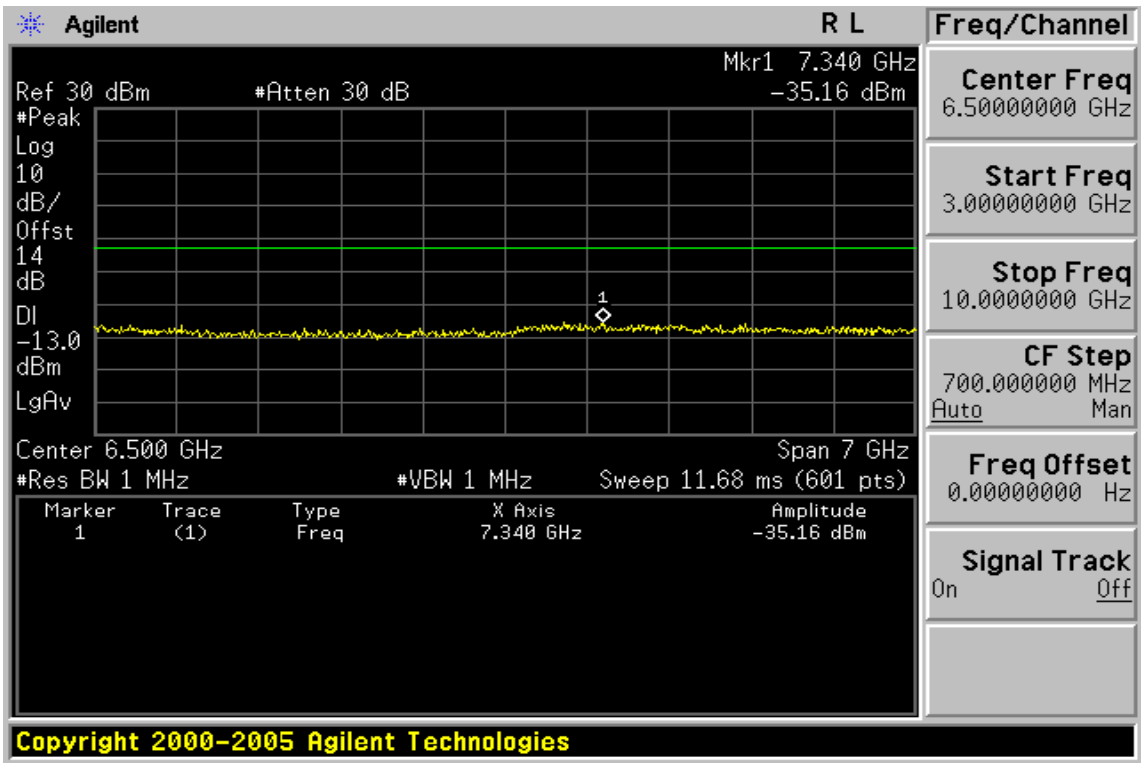
Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 25 Offset: 0) Channel Highest



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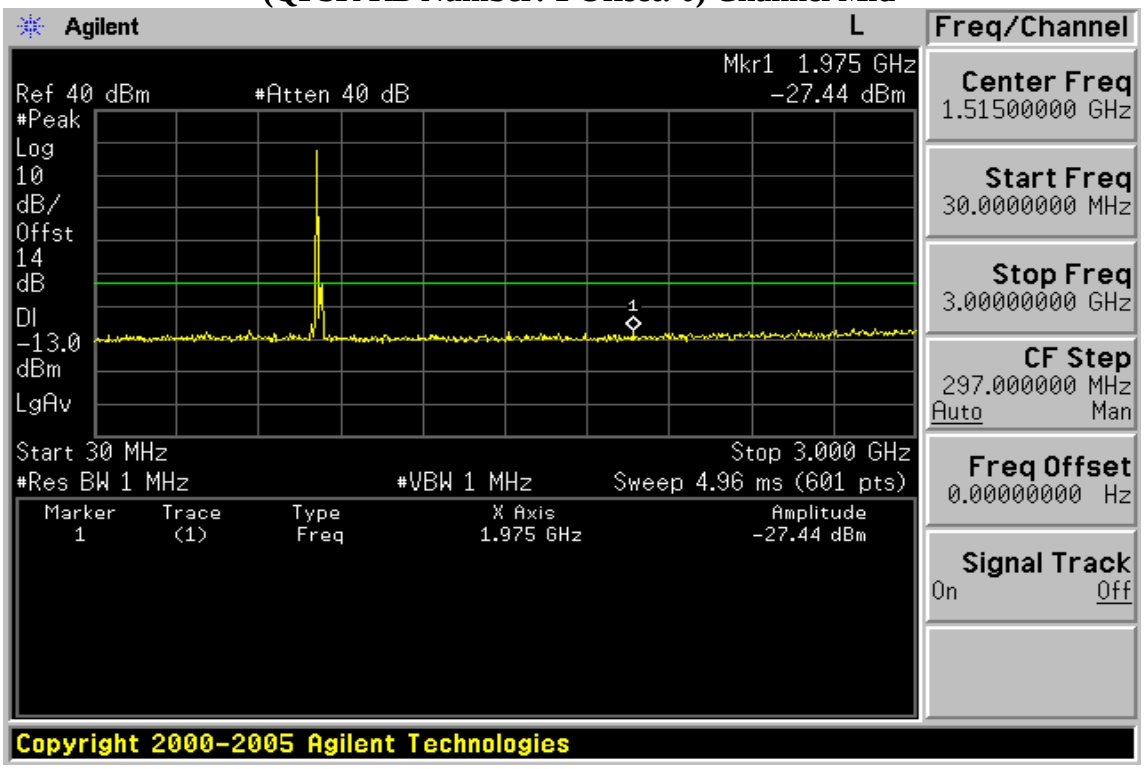
Out of Band emission at antenna terminals–10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

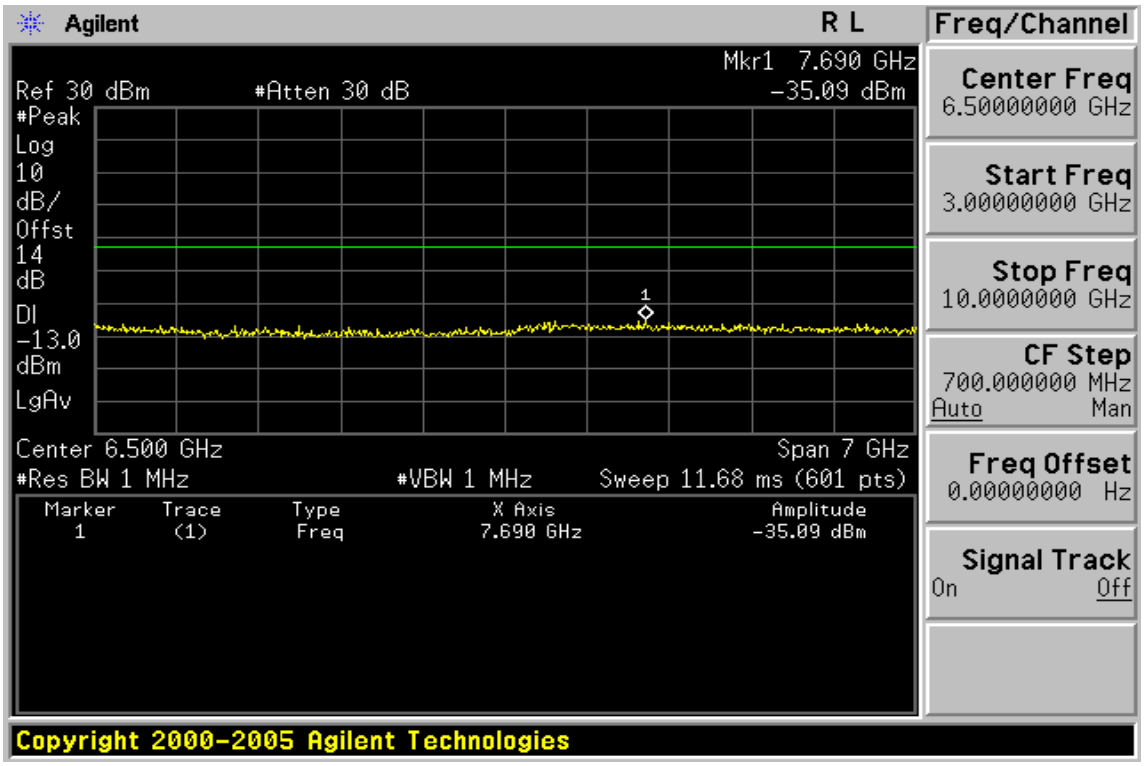




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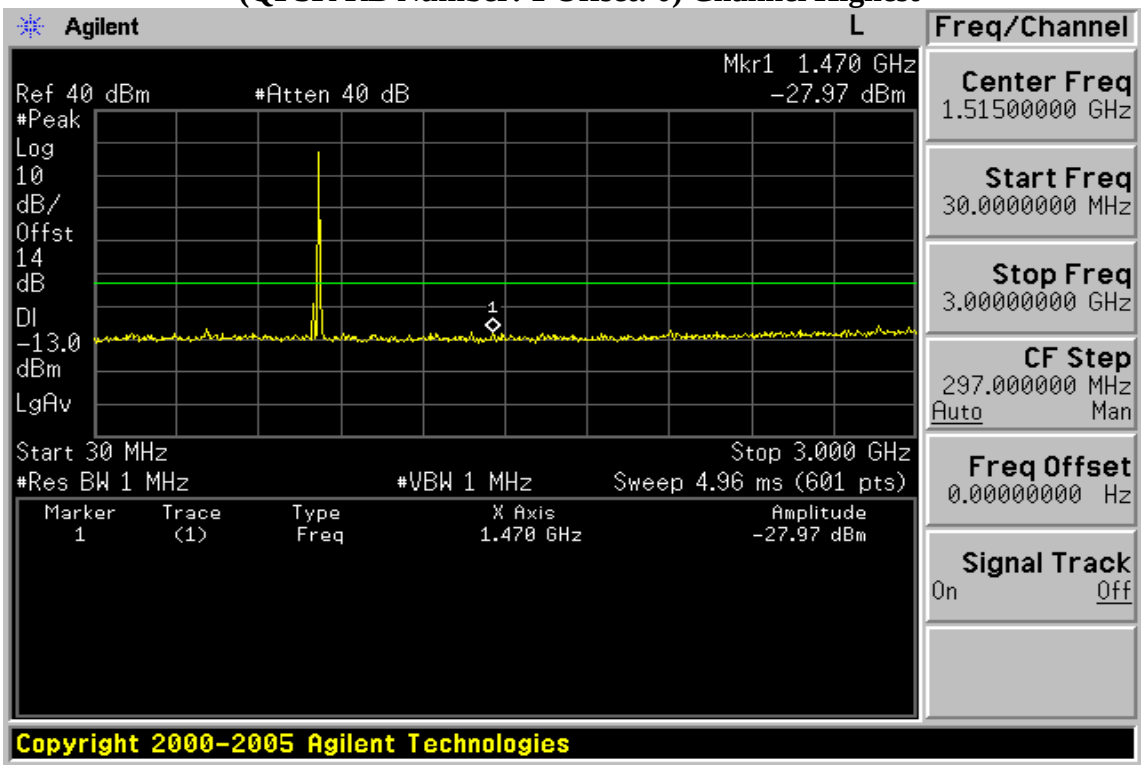
Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

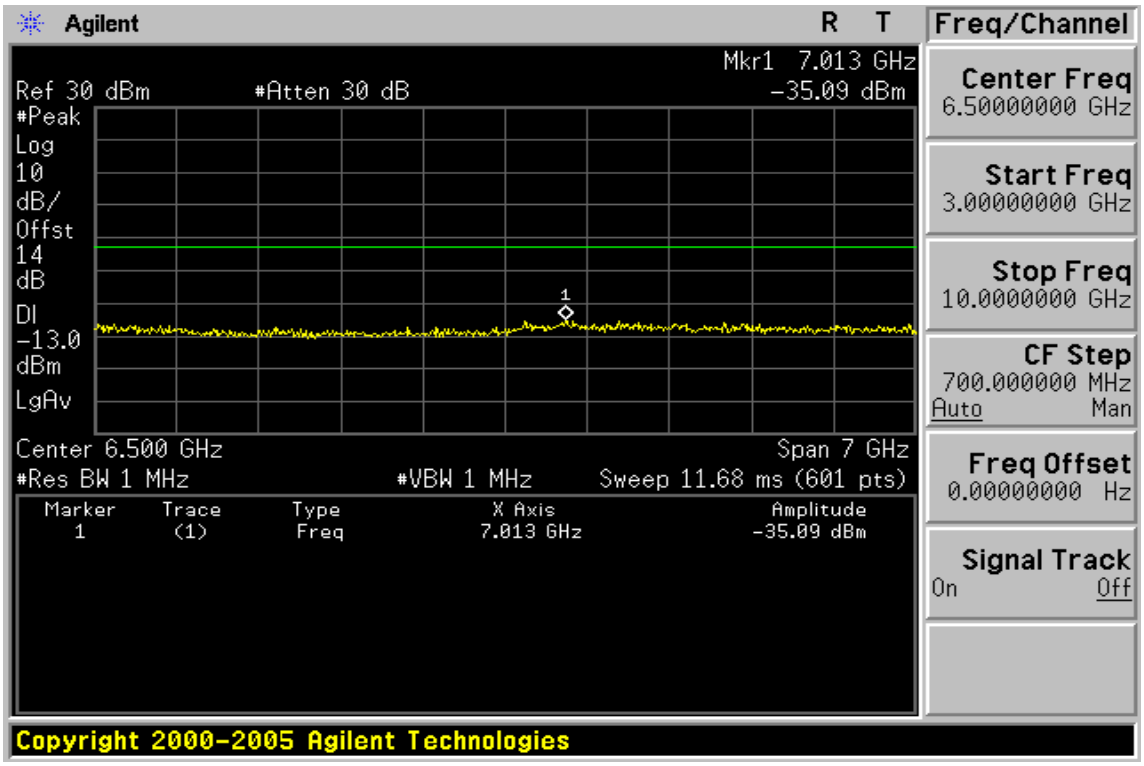




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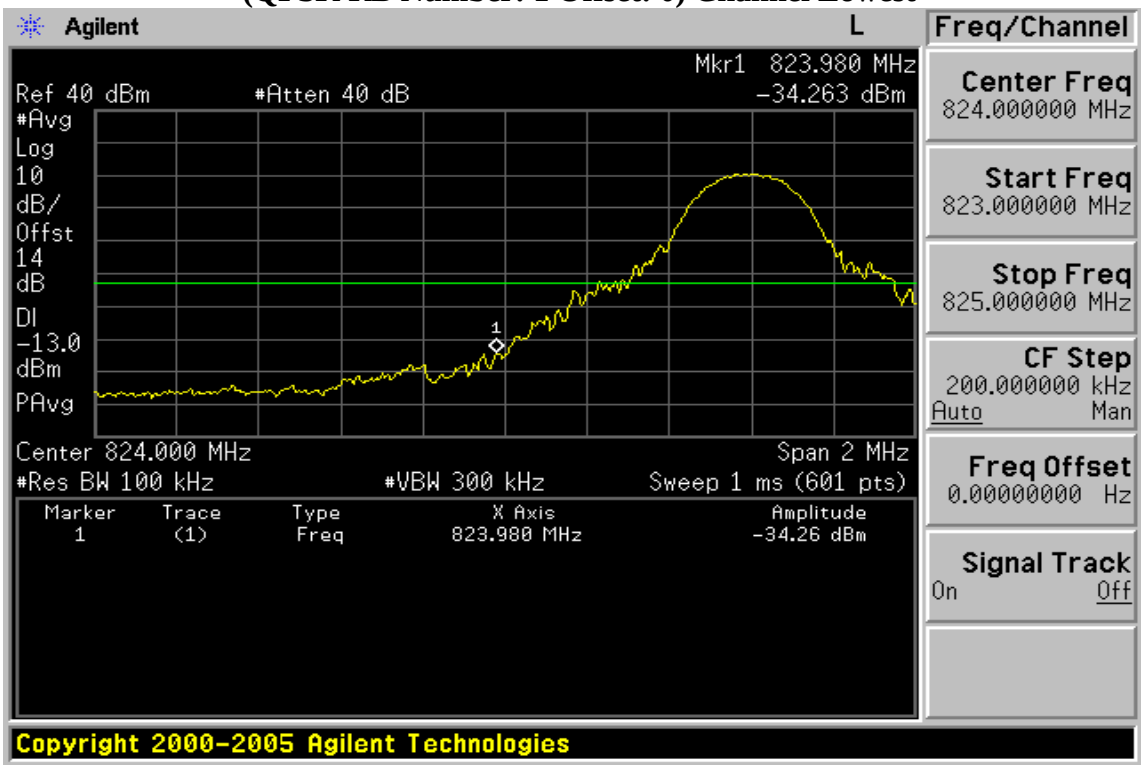
Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



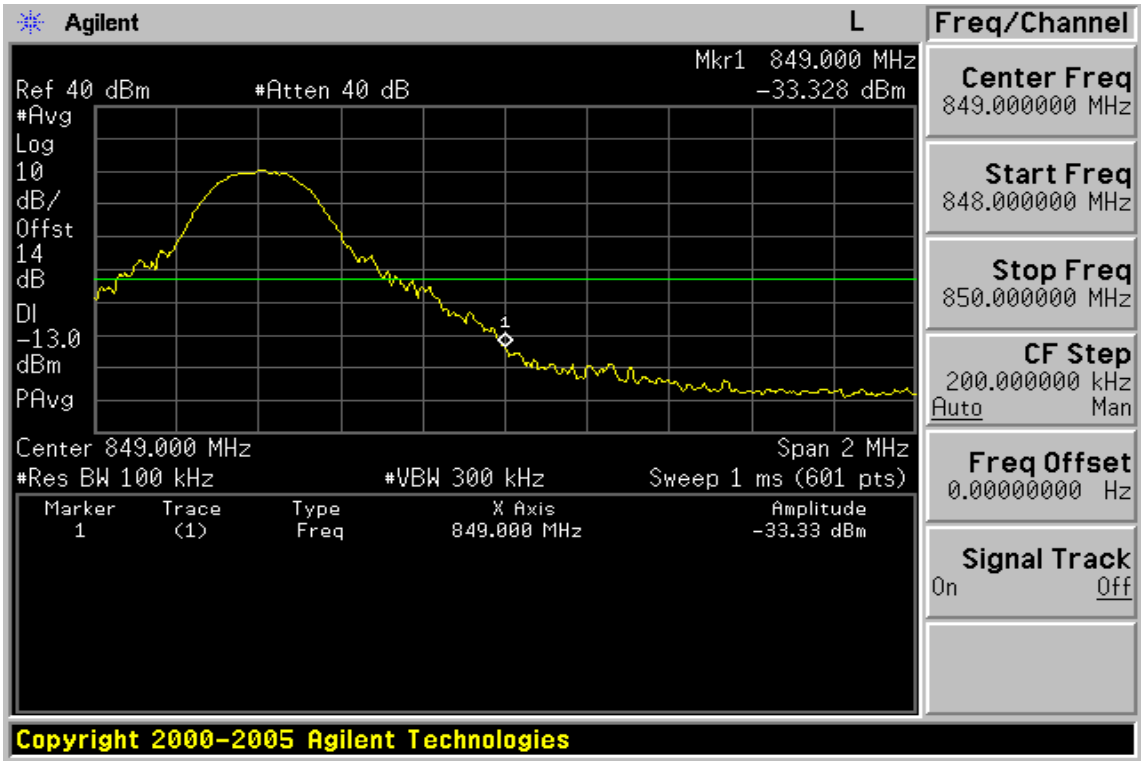


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Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

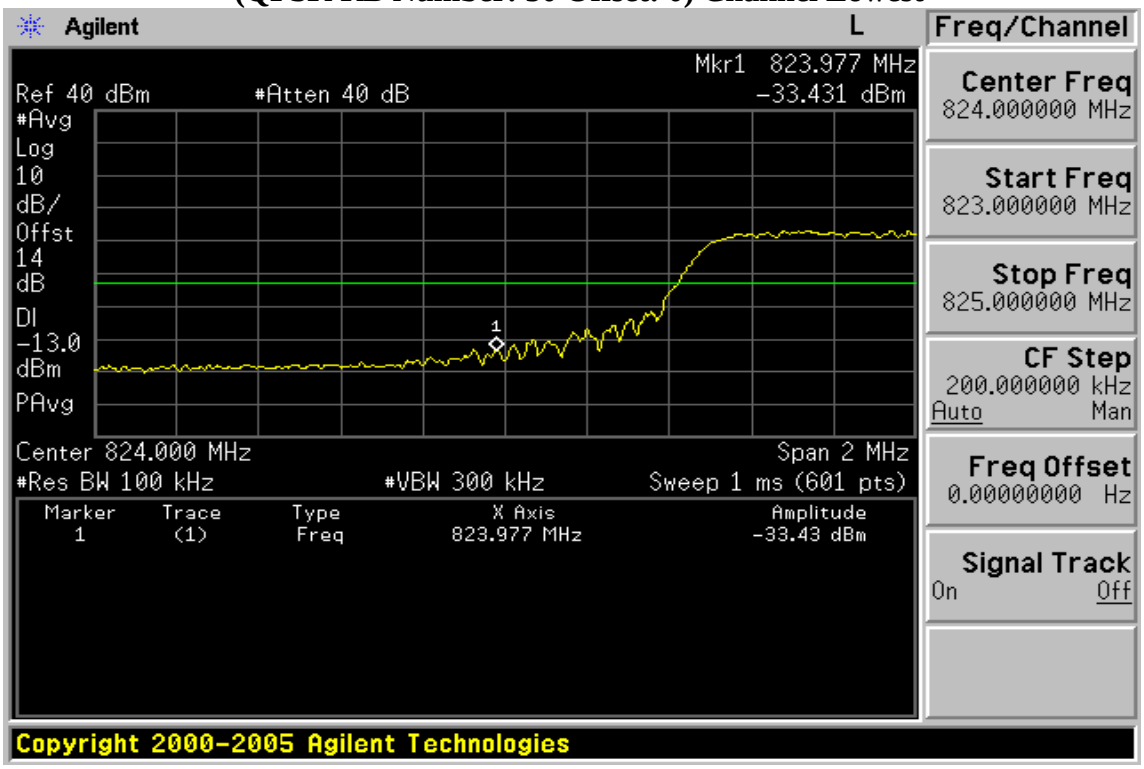


Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 49) Channel Highest

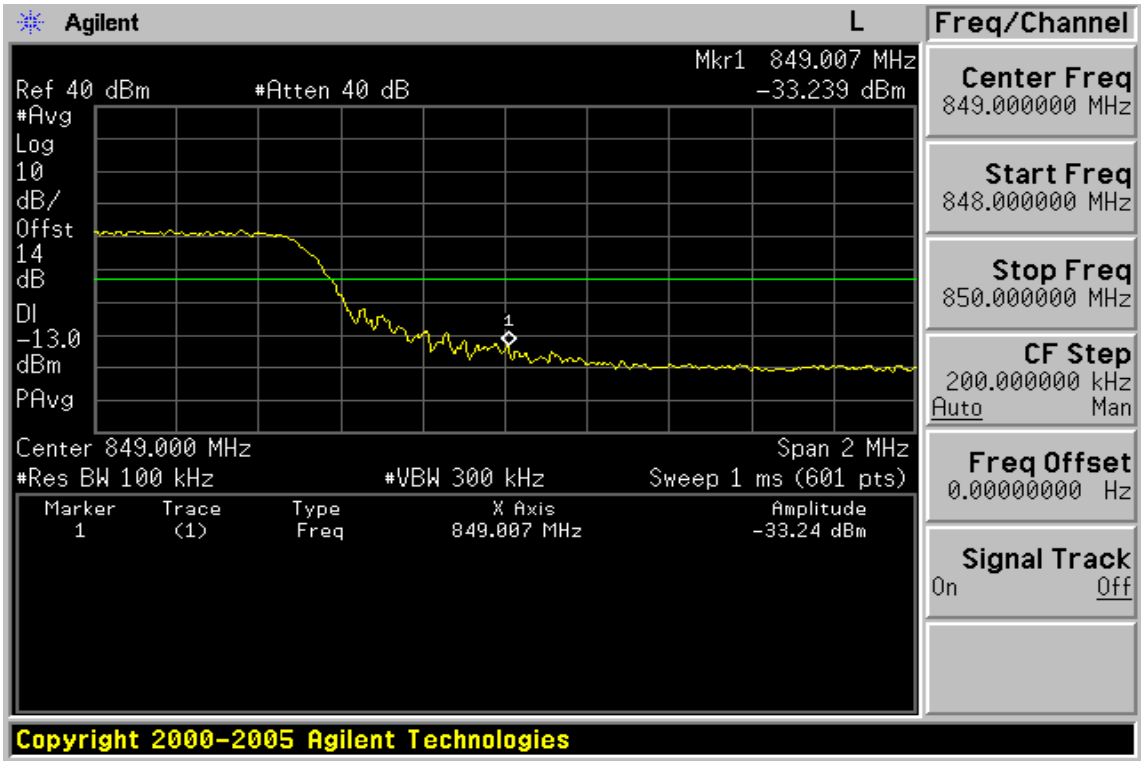


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Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 50 Offset: 0) Channel Lowest

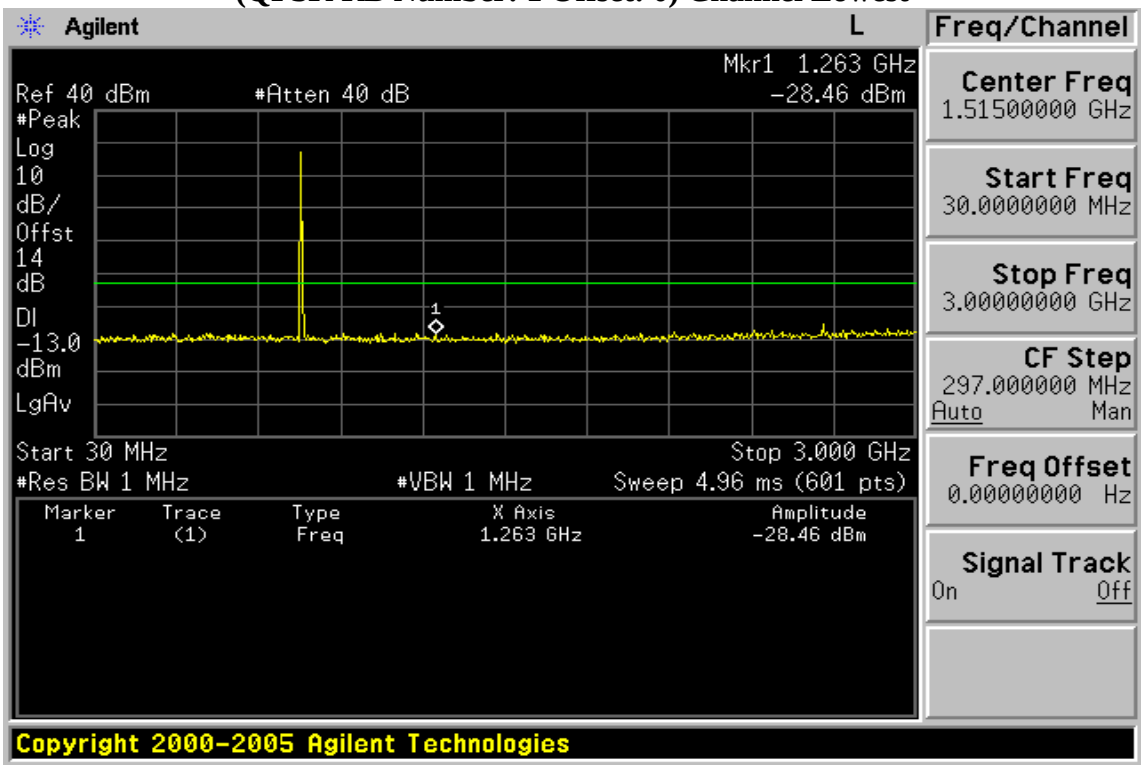


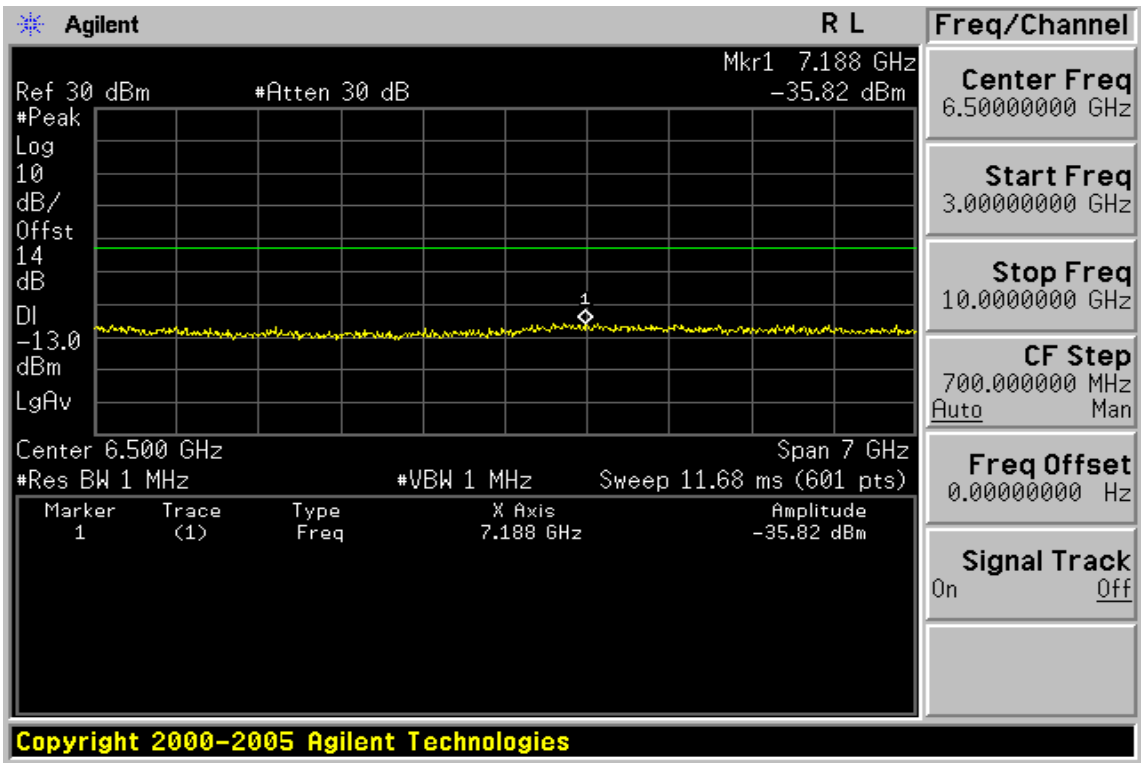
Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 50 Offset: 0) Channel Highest



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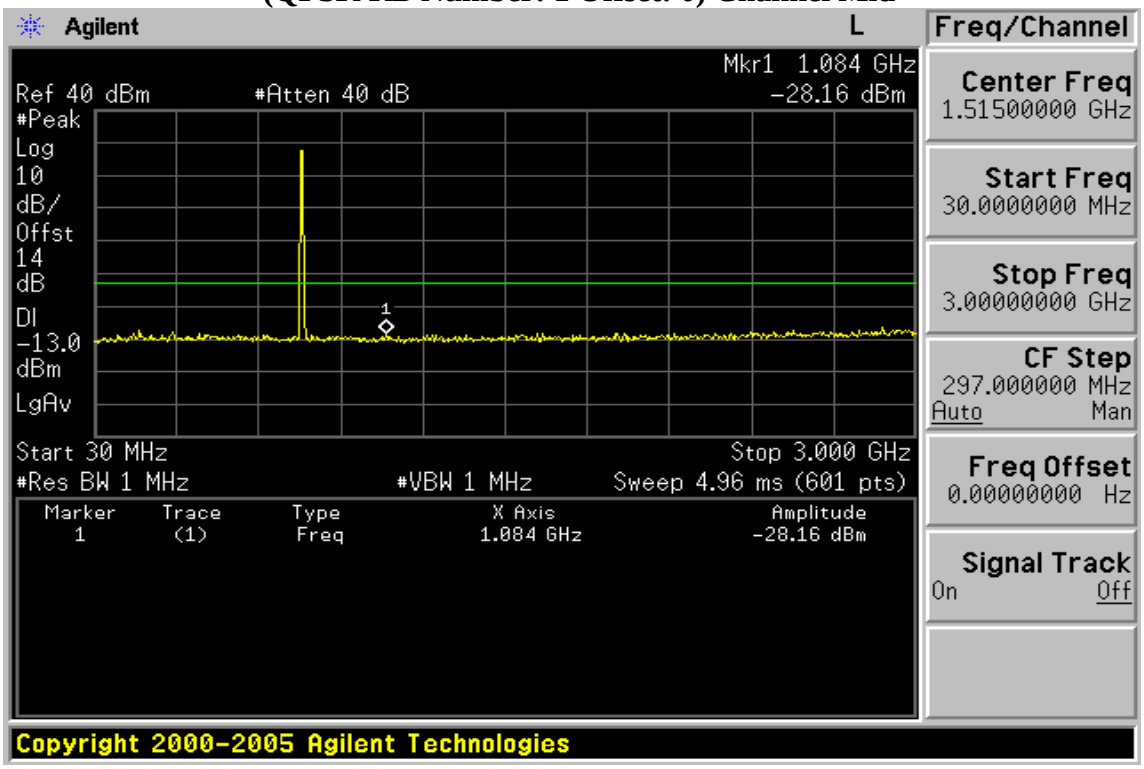
Out of Band emission at antenna terminals–5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest

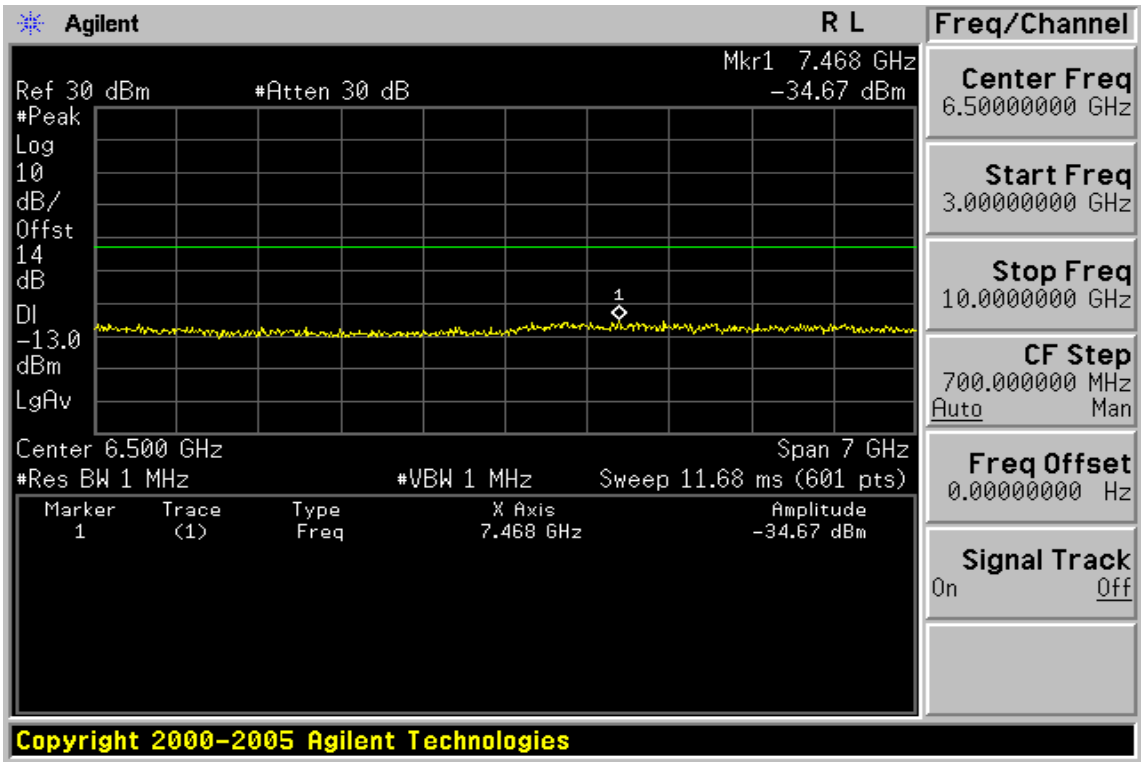




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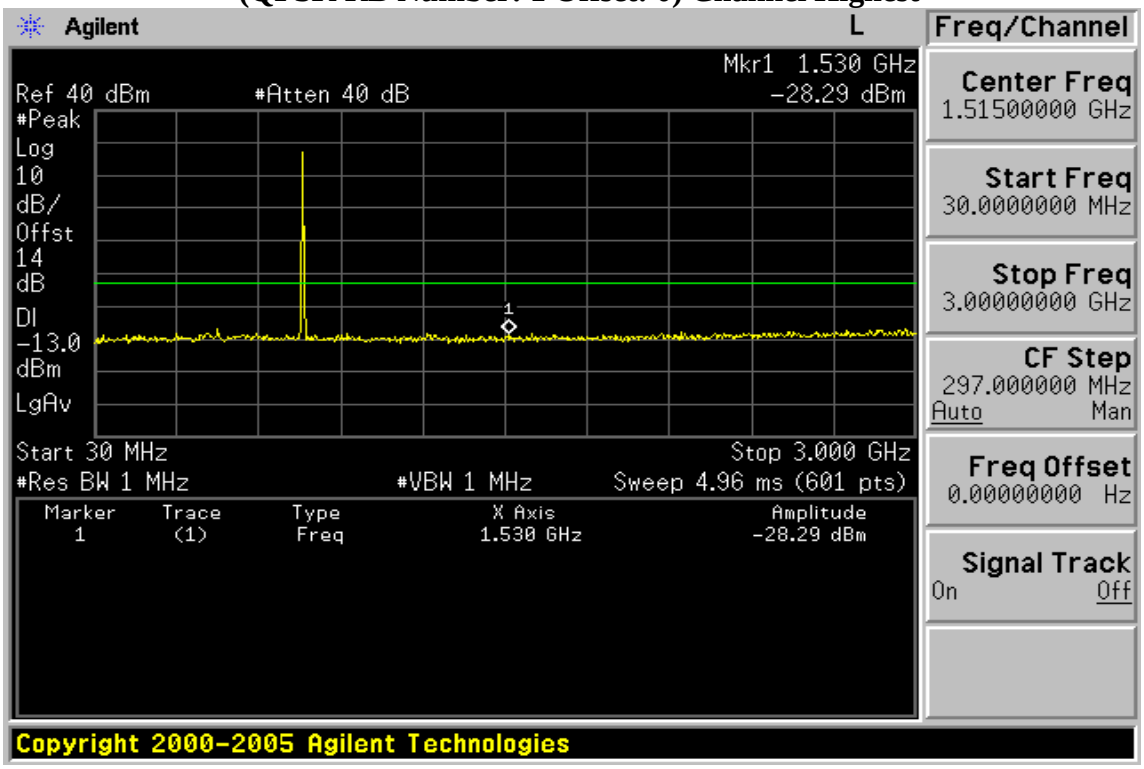
Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid

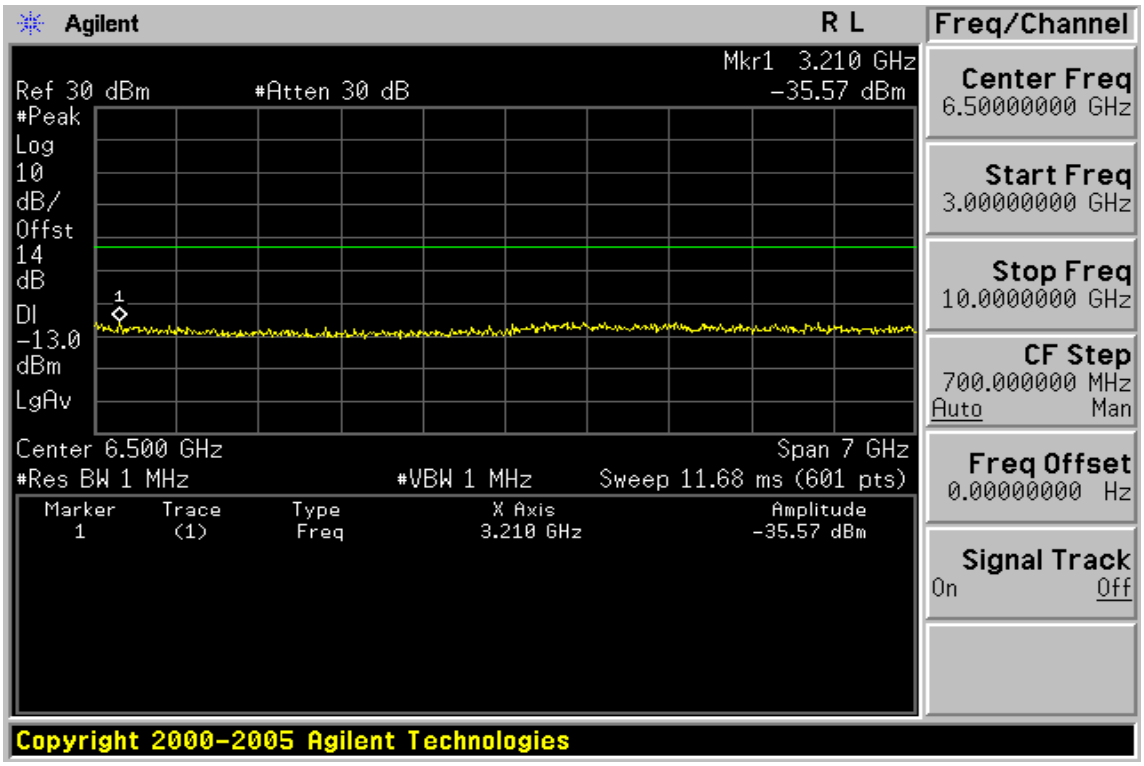




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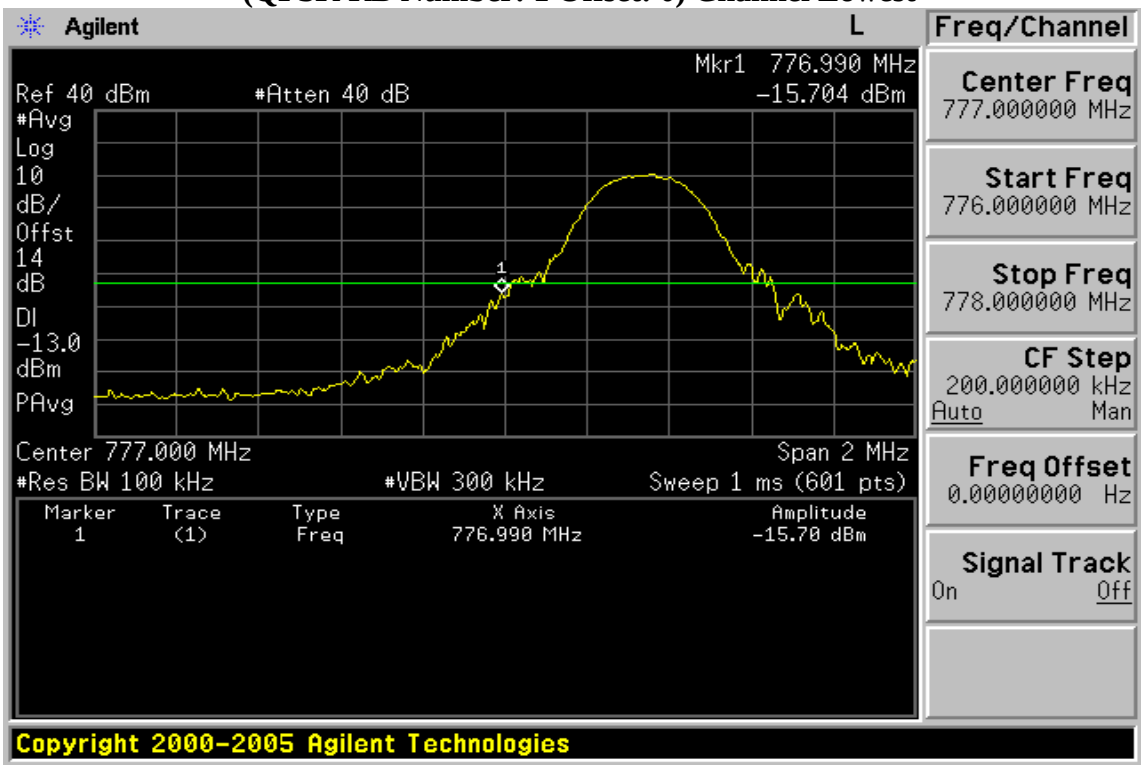
Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest



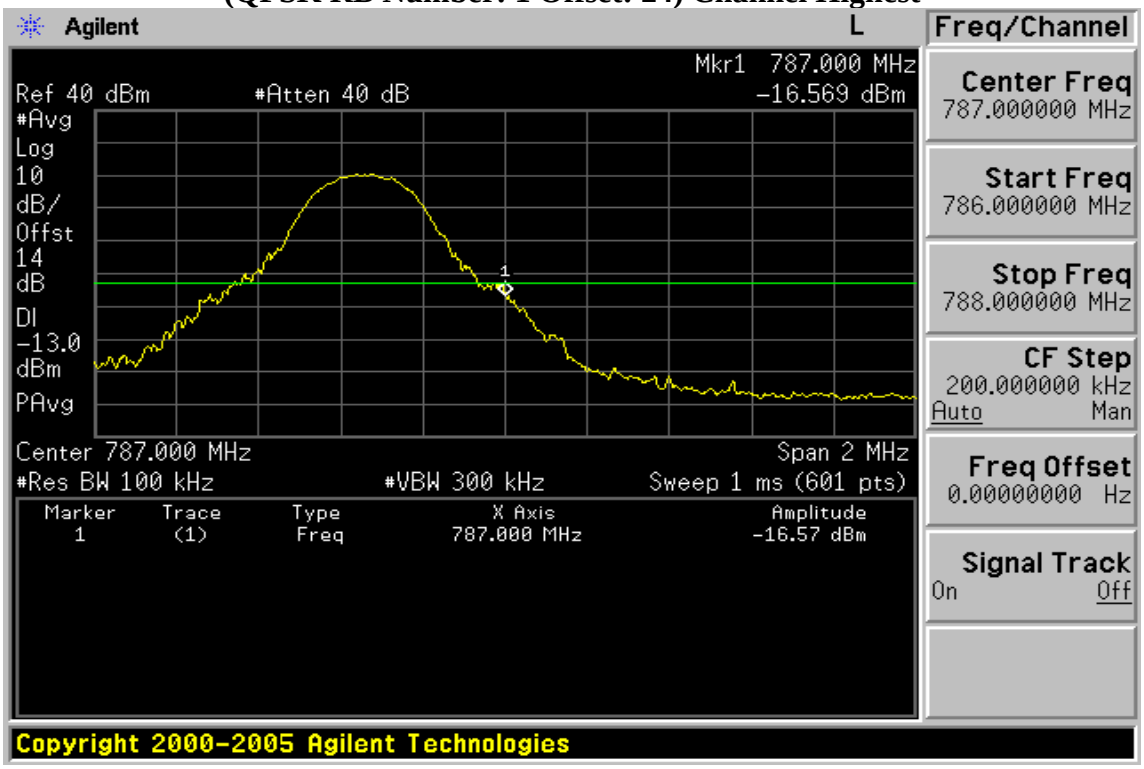


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Band edge emission at antenna terminals –5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest

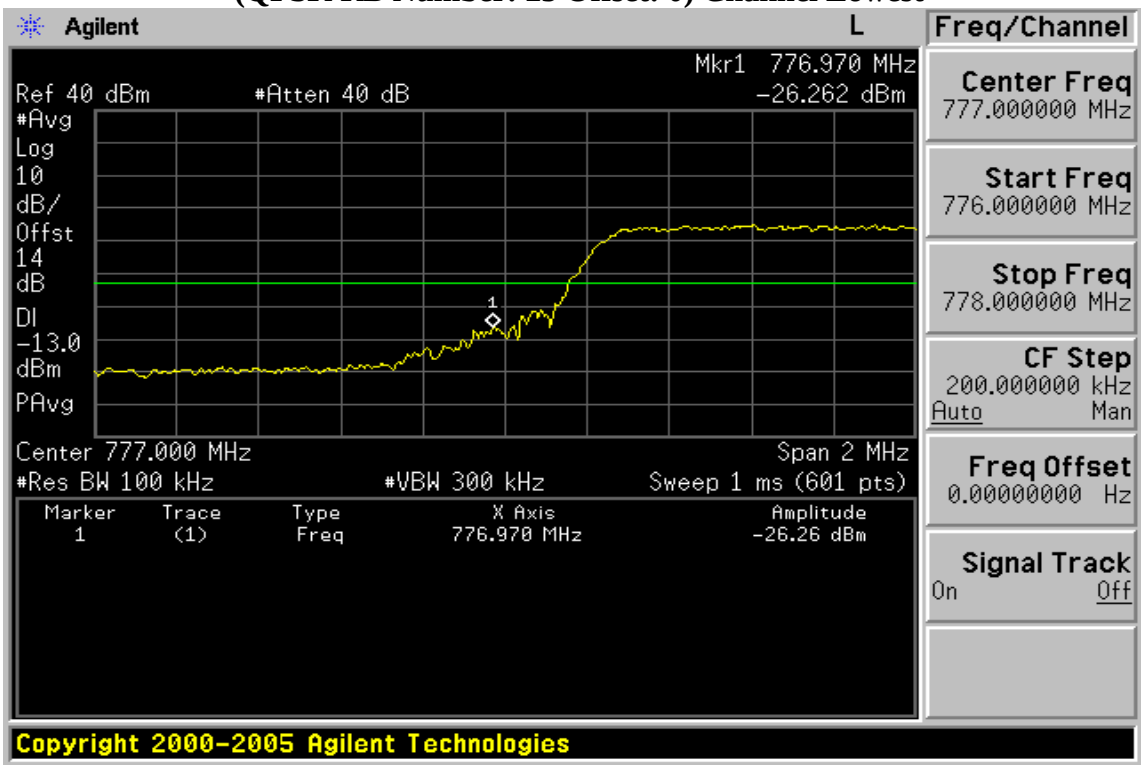


Band edge emission at antenna terminals –5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 24) Channel Highest

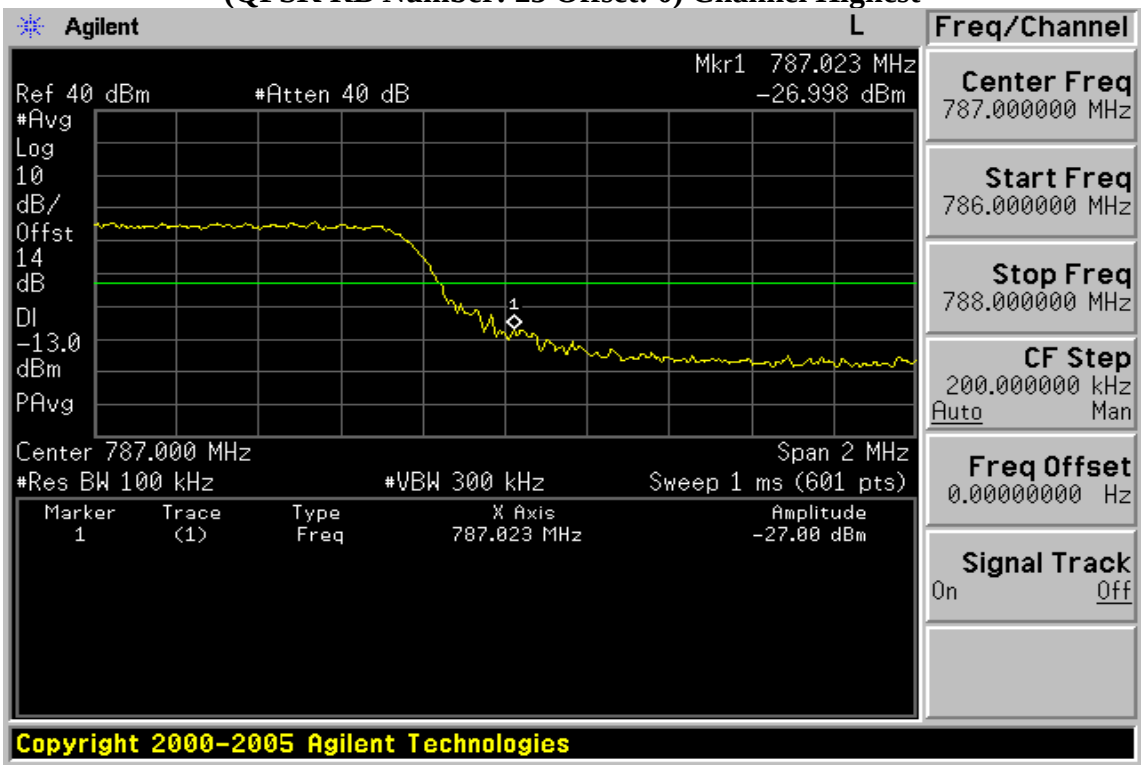


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Band edge emission at antenna terminals –5MHz BW LTE-Band 13
(QPSK RB Number: 25 Offset: 0) Channel Lowest

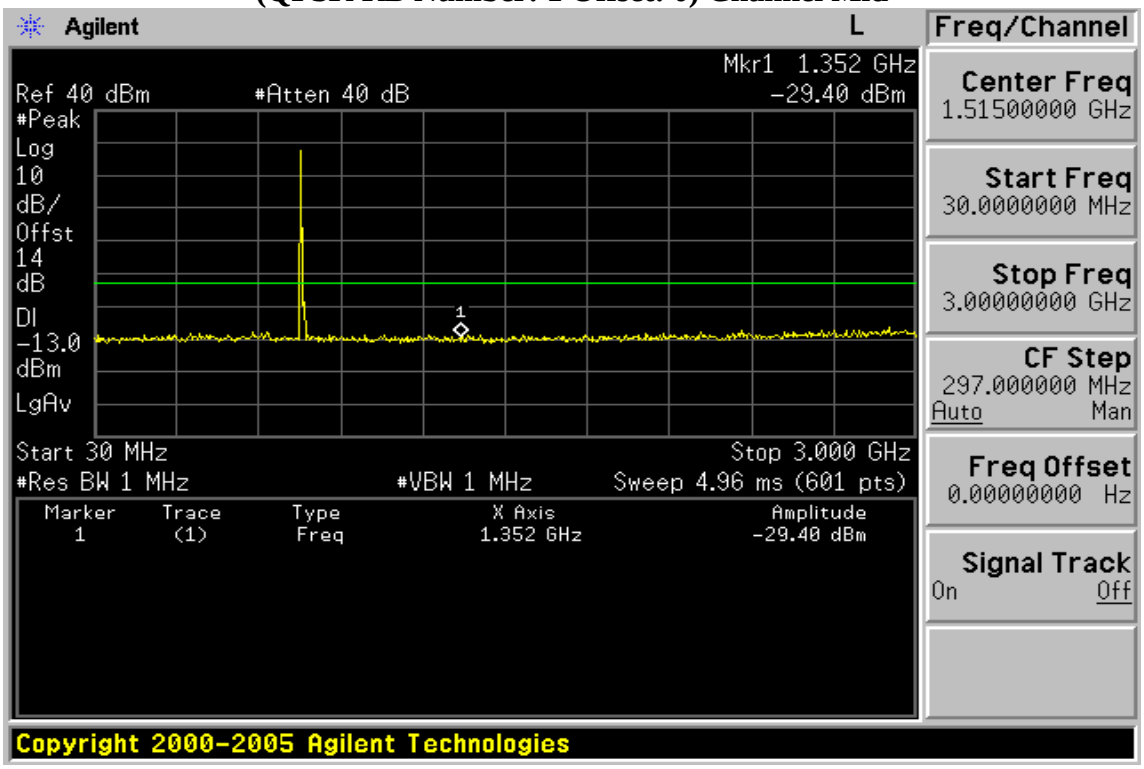


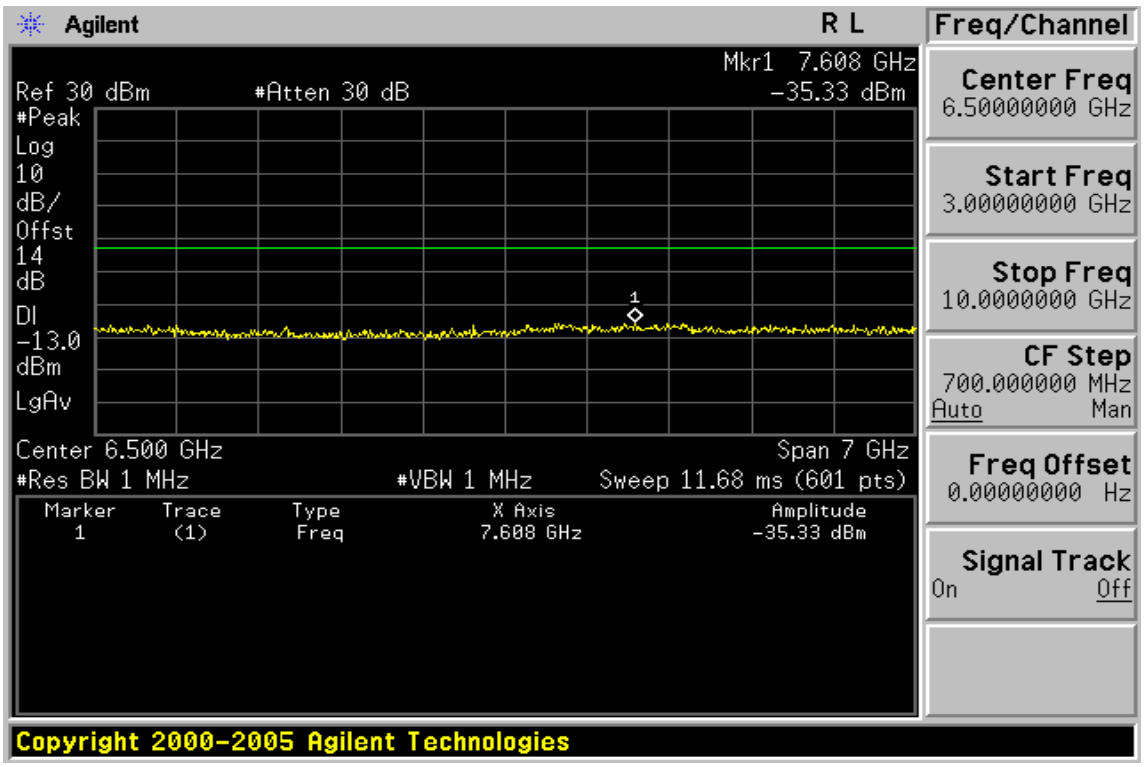
Band edge emission at antenna terminals –5MHz BW LTE-Band 13
(QPSK RB Number: 25 Offset: 0) Channel Highest



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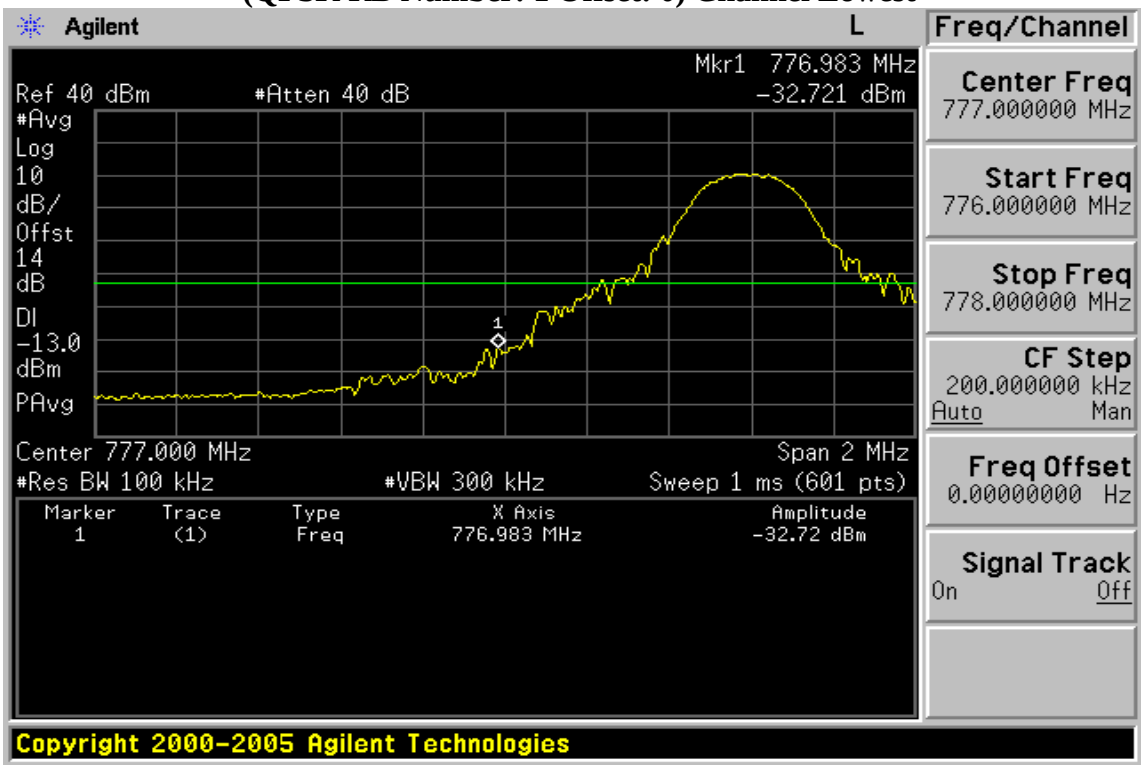
Out of Band emission at antenna terminals–10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Mid



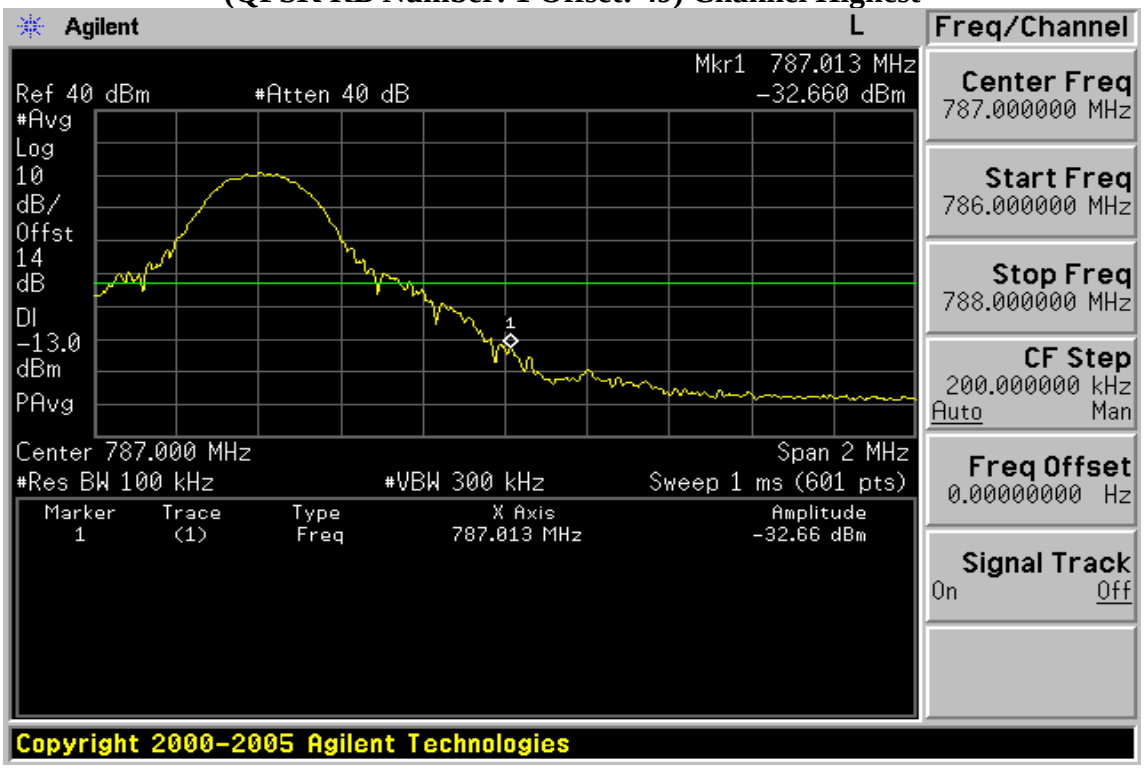


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Band edge emission at antenna terminals –10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest

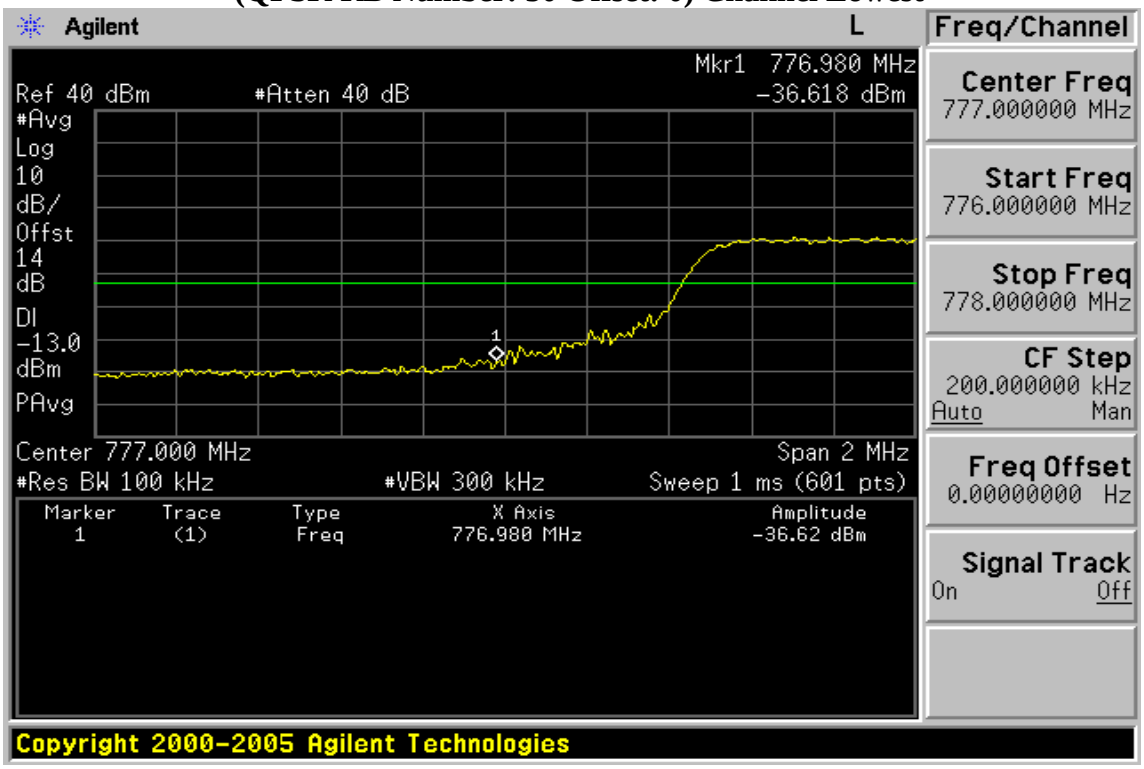


Band edge emission at antenna terminals –10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 49) Channel Highest



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

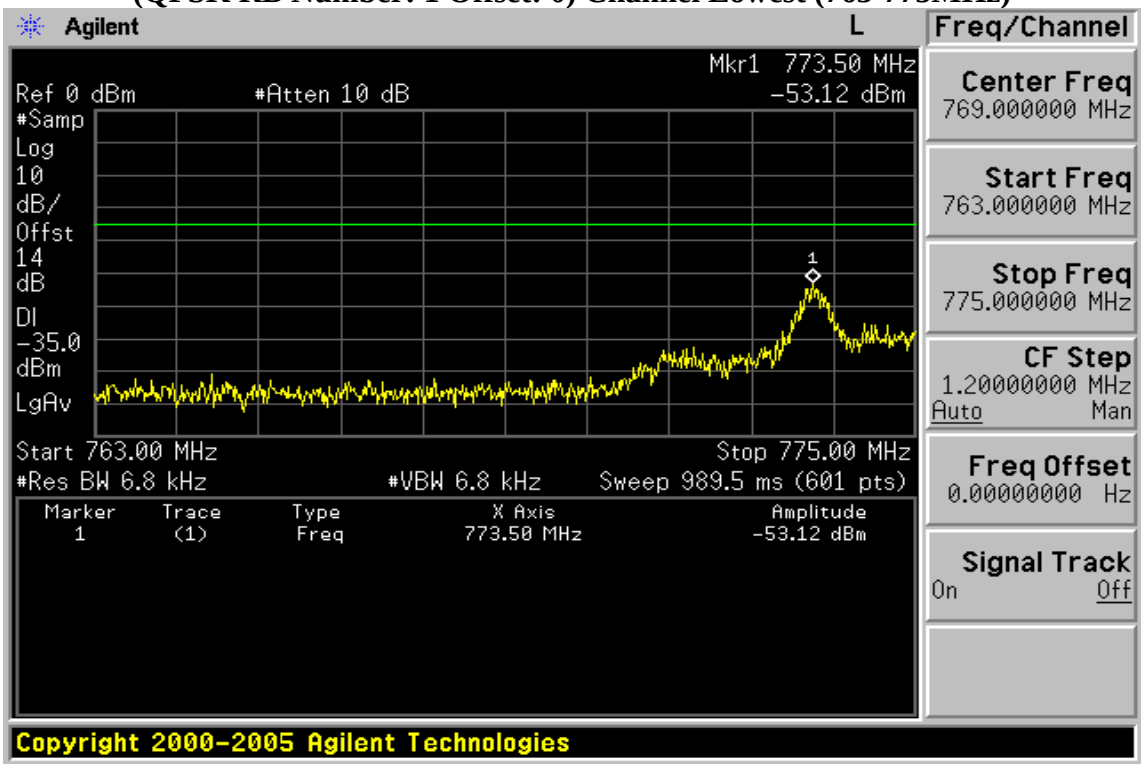


Band edge emission at antenna terminals –10MHz BW LTE-Band 13
(QPSK RB Number: 50 Offset: 0) Channel Highest

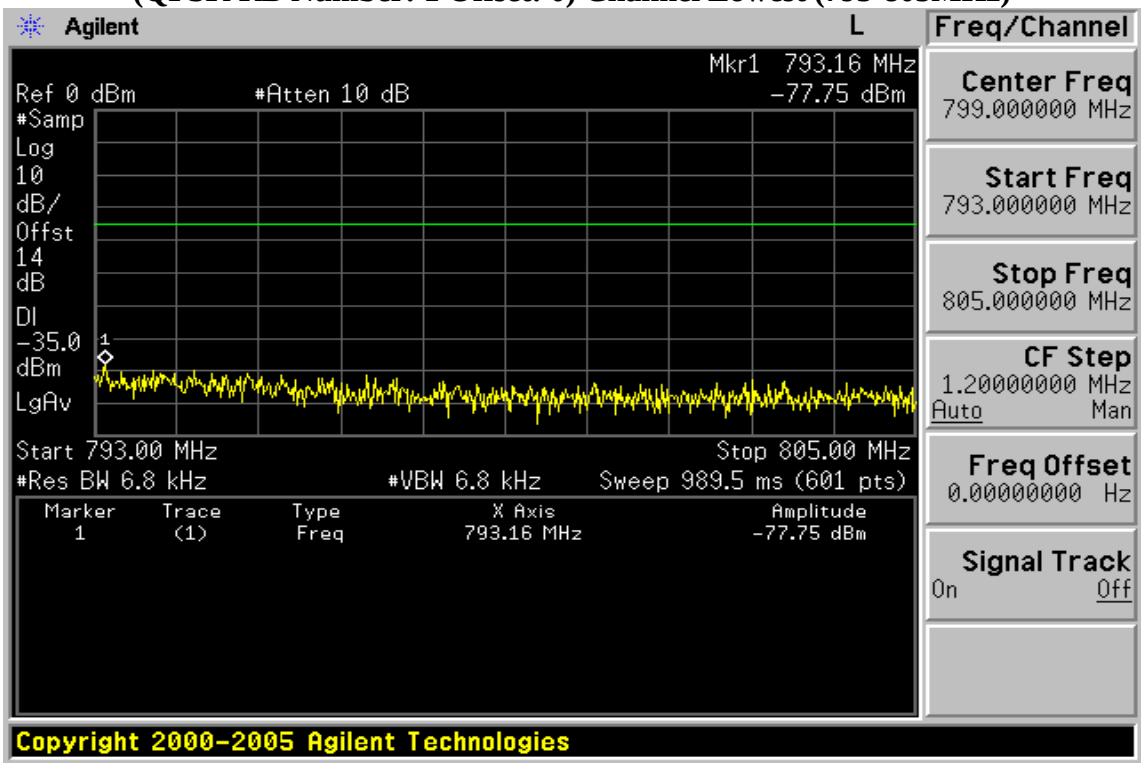


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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)

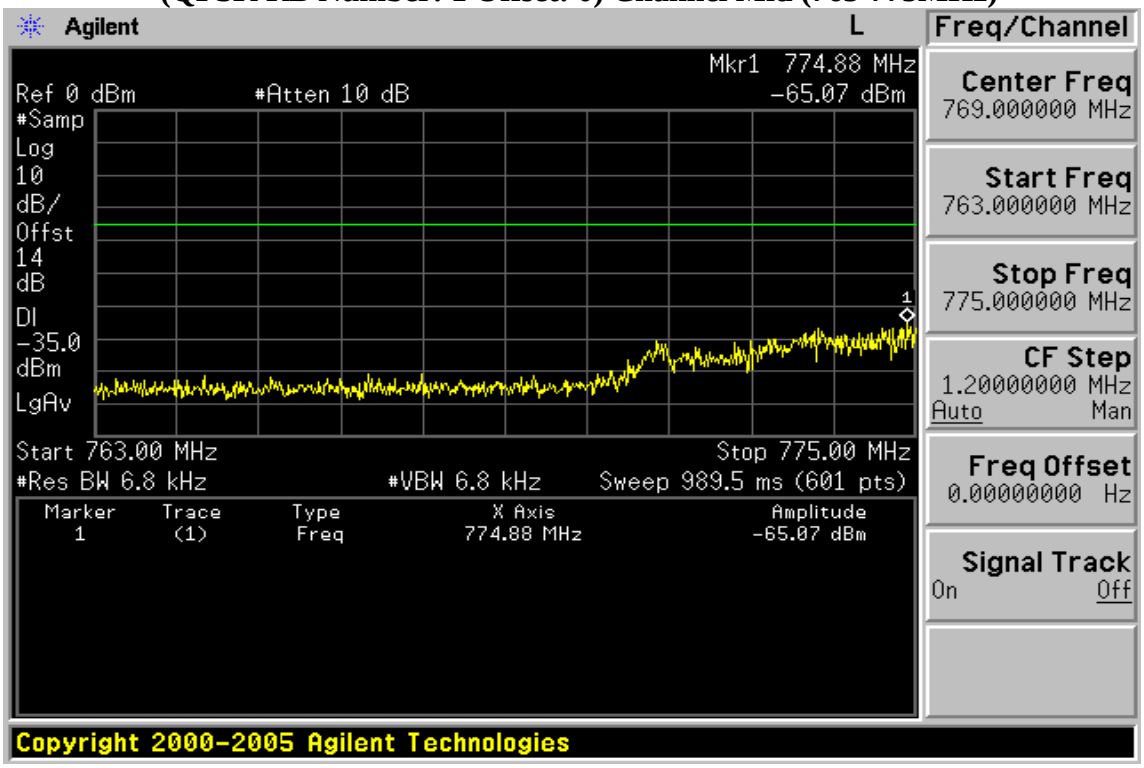


Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)

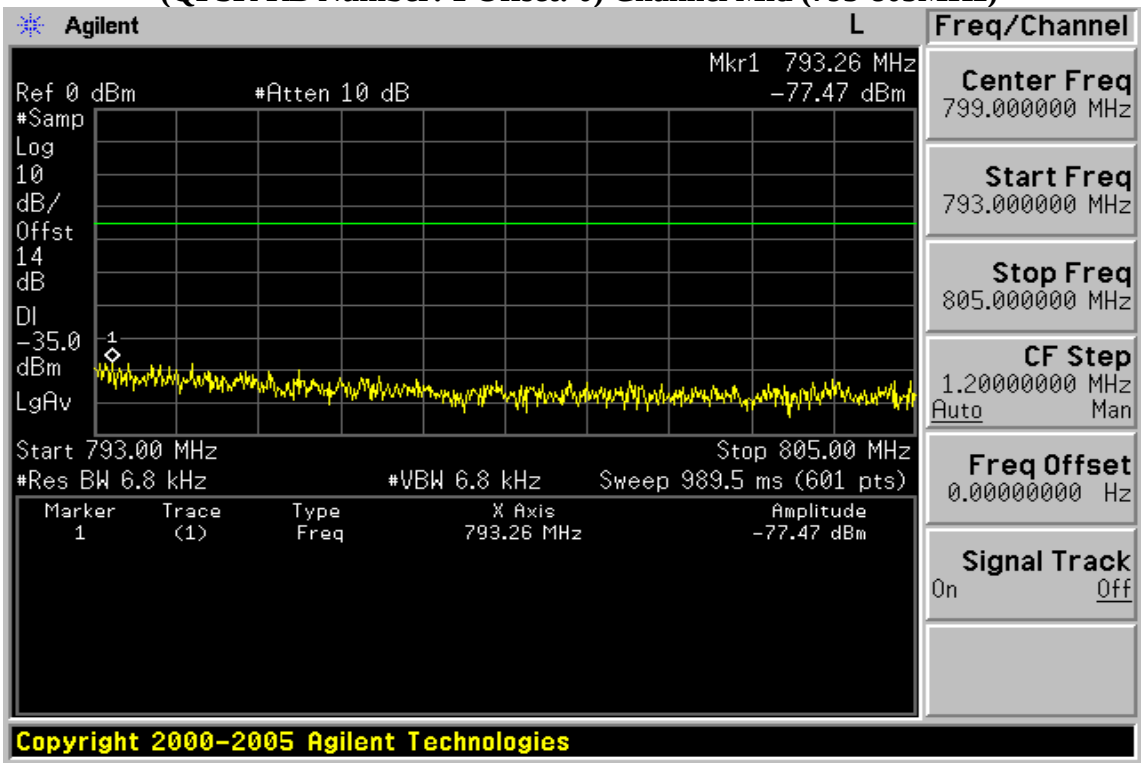


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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)

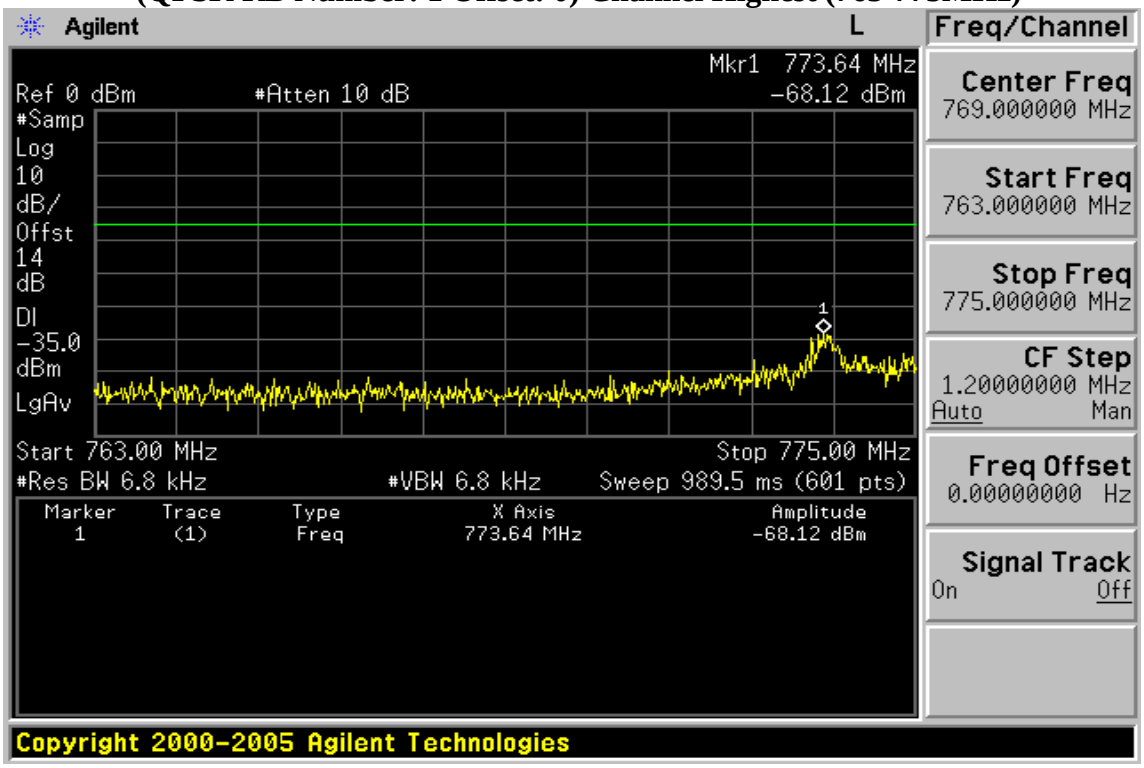


Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)

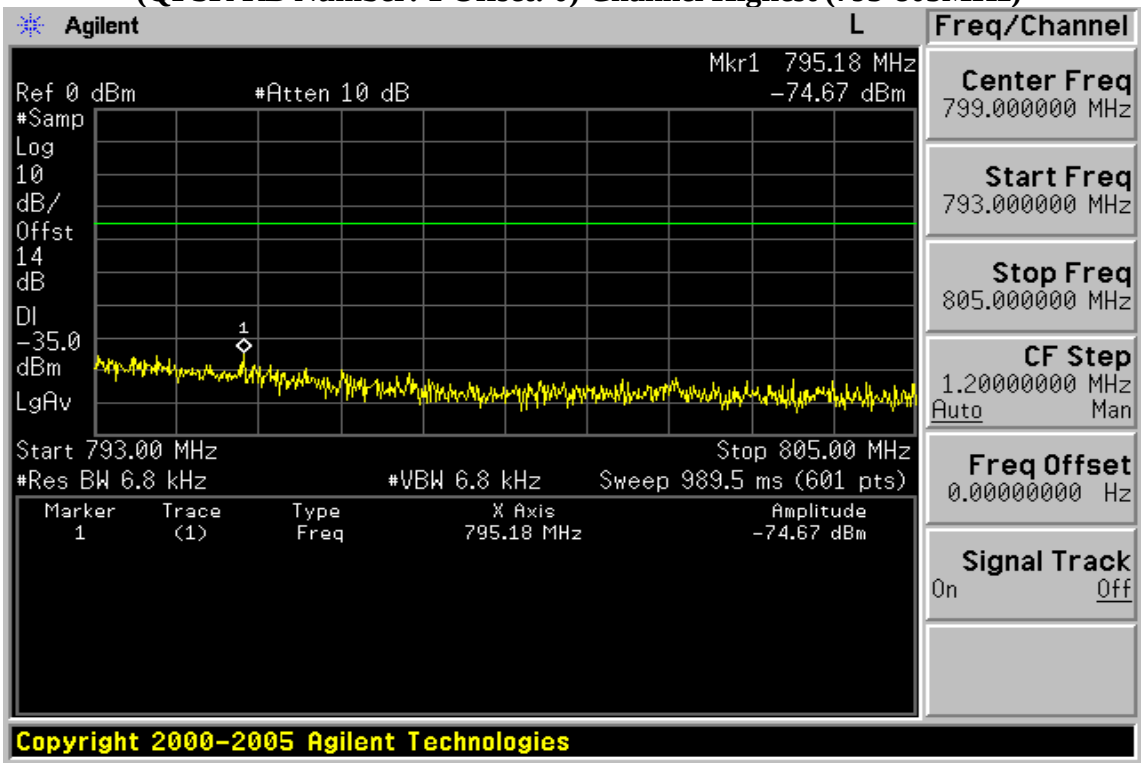


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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)

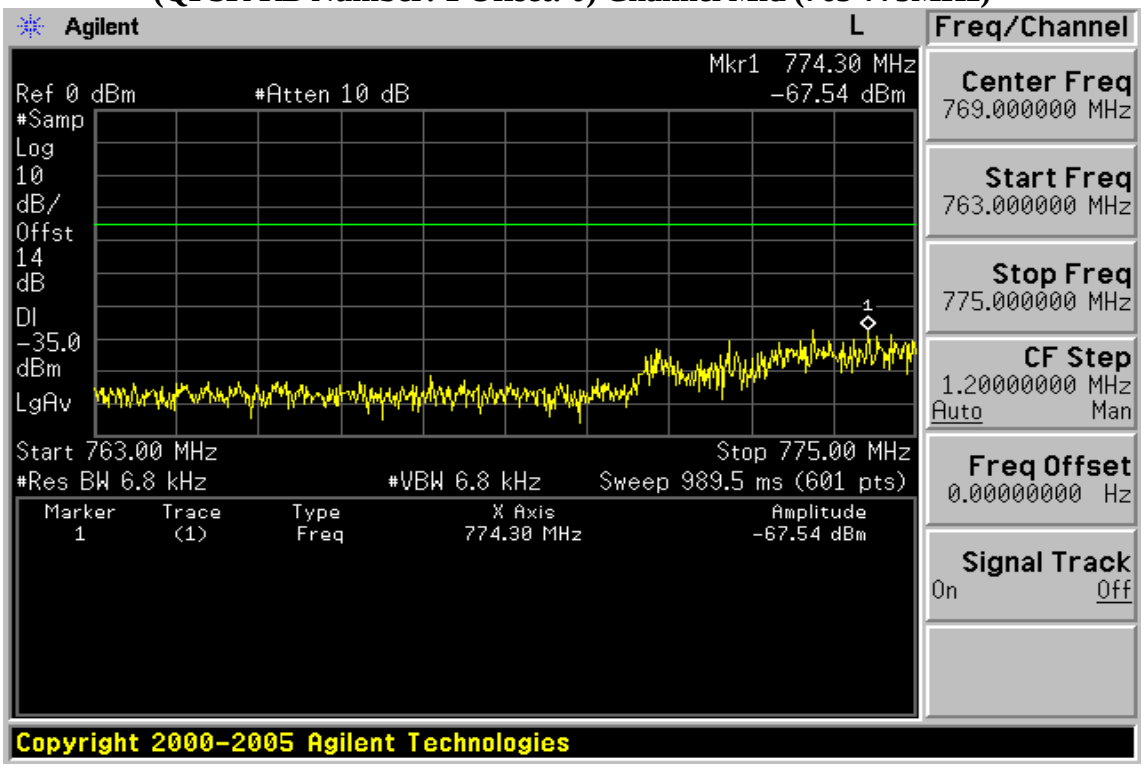


Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)

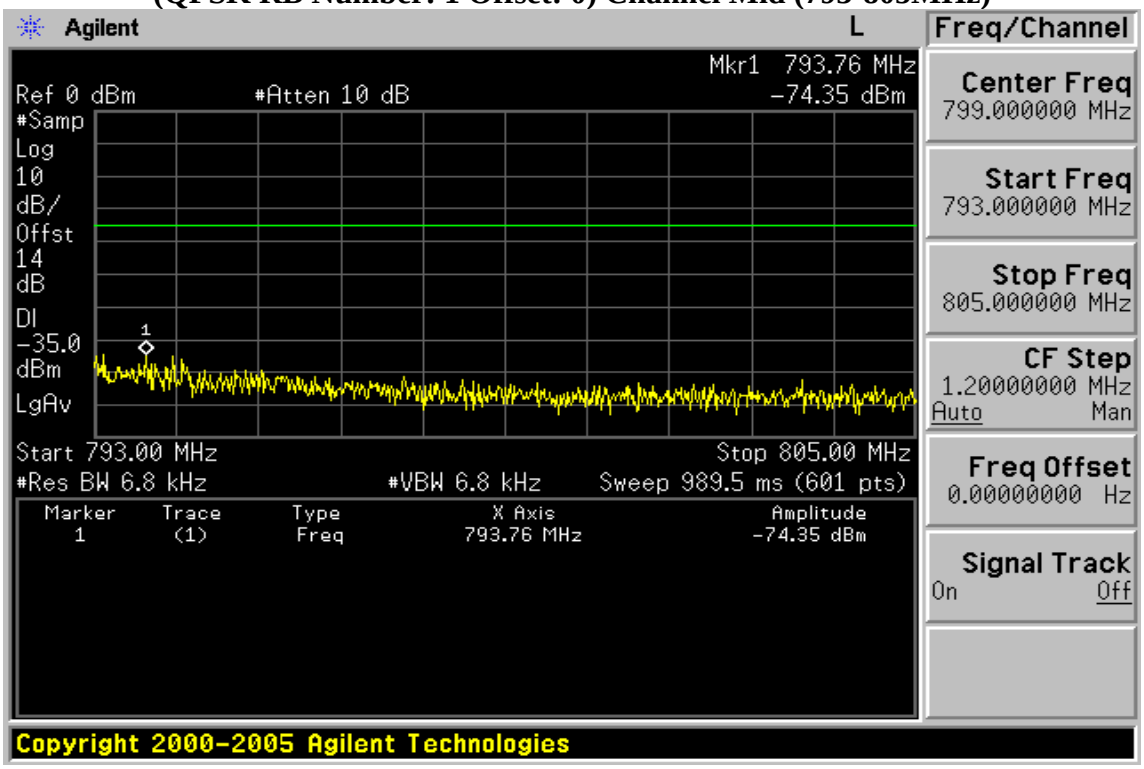


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)

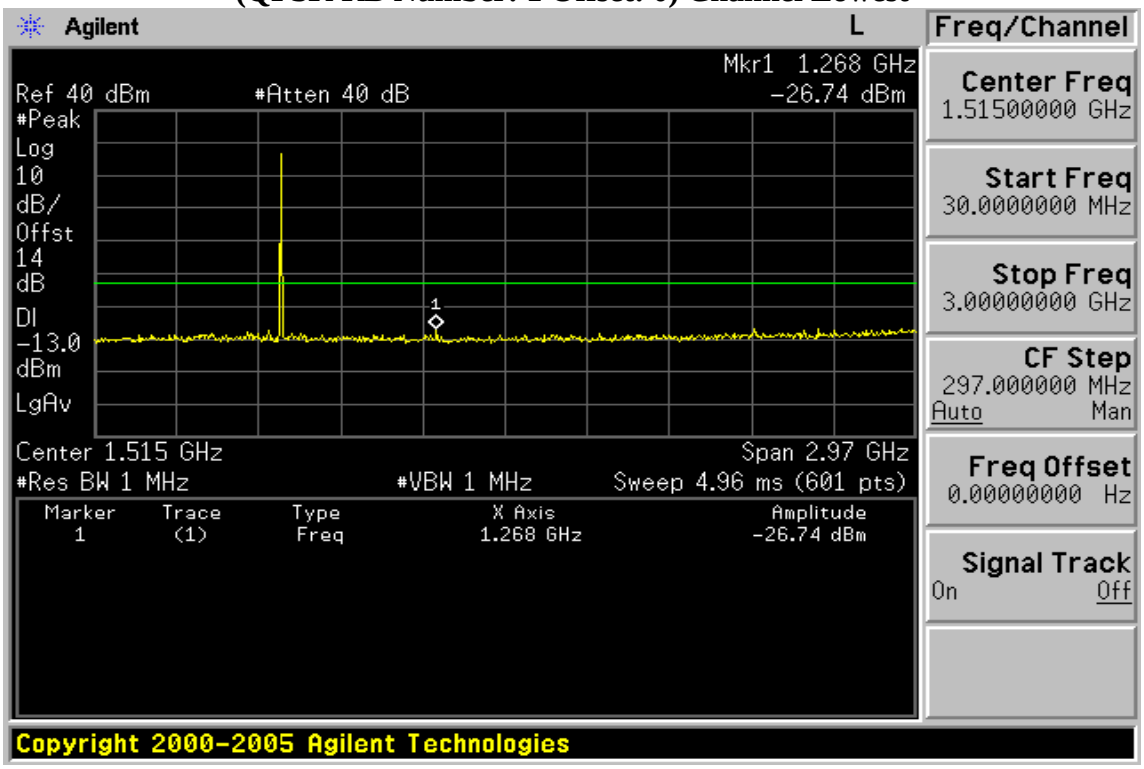


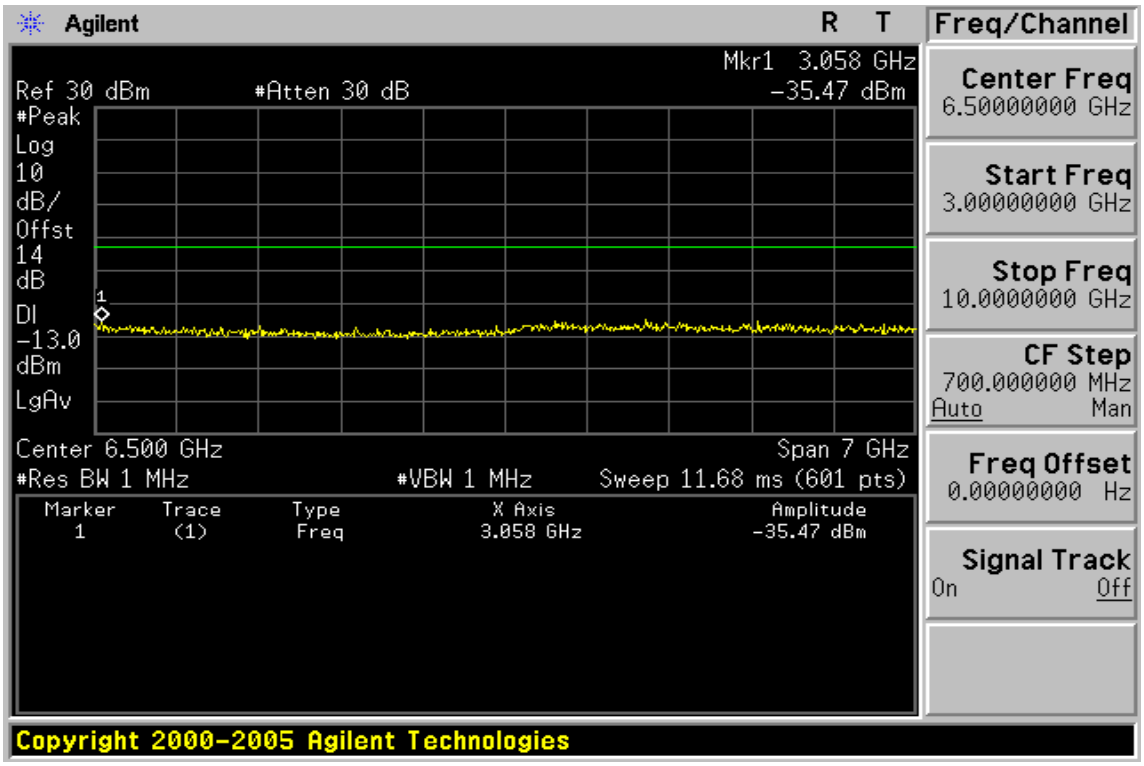
Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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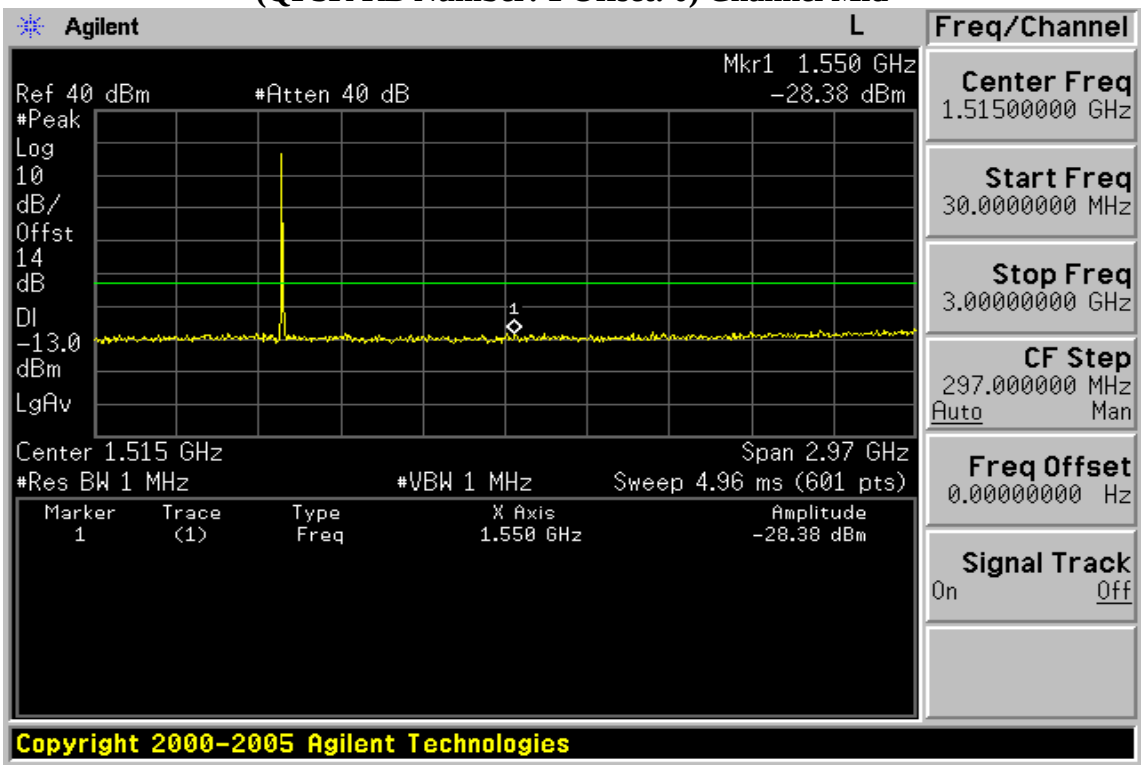
Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest

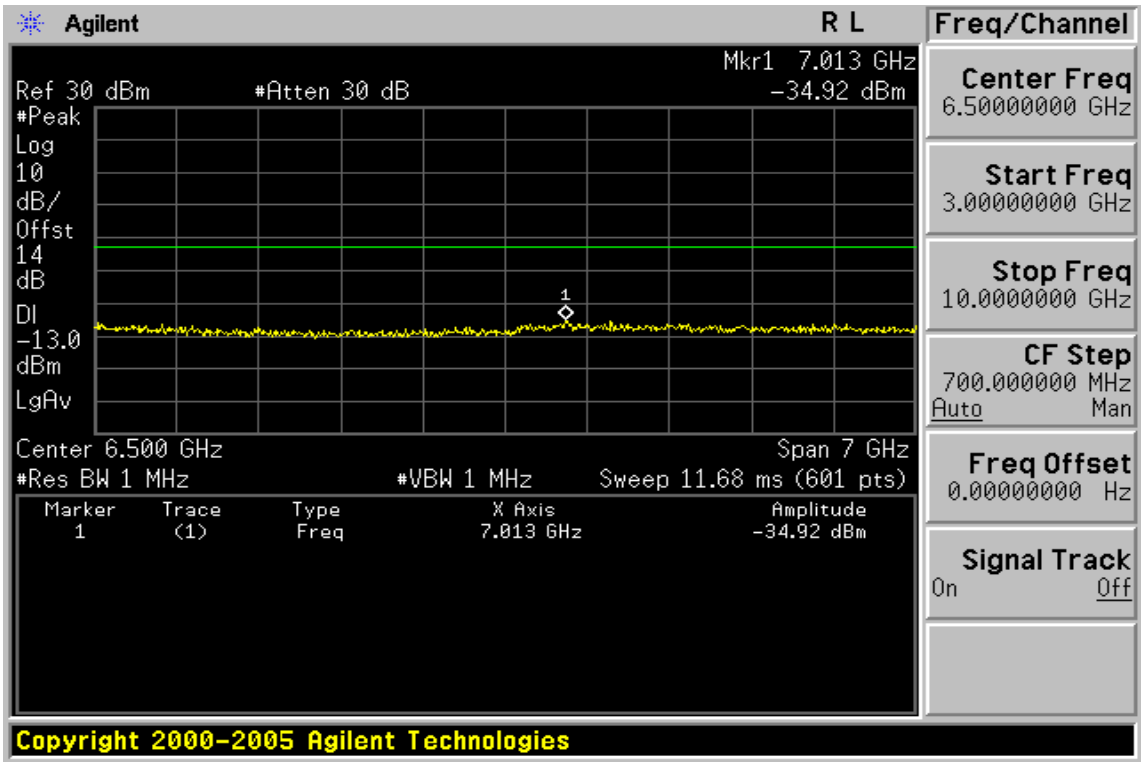




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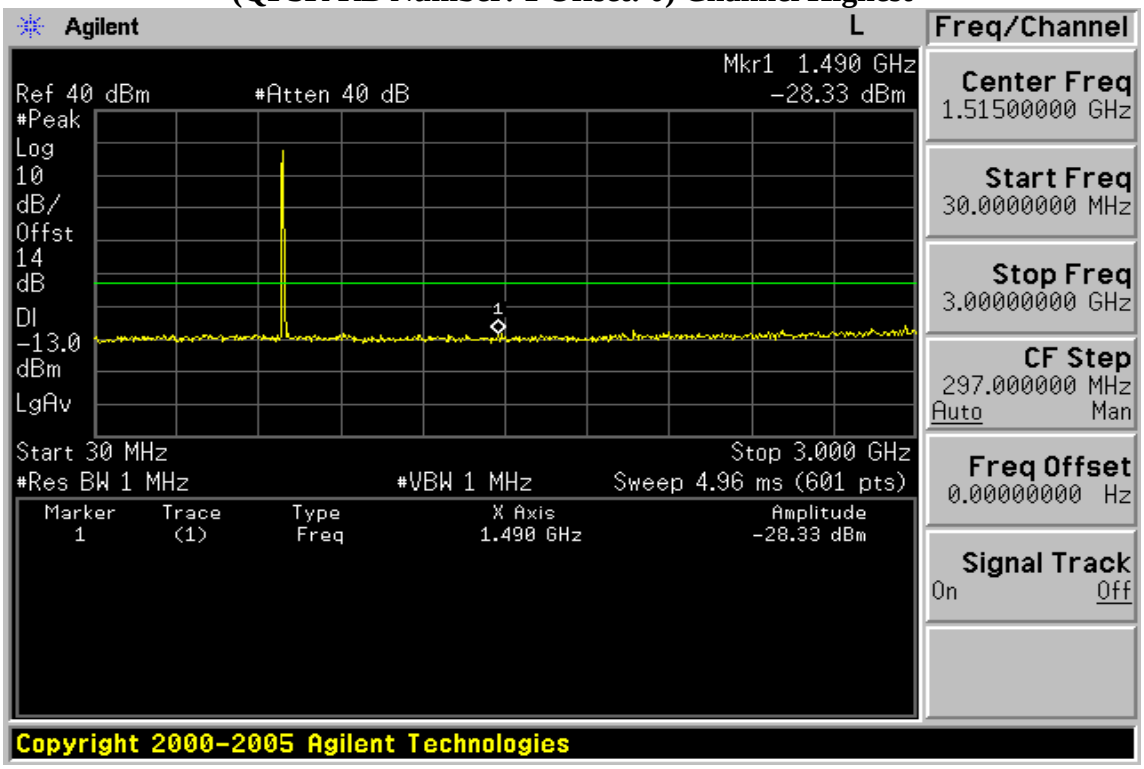
Out of Band emission at antenna terminals–5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Mid

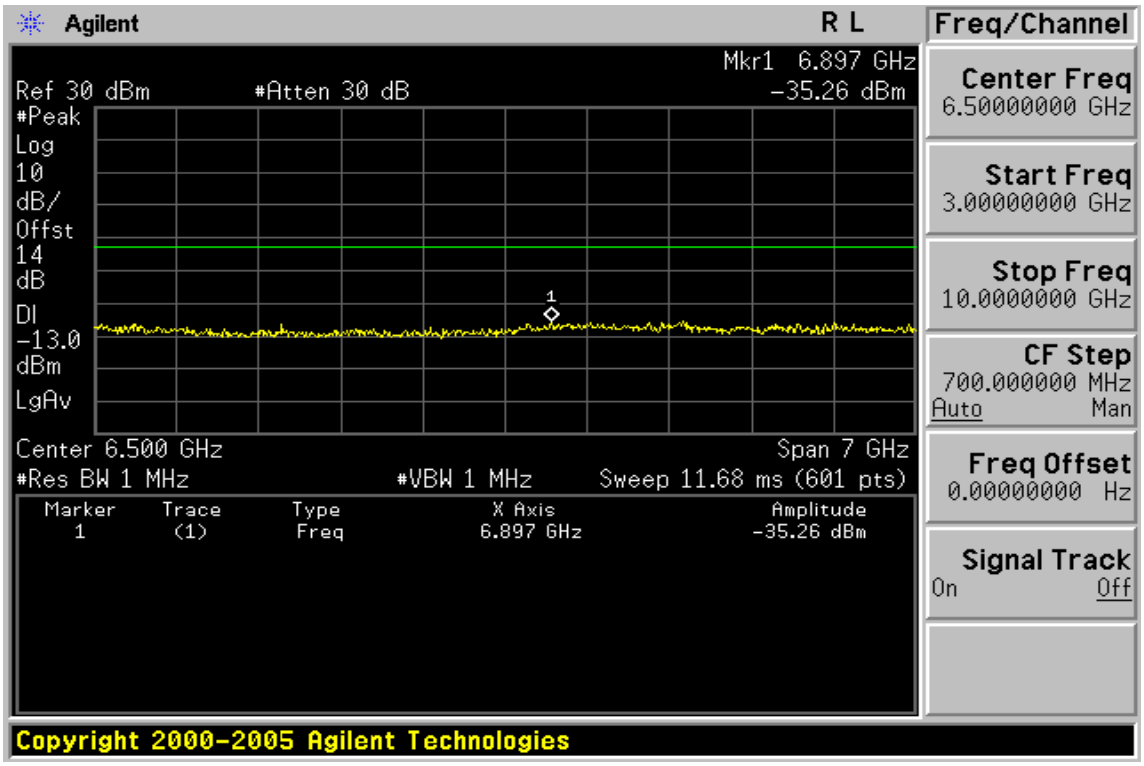




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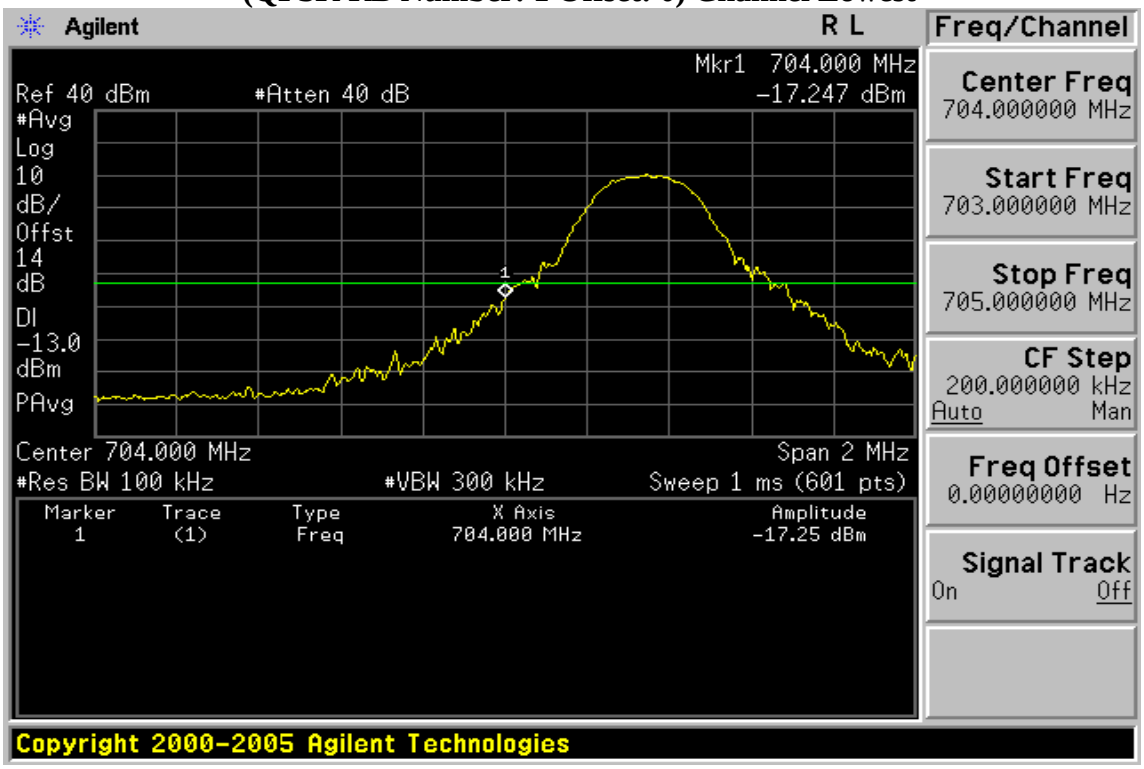
Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



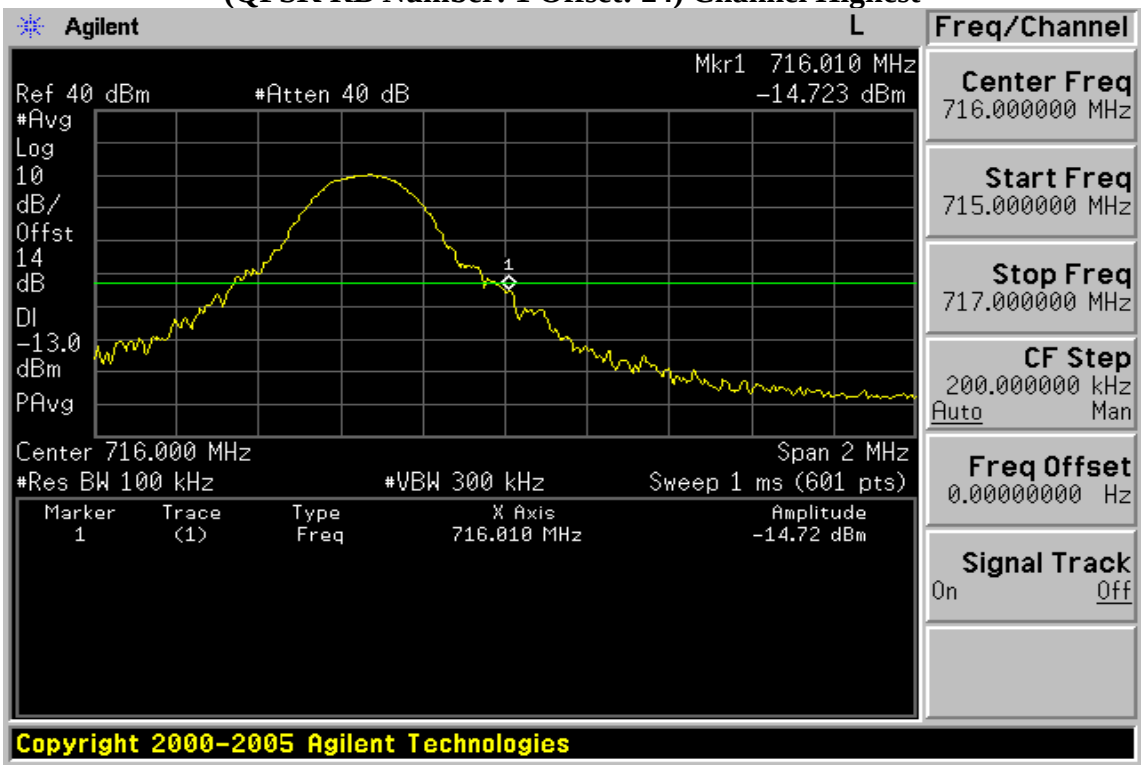


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Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest

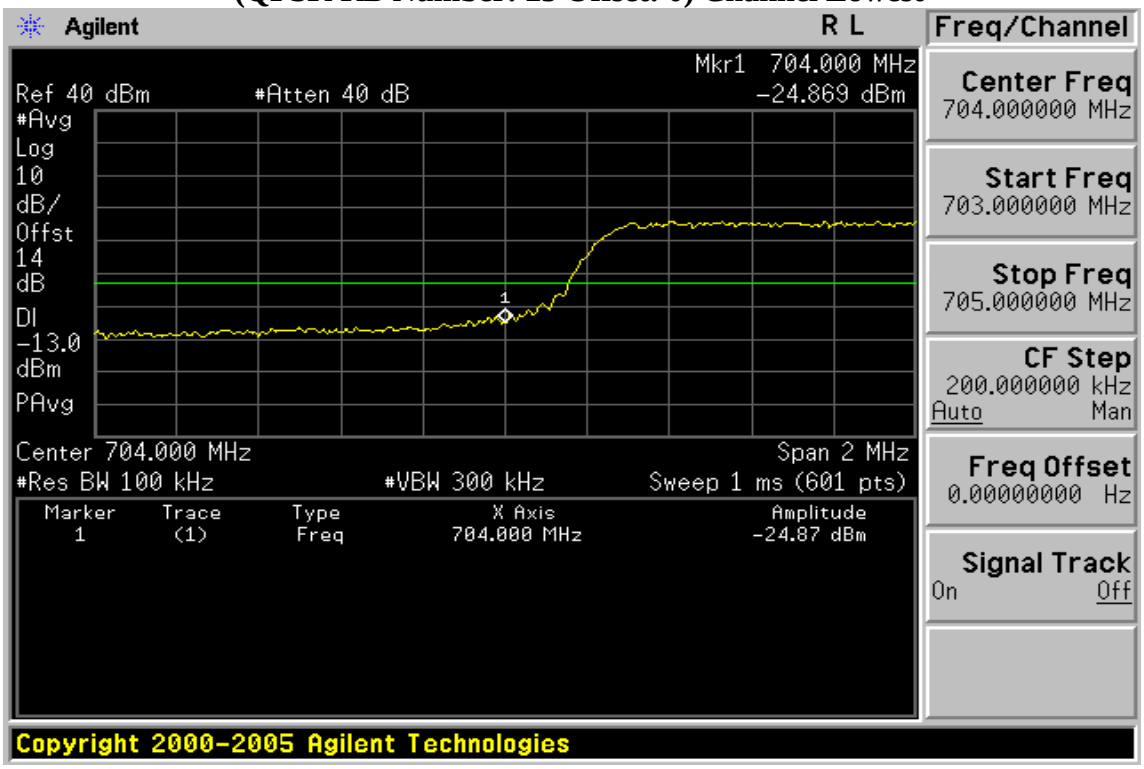


Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 24) Channel Highest



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

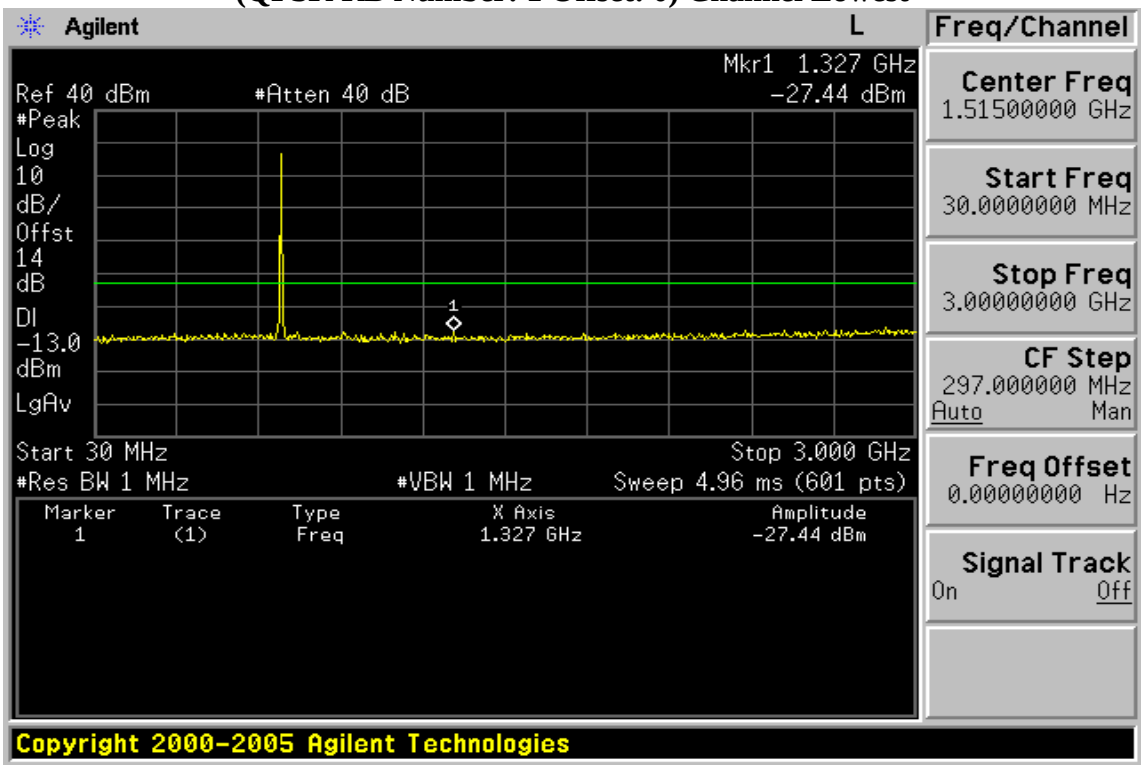


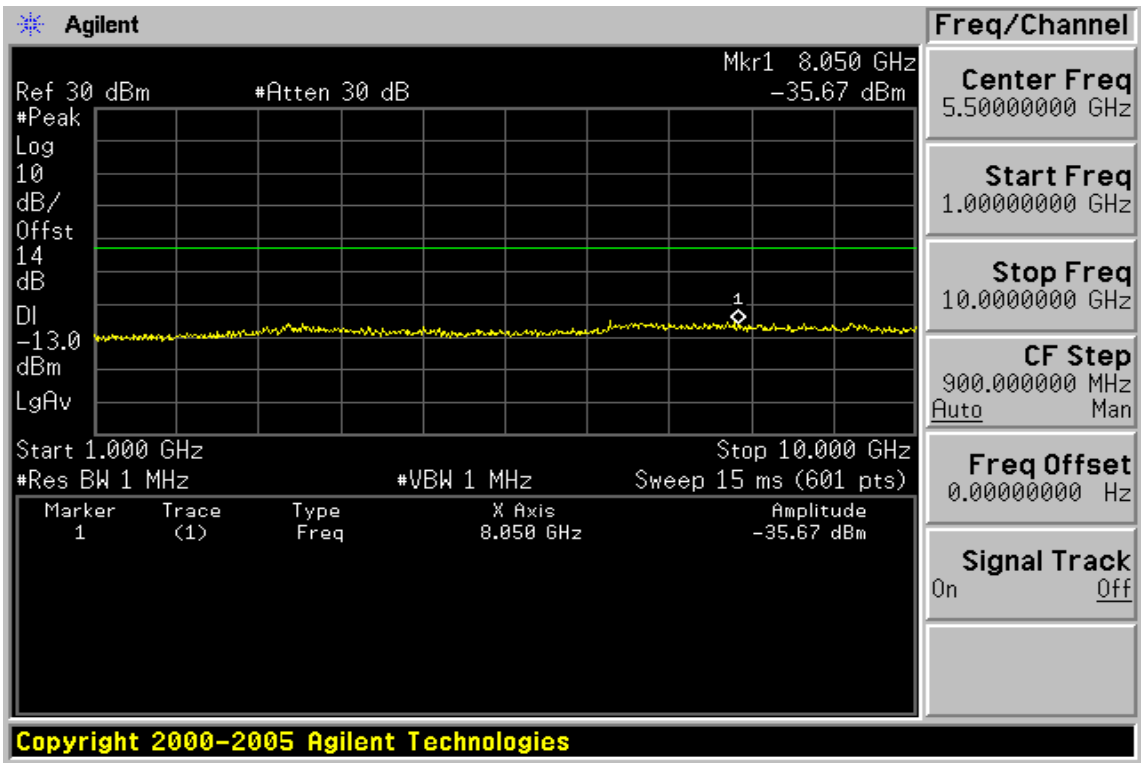
Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 25 Offset: 0) Channel Highest



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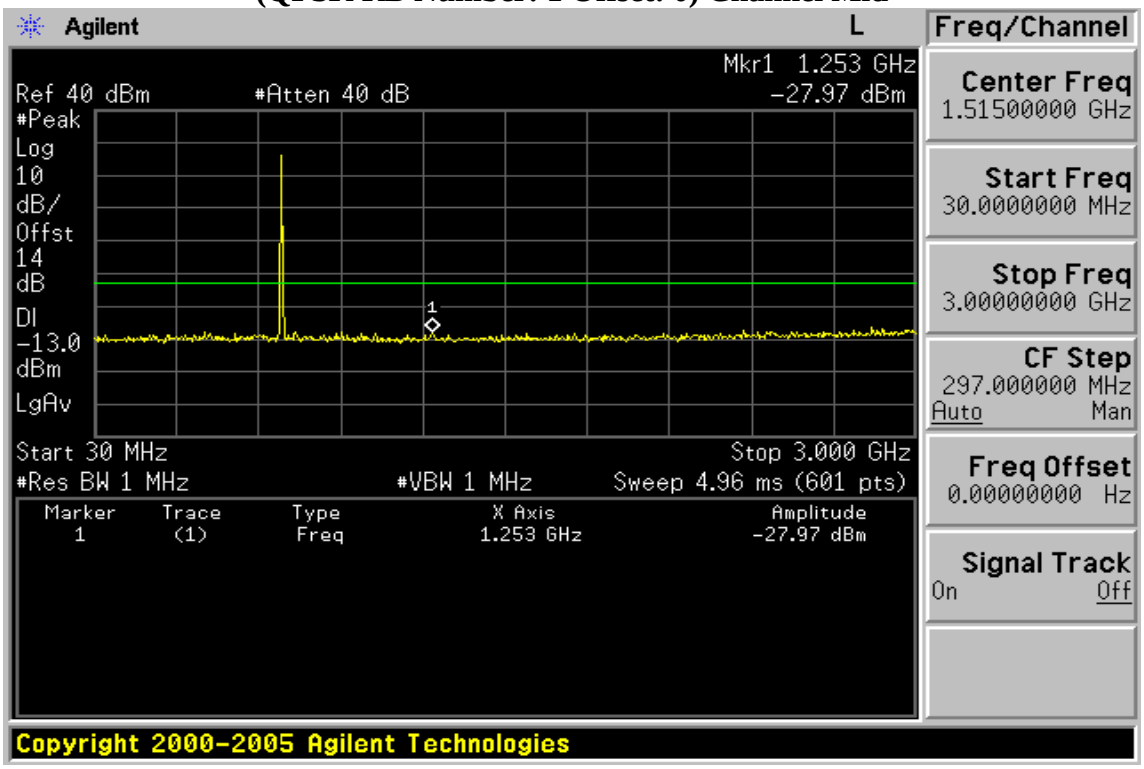
Out of Band emission at antenna terminals–10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest

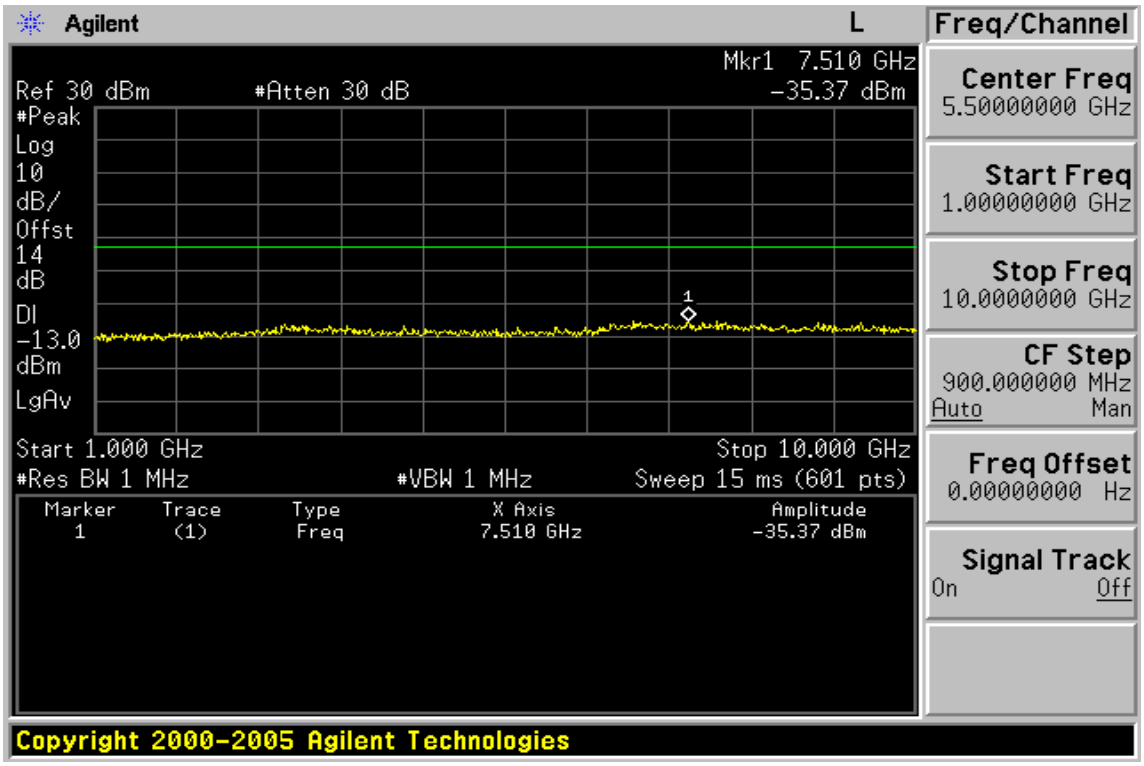




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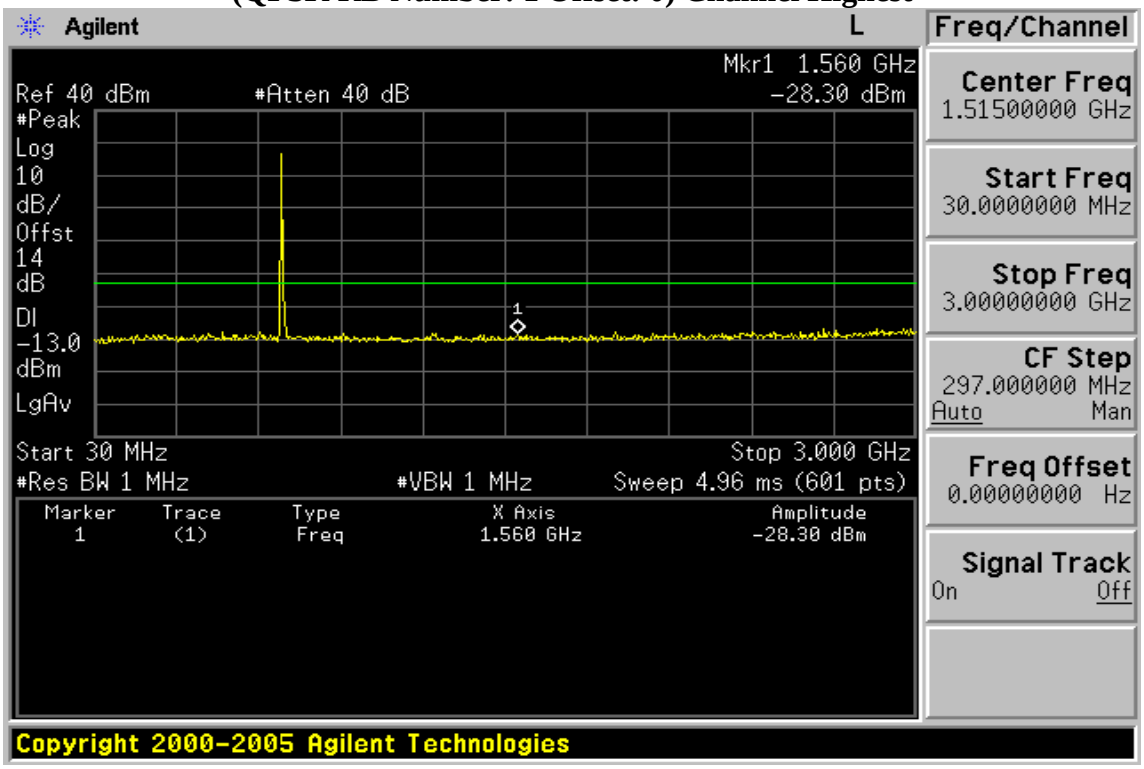
Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid

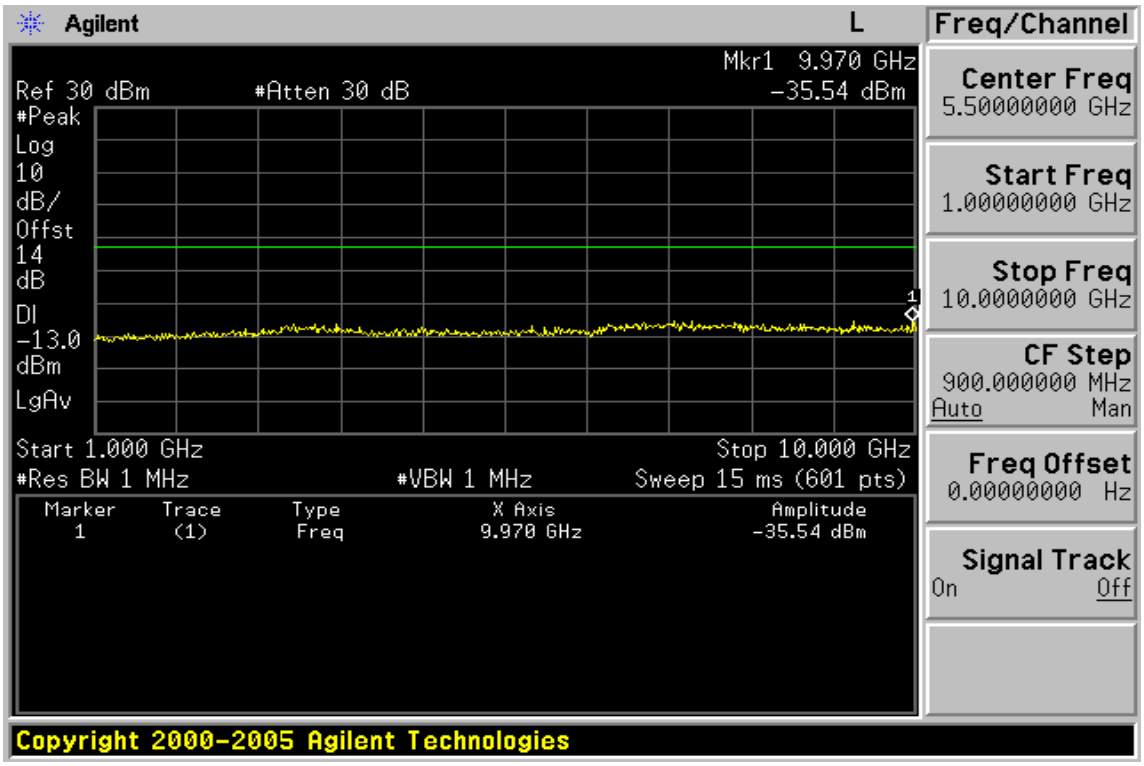




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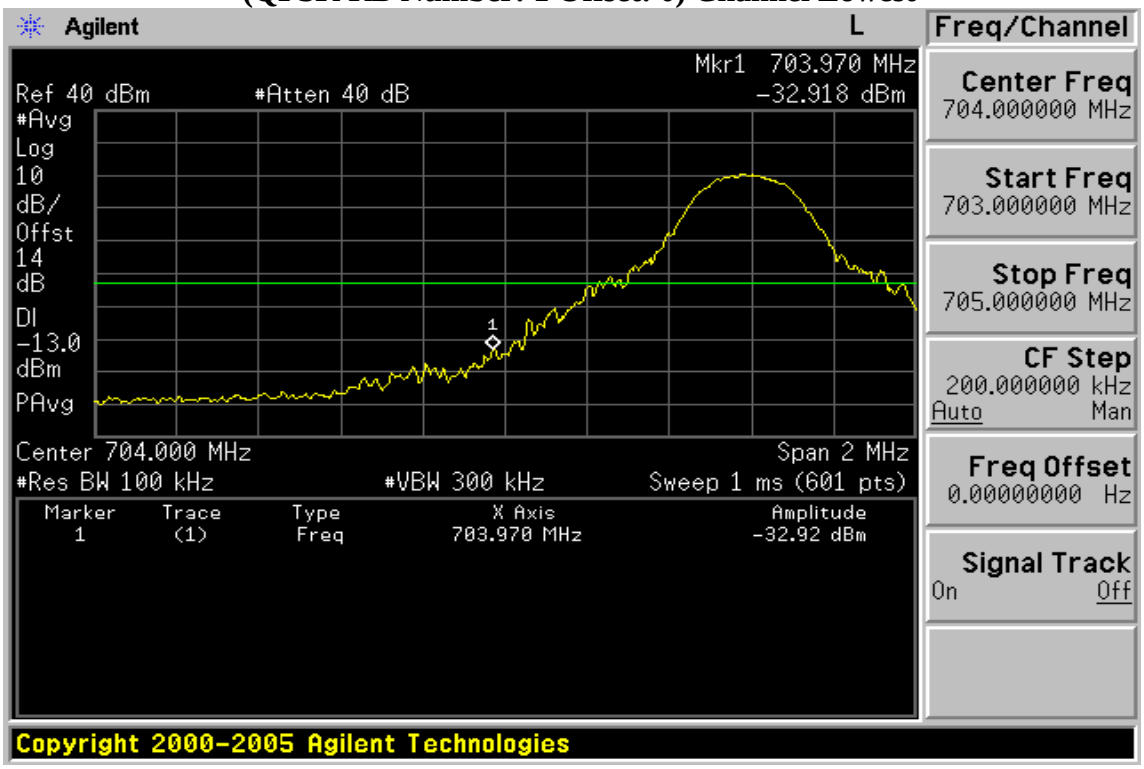
Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



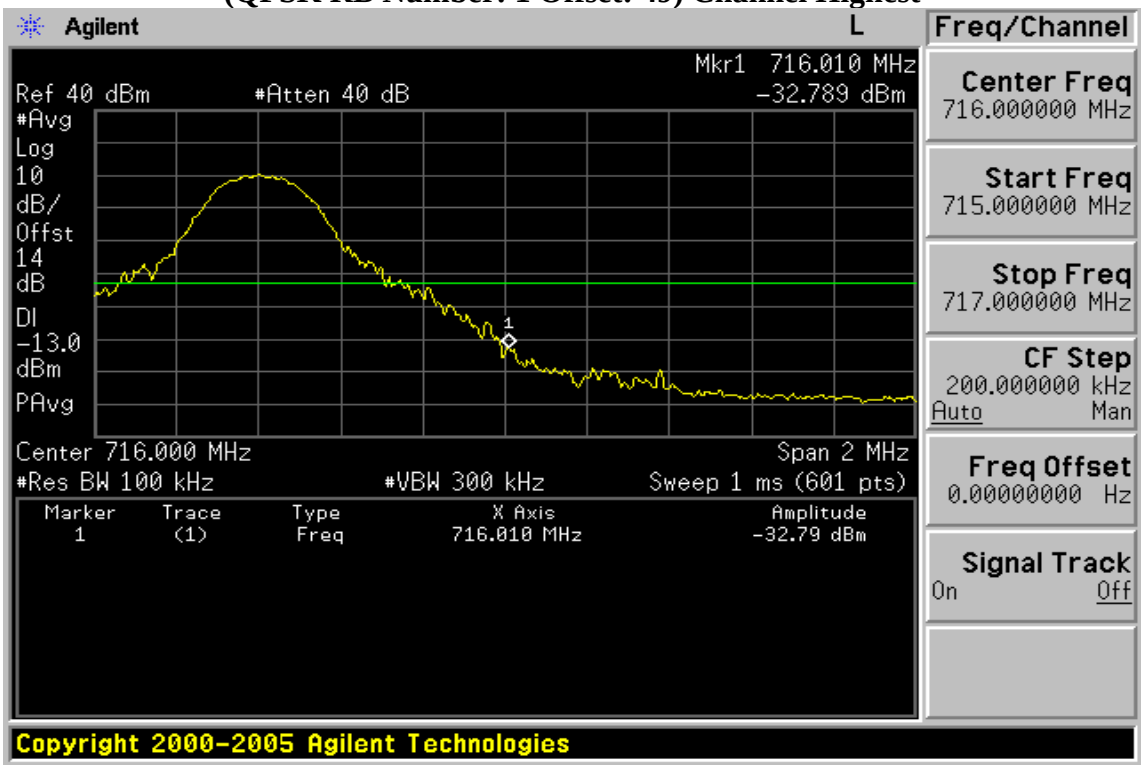


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Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest

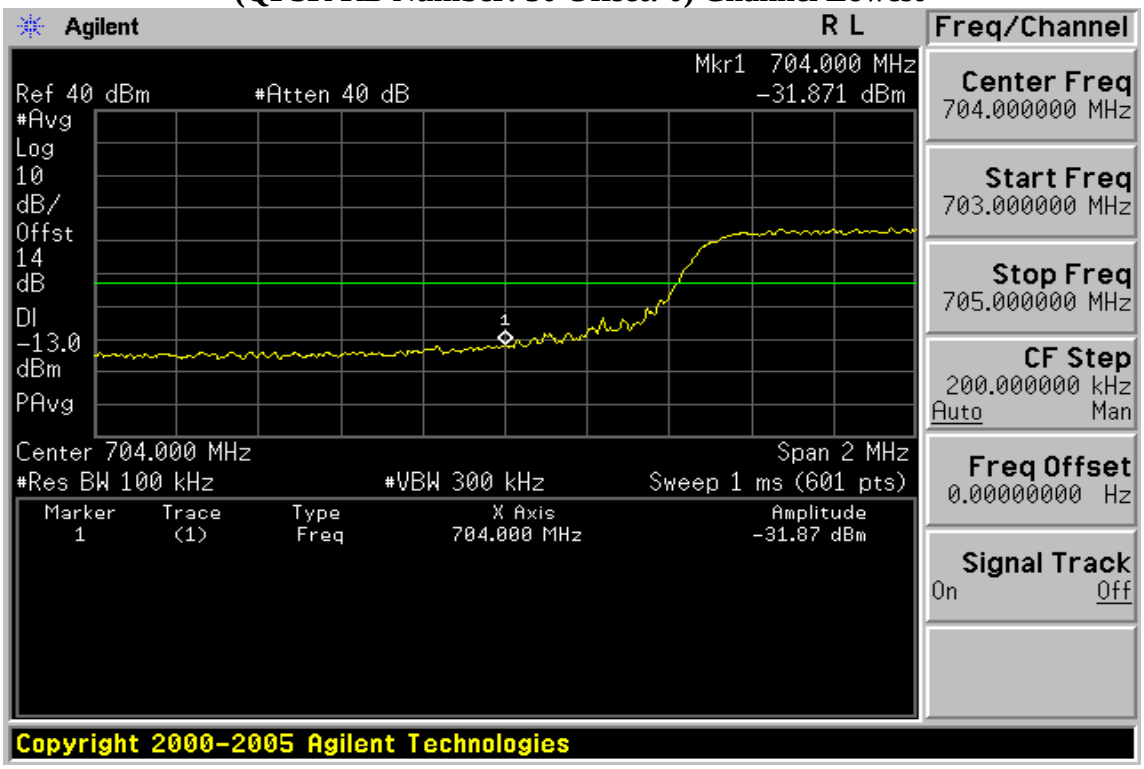


Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 49) Channel Highest



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

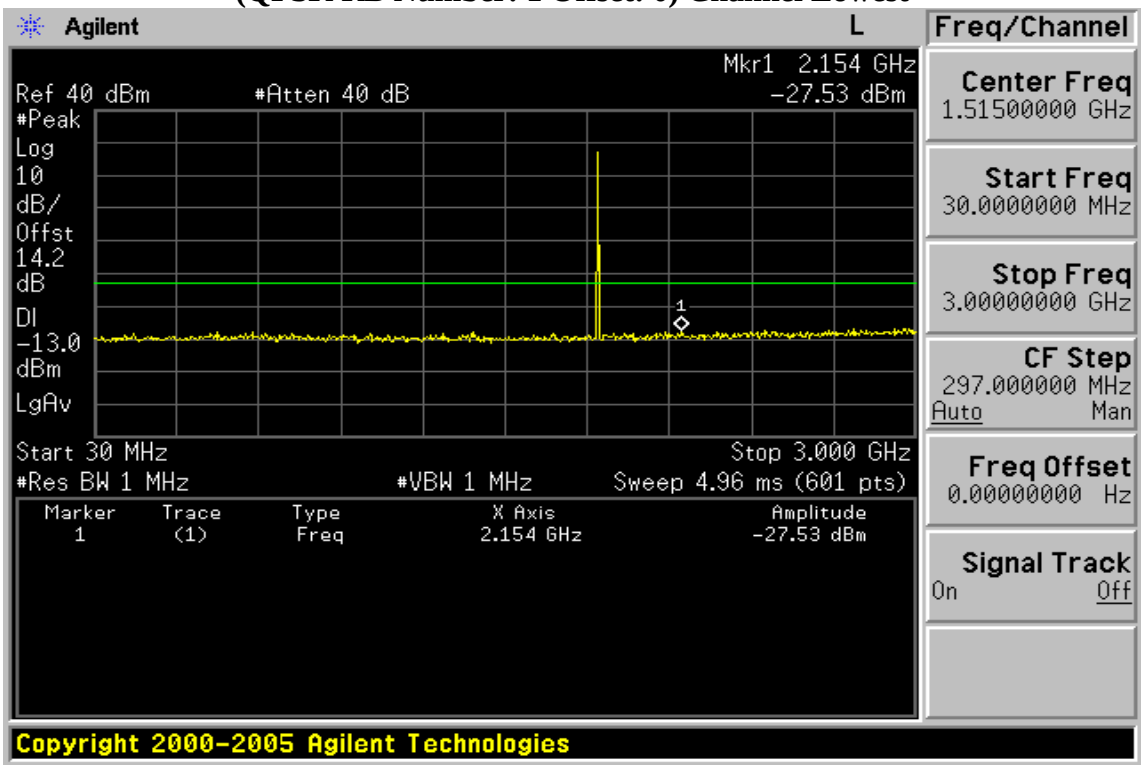


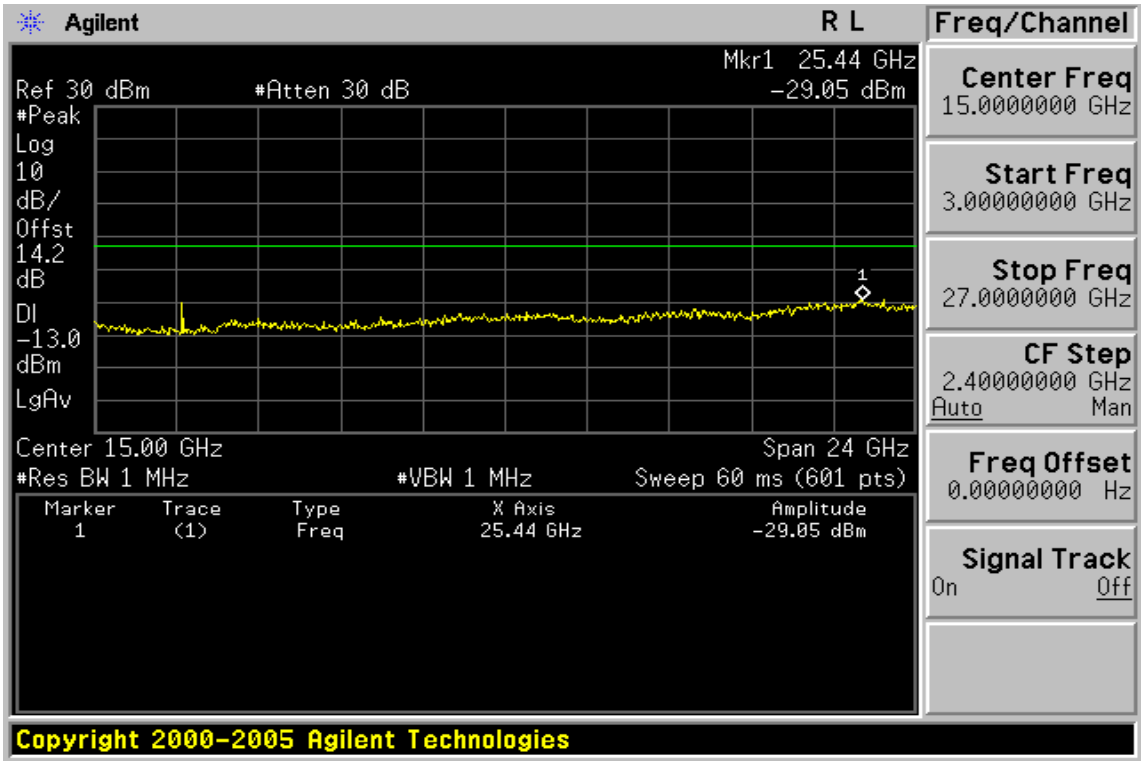
Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 50 Offset: 0) Channel Highest



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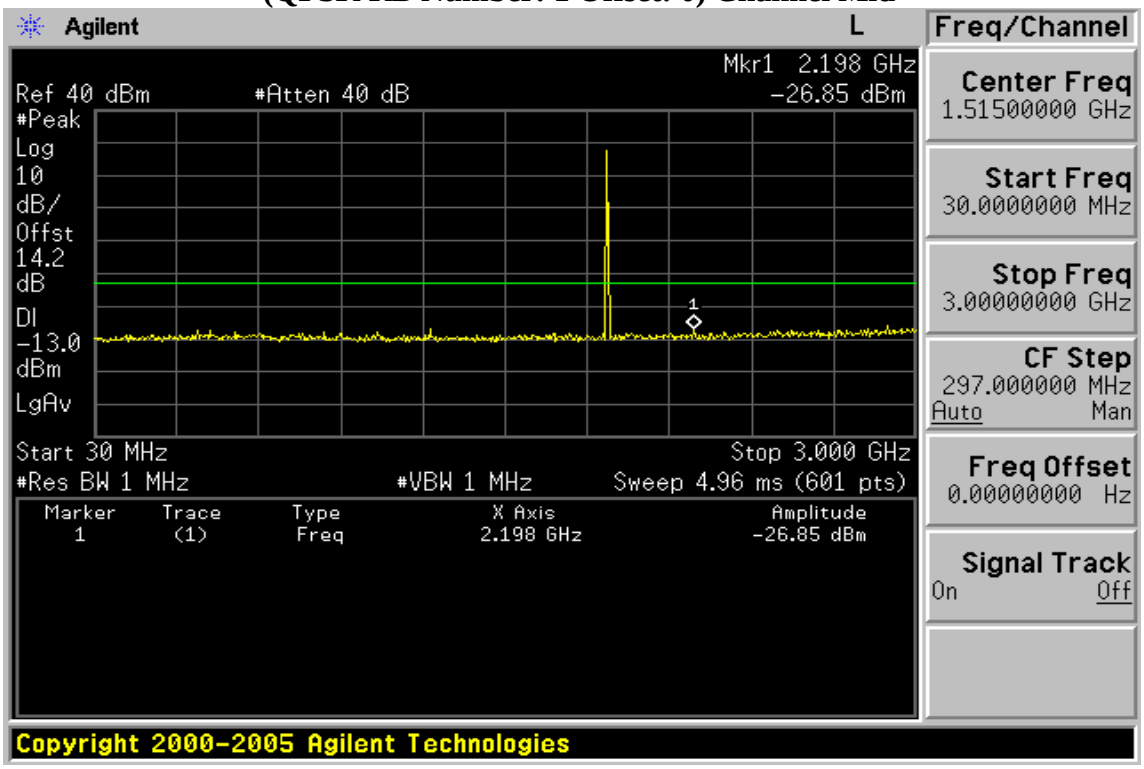
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

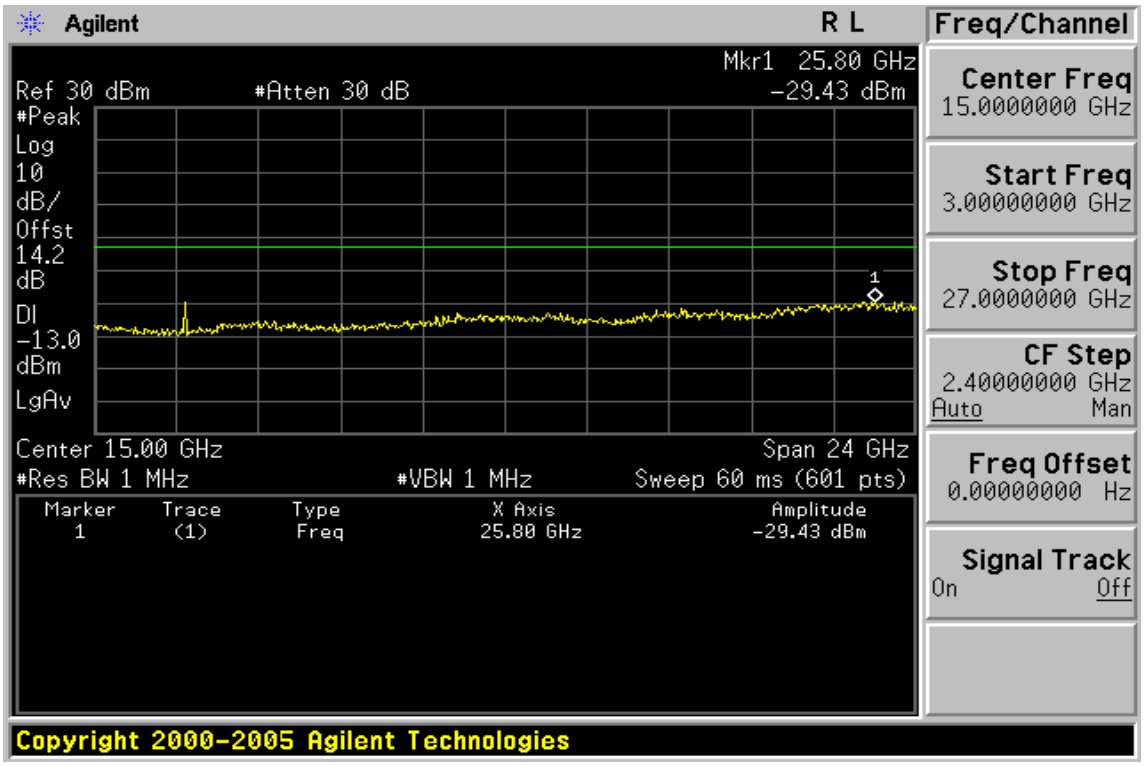




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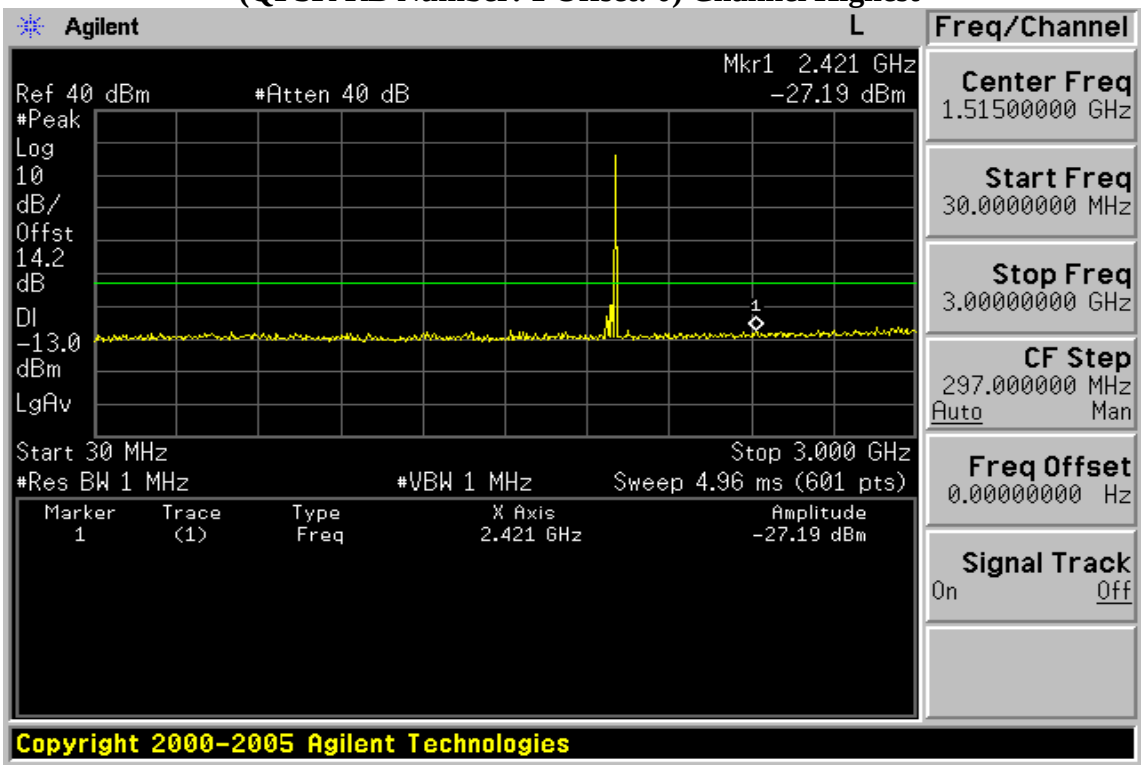
Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid

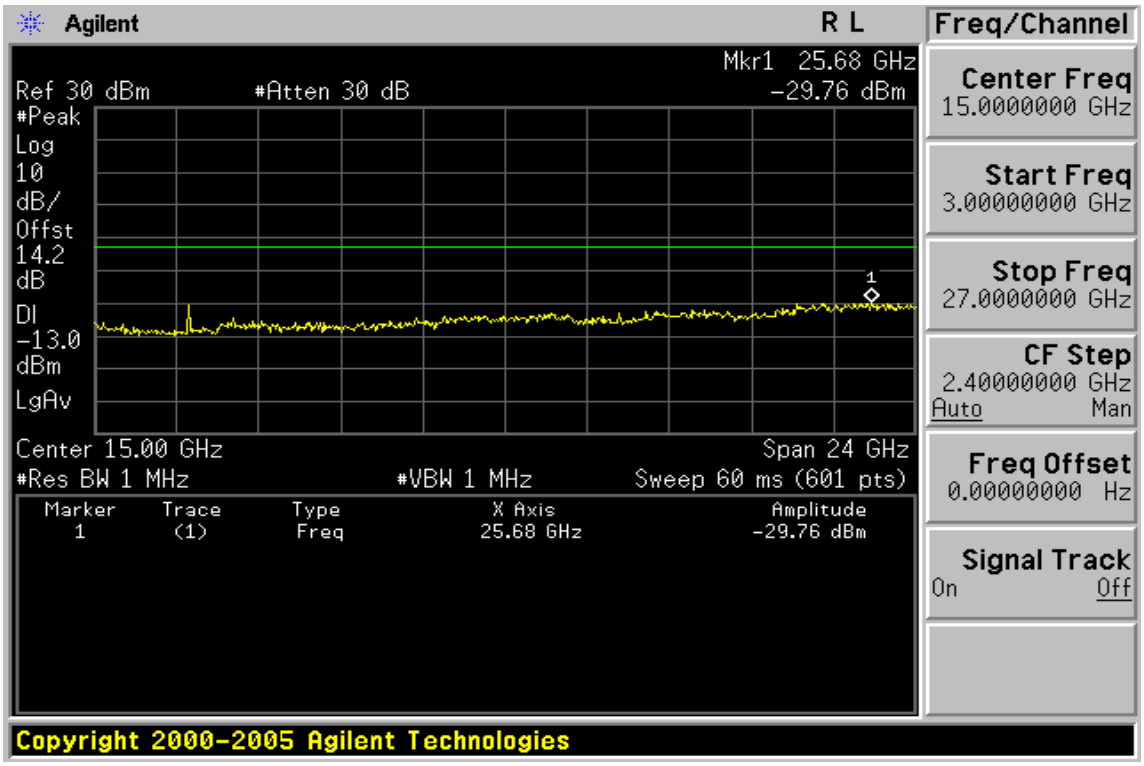




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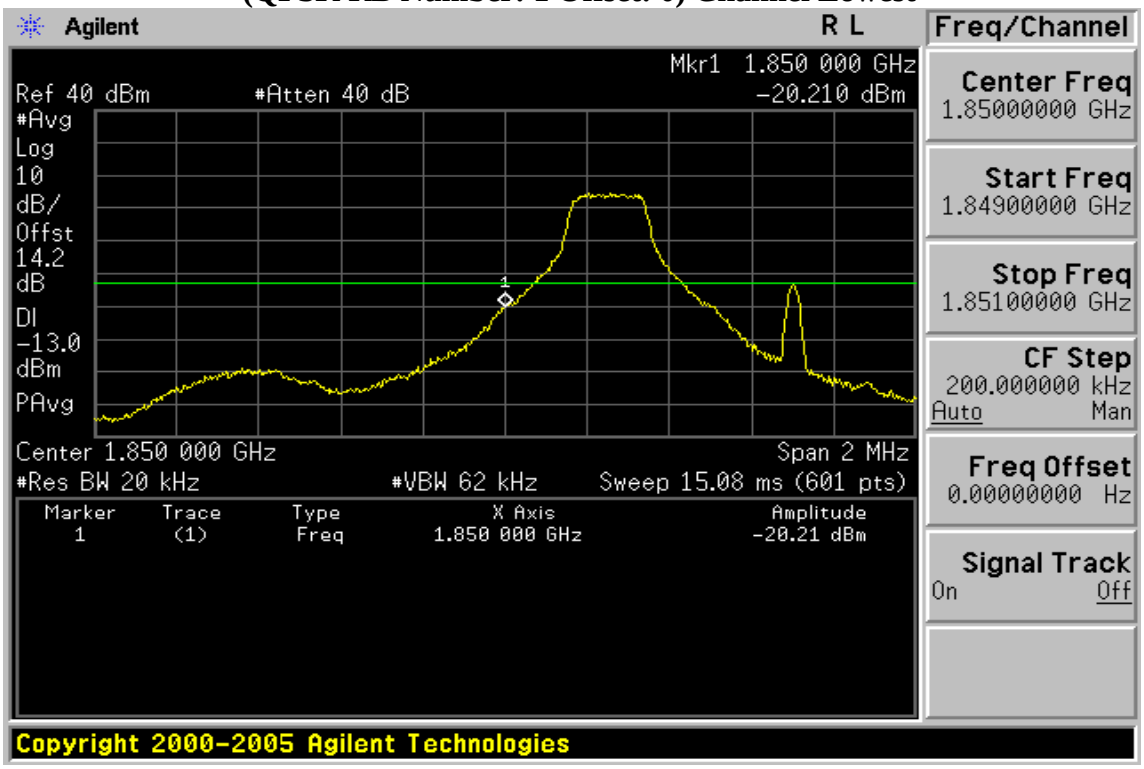
Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



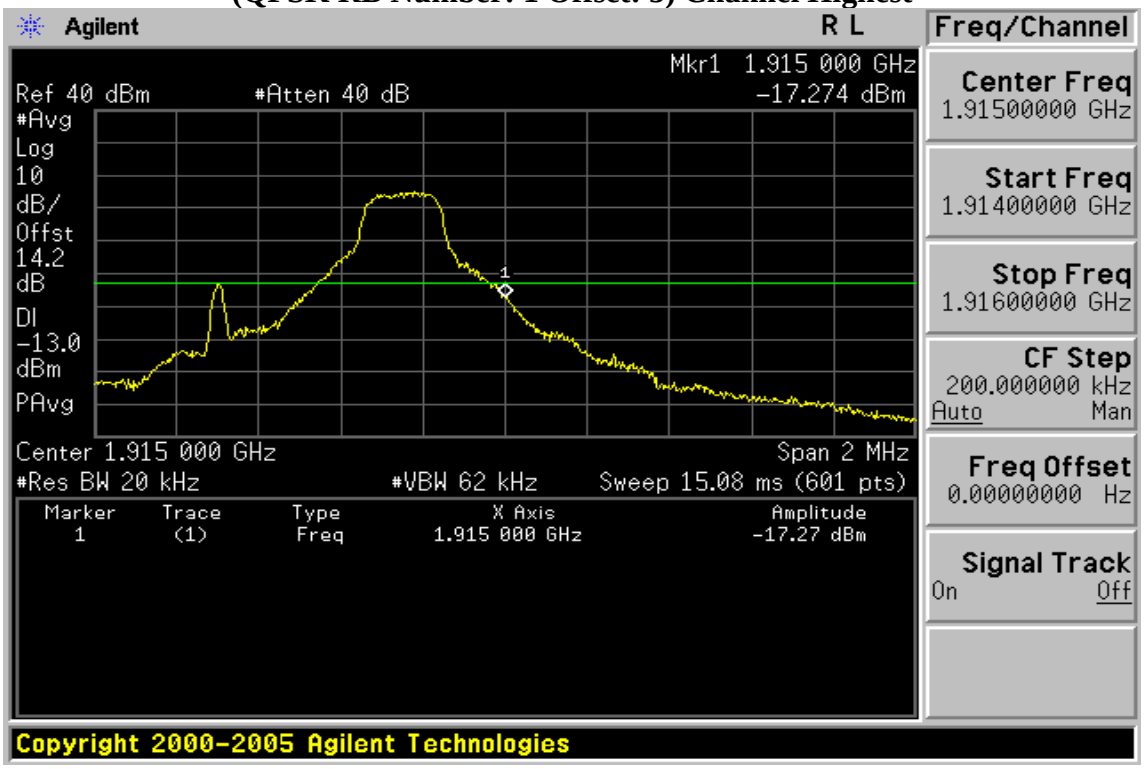


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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

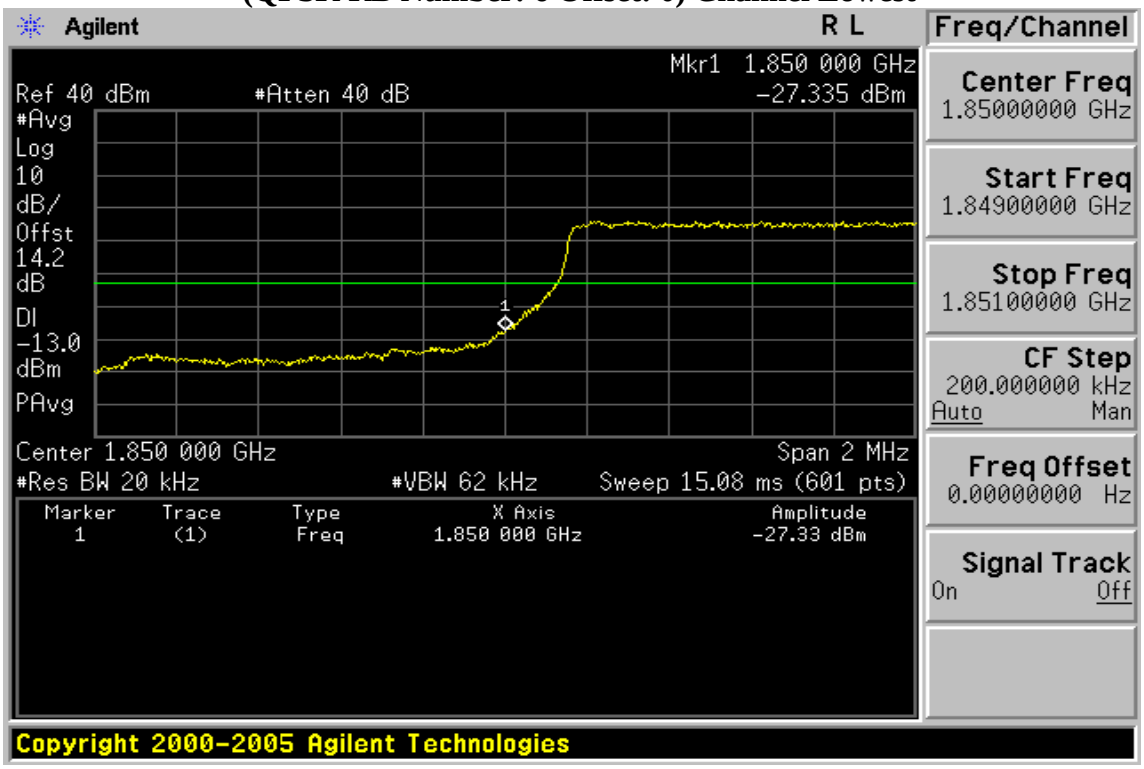


Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 5) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Lowest

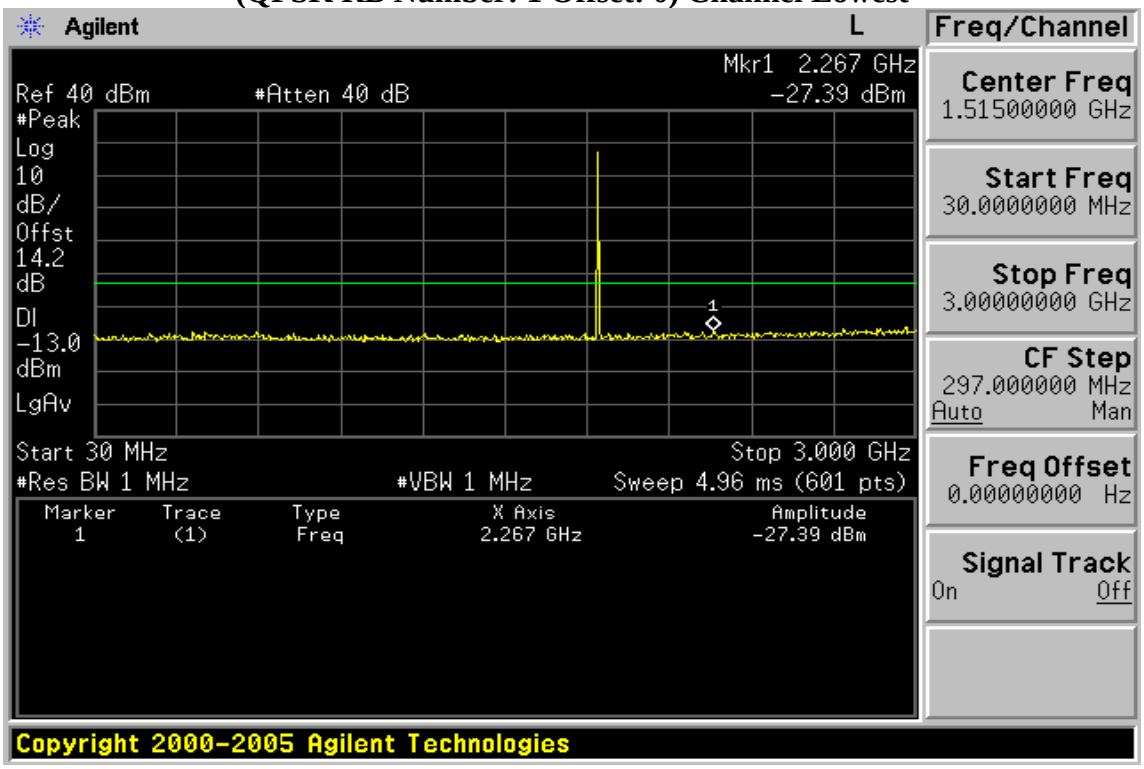


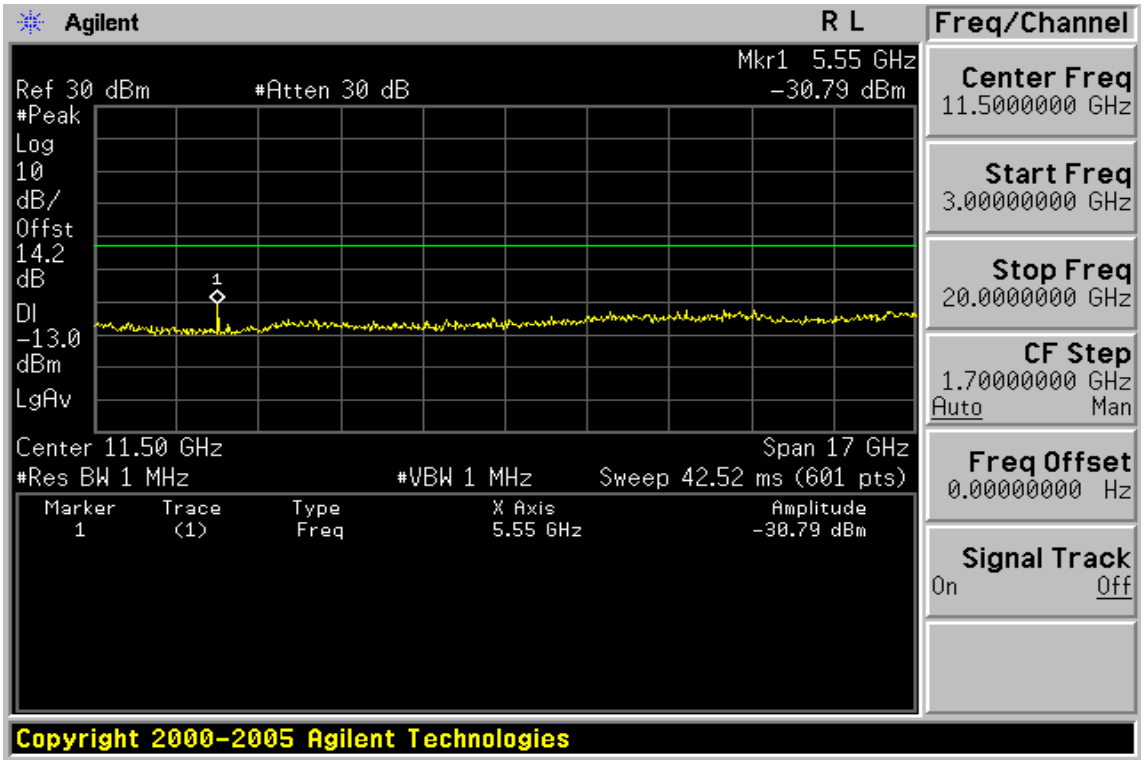
Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Highest



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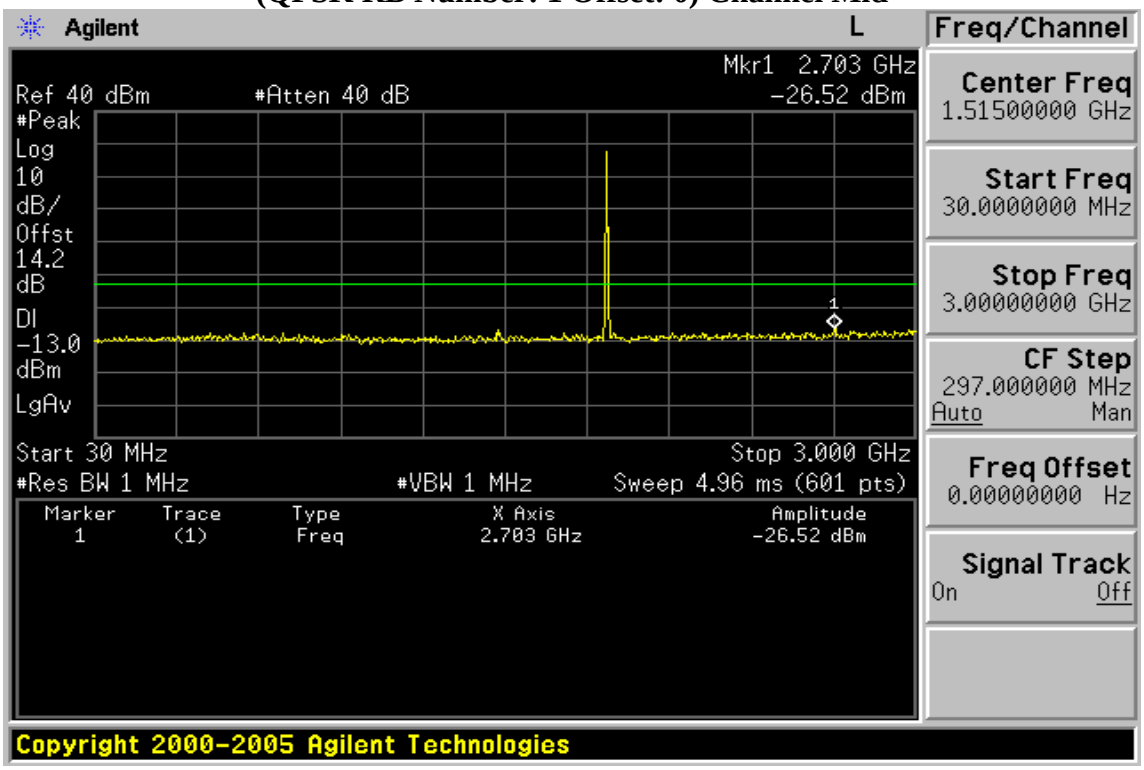
Out of Band emission at antenna terminals–3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

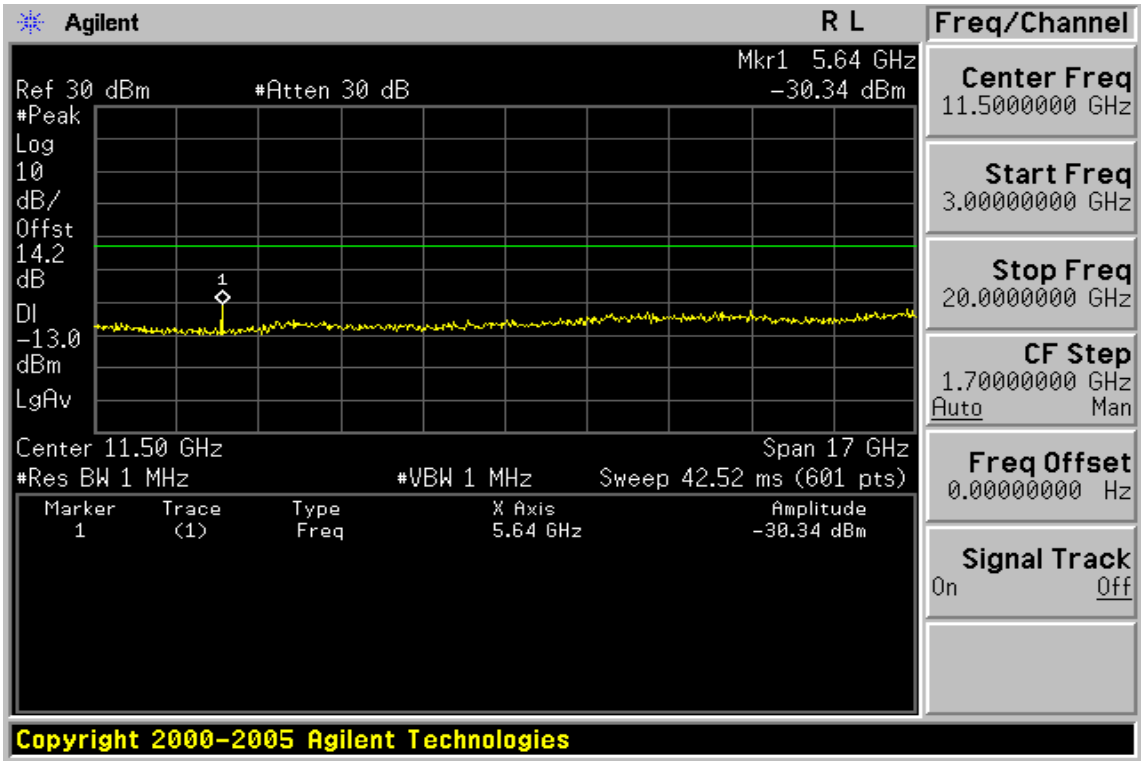




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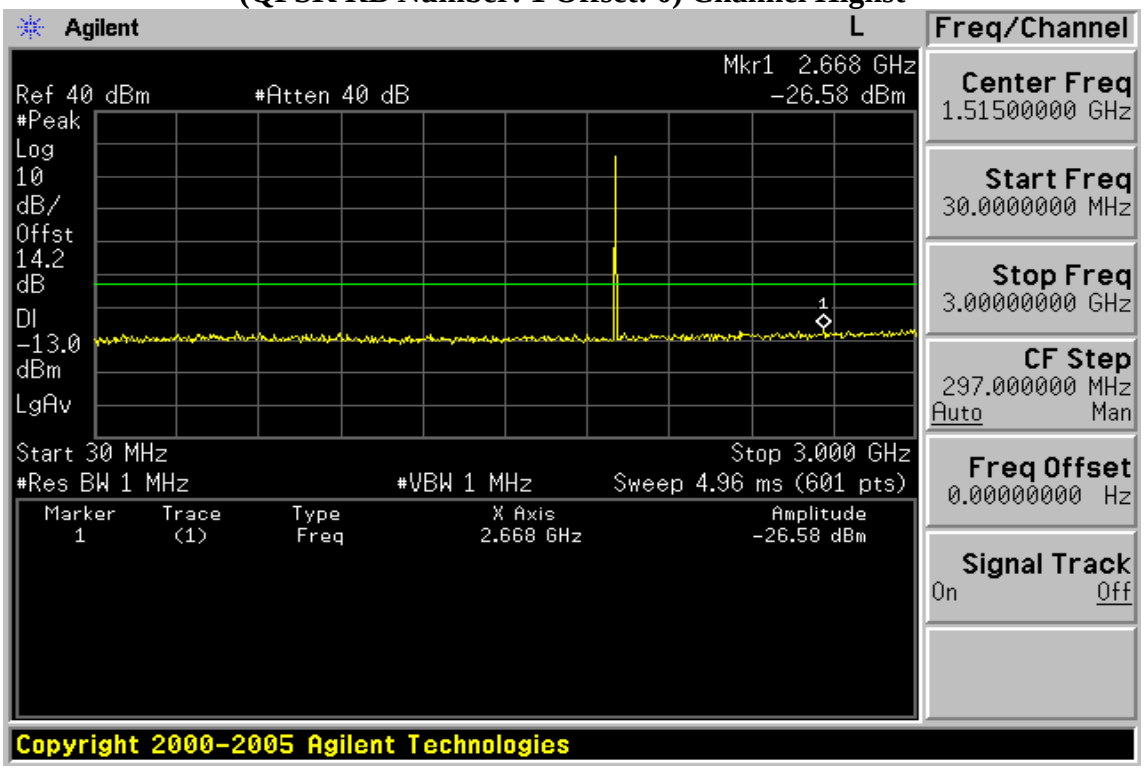
Out of Band emission at antenna terminals–3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid

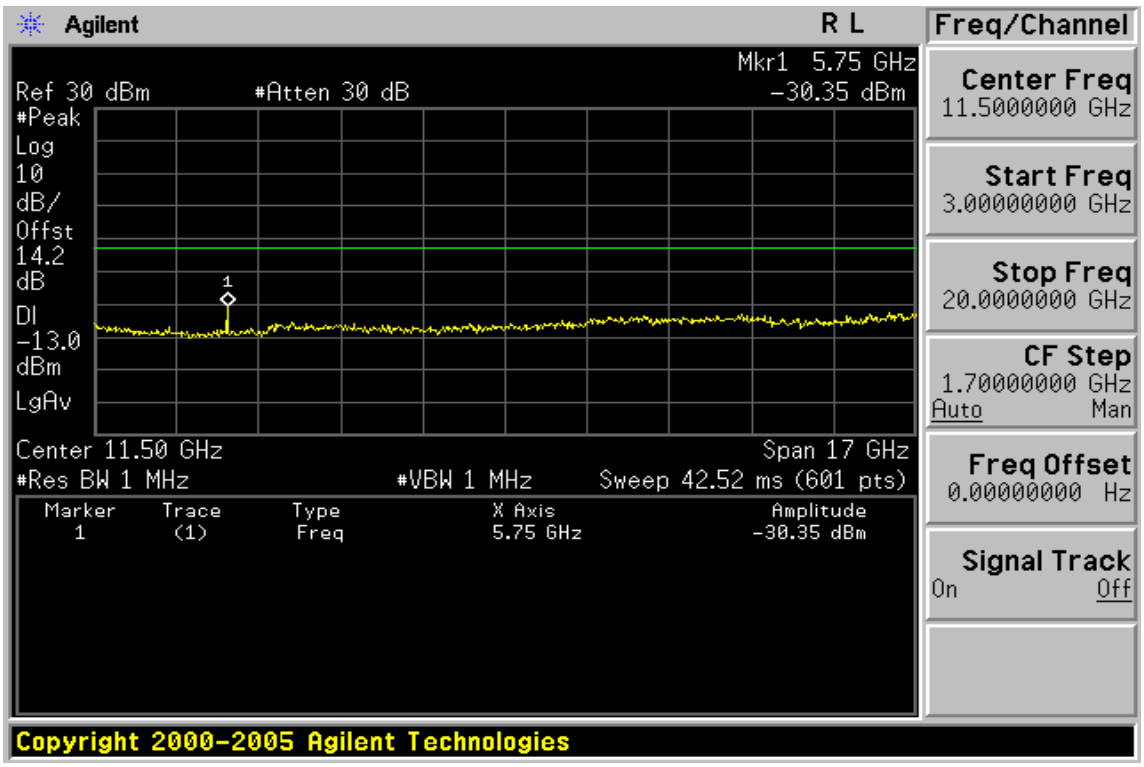




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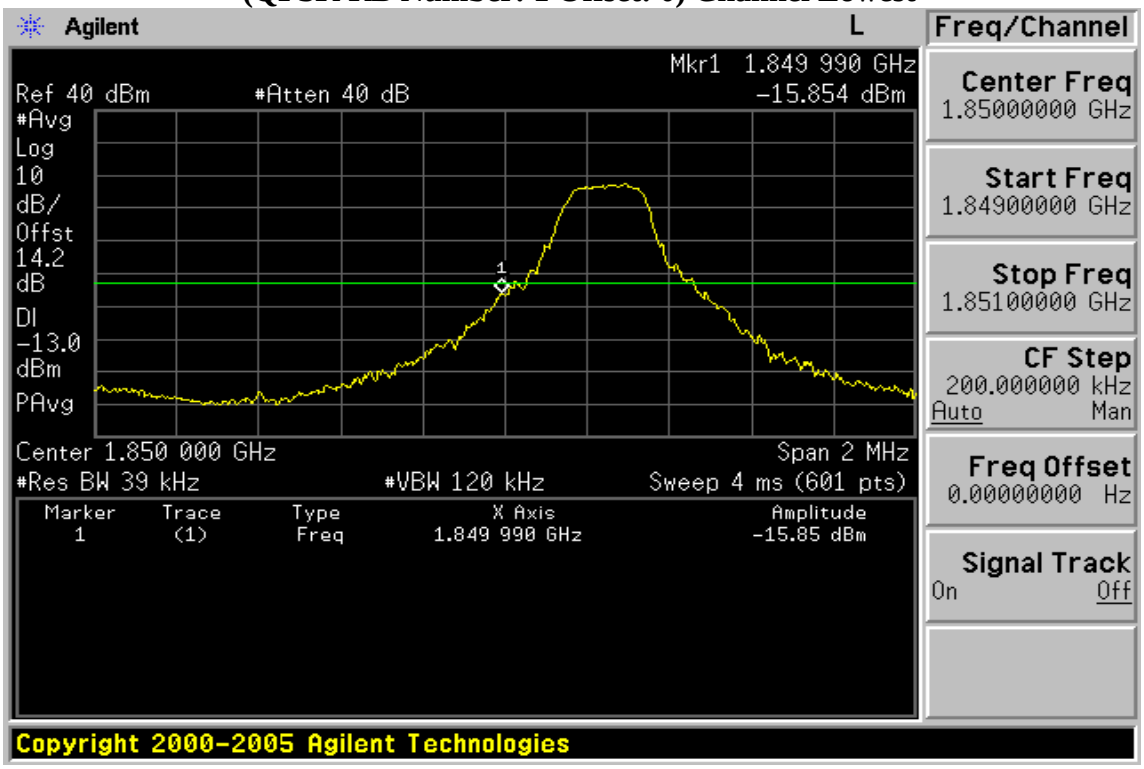
Out of Band emission at antenna terminals–3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highst



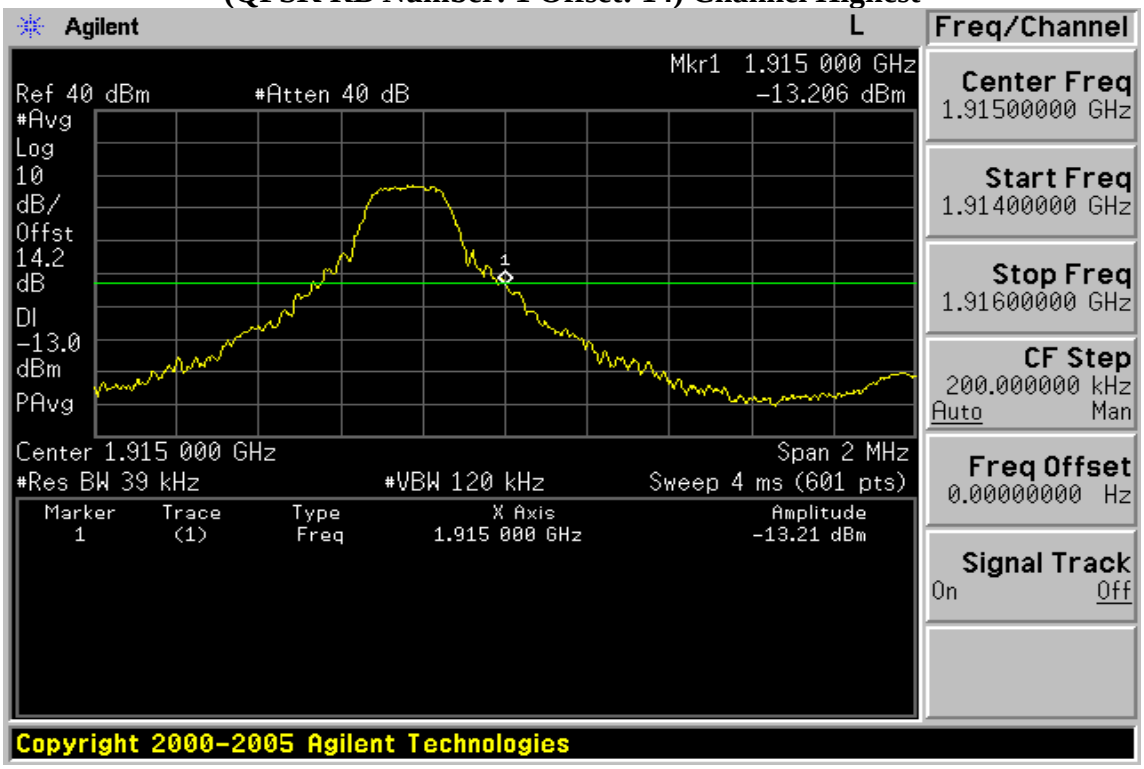


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Band edge emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

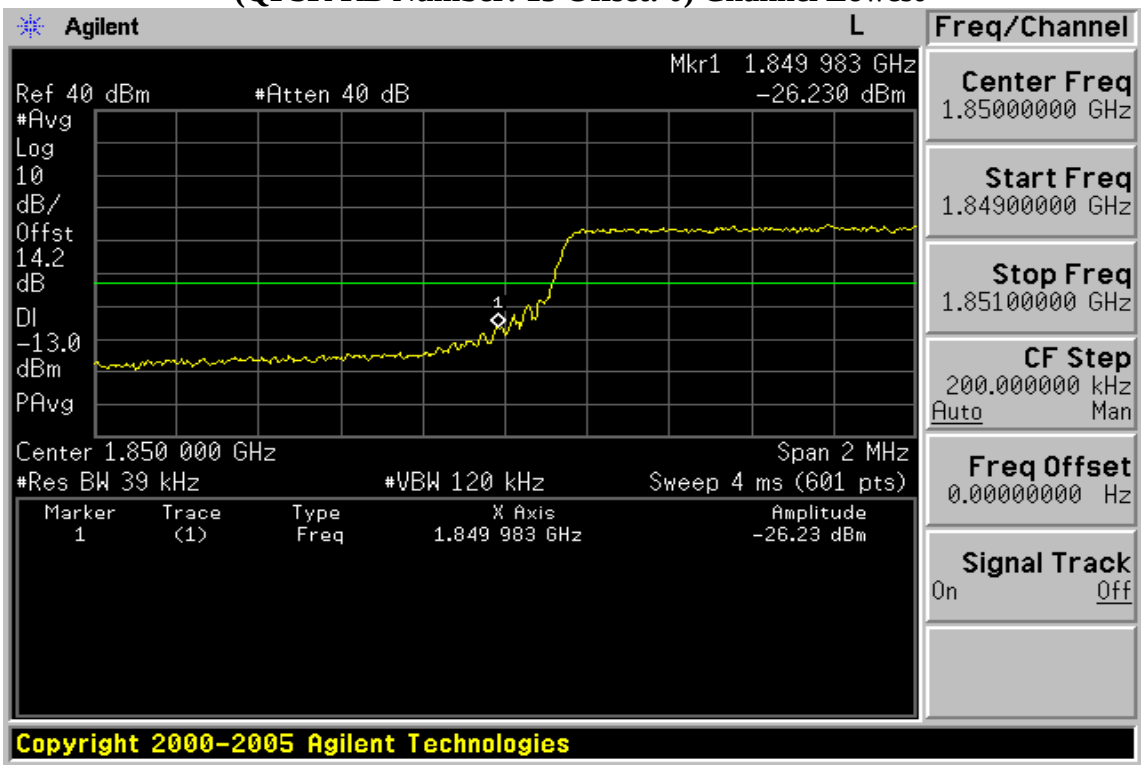


Band edge emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 14) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 15 Offset: 0) Channel Lowest

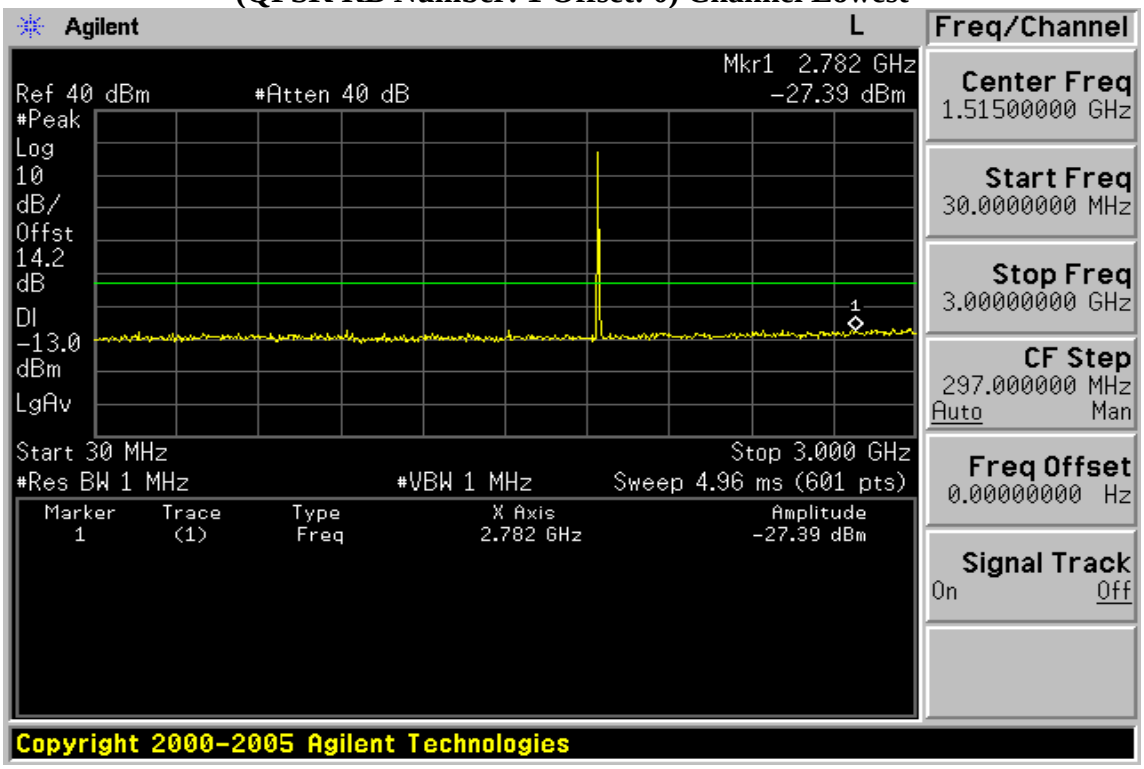


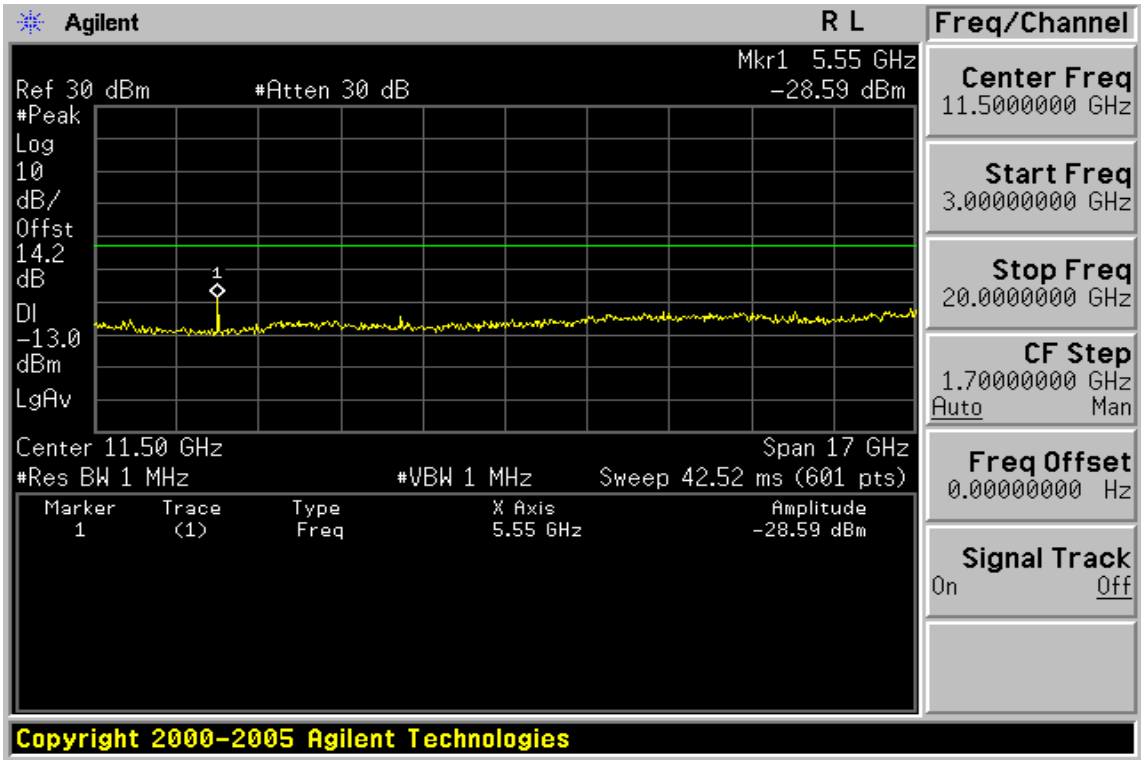
Band edge emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 15 Offset: 0) Channel Highest



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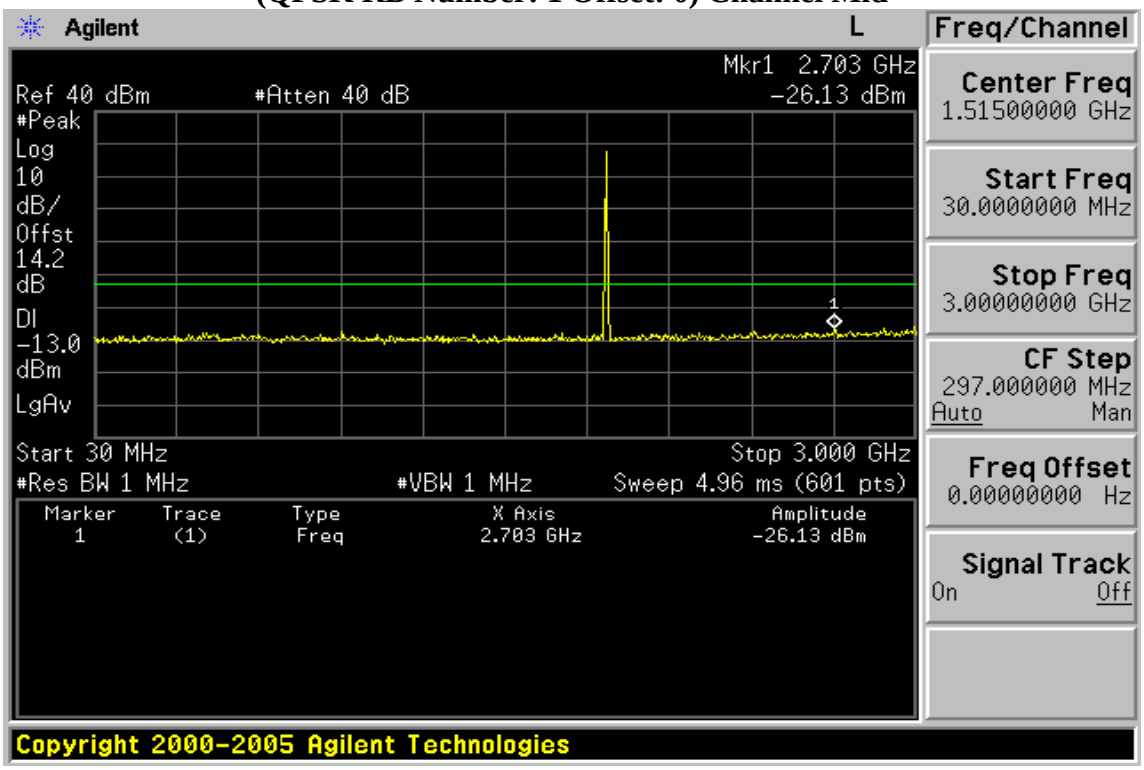
Out of Band emission at antenna terminals–5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

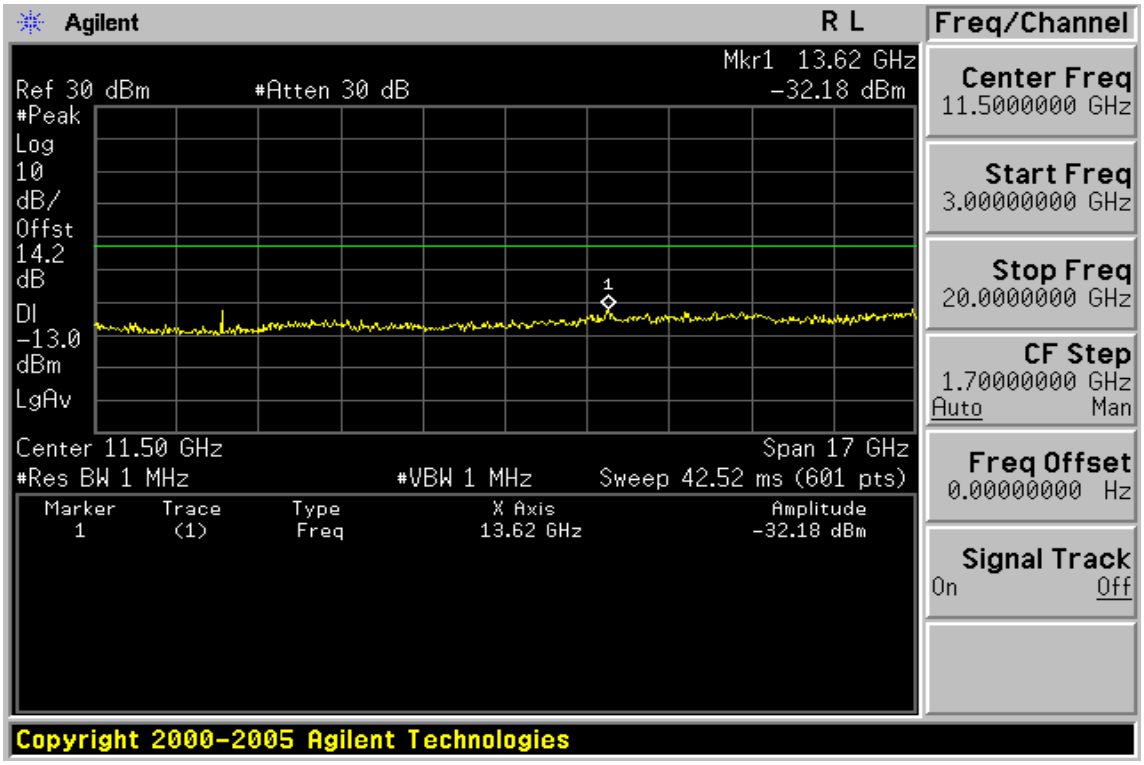




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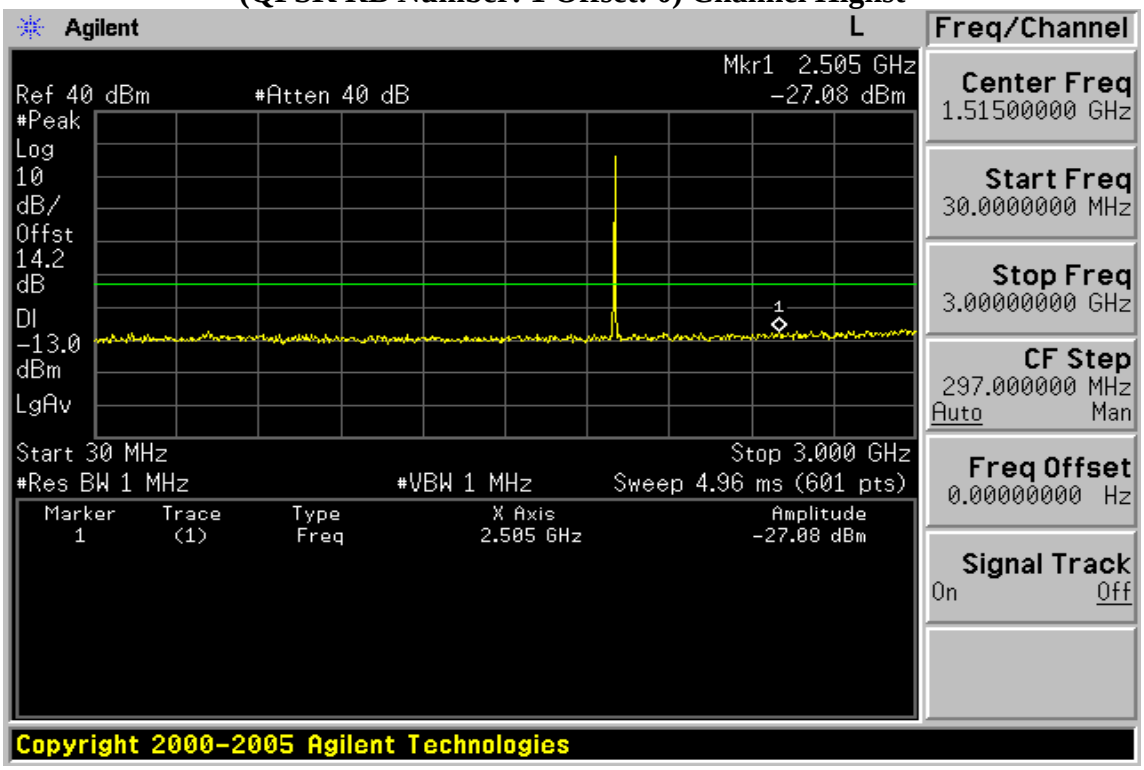
Out of Band emission at antenna terminals–5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid

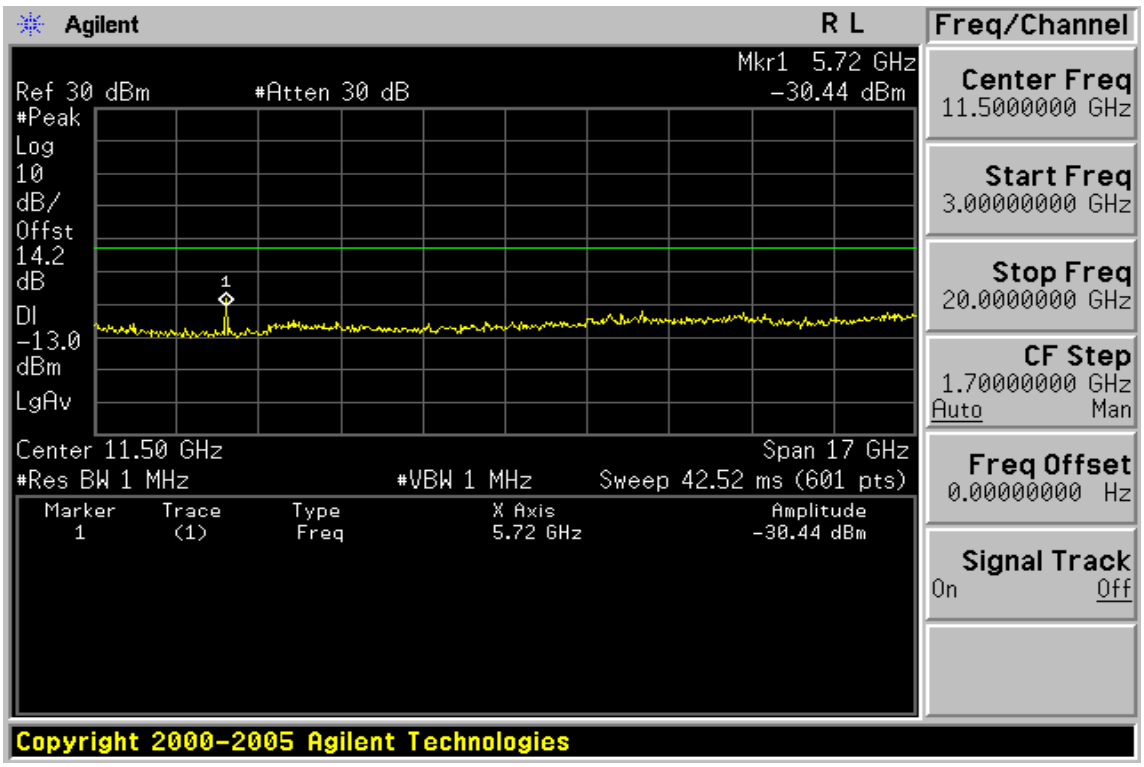




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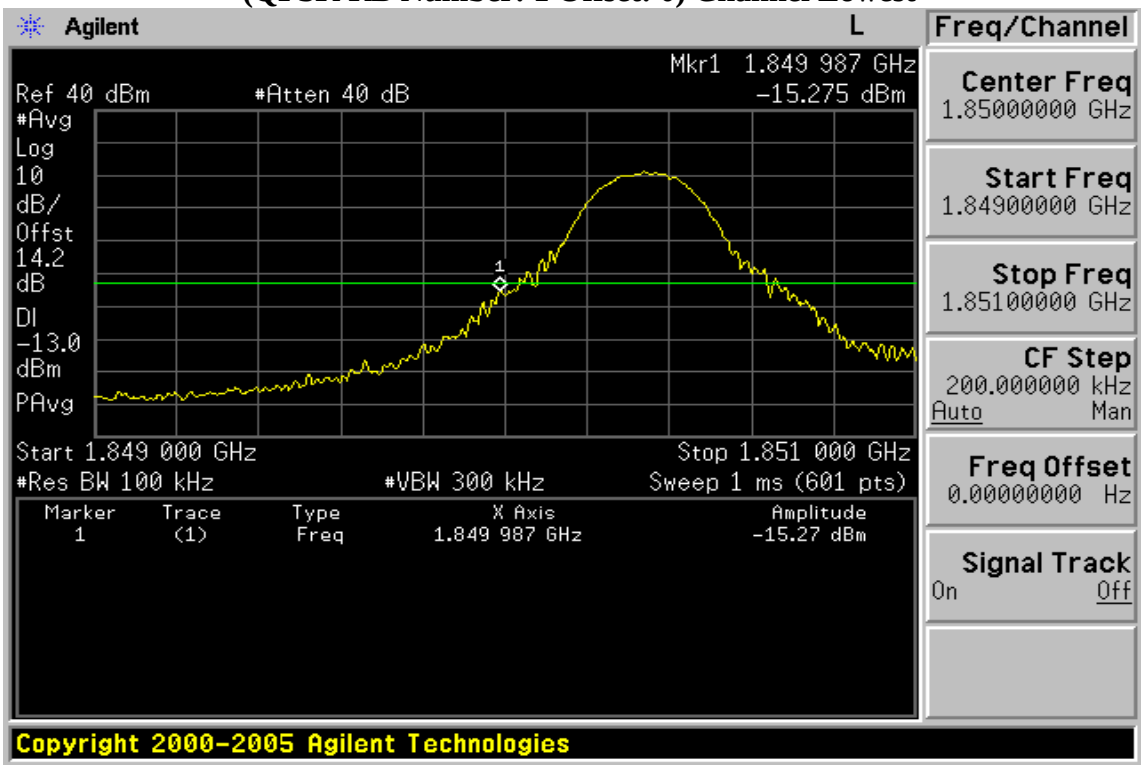
Out of Band emission at antenna terminals–5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highst



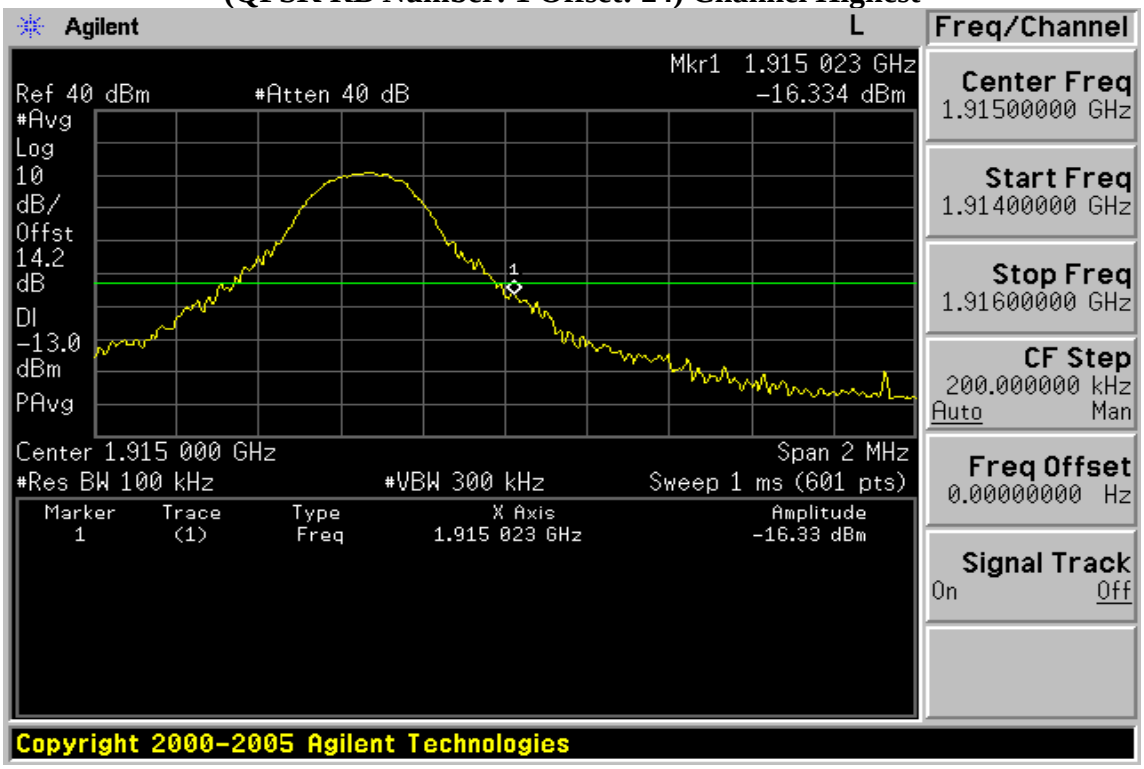


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Band edge emission at antenna terminals –5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

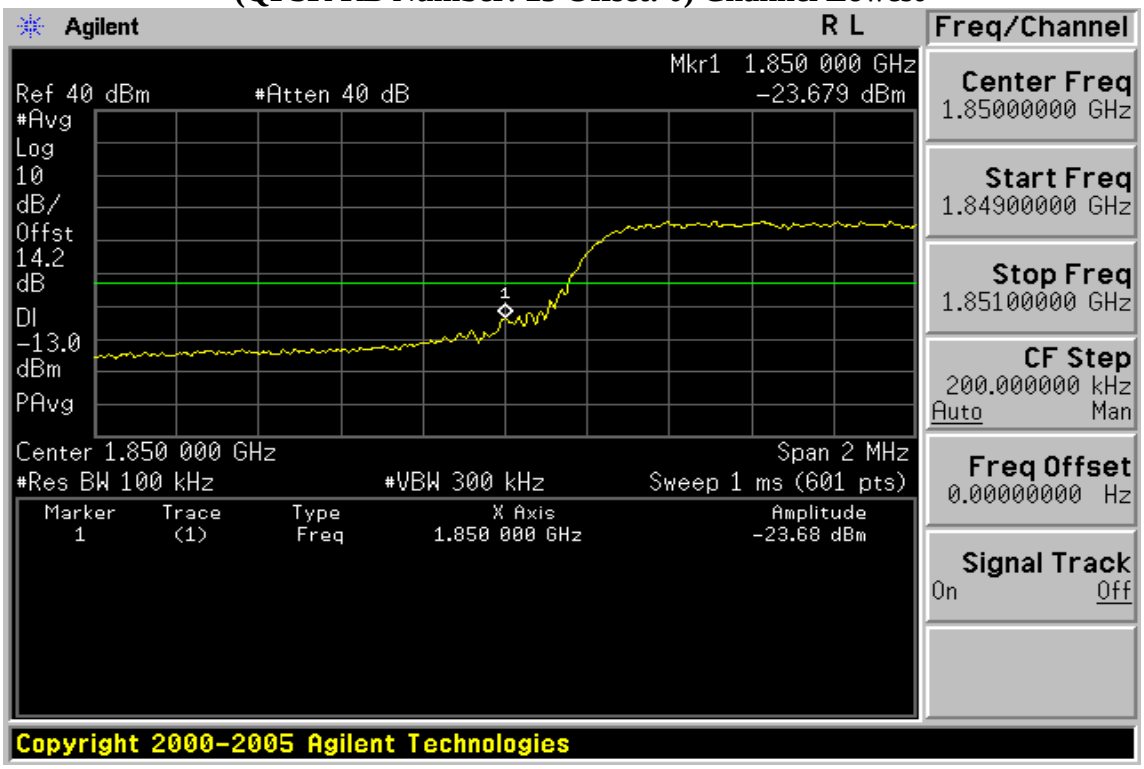


Band edge emission at antenna terminals –5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 24) Channel Highest



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

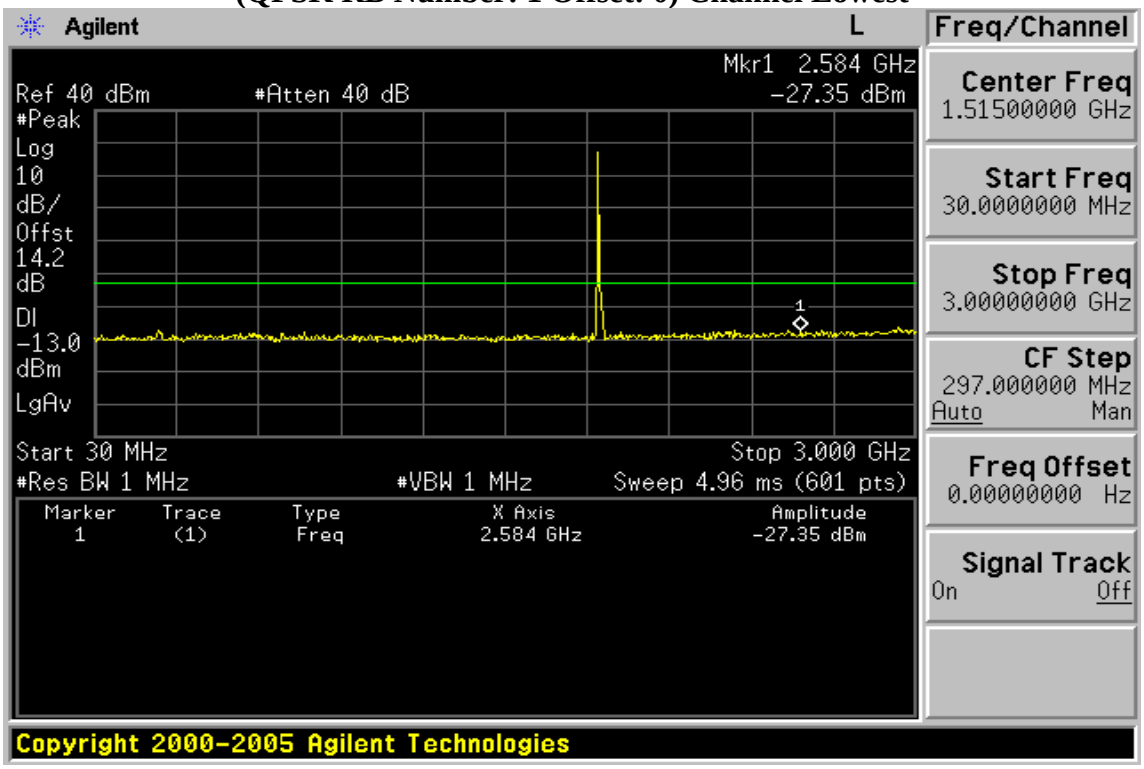


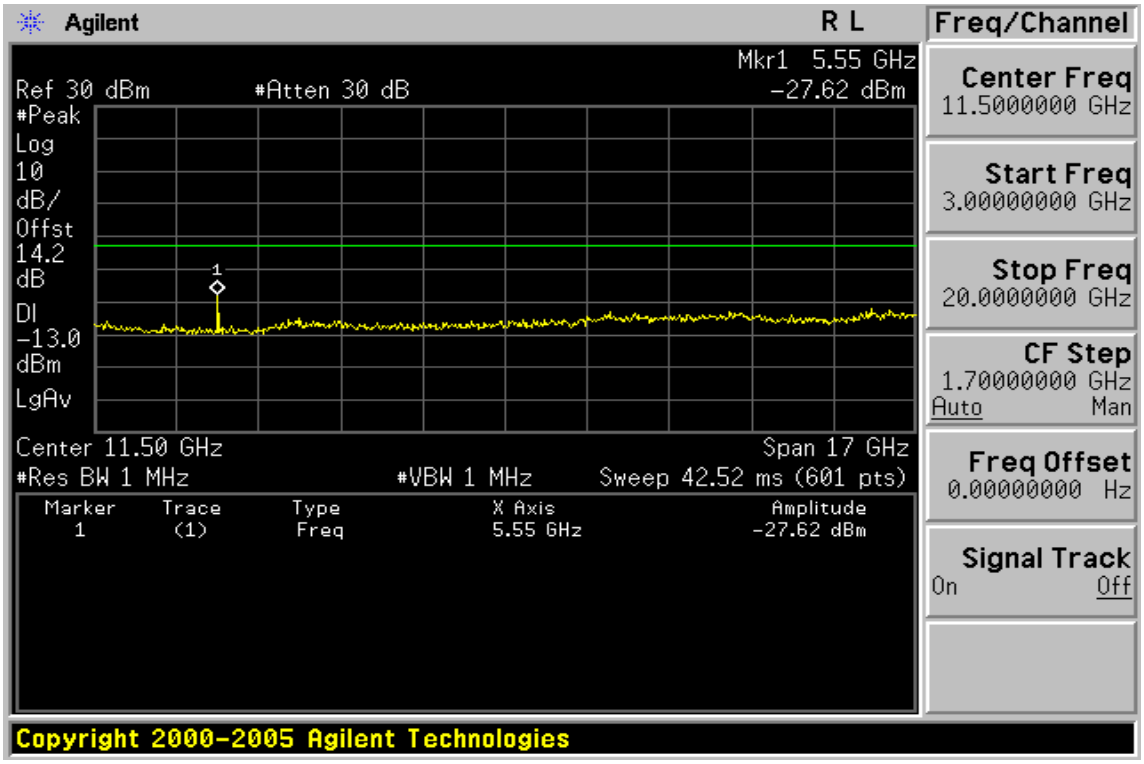
Band edge emission at antenna terminals –5MHz BW LTE-Band 25 (QPSK RB Number: 25 Offset: 0) Channel Highest



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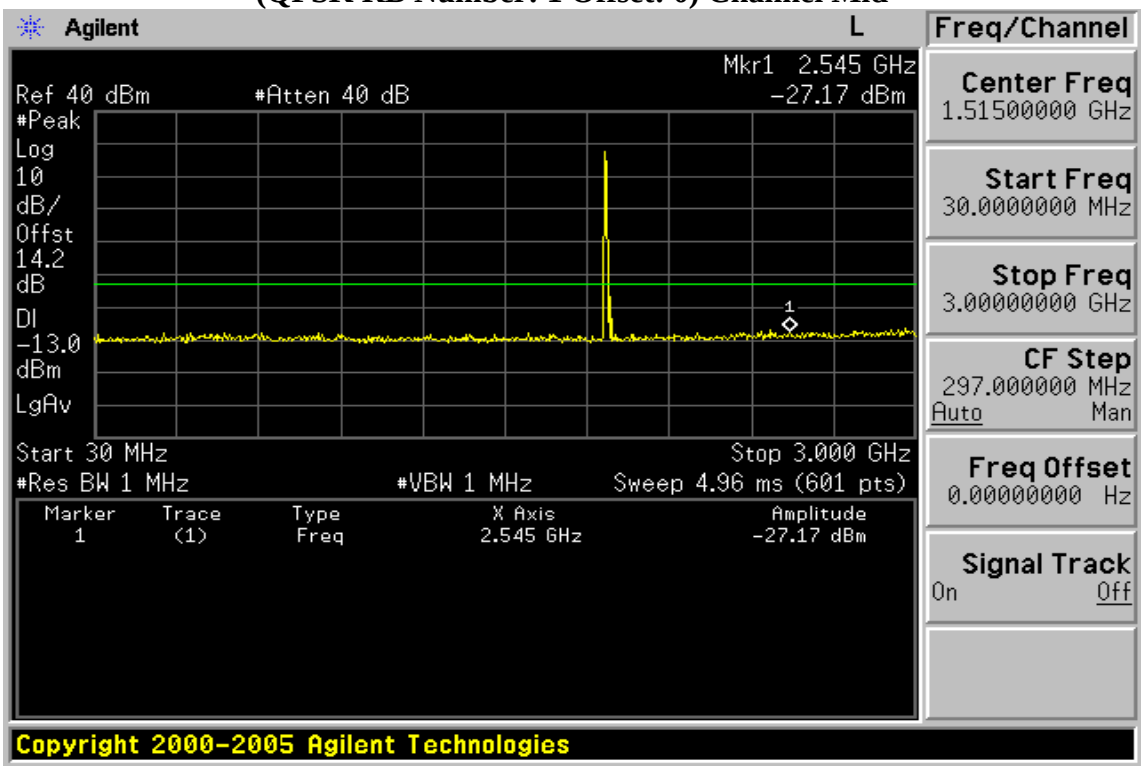
Out of Band emission at antenna terminals–10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

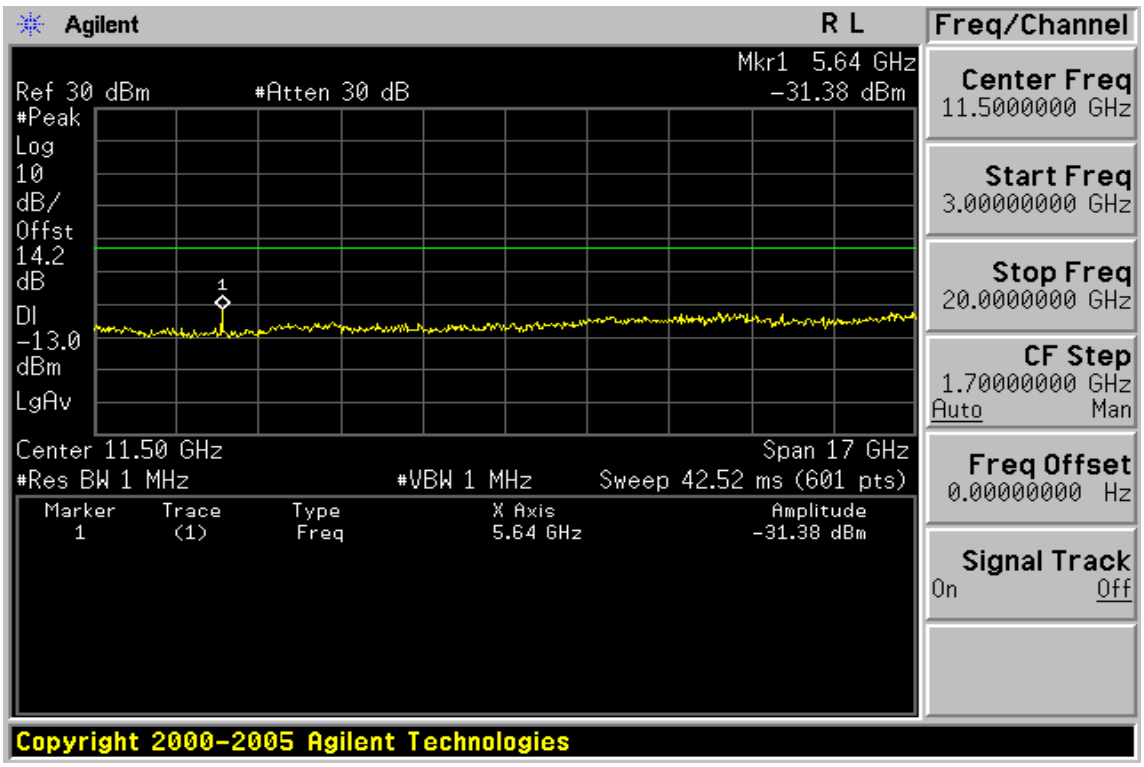




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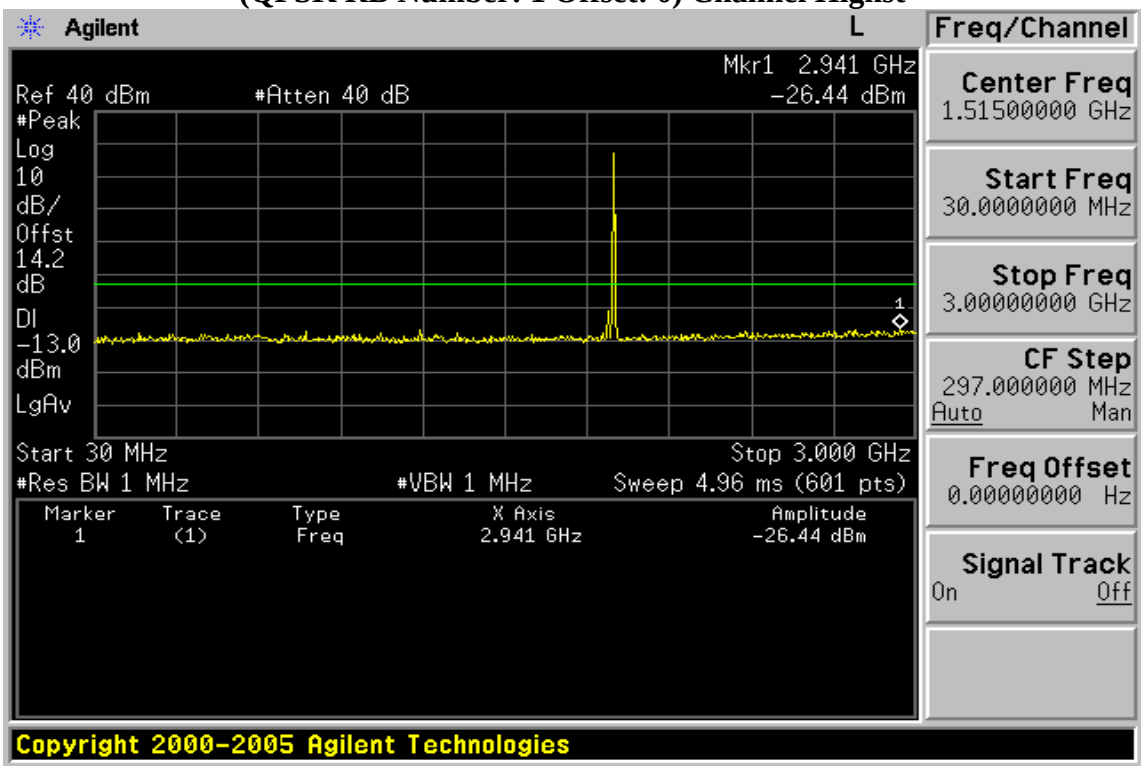
Out of Band emission at antenna terminals–10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid

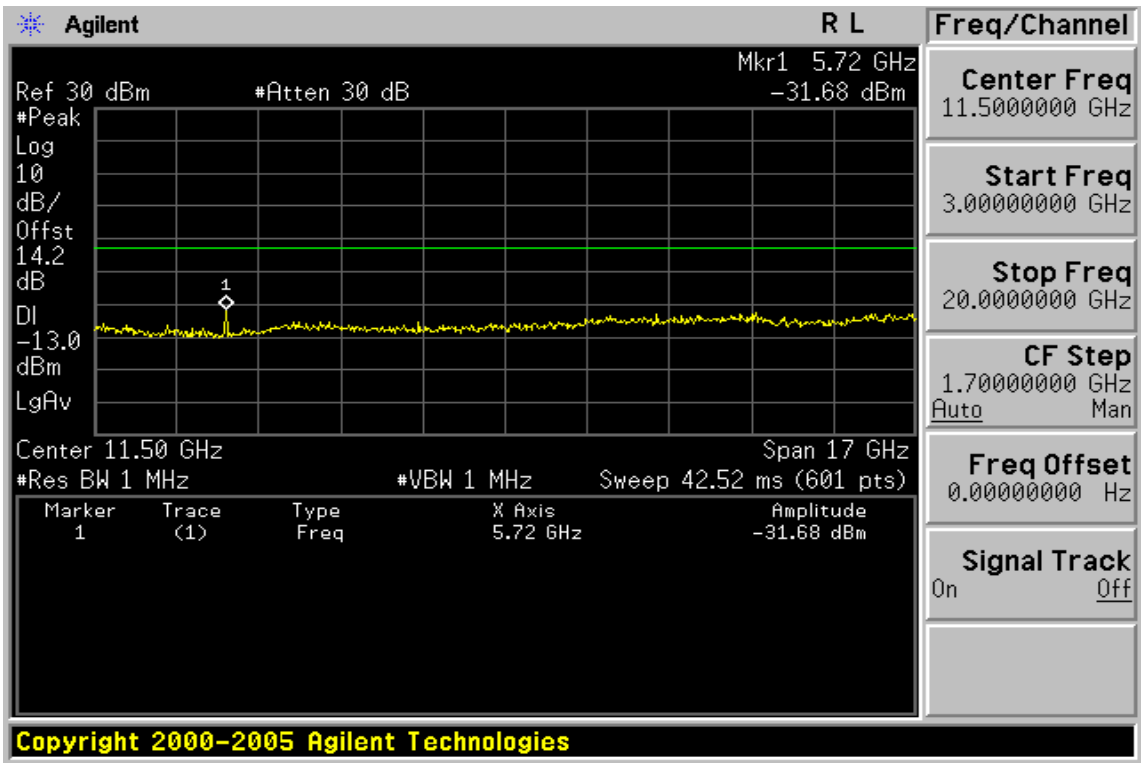




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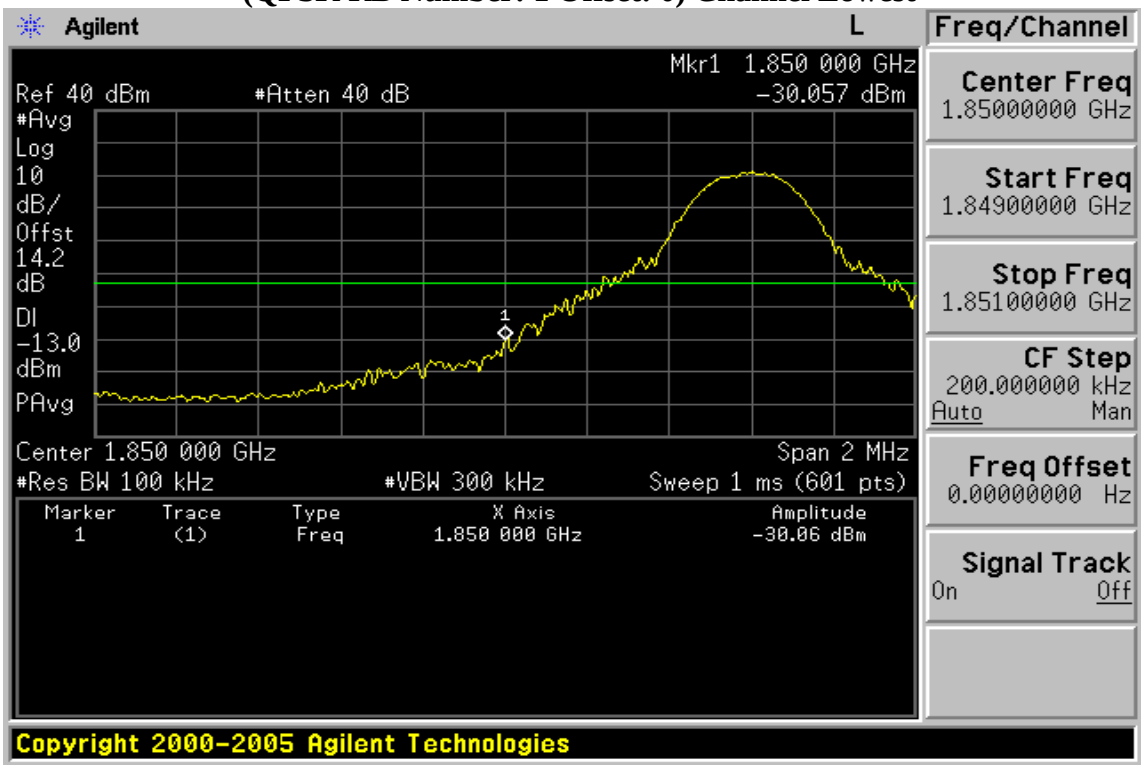
Out of Band emission at antenna terminals–10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highst



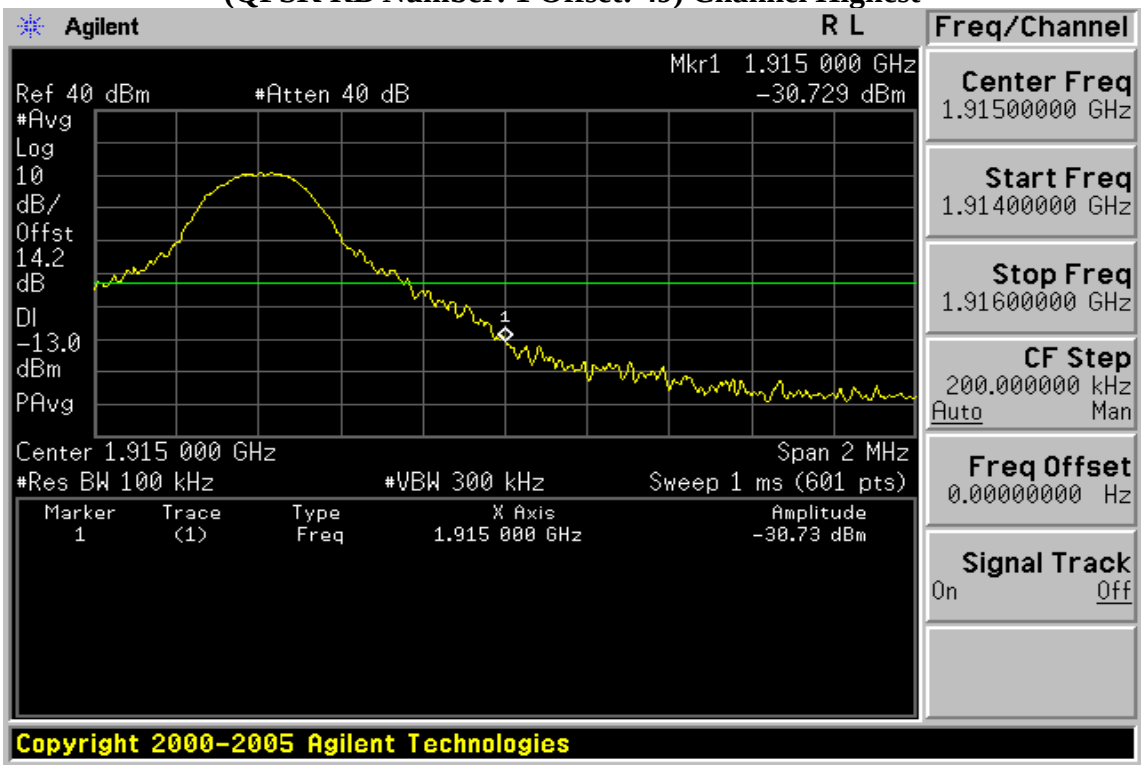


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Band edge emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

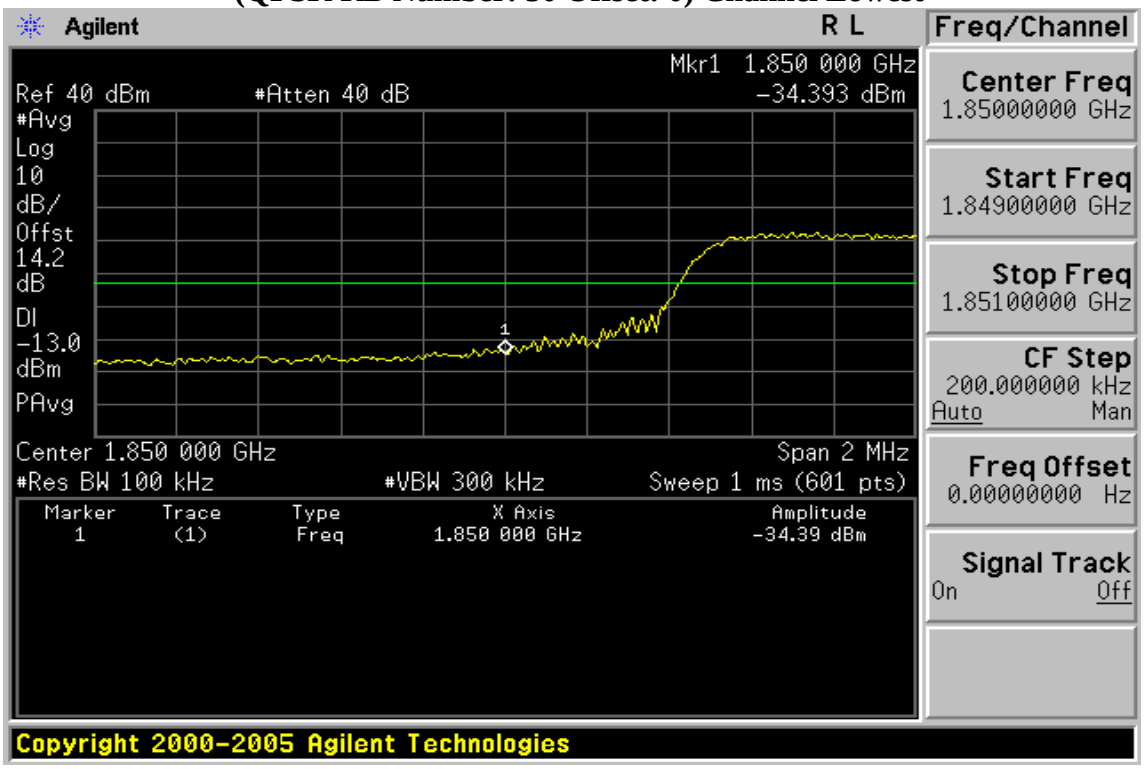


Band edge emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 49) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 50 Offset: 0) Channel Lowest

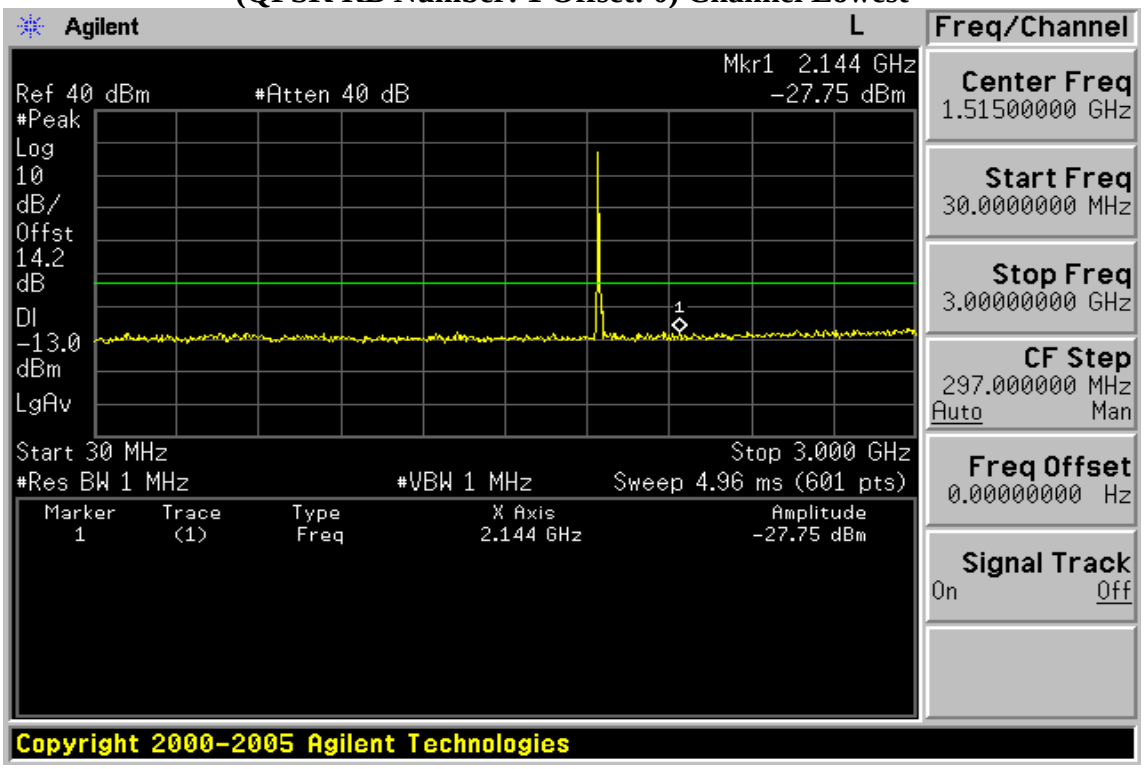


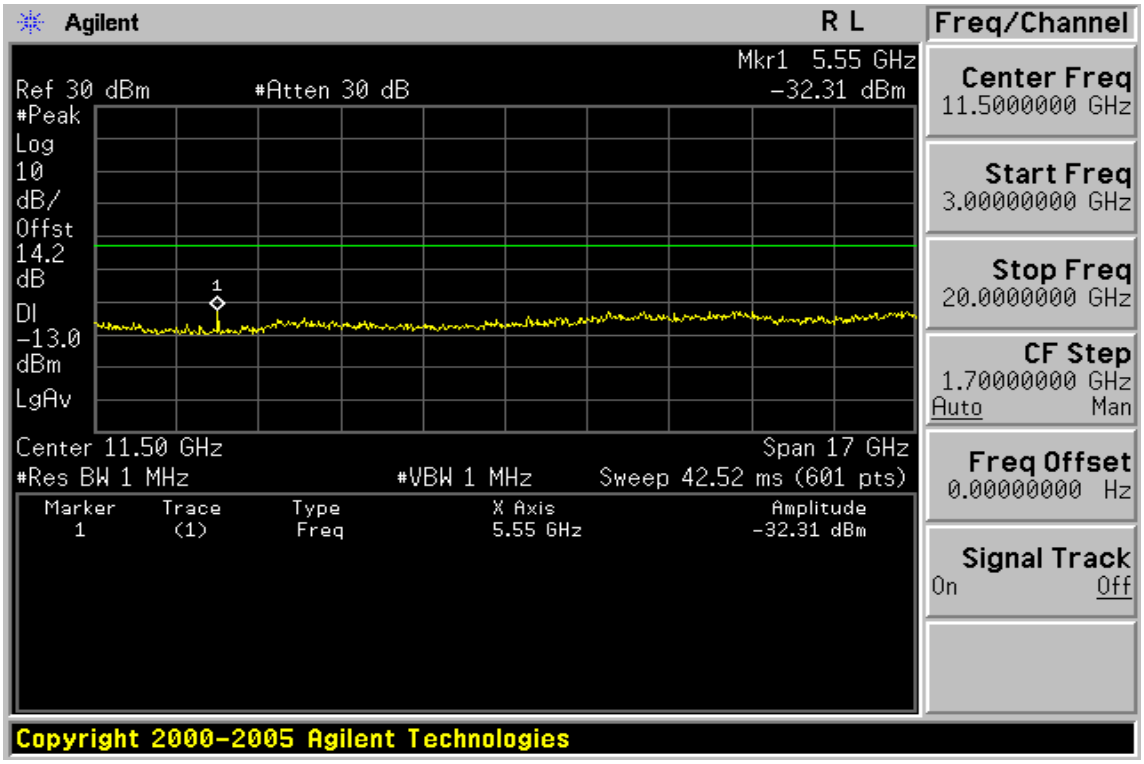
Band edge emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 50 Offset: 0) Channel Highest



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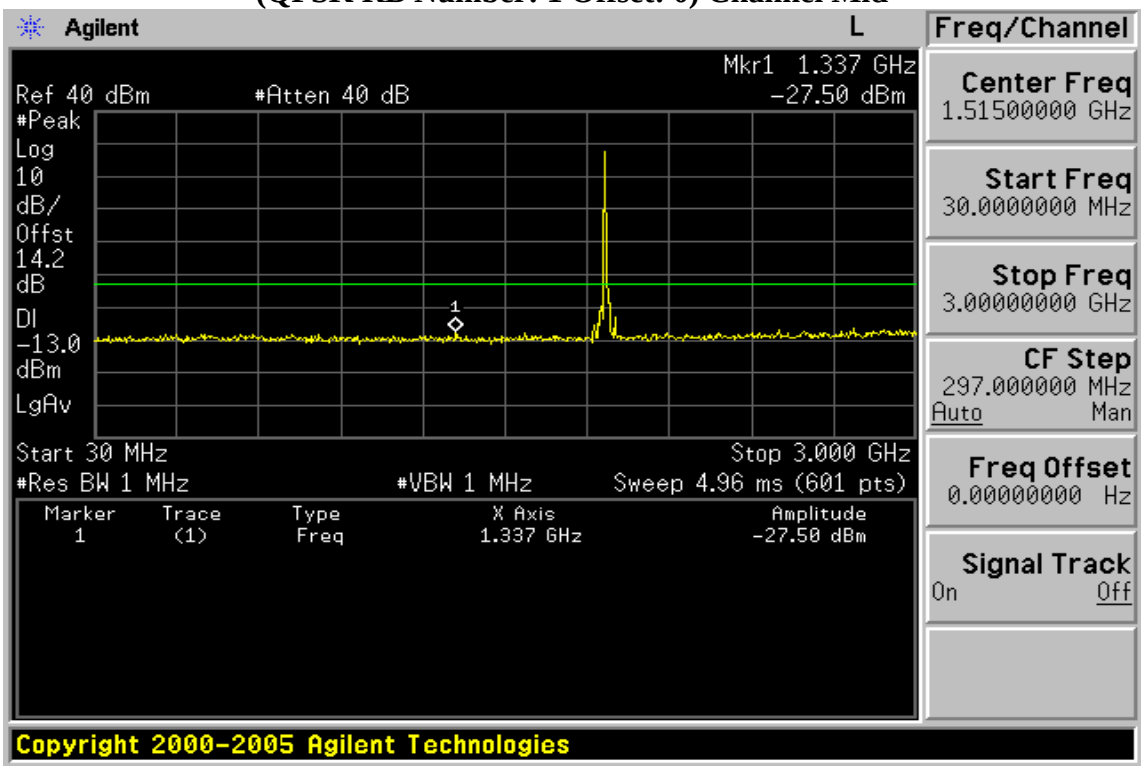
Out of Band emission at antenna terminals–15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

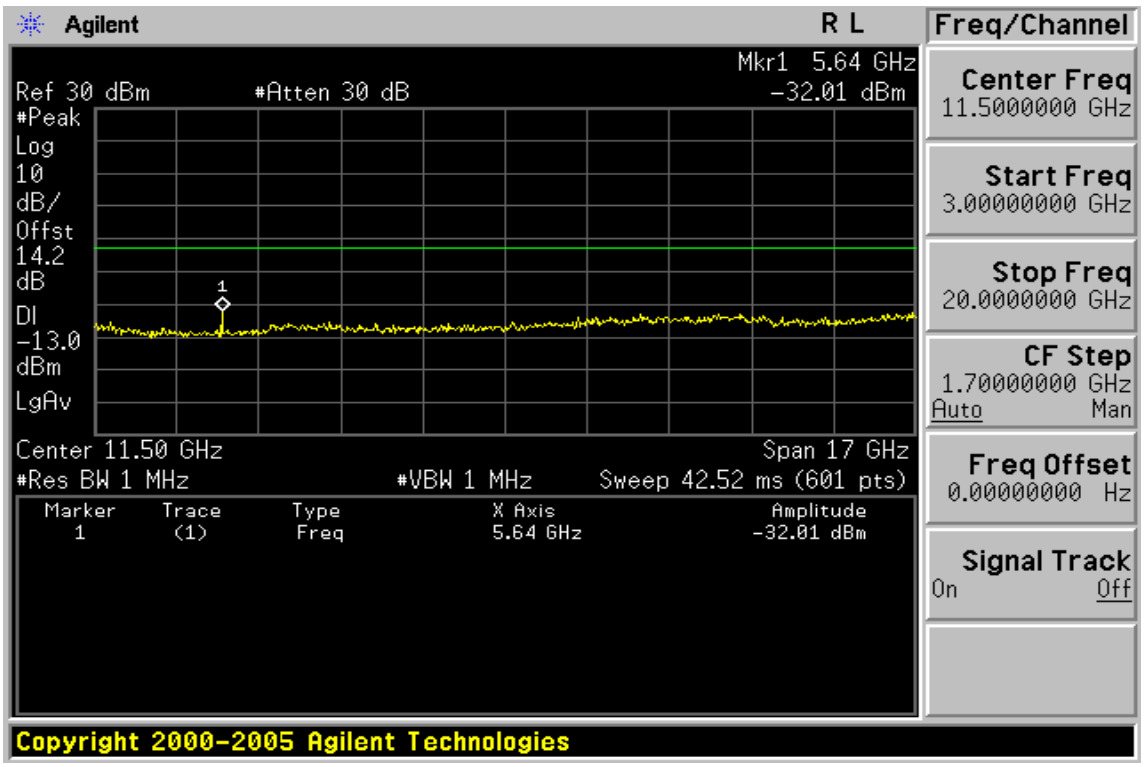




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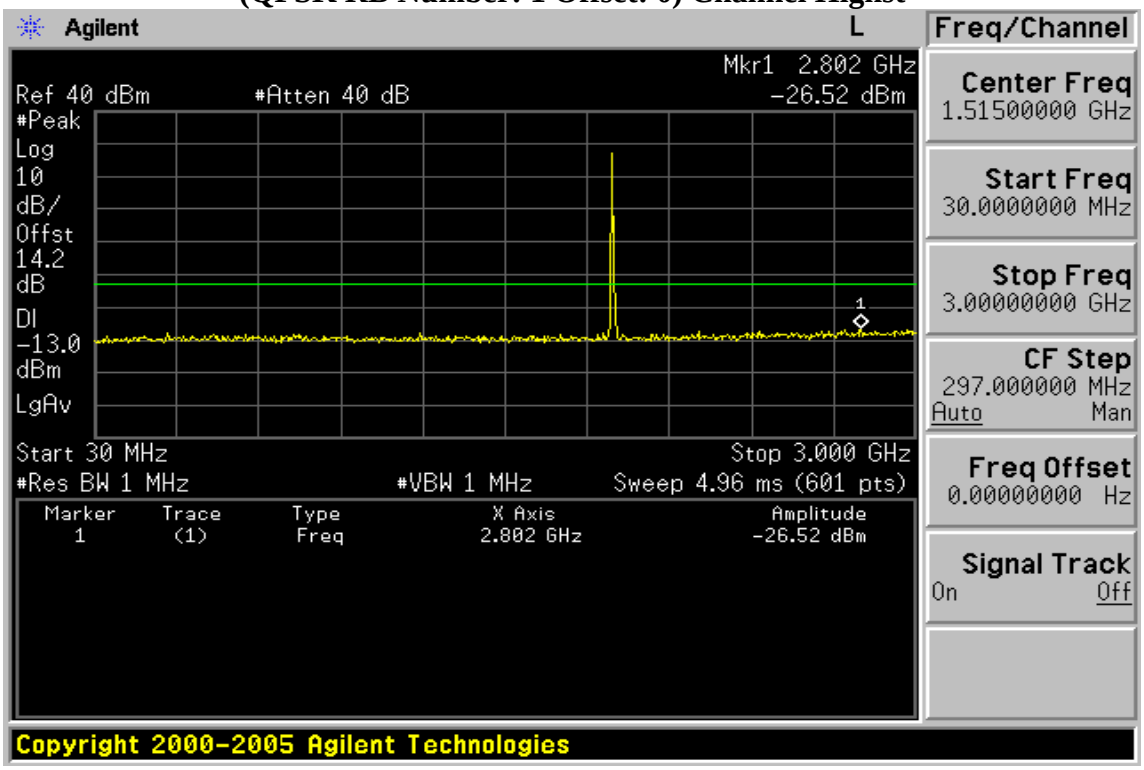
Out of Band emission at antenna terminals–15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid

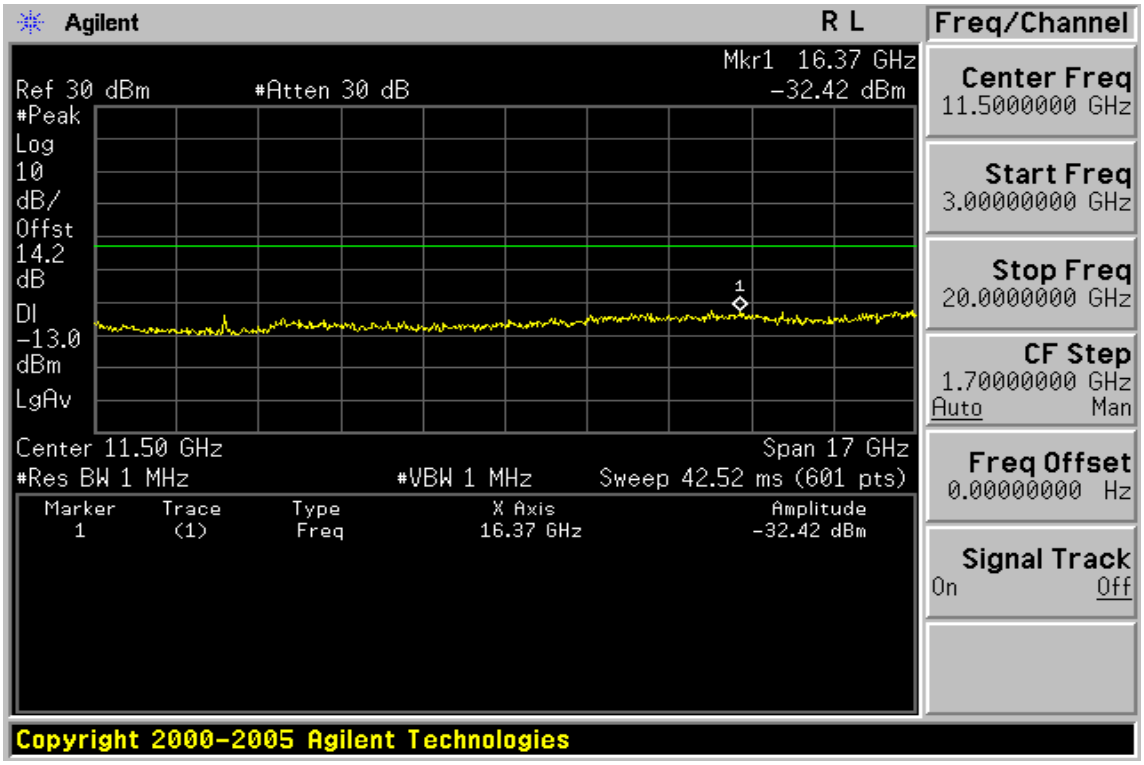




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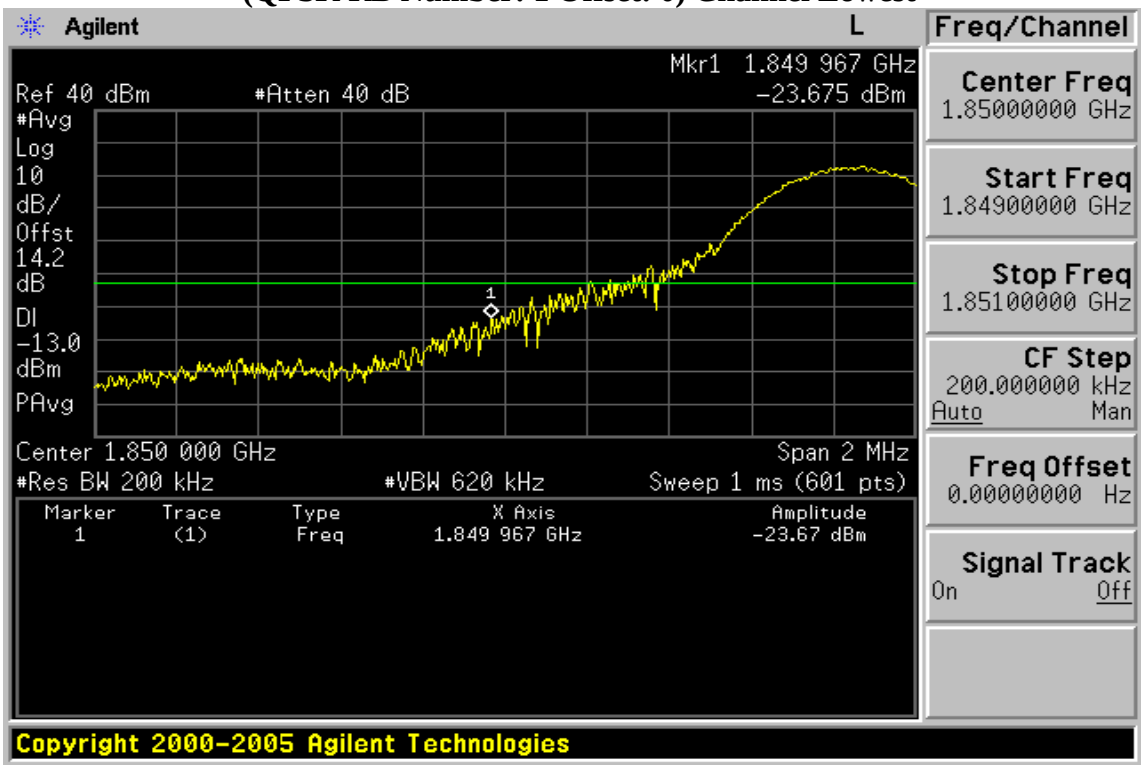
Out of Band emission at antenna terminals–15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highst



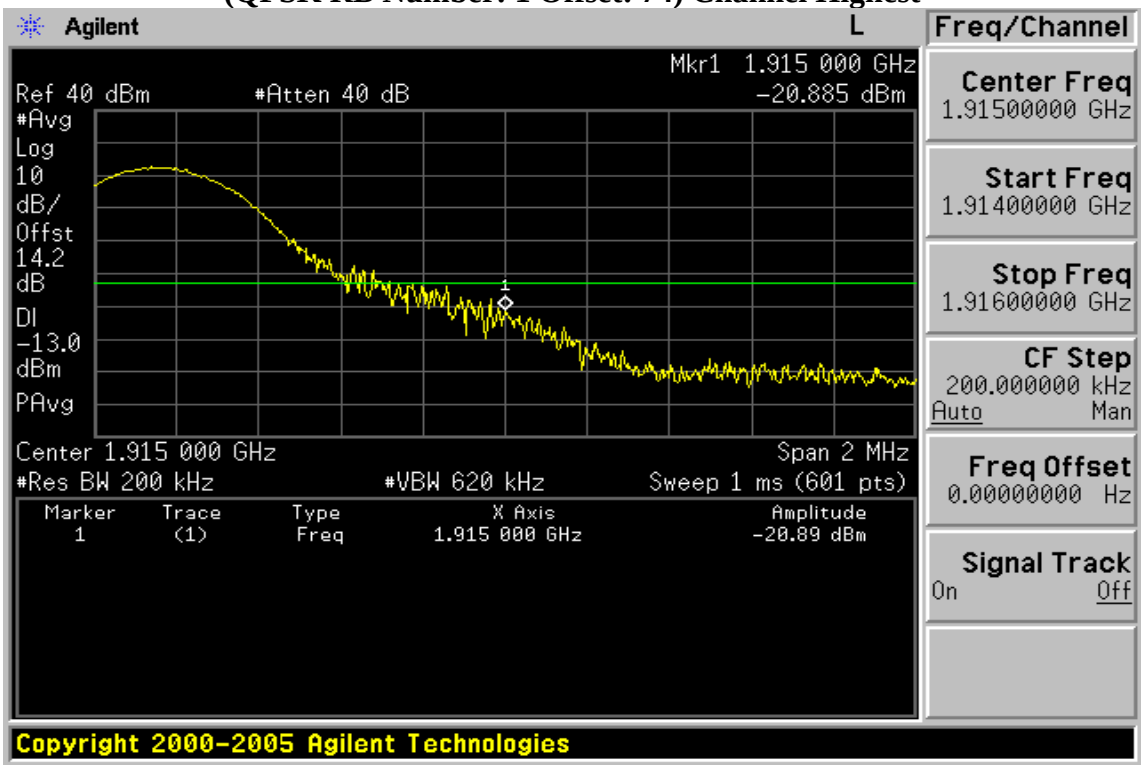


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Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

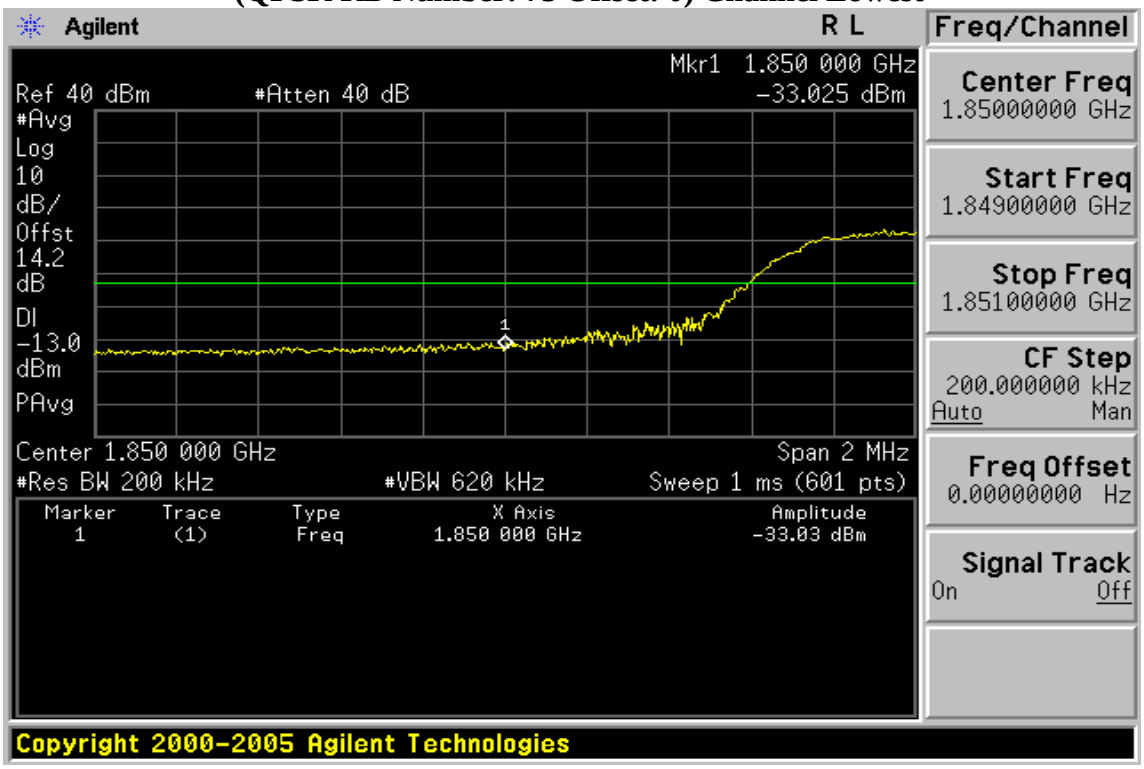


Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 74) Channel Highest

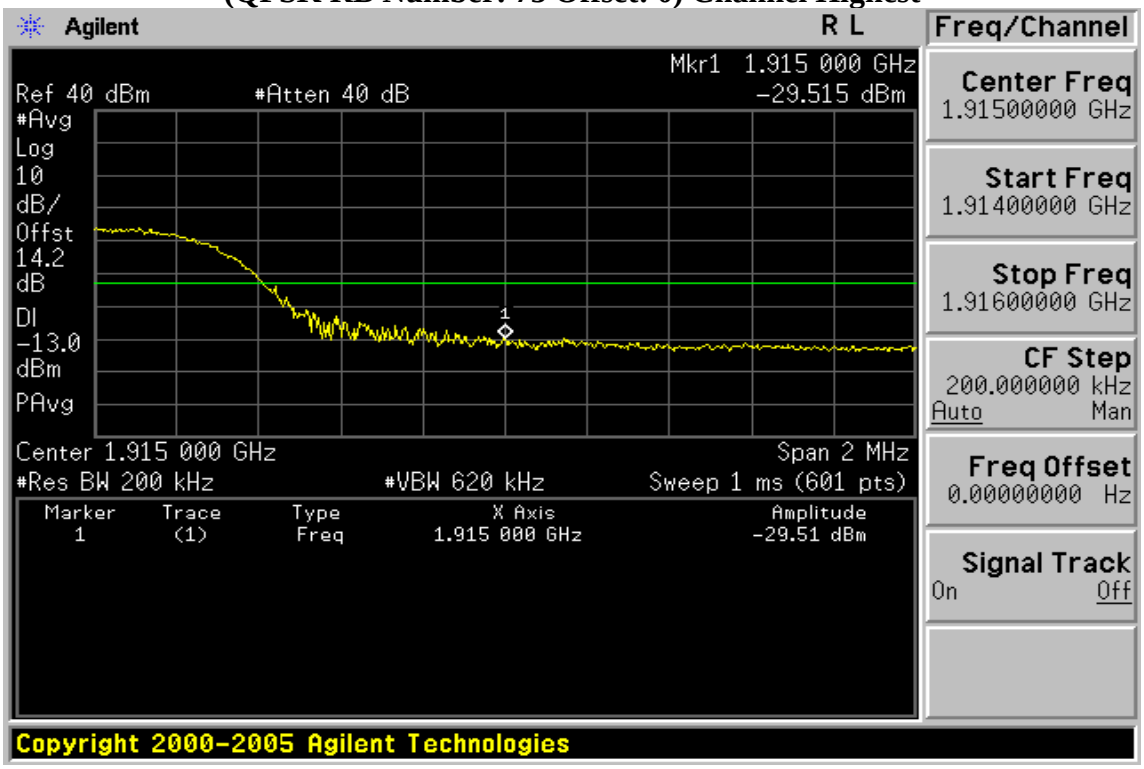


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Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 75 Offset: 0) Channel Lowest

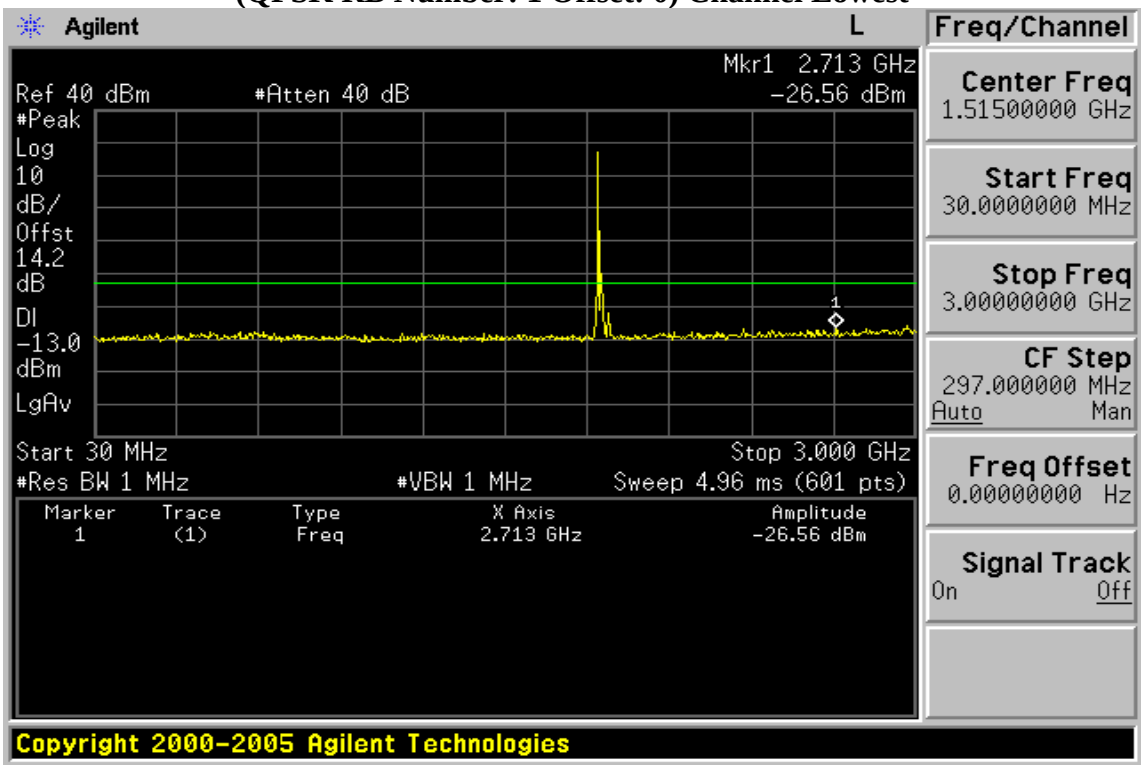


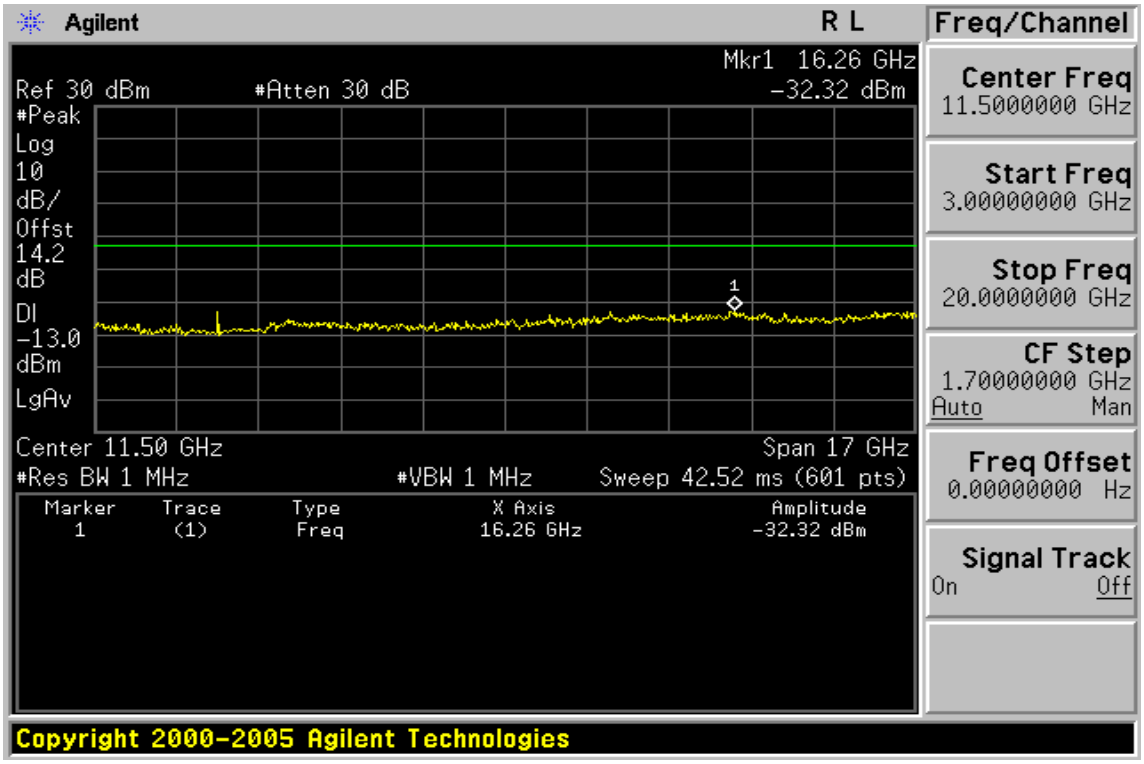
Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 75 Offset: 0) Channel Highest



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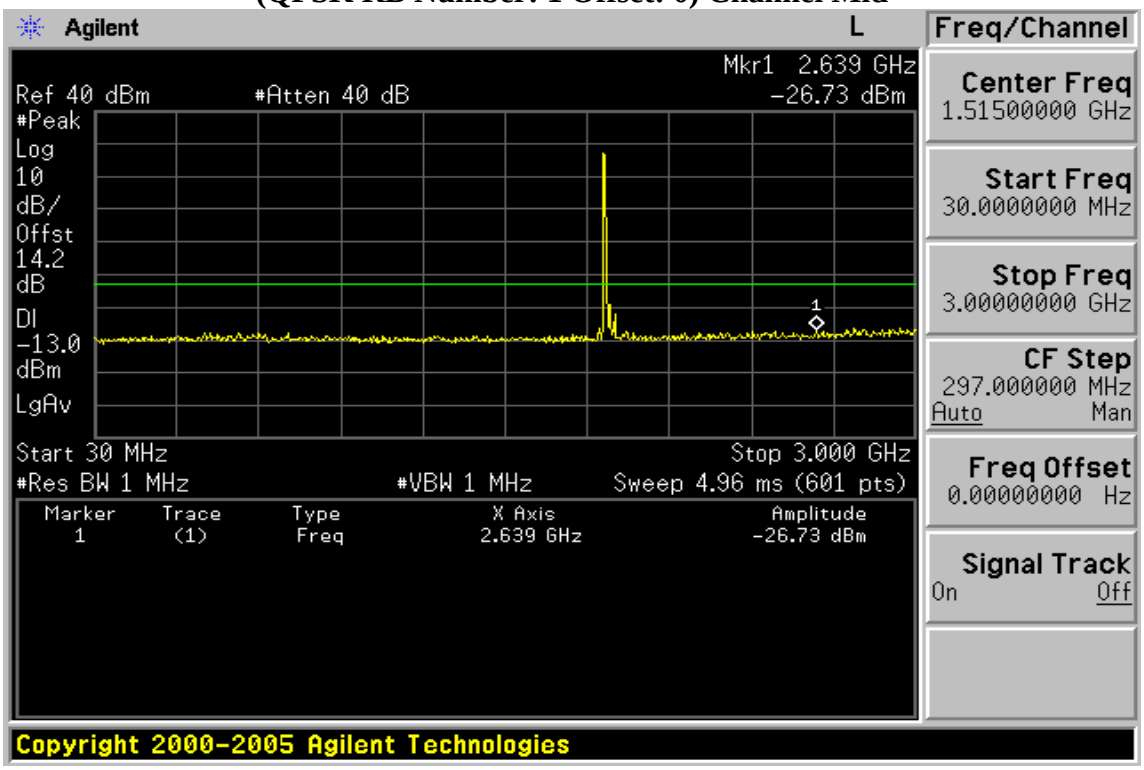
Out of Band emission at antenna terminals–20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

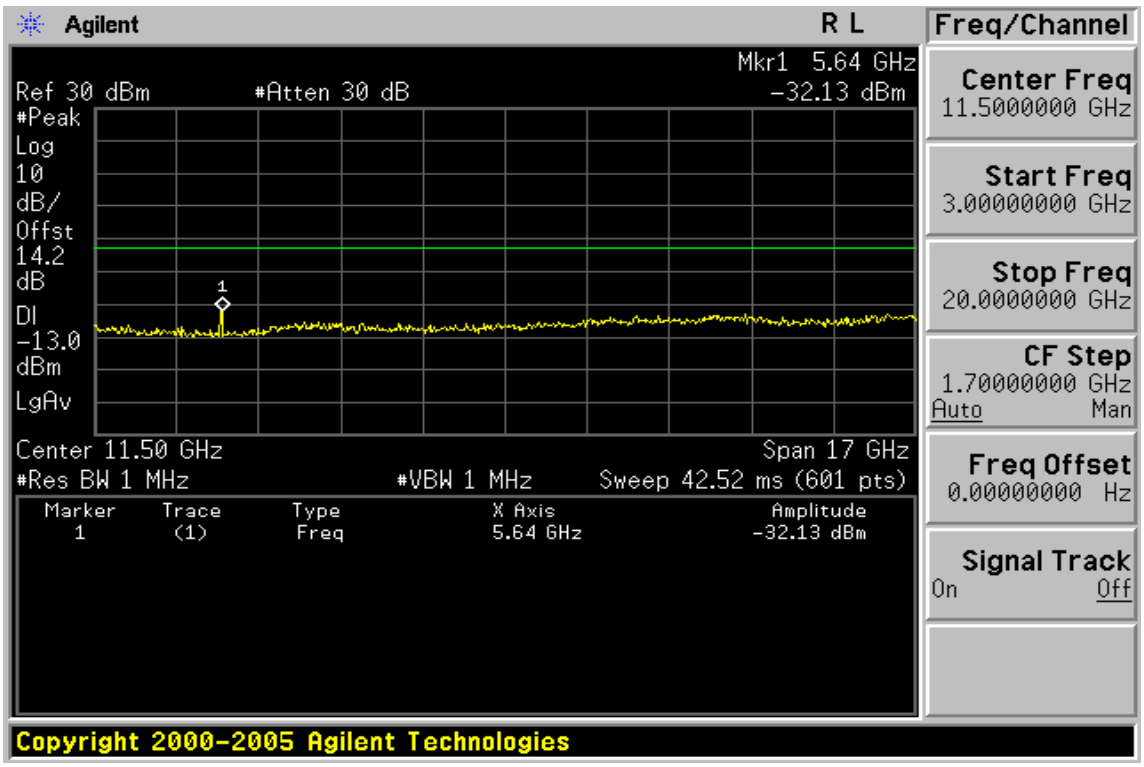




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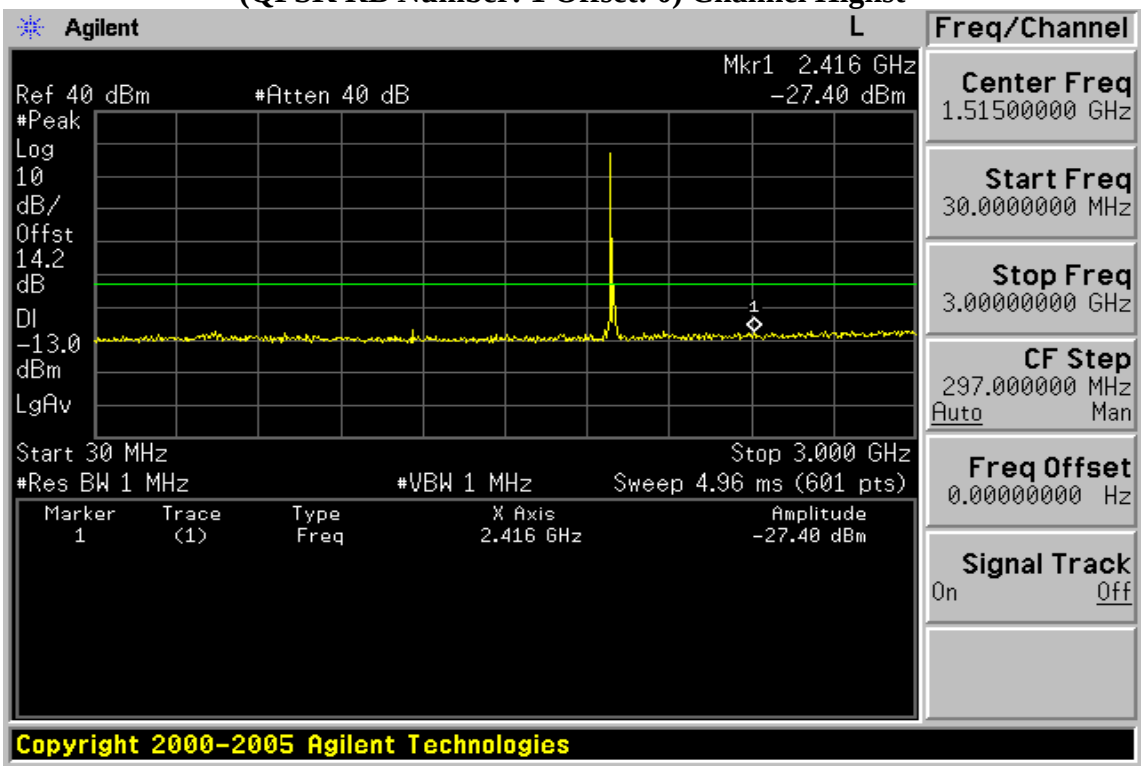
Out of Band emission at antenna terminals–20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid

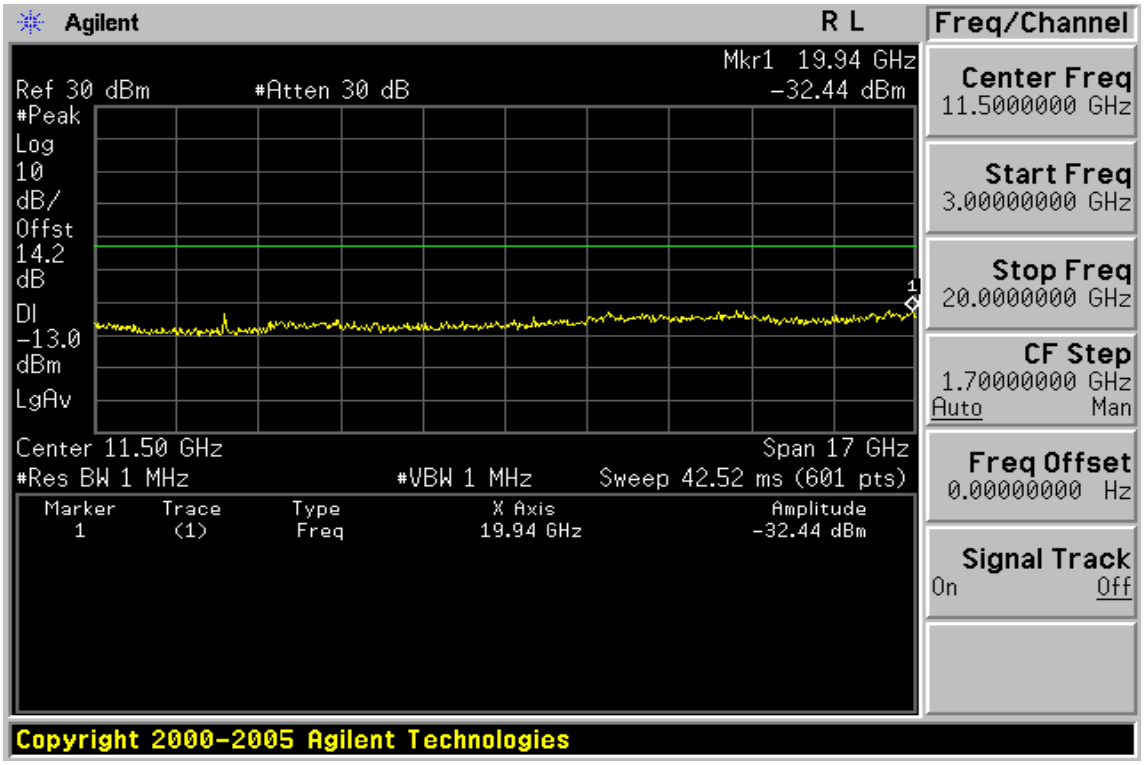




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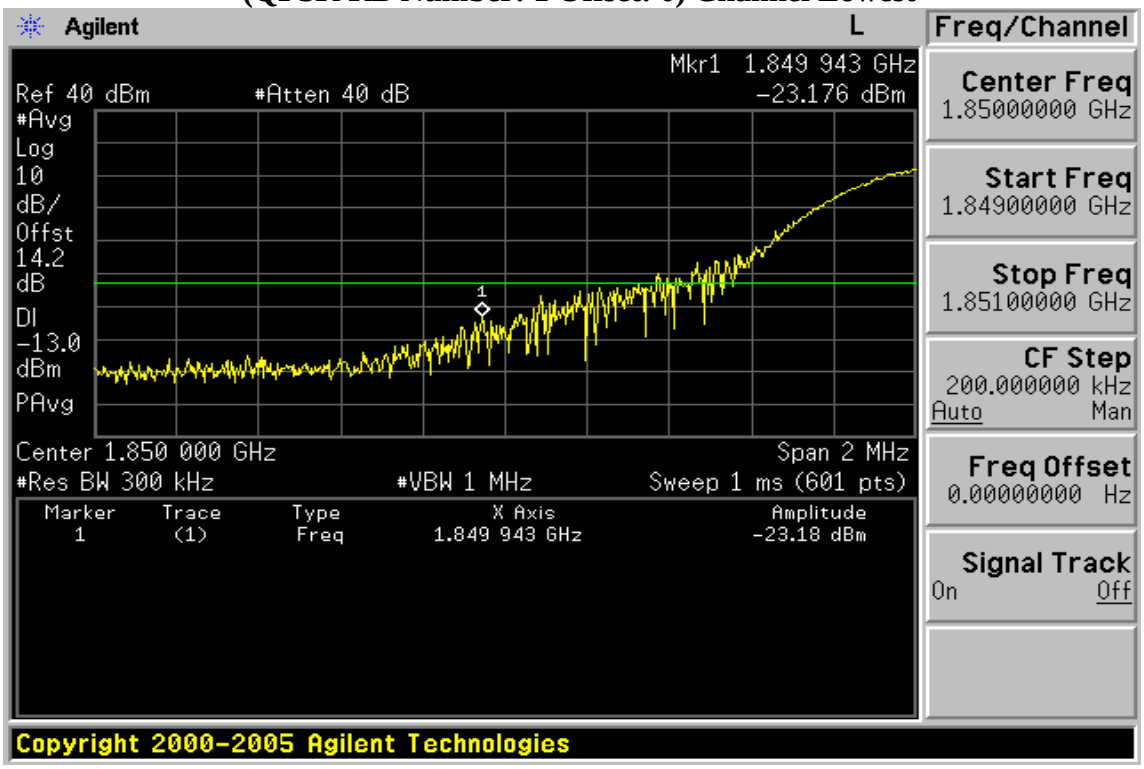
Out of Band emission at antenna terminals–20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highst





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Band edge emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest

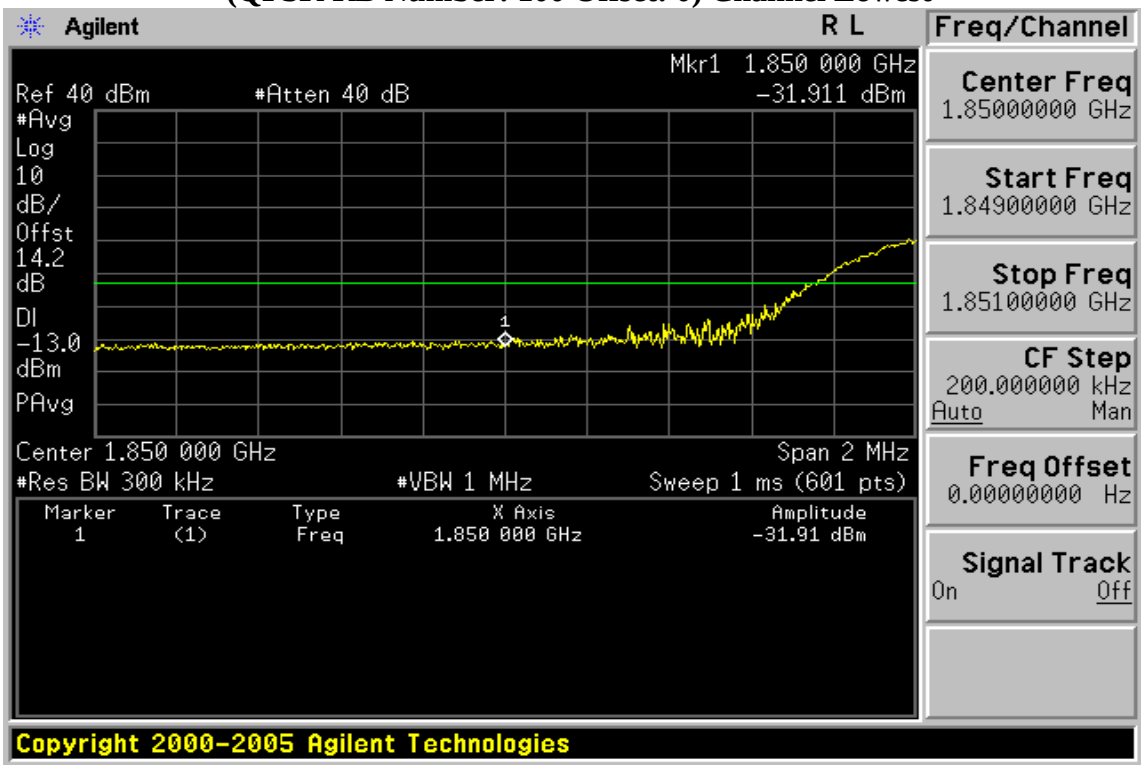


Band edge emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 99) Channel Highest



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Band edge emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 100 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 100 Offset: 0) Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , §90.691(a)(1)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).

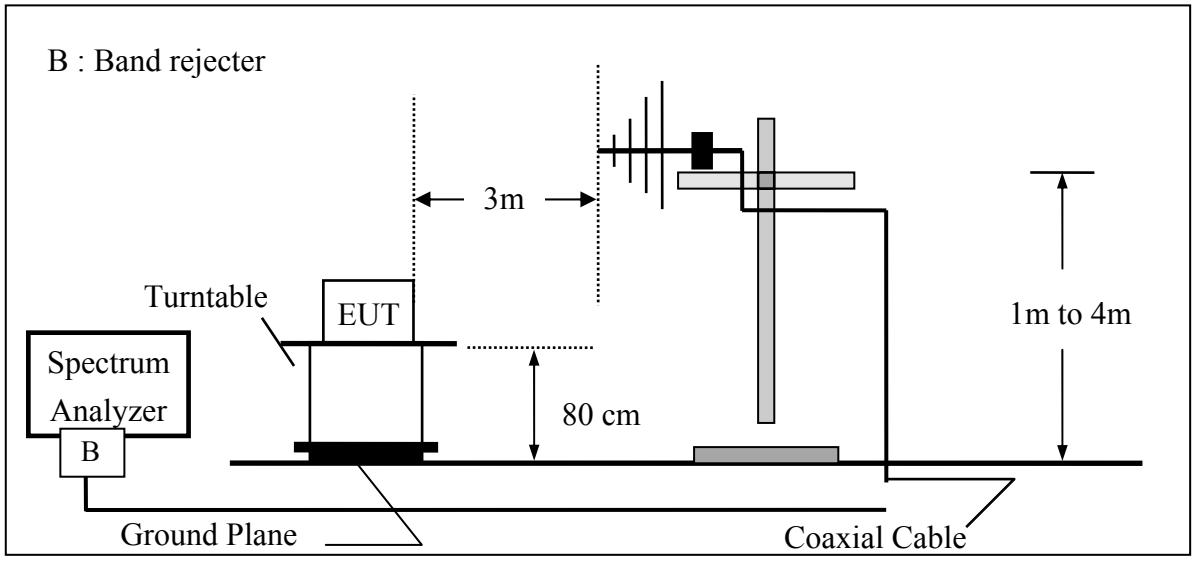
FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c) (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;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

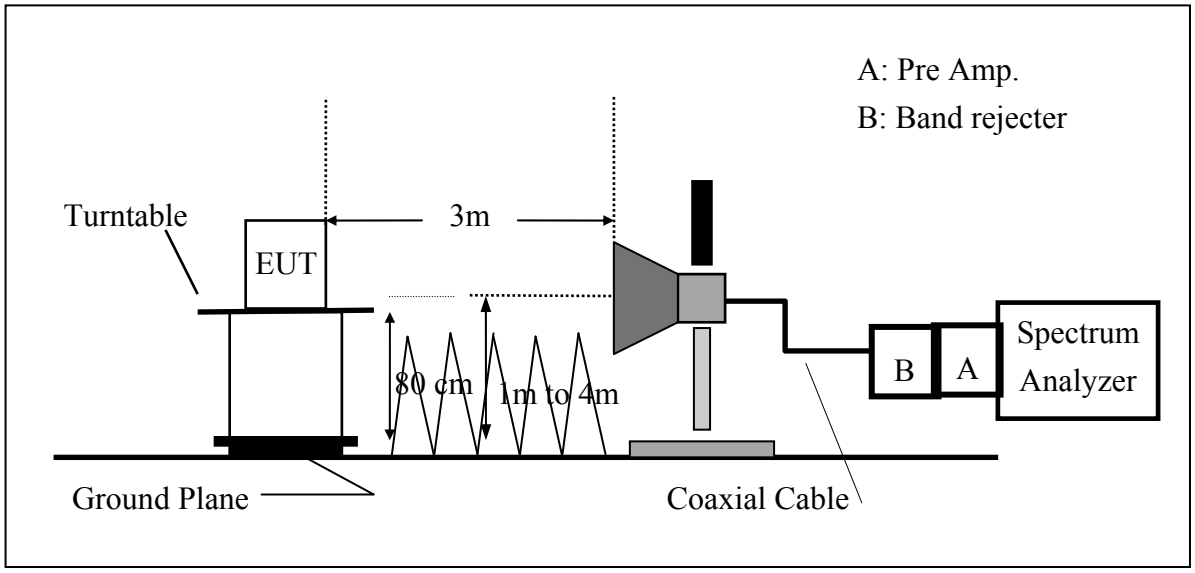
10.2. EUT Setup

(A) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz.



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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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10.4. Measurement Equipment Used:

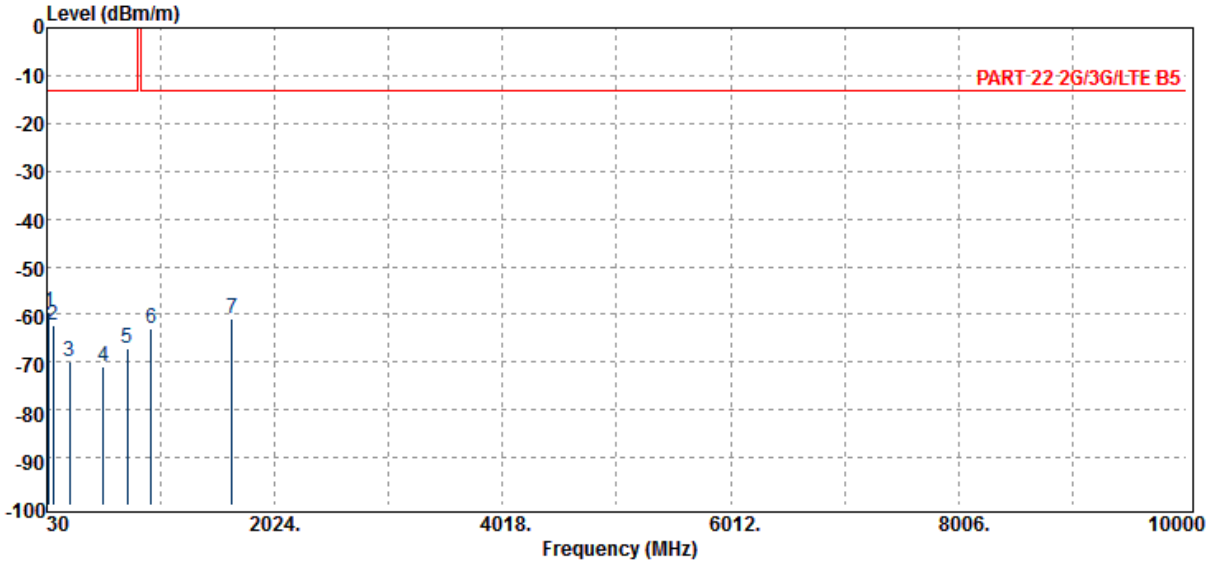
ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
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
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

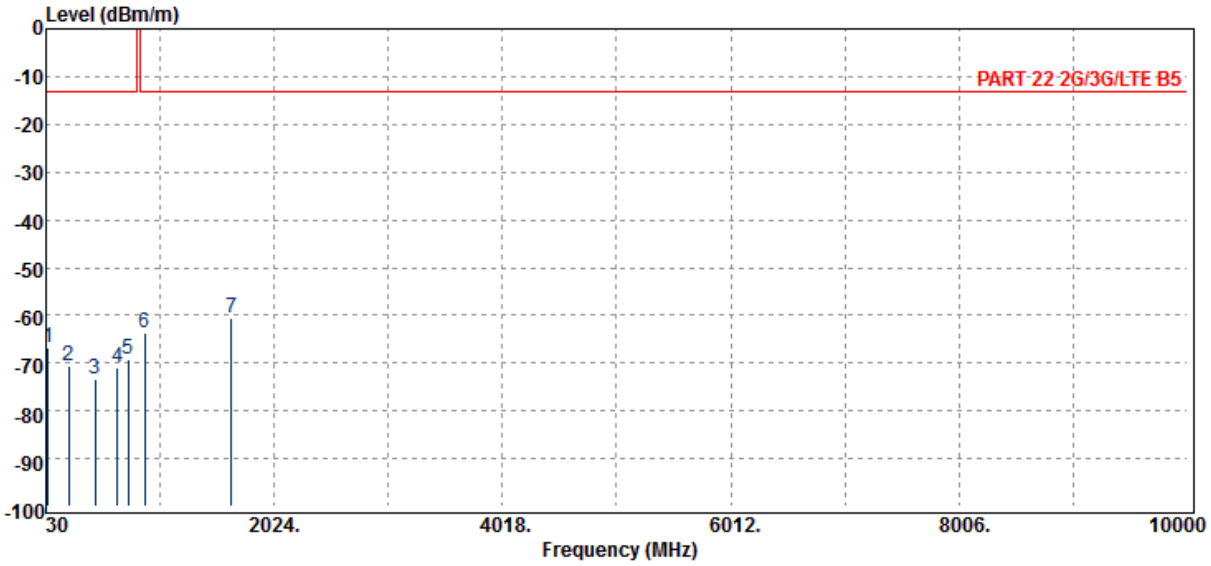
ARFCN	:CH 128	Test Date	:2015-04-08
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-59.40	-46.78	-11.72	-0.90	-13.00	-46.40
85.29	S	-62.35	-59.78	-1.50	-1.07	-13.00	-49.35
231.76	S	-69.86	-71.59	3.31	-1.58	-13.00	-56.86
525.67	S	-70.87	-72.09	3.67	-2.44	-13.00	-57.87
735.19	S	-67.11	-67.76	3.31	-2.66	-13.00	-54.11
942.77	S	-63.05	-63.09	3.24	-3.19	-13.00	-50.05
1648.40	H	-60.84	-59.69	3.05	-4.21	-13.00	-47.84

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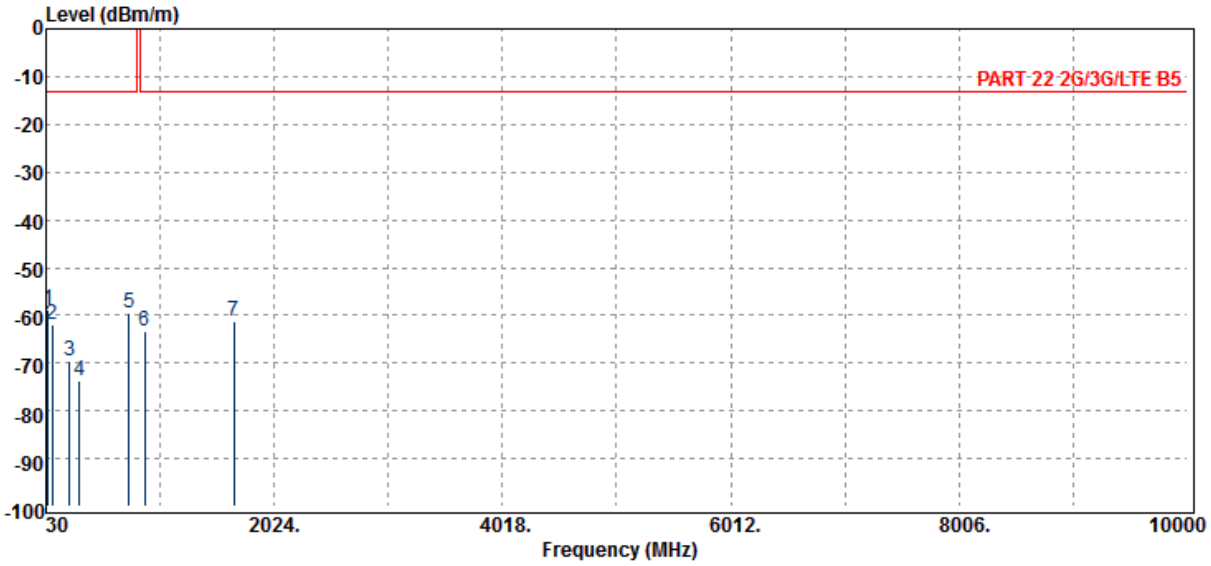
ARFCN	:CH 128	Test Date	:2015-04-08
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
50.37	S	-66.68	-54.44	-11.33	-0.91	-13.00	-53.68
228.85	S	-70.53	-72.27	3.32	-1.58	-13.00	-57.53
459.71	S	-73.39	-74.72	3.43	-2.09	-13.00	-60.39
652.74	S	-70.89	-71.86	3.62	-2.65	-13.00	-57.89
746.83	S	-69.27	-69.87	3.29	-2.69	-13.00	-56.27
890.39	S	-63.67	-63.86	3.30	-3.11	-13.00	-50.67
1648.40	H	-60.65	-59.50	3.05	-4.21	-13.00	-47.65

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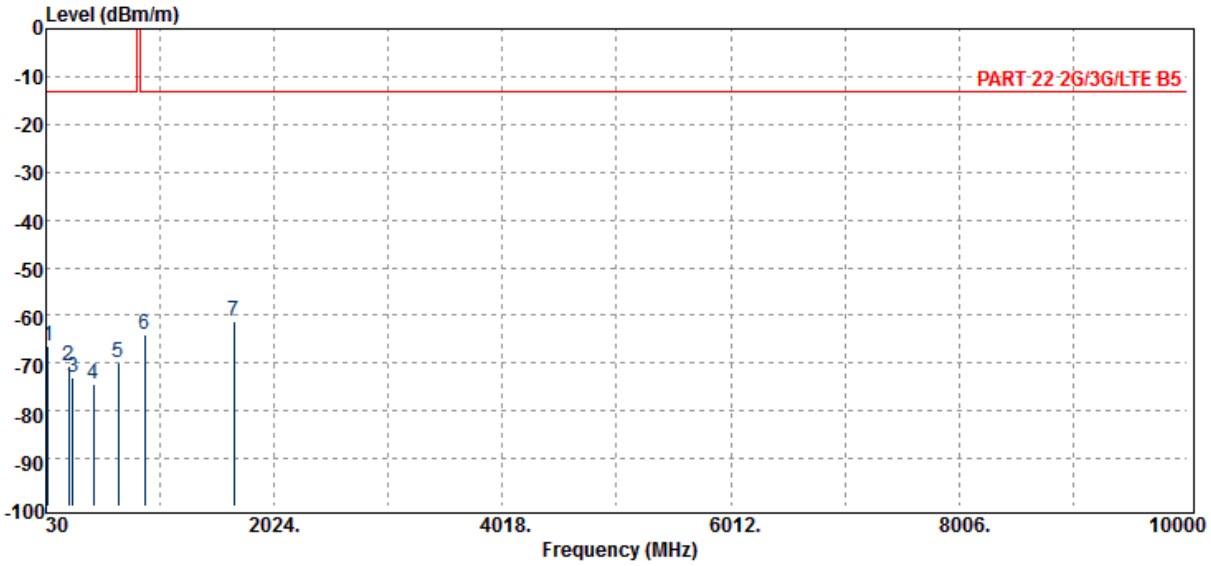
ARFCN	:CH 190	Test Date	:2015-04-08
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-58.71	-46.10	-11.72	-0.90	-13.00	-45.71
85.29	S	-61.88	-59.31	-1.50	-1.07	-13.00	-48.88
232.73	S	-69.58	-71.30	3.31	-1.59	-13.00	-56.58
323.91	S	-73.70	-75.52	3.69	-1.88	-13.00	-60.70
758.47	S	-59.51	-60.10	3.31	-2.72	-13.00	-46.51
891.36	S	-63.35	-63.53	3.30	-3.12	-13.00	-50.35
1673.20	H	-61.08	-59.83	3.01	-4.26	-13.00	-48.08

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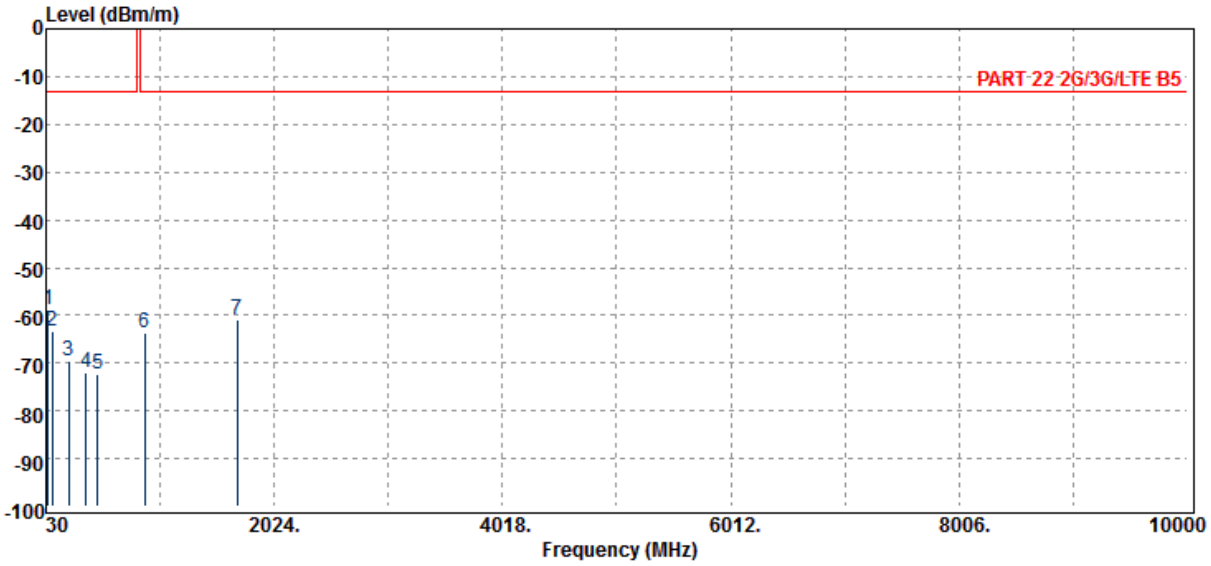
ARFCN	:CH 190	Test Date	:2015-04-08
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-66.45	-53.84	-11.72	-0.90	-13.00	-53.45
229.82	S	-70.62	-72.36	3.31	-1.58	-13.00	-57.62
262.80	S	-72.88	-74.86	3.66	-1.67	-13.00	-59.88
442.25	S	-74.40	-75.75	3.39	-2.04	-13.00	-61.40
660.50	S	-70.00	-70.93	3.58	-2.65	-13.00	-57.00
891.36	S	-63.95	-64.13	3.30	-3.12	-13.00	-50.95
1673.20	H	-61.19	-59.94	3.01	-4.26	-13.00	-48.19

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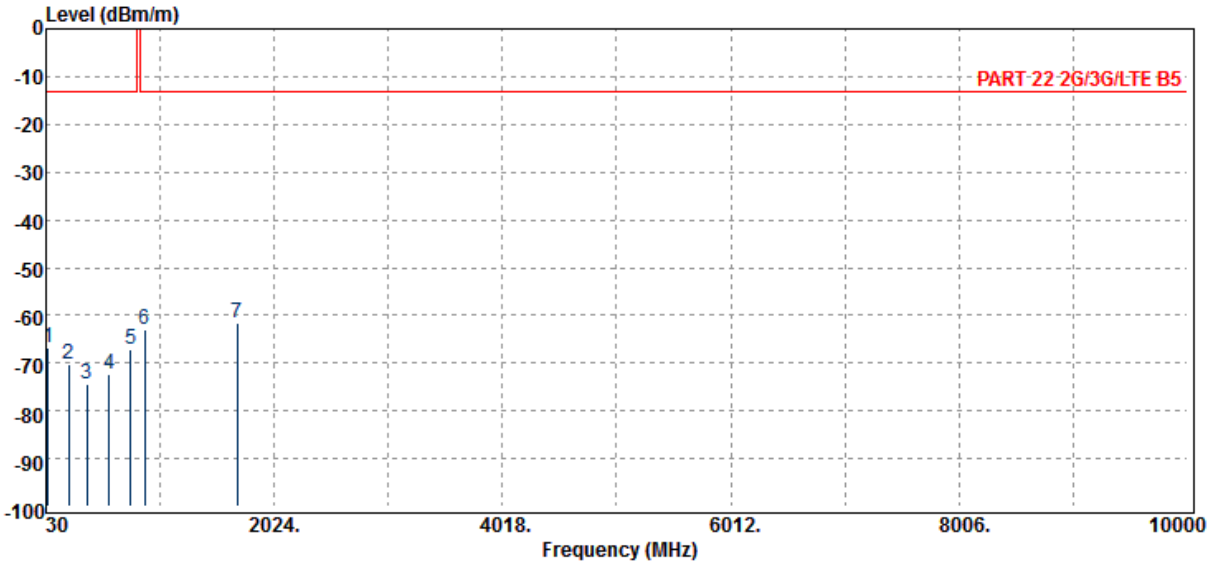
ARFCN	:CH 251	Test Date	:2015-04-08
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-58.97	-46.36	-11.72	-0.90	-13.00	-45.97
84.32	S	-63.20	-60.42	-1.72	-1.07	-13.00	-50.20
231.76	S	-69.69	-71.41	3.31	-1.58	-13.00	-56.69
378.23	S	-71.90	-73.62	3.68	-1.95	-13.00	-58.90
481.05	S	-72.16	-73.58	3.61	-2.19	-13.00	-59.16
892.33	S	-63.77	-63.95	3.30	-3.12	-13.00	-50.77
1697.60	H	-60.89	-59.58	2.96	-4.28	-13.00	-47.89

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ARFCN	:CH 251	Test Date	:2015-04-08
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

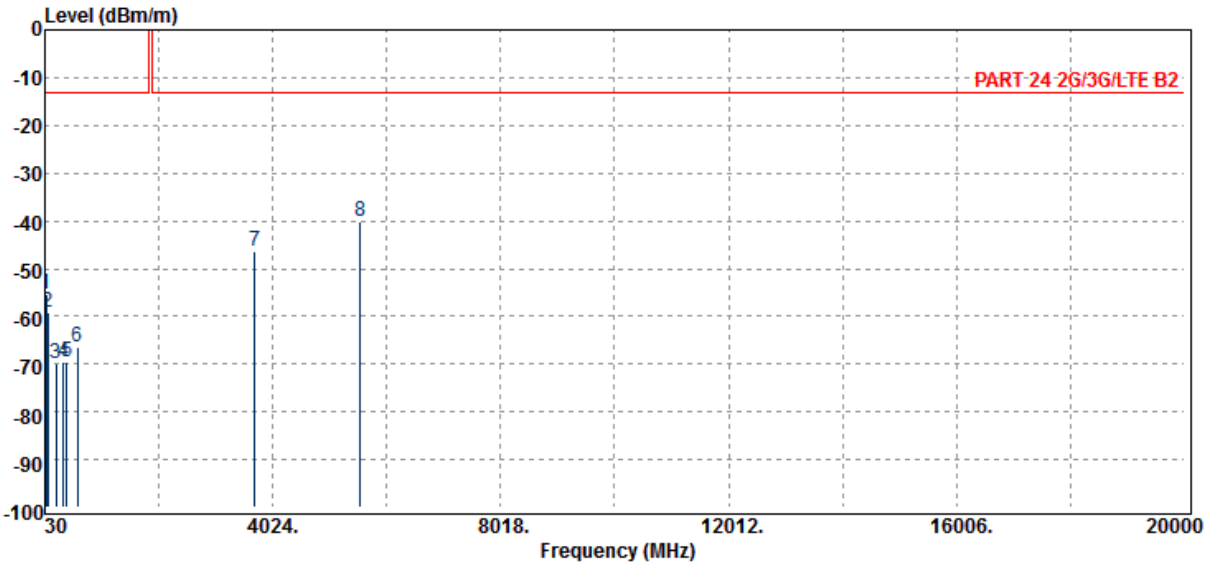


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-66.79	-54.00	-11.89	-0.89	-13.00	-53.79
230.79	S	-70.17	-71.91	3.31	-1.58	-13.00	-57.17
389.87	S	-74.42	-76.12	3.65	-1.95	-13.00	-61.42
579.99	S	-72.22	-73.00	3.50	-2.72	-13.00	-59.22
771.08	S	-67.24	-67.84	3.35	-2.75	-13.00	-54.24
891.36	S	-63.05	-63.24	3.30	-3.12	-13.00	-50.05
1697.60	H	-61.44	-60.12	2.96	-4.28	-13.00	-48.44

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

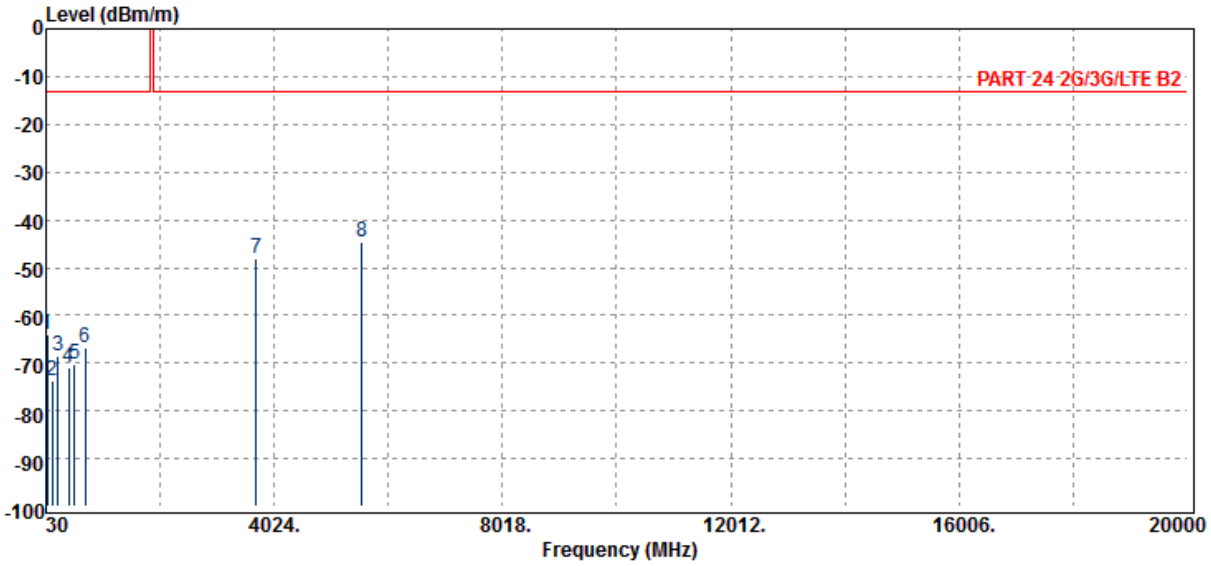
ARFCN	:CH 512	Test Date	:2015-04-08
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-55.23	-44.60	-9.74	-0.89	-13.00	-42.23
86.26	S	-59.32	-59.12	0.88	-1.08	-13.00	-46.32
227.88	S	-70.06	-73.95	5.47	-1.57	-13.00	-57.06
359.80	S	-69.40	-73.32	5.88	-1.96	-13.00	-56.40
415.09	S	-69.65	-73.37	5.68	-1.96	-13.00	-56.65
601.33	S	-66.51	-69.36	5.60	-2.74	-13.00	-53.51
3700.40	H	-46.53	-48.07	8.43	-6.88	-13.00	-33.53
5550.60	H	-40.04	-41.59	10.10	-8.55	-13.00	-27.04

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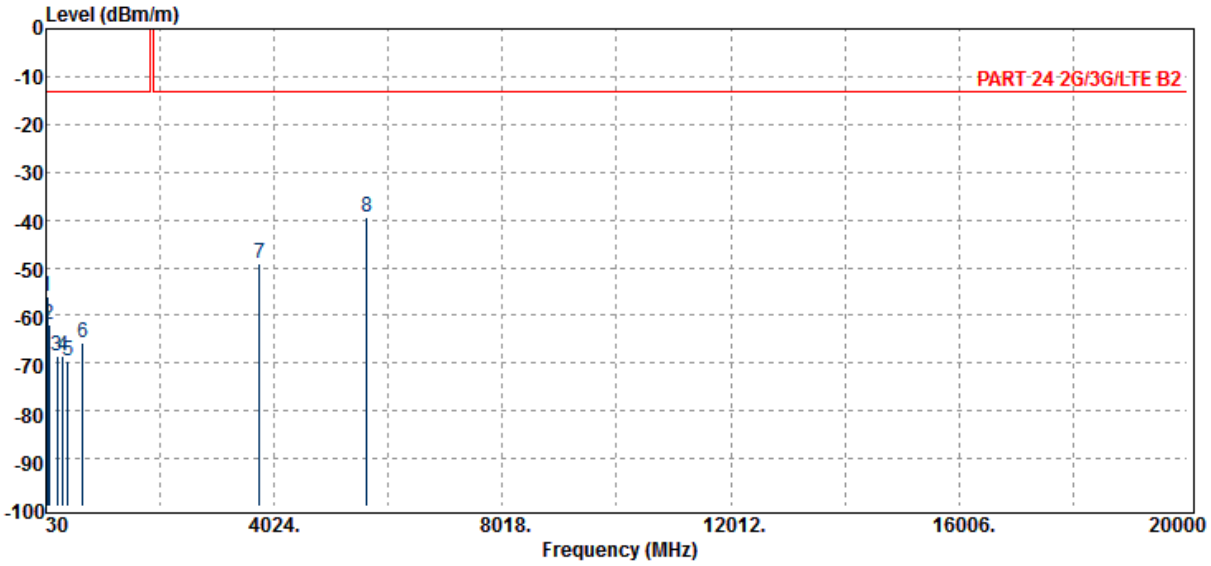
ARFCN	:CH 512	Test Date	:2015-04-08
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-64.04	-53.58	-9.57	-0.90	-13.00	-51.04
139.61	S	-73.55	-71.77	-0.45	-1.33	-13.00	-60.55
243.40	S	-68.56	-72.43	5.49	-1.62	-13.00	-55.56
432.55	S	-70.90	-74.47	5.59	-2.01	-13.00	-57.90
526.64	S	-70.29	-73.66	5.82	-2.45	-13.00	-57.29
723.55	S	-66.90	-69.75	5.48	-2.63	-13.00	-53.90
3700.40	H	-48.19	-49.73	8.43	-6.88	-13.00	-35.19
5550.60	H	-44.76	-46.31	10.10	-8.55	-13.00	-31.76

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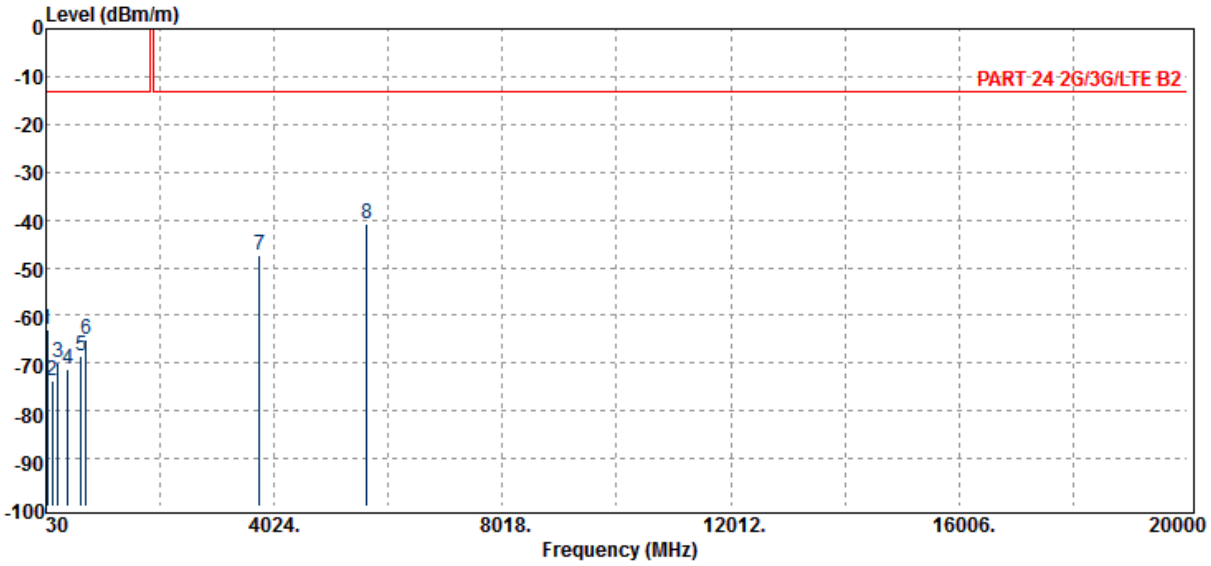
ARFCN	:CH 661	Test Date	:2015-04-08
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-56.09	-45.63	-9.57	-0.90	-13.00	-43.09
86.26	S	-61.91	-61.71	0.88	-1.08	-13.00	-48.91
231.76	S	-68.35	-72.23	5.46	-1.58	-13.00	-55.35
324.88	S	-68.44	-72.41	5.84	-1.88	-13.00	-55.44
415.09	S	-69.45	-73.17	5.68	-1.96	-13.00	-56.45
671.17	S	-65.72	-68.76	5.68	-2.64	-13.00	-52.72
3760.00	H	-49.13	-50.57	8.46	-7.02	-13.00	-36.13
5640.00	H	-39.37	-40.89	10.11	-8.59	-13.00	-26.37

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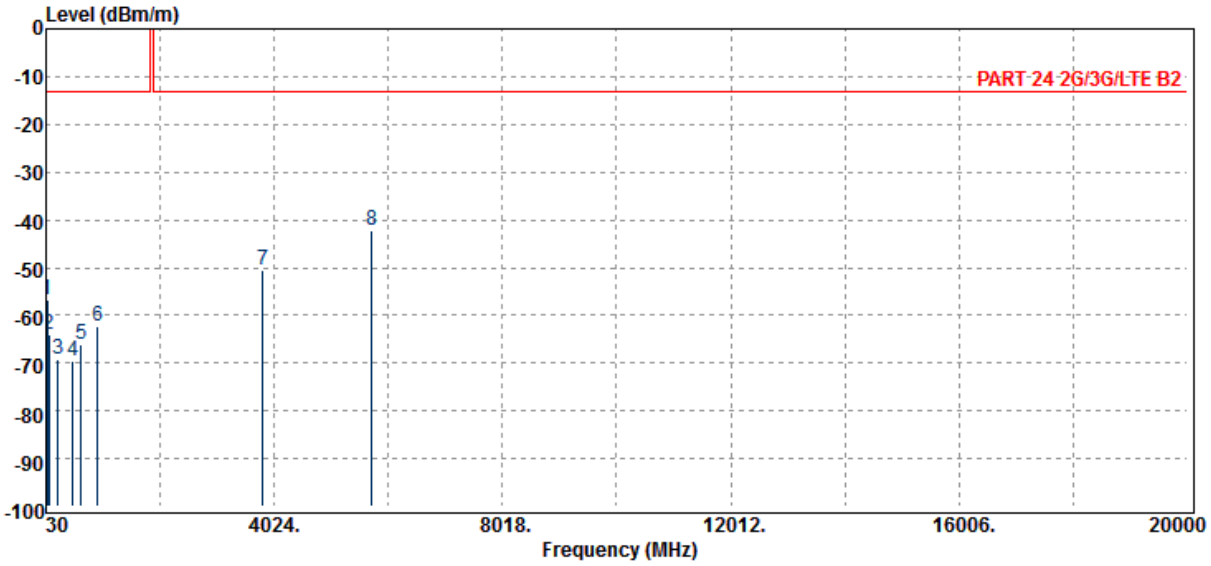
ARFCN	:CH 661	Test Date	:2015-04-08
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-62.99	-52.36	-9.74	-0.89	-13.00	-49.99
135.73	S	-73.54	-71.81	-0.42	-1.31	-13.00	-60.54
241.46	S	-69.80	-73.64	5.46	-1.61	-13.00	-56.80
414.12	S	-71.19	-74.93	5.69	-1.95	-13.00	-58.19
644.98	S	-68.61	-71.72	5.77	-2.67	-13.00	-55.61
730.34	S	-65.10	-67.92	5.47	-2.65	-13.00	-52.10
3760.00	H	-47.49	-48.93	8.46	-7.02	-13.00	-34.49
5640.00	H	-40.82	-42.34	10.11	-8.59	-13.00	-27.82

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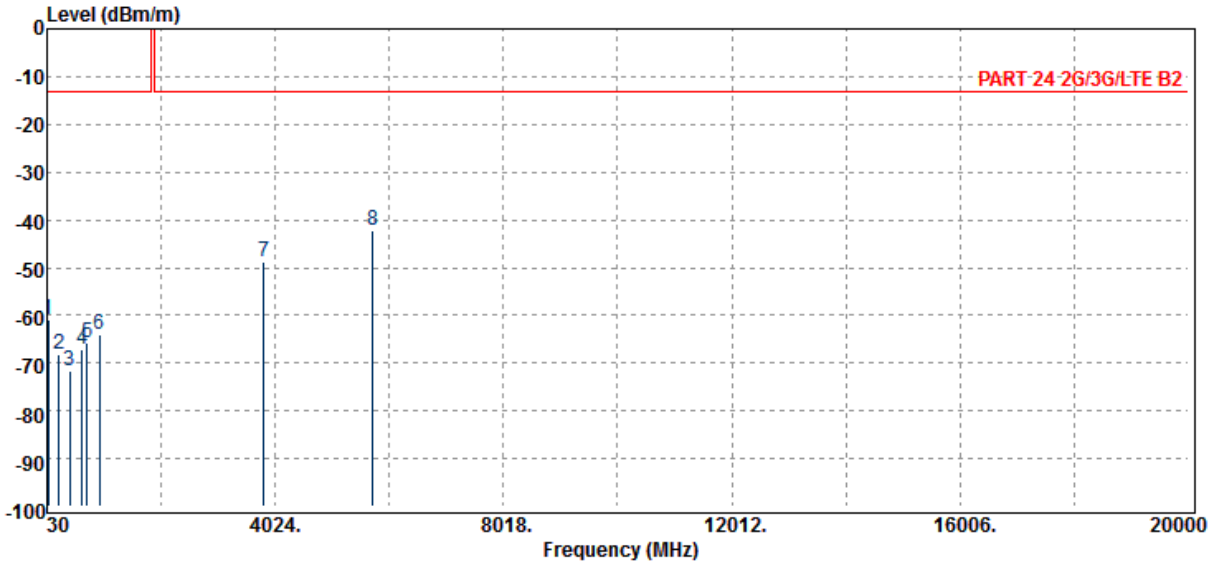
ARFCN	:CH 810	Test Date	:2015-04-08
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-56.77	-46.14	-9.74	-0.89	-13.00	-43.77
86.26	S	-63.94	-63.74	0.88	-1.08	-13.00	-50.94
234.67	S	-69.11	-72.97	5.45	-1.59	-13.00	-56.11
504.33	S	-69.68	-73.24	5.89	-2.33	-13.00	-56.68
647.89	S	-65.92	-69.04	5.78	-2.66	-13.00	-52.92
939.86	S	-62.17	-64.37	5.39	-3.19	-13.00	-49.17
3819.60	H	-50.44	-51.89	8.50	-7.05	-13.00	-37.44
5729.40	H	-42.23	-43.71	10.12	-8.64	-13.00	-29.23

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ARFCN	:CH 810	Test Date	:2015-04-08
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

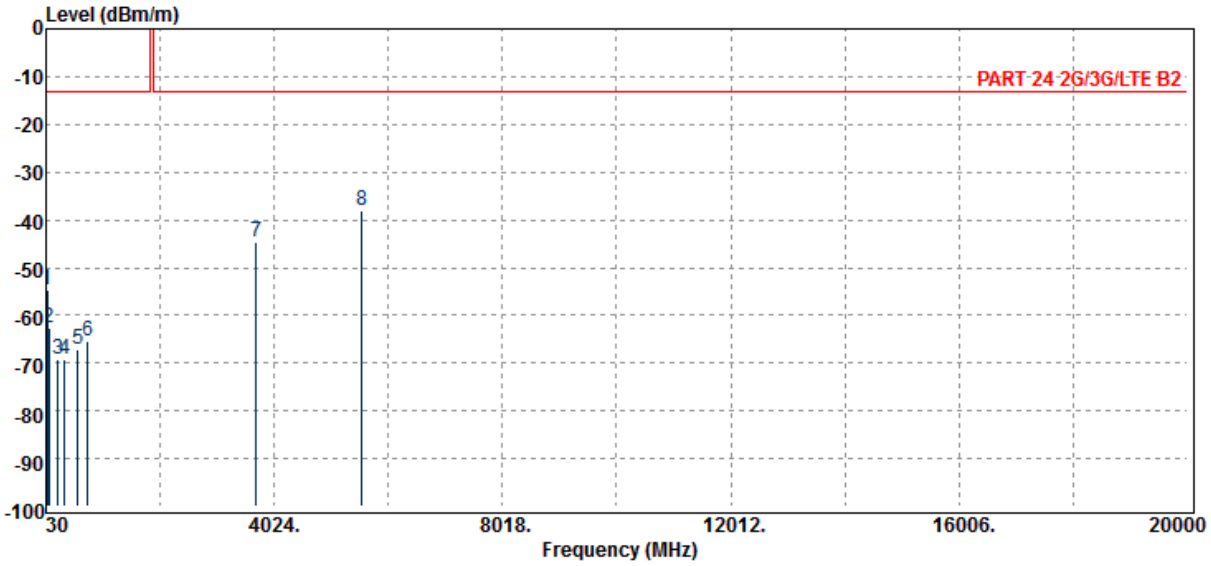


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-61.00	-50.37	-9.74	-0.89	-13.00	-48.00
241.46	S	-68.00	-71.85	5.46	-1.61	-13.00	-55.00
421.88	S	-71.53	-75.20	5.65	-1.98	-13.00	-58.53
642.07	S	-67.16	-70.25	5.76	-2.67	-13.00	-54.16
732.28	S	-65.87	-68.68	5.47	-2.65	-13.00	-52.87
946.65	S	-64.07	-66.25	5.39	-3.20	-13.00	-51.07
3819.60	H	-48.68	-50.13	8.50	-7.05	-13.00	-35.68
5729.40	H	-42.07	-43.55	10.12	-8.64	-13.00	-29.07

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

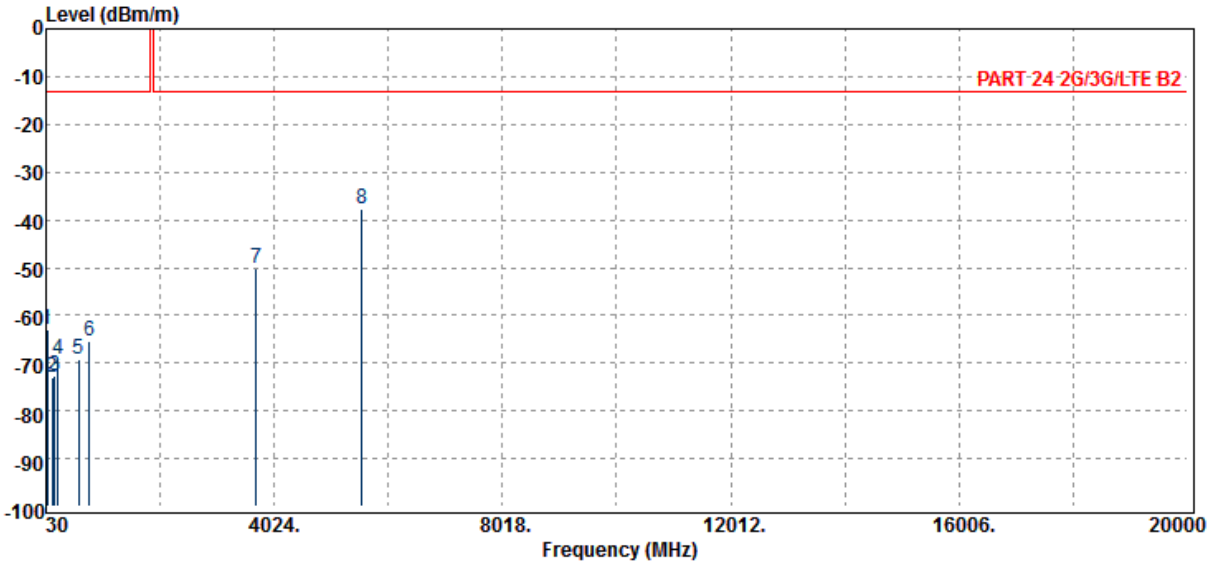
ARFCN	:CH 9262	Test Date	:2015-04-08
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-54.69	-44.06	-9.74	-0.89	-13.00	-41.69
86.26	S	-62.64	-62.45	0.88	-1.08	-13.00	-49.64
235.64	S	-69.20	-73.05	5.45	-1.59	-13.00	-56.20
360.77	S	-69.09	-73.00	5.88	-1.96	-13.00	-56.09
583.87	S	-67.27	-70.17	5.64	-2.74	-13.00	-54.27
764.29	S	-65.52	-68.27	5.48	-2.73	-13.00	-52.52
3704.80	H	-44.57	-46.11	8.43	-6.89	-13.00	-31.57
5557.20	H	-37.98	-39.54	10.10	-8.54	-13.00	-24.98

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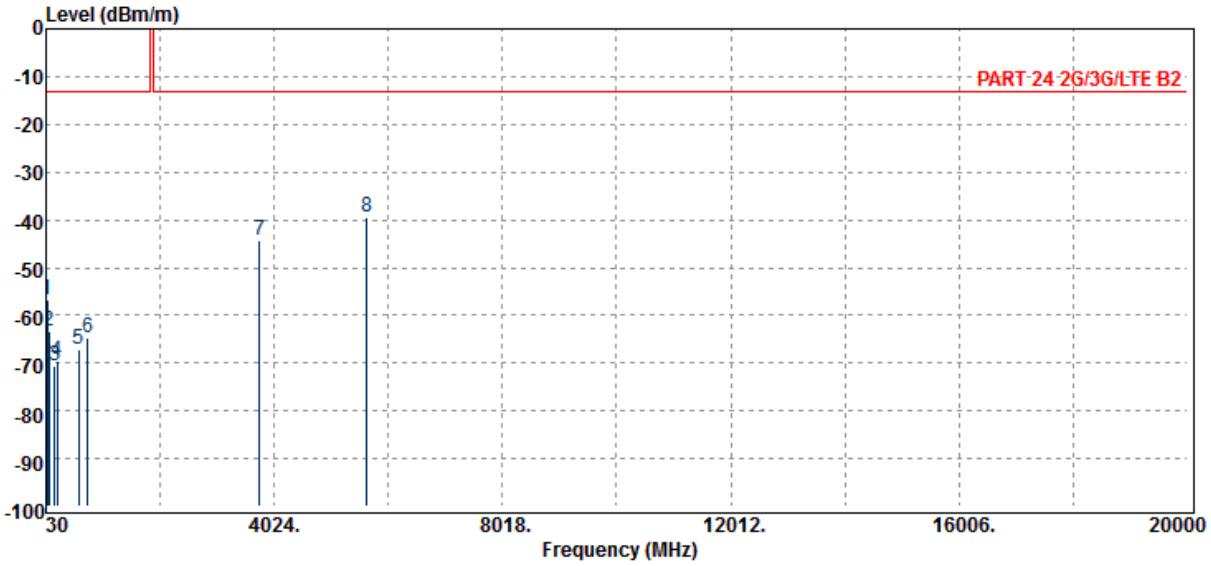
ARFCN	:CH 9262	Test Date	:2015-04-08
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-62.96	-52.33	-9.74	-0.89	-13.00	-49.96
138.64	S	-72.92	-71.16	-0.44	-1.33	-13.00	-59.92
180.35	S	-72.64	-74.33	3.20	-1.50	-13.00	-59.64
243.40	S	-69.27	-73.14	5.49	-1.62	-13.00	-56.27
596.48	S	-69.21	-72.06	5.60	-2.75	-13.00	-56.21
781.75	S	-65.56	-68.31	5.53	-2.79	-13.00	-52.56
3704.80	H	-50.06	-51.60	8.43	-6.89	-13.00	-37.06
5557.20	H	-37.75	-39.32	10.10	-8.54	-13.00	-24.75

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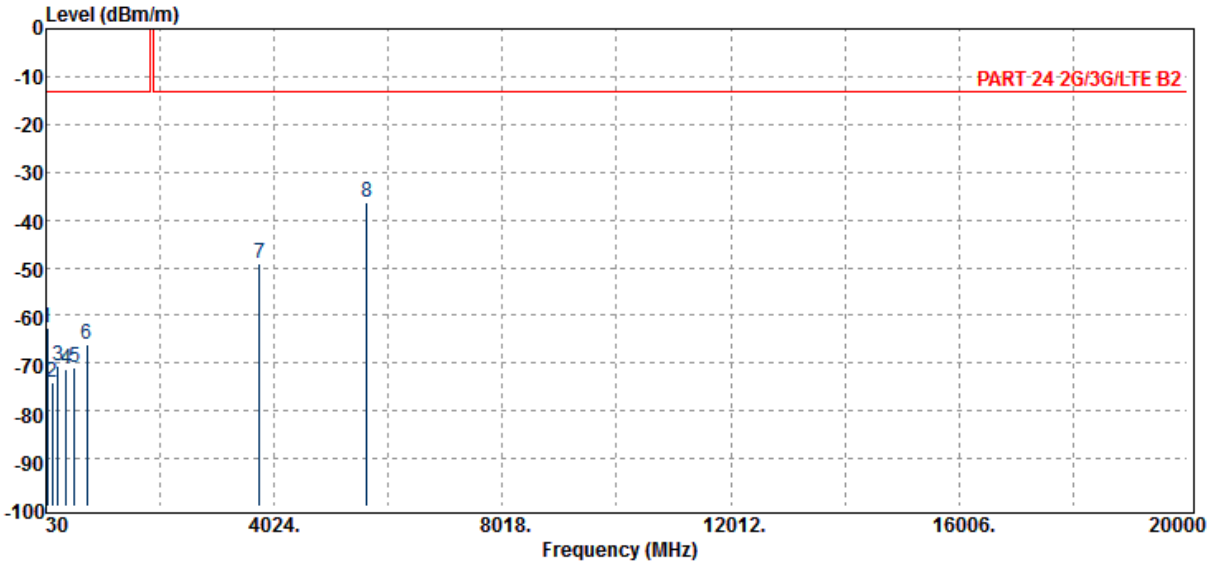
ARFCN	:CH 9400	Test Date	:2015-04-08
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-56.80	-46.34	-9.57	-0.90	-13.00	-43.80
86.26	S	-63.39	-63.19	0.88	-1.08	-13.00	-50.39
179.38	S	-70.47	-72.00	3.03	-1.50	-13.00	-57.47
227.88	S	-69.48	-73.38	5.47	-1.57	-13.00	-56.48
605.21	S	-67.01	-69.89	5.61	-2.74	-13.00	-54.01
755.56	S	-64.68	-67.42	5.45	-2.71	-13.00	-51.68
3760.00	H	-44.39	-45.83	8.46	-7.02	-13.00	-31.39
5640.00	H	-39.60	-41.13	10.11	-8.59	-13.00	-26.60

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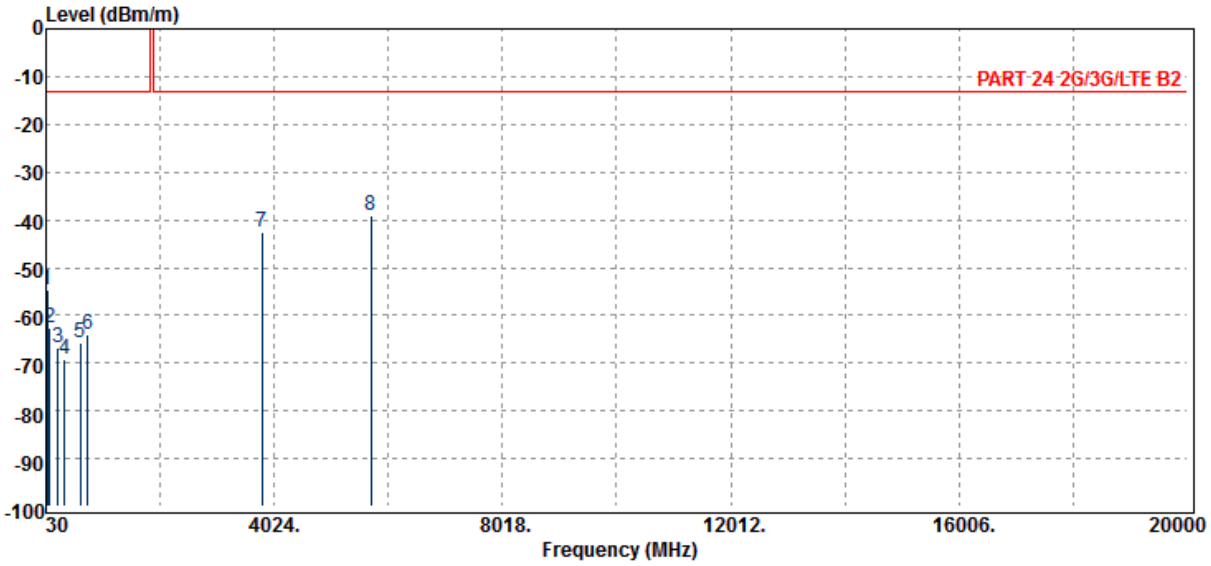
ARFCN	:CH 9400	Test Date	:2015-04-08
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-62.55	-52.09	-9.57	-0.90	-13.00	-49.55
138.64	S	-73.95	-72.18	-0.44	-1.33	-13.00	-60.95
243.40	S	-70.55	-74.42	5.49	-1.62	-13.00	-57.55
377.26	S	-71.38	-75.26	5.83	-1.96	-13.00	-58.38
524.70	S	-70.86	-74.24	5.82	-2.44	-13.00	-57.86
743.92	S	-66.23	-68.99	5.44	-2.68	-13.00	-53.23
3760.00	H	-49.01	-50.45	8.46	-7.02	-13.00	-36.01
5640.00	H	-36.20	-37.72	10.11	-8.59	-13.00	-23.20

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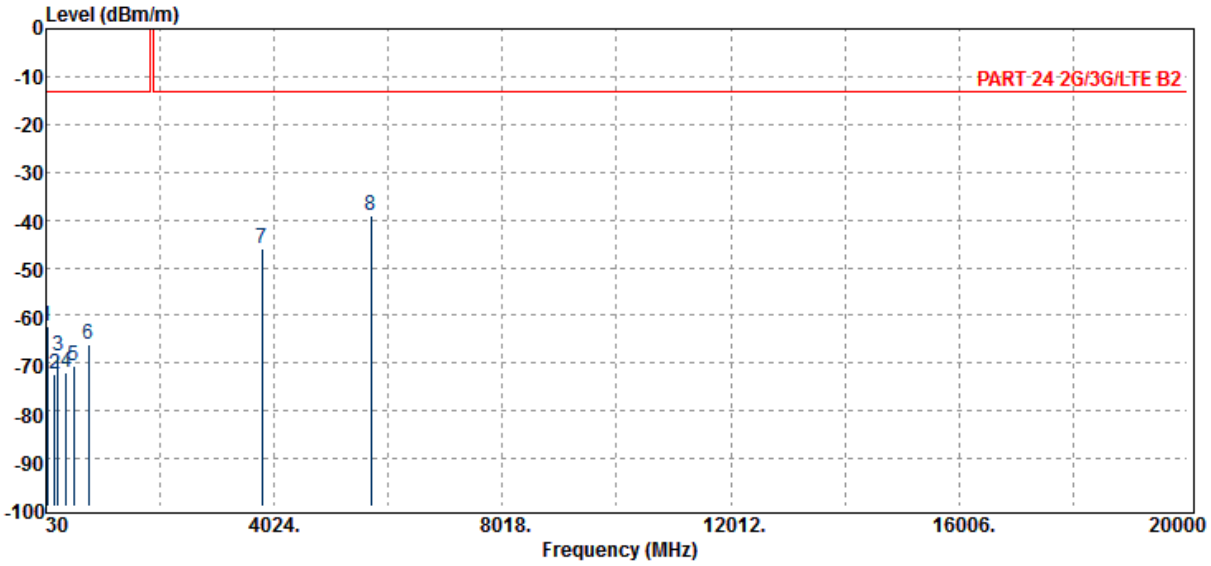
ARFCN	:CH 9538	Test Date	:2015-04-08
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-54.64	-44.01	-9.74	-0.89	-13.00	-41.64
88.20	S	-62.63	-62.86	1.32	-1.08	-13.00	-49.63
233.70	S	-66.95	-70.81	5.45	-1.59	-13.00	-53.95
360.77	S	-69.05	-72.97	5.88	-1.96	-13.00	-56.05
635.28	S	-65.69	-68.74	5.73	-2.68	-13.00	-52.69
766.23	S	-63.85	-66.60	5.48	-2.73	-13.00	-50.85
3815.20	H	-42.60	-44.04	8.49	-7.05	-13.00	-29.60
5722.80	H	-39.08	-40.57	10.12	-8.63	-13.00	-26.08

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ARFCN	:CH 9538	Test Date	:2015-04-08
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

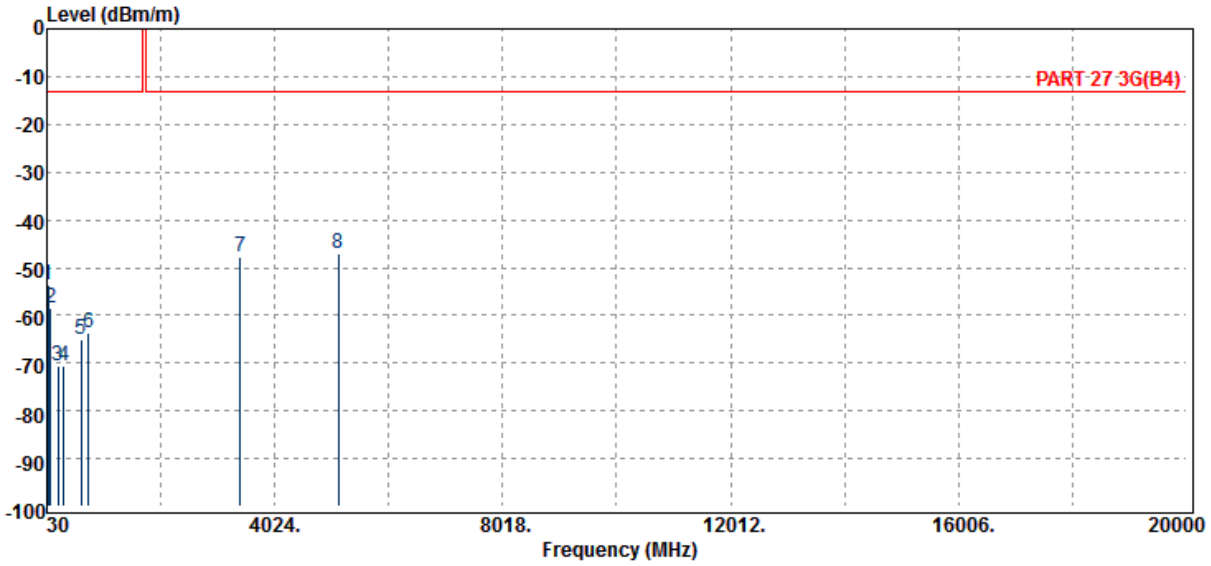


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-62.40	-51.77	-9.74	-0.89	-13.00	-49.40
181.32	S	-72.26	-74.12	3.36	-1.50	-13.00	-59.26
241.46	S	-68.57	-72.42	5.46	-1.61	-13.00	-55.57
383.08	S	-71.85	-75.72	5.82	-1.95	-13.00	-58.85
519.85	S	-70.51	-73.93	5.84	-2.41	-13.00	-57.51
768.17	S	-66.09	-68.84	5.49	-2.74	-13.00	-53.09
3815.20	H	-46.18	-47.63	8.49	-7.05	-13.00	-33.18
5722.80	H	-39.06	-40.55	10.12	-8.63	-13.00	-26.06

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

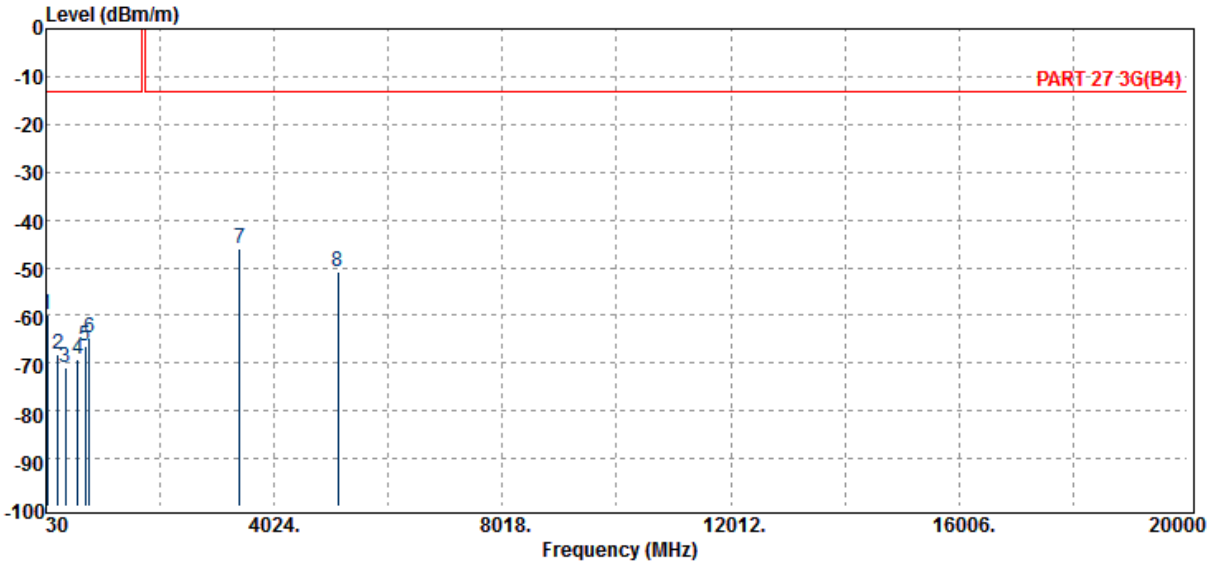
ARFCN	:CH 1312	Test Date	:2015-04-18
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-53.69	-43.06	-9.74	-0.89	-13.00	-40.69
89.17	S	-58.43	-58.87	1.53	-1.09	-13.00	-45.43
225.94	S	-70.59	-74.49	5.47	-1.57	-13.00	-57.59
320.03	S	-70.46	-74.43	5.83	-1.86	-13.00	-57.46
633.34	S	-64.93	-67.97	5.72	-2.69	-13.00	-51.93
753.62	S	-63.67	-66.41	5.44	-2.70	-13.00	-50.67
3424.80	H	-47.80	-49.35	8.09	-6.54	-13.00	-34.80
5137.20	H	-47.22	-48.62	9.89	-8.48	-13.00	-34.22

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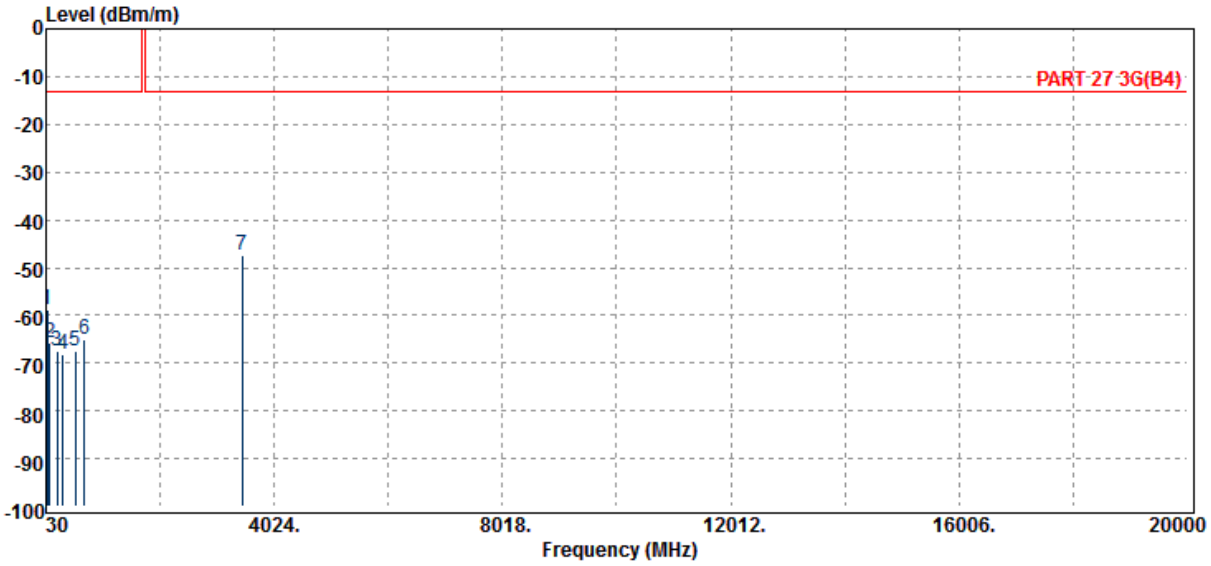
ARFCN	:CH 1312	Test Date	:2015-04-18
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-59.96	-49.33	-9.74	-0.89	-13.00	-46.96
243.40	S	-68.27	-72.14	5.49	-1.62	-13.00	-55.27
370.47	S	-70.96	-74.86	5.85	-1.96	-13.00	-57.96
582.90	S	-69.05	-71.96	5.64	-2.73	-13.00	-56.05
714.82	S	-66.26	-69.16	5.50	-2.61	-13.00	-53.26
781.75	S	-64.56	-67.31	5.53	-2.79	-13.00	-51.56
3424.80	H	-45.94	-47.49	8.09	-6.54	-13.00	-32.94
5137.20	H	-50.71	-52.11	9.89	-8.48	-13.00	-37.71

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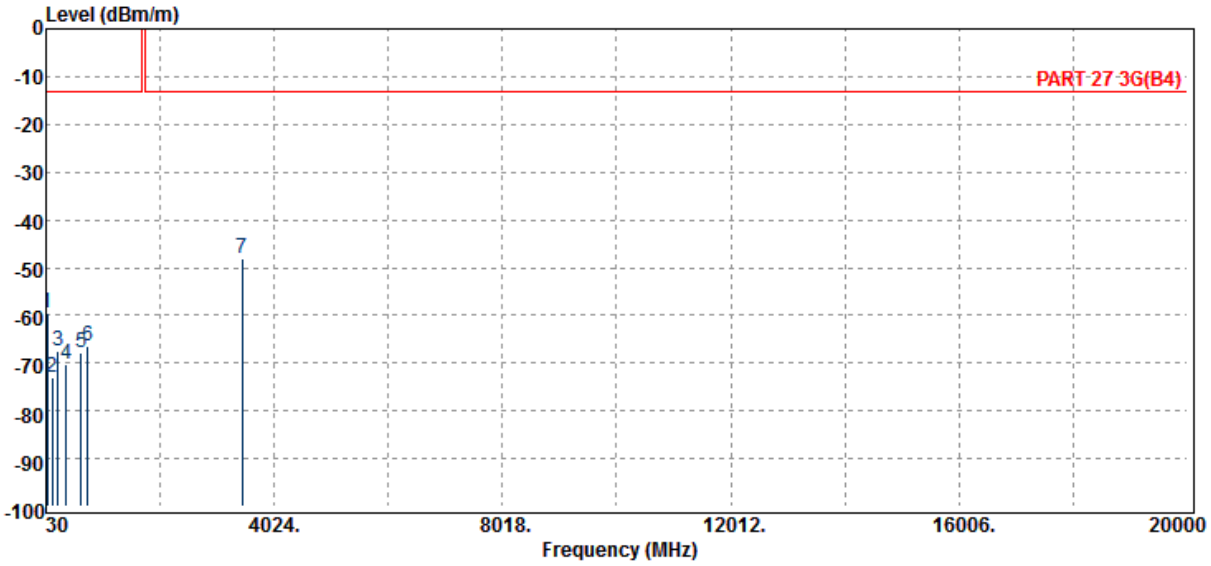
ARFCN	:CH 1413	Test Date	:2015-04-18
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-58.80	-48.34	-9.57	-0.90	-13.00	-45.80
88.20	S	-65.75	-65.98	1.32	-1.08	-13.00	-52.75
227.88	S	-67.48	-71.38	5.47	-1.57	-13.00	-54.48
323.91	S	-68.04	-72.01	5.84	-1.88	-13.00	-55.04
540.22	S	-67.31	-70.56	5.77	-2.52	-13.00	-54.31
699.30	S	-65.20	-68.13	5.54	-2.61	-13.00	-52.20
3465.20	H	-47.51	-49.18	8.20	-6.53	-13.00	-34.51

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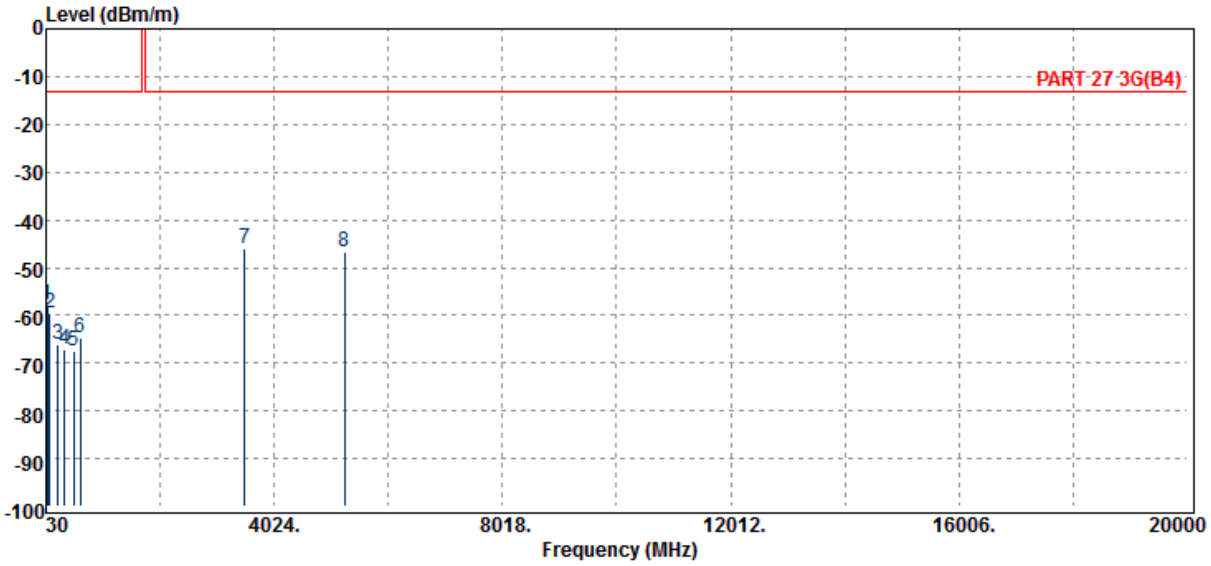
ARFCN	:CH 1413	Test Date	:2015-04-18
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-59.55	-49.09	-9.57	-0.90	-13.00	-46.55
138.64	S	-72.95	-71.18	-0.44	-1.33	-13.00	-59.95
243.40	S	-67.55	-71.42	5.49	-1.62	-13.00	-54.55
377.26	S	-70.38	-74.26	5.83	-1.96	-13.00	-57.38
646.92	S	-67.86	-70.98	5.78	-2.66	-13.00	-54.86
765.26	S	-66.32	-69.07	5.48	-2.73	-13.00	-53.32
3465.20	H	-47.96	-49.62	8.20	-6.53	-13.00	-34.96

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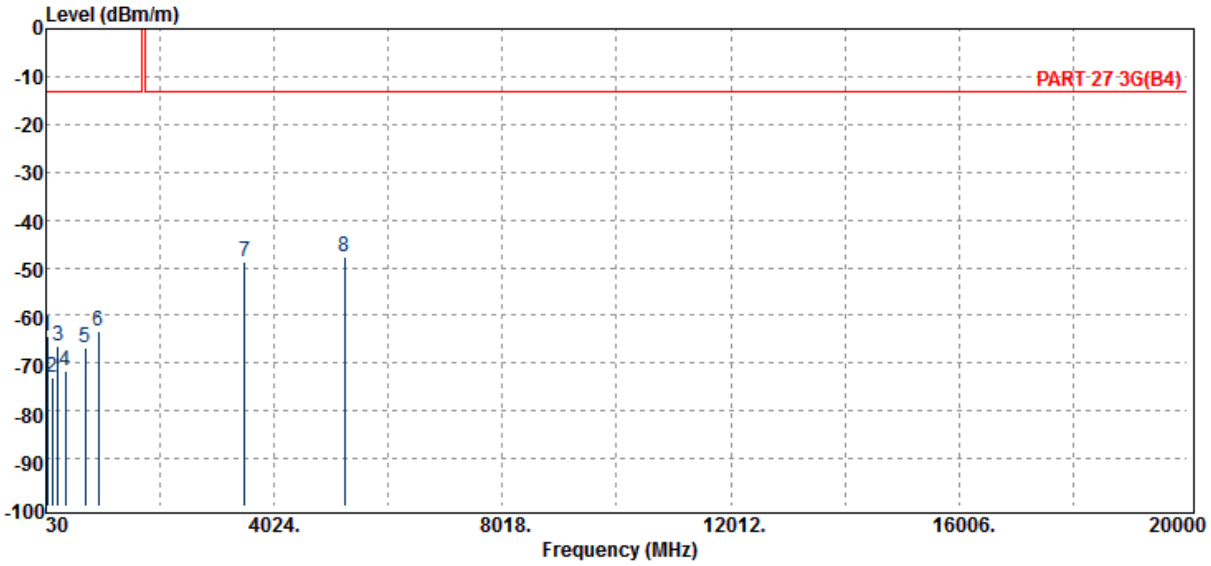
ARFCN	:CH 1513	Test Date	:2015-04-18
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-57.64	-47.01	-9.74	-0.89	-13.00	-44.64
88.20	S	-59.63	-59.86	1.32	-1.08	-13.00	-46.63
233.70	S	-65.95	-69.81	5.45	-1.59	-13.00	-52.95
360.77	S	-67.05	-70.97	5.88	-1.96	-13.00	-54.05
519.85	S	-67.60	-71.03	5.84	-2.41	-13.00	-54.60
635.28	S	-64.69	-67.74	5.73	-2.68	-13.00	-51.69
3505.20	H	-46.05	-47.68	8.30	-6.68	-13.00	-33.05
5257.80	H	-46.56	-47.95	9.96	-8.57	-13.00	-33.56

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ARFCN	:CH 1513	Test Date	:2015-04-18
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

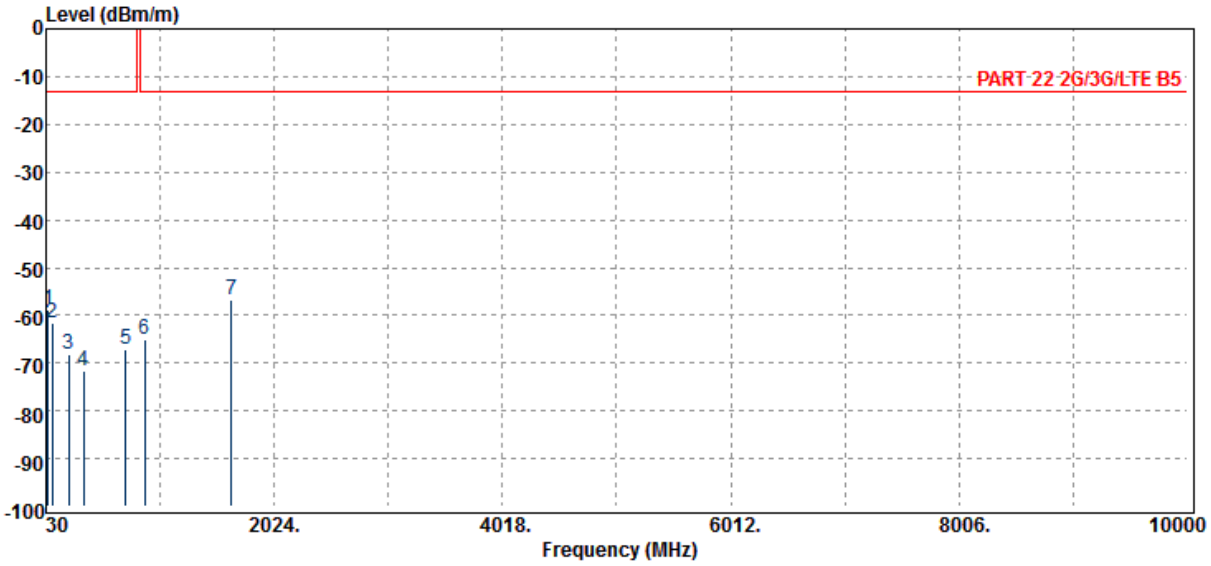


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-64.40	-53.77	-9.74	-0.89	-13.00	-51.40
142.52	S	-72.88	-71.21	-0.32	-1.35	-13.00	-59.88
241.46	S	-66.57	-70.42	5.46	-1.61	-13.00	-53.57
372.41	S	-71.57	-75.45	5.85	-1.96	-13.00	-58.57
715.79	S	-66.86	-69.75	5.50	-2.61	-13.00	-53.86
950.53	S	-63.43	-65.58	5.35	-3.20	-13.00	-50.43
3505.20	H	-48.64	-50.26	8.30	-6.68	-13.00	-35.64
5257.80	H	-47.67	-49.06	9.96	-8.57	-13.00	-34.67

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

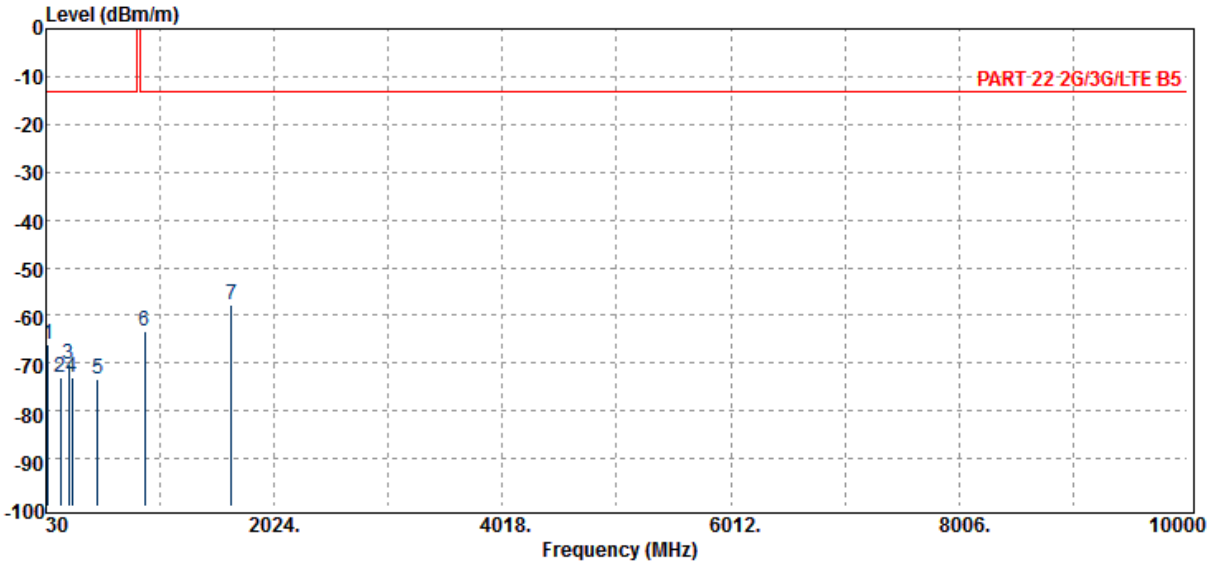
ARFCN	:CH 4132	Test Date	:2015-04-08
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-58.65	-46.04	-11.72	-0.90	-13.00	-45.65
85.29	S	-61.55	-58.98	-1.50	-1.07	-13.00	-48.55
229.82	S	-68.25	-69.98	3.31	-1.58	-13.00	-55.25
360.77	S	-71.63	-73.40	3.73	-1.96	-13.00	-58.63
725.49	S	-67.05	-67.75	3.33	-2.64	-13.00	-54.05
891.36	S	-64.93	-65.12	3.30	-3.12	-13.00	-51.93
1652.80	H	-56.62	-55.45	3.05	-4.22	-13.00	-43.62

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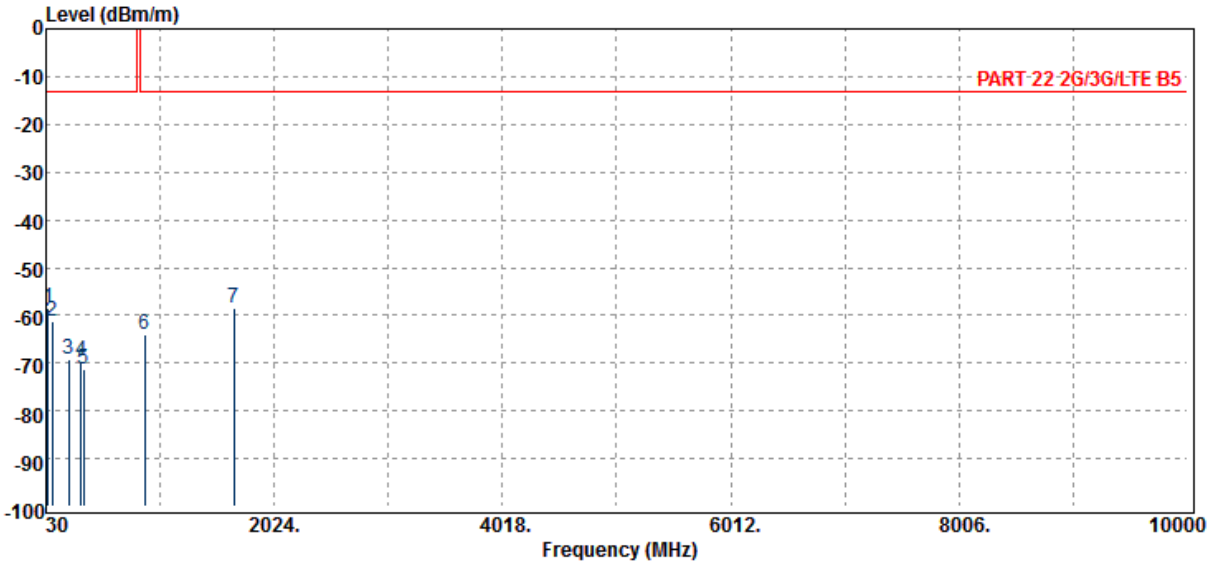
ARFCN	:CH 4132	Test Date	:2015-04-08
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
50.37	S	-66.22	-53.97	-11.33	-0.91	-13.00	-53.22
158.04	S	-72.97	-69.98	-1.56	-1.43	-13.00	-59.97
230.79	S	-70.33	-72.06	3.31	-1.58	-13.00	-57.33
259.89	S	-72.97	-74.98	3.68	-1.67	-13.00	-59.97
482.02	S	-73.36	-74.78	3.62	-2.20	-13.00	-60.36
891.36	S	-63.17	-63.35	3.30	-3.12	-13.00	-50.17
1652.80	H	-57.81	-56.63	3.05	-4.22	-13.00	-44.81

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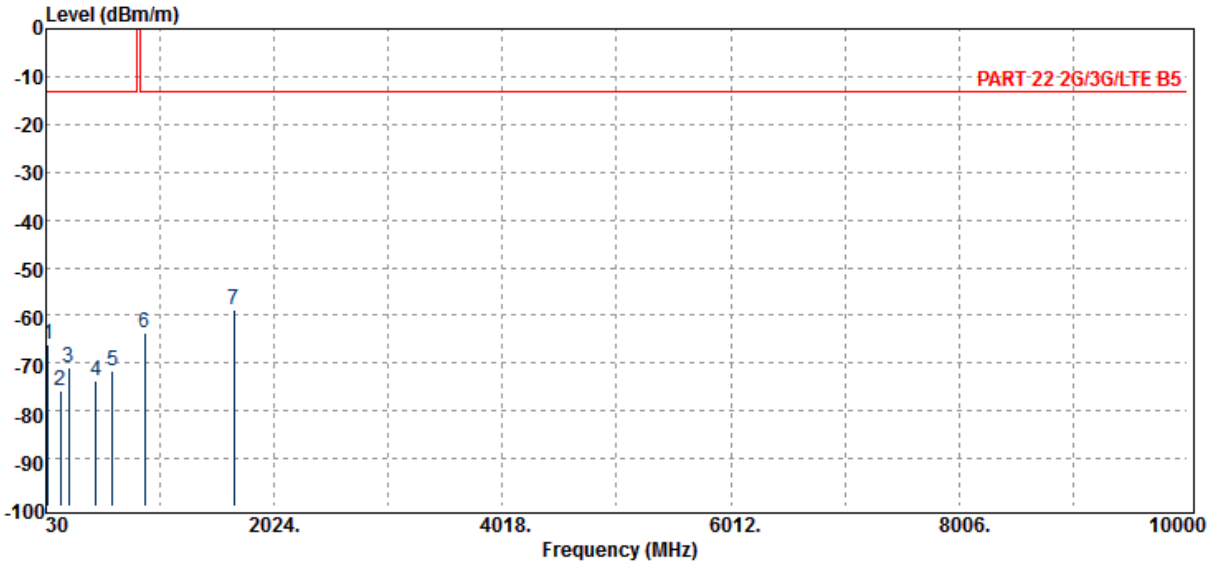
ARFCN	:CH 4183	Test Date	:2015-04-08
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-58.55	-45.77	-11.89	-0.89	-13.00	-45.55
85.29	S	-61.13	-58.57	-1.50	-1.07	-13.00	-48.13
229.82	S	-69.23	-70.97	3.31	-1.58	-13.00	-56.23
336.52	S	-69.71	-71.51	3.73	-1.92	-13.00	-56.71
360.77	S	-71.38	-73.15	3.73	-1.96	-13.00	-58.38
890.39	S	-64.00	-64.19	3.30	-3.11	-13.00	-51.00
1673.20	H	-58.39	-57.14	3.01	-4.26	-13.00	-45.39

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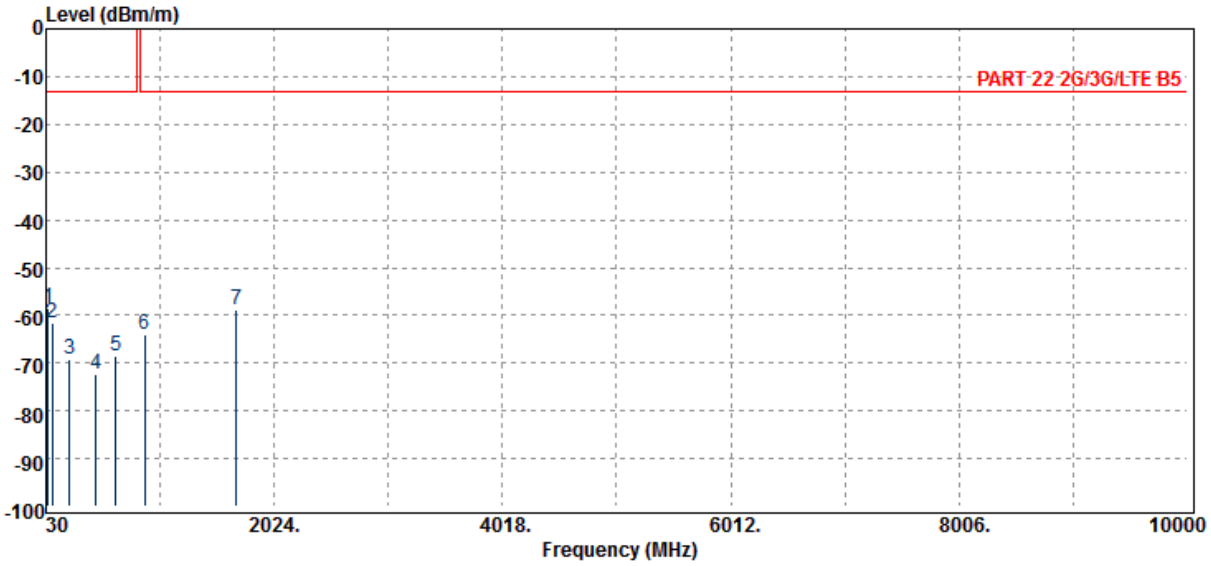
ARFCN	:CH 4183	Test Date	:2015-04-08
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-65.93	-53.32	-11.72	-0.90	-13.00	-52.93
156.10	S	-75.62	-72.51	-1.69	-1.42	-13.00	-62.62
231.76	S	-70.86	-72.59	3.31	-1.58	-13.00	-57.86
465.53	S	-73.76	-75.13	3.48	-2.11	-13.00	-60.76
610.06	S	-71.65	-72.40	3.48	-2.73	-13.00	-58.65
890.39	S	-63.55	-63.74	3.30	-3.11	-13.00	-50.55
1673.20	H	-58.85	-57.60	3.01	-4.26	-13.00	-45.85

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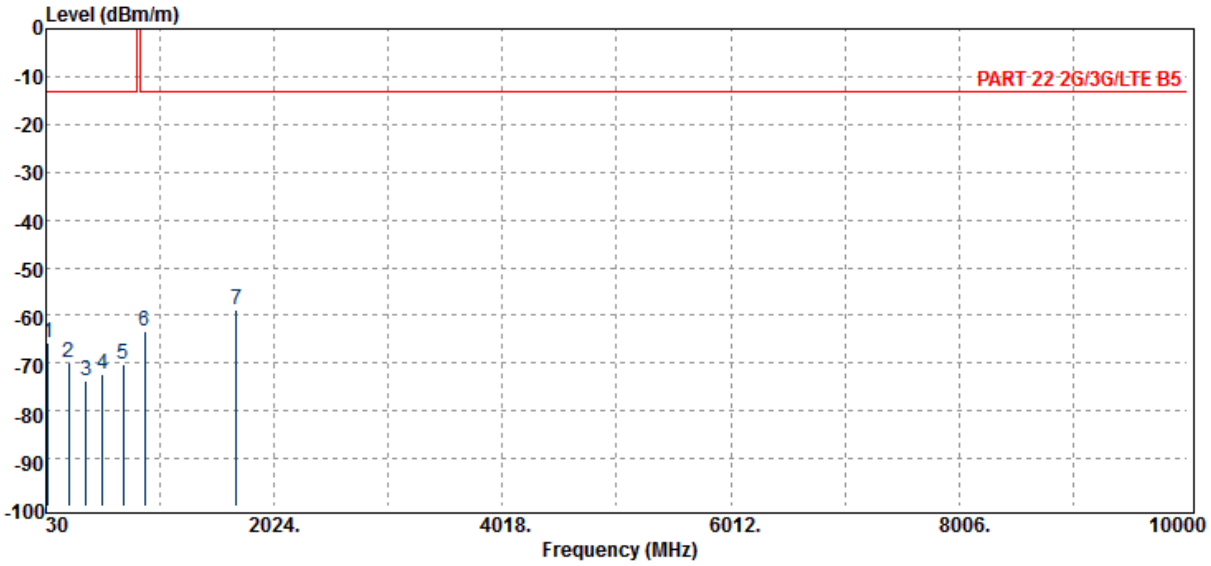
ARFCN	:CH 4233	Test Date	:2015-04-08
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-58.59	-45.80	-11.89	-0.89	-13.00	-45.59
85.29	S	-61.48	-58.92	-1.50	-1.07	-13.00	-48.48
233.70	S	-69.18	-70.90	3.30	-1.59	-13.00	-56.18
466.50	S	-72.27	-73.65	3.49	-2.11	-13.00	-59.27
638.19	S	-68.43	-69.35	3.59	-2.68	-13.00	-55.43
893.30	S	-63.95	-64.12	3.29	-3.12	-13.00	-50.95
1693.20	H	-58.76	-57.46	2.97	-4.27	-13.00	-45.76

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ARFCN	:CH 4233	Test Date	:2015-04-08
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 53 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

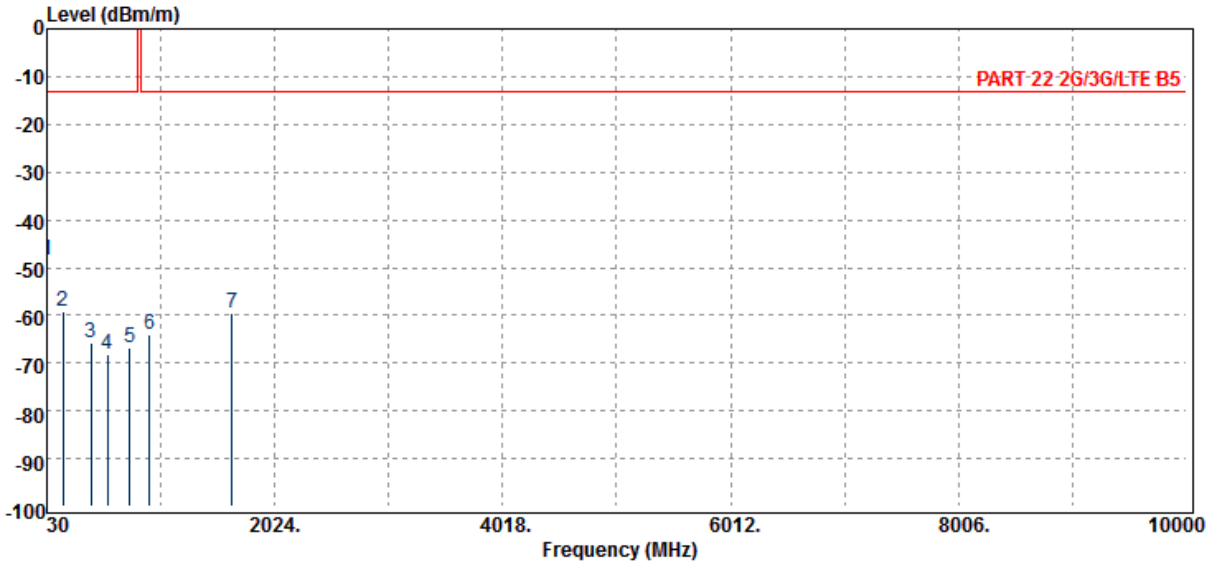


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
49.40	S	-65.69	-53.24	-11.55	-0.90	-13.00	-52.69
231.76	S	-69.91	-71.64	3.31	-1.58	-13.00	-56.91
381.14	S	-73.80	-75.52	3.67	-1.95	-13.00	-60.80
520.82	S	-72.45	-73.72	3.69	-2.42	-13.00	-59.45
703.18	S	-70.39	-71.16	3.38	-2.61	-13.00	-57.39
891.36	S	-63.25	-63.44	3.30	-3.12	-13.00	-50.25
1693.20	H	-58.80	-57.50	2.97	-4.27	-13.00	-45.80

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Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

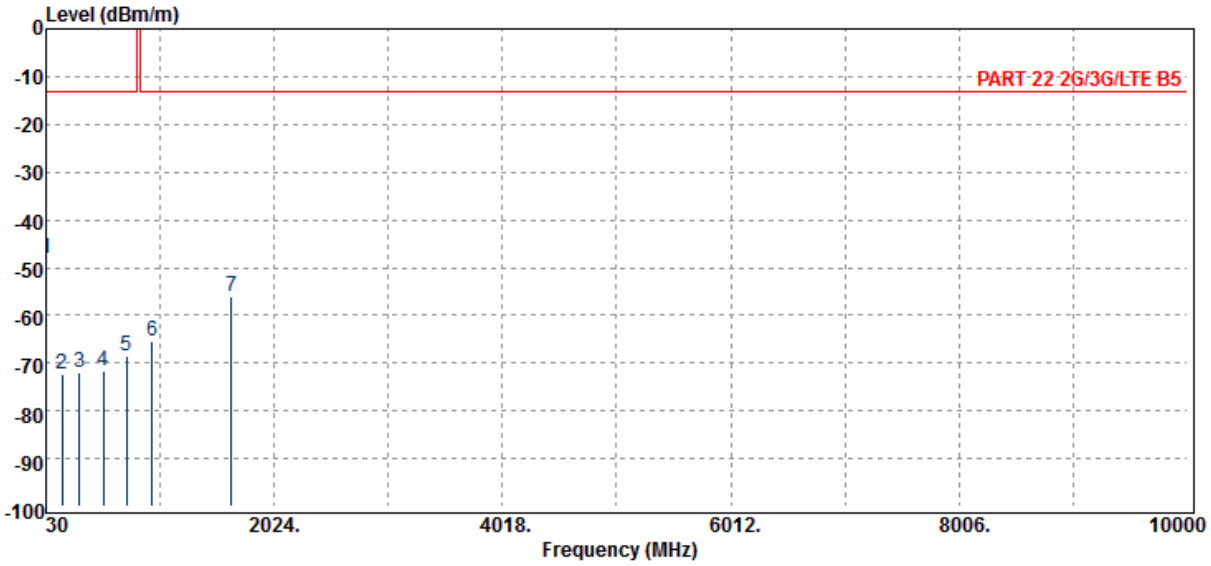
ARFCN	:CH 1013	Test Date	:2015-04-21
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-48.34	-34.22	-13.32	-0.80	-13.00	-35.34
172.59	S	-59.13	-57.38	-0.26	-1.49	-13.00	-46.13
418.00	S	-65.74	-67.29	3.52	-1.97	-13.00	-52.74
557.68	S	-68.27	-69.23	3.56	-2.61	-13.00	-55.27
754.59	S	-66.93	-67.52	3.30	-2.71	-13.00	-53.93
931.13	S	-63.91	-63.98	3.25	-3.18	-13.00	-50.91
1649.40	H	-59.34	-58.18	3.05	-4.21	-13.00	-46.34

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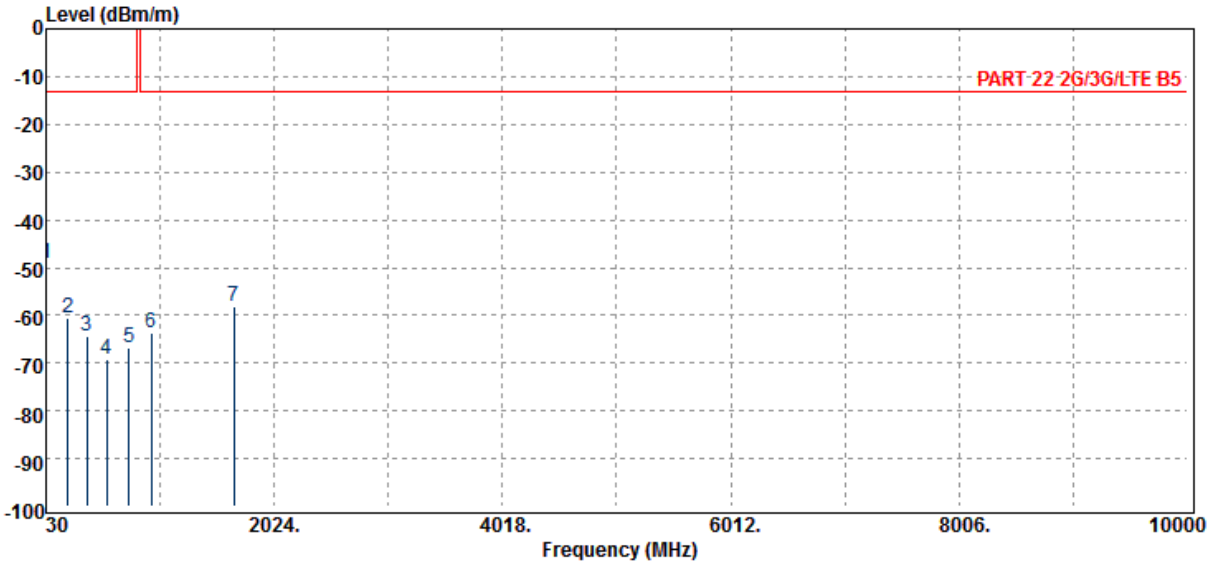
ARFCN	:CH 1013	Test Date	:2015-04-21
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.23	-33.95	-13.49	-0.79	-13.00	-35.23
172.59	S	-72.38	-70.63	-0.26	-1.49	-13.00	-59.38
324.88	S	-71.82	-73.64	3.69	-1.88	-13.00	-58.82
531.49	S	-71.66	-72.84	3.65	-2.48	-13.00	-58.66
735.19	S	-68.36	-69.01	3.31	-2.66	-13.00	-55.36
955.38	S	-65.40	-65.06	2.87	-3.21	-13.00	-52.40
1649.40	H	-55.94	-54.78	3.05	-4.21	-13.00	-42.94

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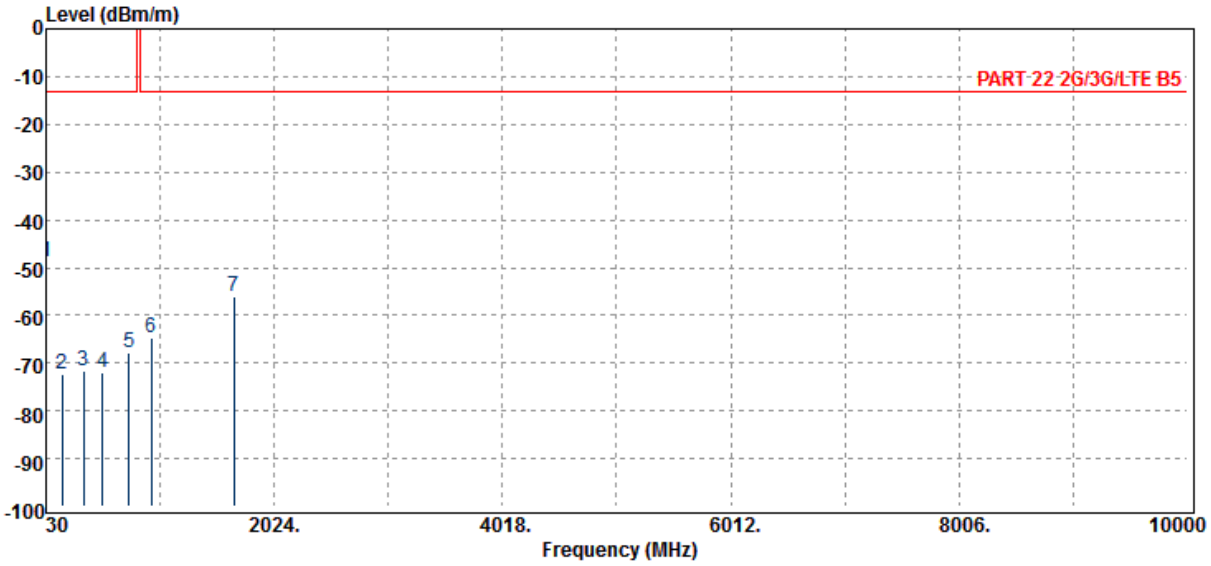
ARFCN	:CH 384	Test Date	:2015-04-21
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-49.00	-34.88	-13.32	-0.80	-13.00	-36.00
224.00	S	-60.44	-62.19	3.32	-1.57	-13.00	-47.44
389.87	S	-64.42	-66.12	3.65	-1.95	-13.00	-51.42
559.62	S	-69.31	-70.25	3.56	-2.62	-13.00	-56.31
754.59	S	-66.69	-67.28	3.30	-2.71	-13.00	-53.69
947.62	S	-63.50	-63.53	3.24	-3.20	-13.00	-50.50
1673.04	H	-58.01	-56.77	3.01	-4.26	-13.00	-45.01

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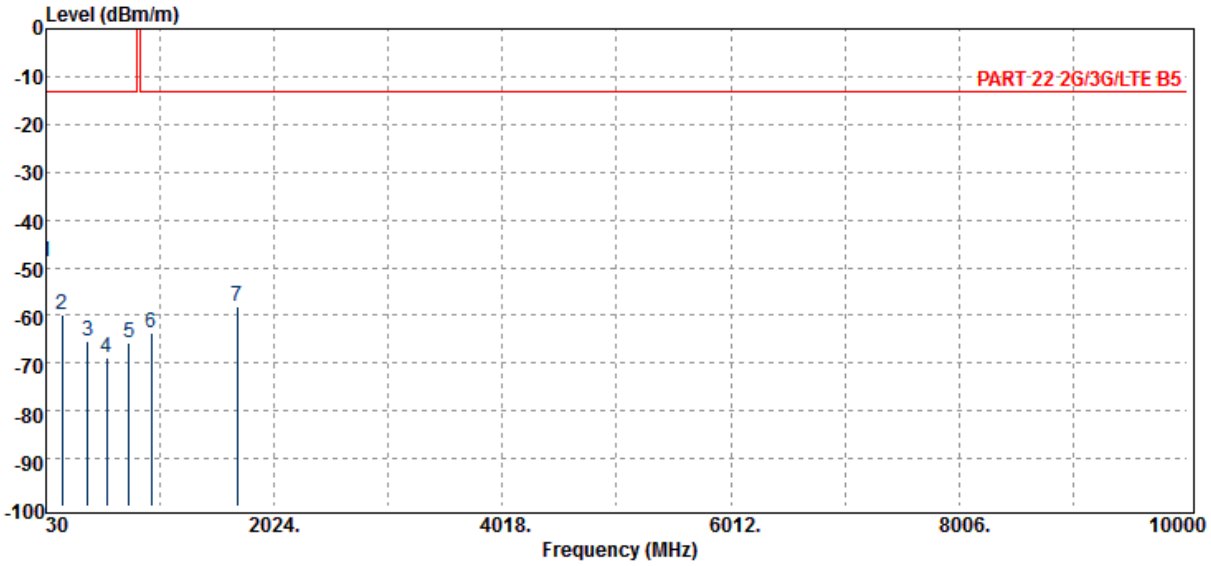
ARFCN	:CH 384	Test Date	:2015-04-21
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.67	-34.39	-13.49	-0.79	-13.00	-35.67
173.56	S	-72.38	-70.80	-0.10	-1.49	-13.00	-59.38
359.80	S	-71.63	-73.40	3.73	-1.96	-13.00	-58.63
520.82	S	-72.03	-73.30	3.69	-2.42	-13.00	-59.03
756.53	S	-67.98	-68.58	3.30	-2.71	-13.00	-54.98
952.47	S	-64.64	-64.50	3.07	-3.21	-13.00	-51.64
1673.04	H	-55.97	-54.73	3.01	-4.26	-13.00	-42.97

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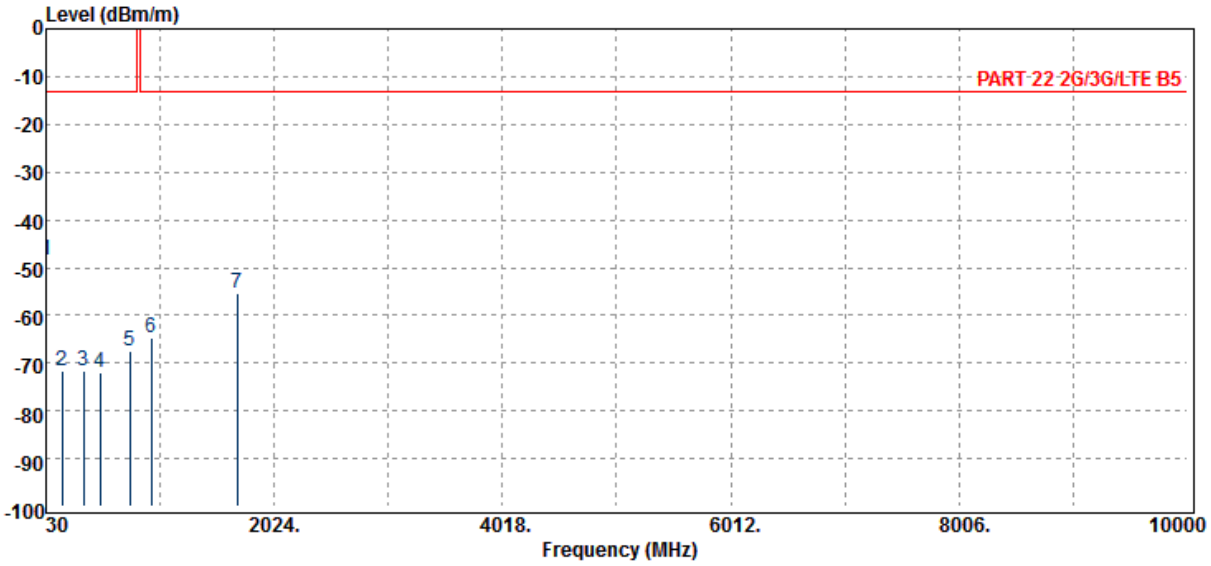
ARFCN	:CH 777	Test Date	:2015-04-21
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.74	-34.46	-13.49	-0.79	-13.00	-35.74
168.71	S	-59.94	-57.66	-0.80	-1.48	-13.00	-46.94
396.66	S	-65.52	-67.21	3.63	-1.95	-13.00	-52.52
559.62	S	-68.91	-69.85	3.56	-2.62	-13.00	-55.91
754.59	S	-65.72	-66.31	3.30	-2.71	-13.00	-52.72
952.47	S	-63.59	-63.45	3.07	-3.21	-13.00	-50.59
1696.62	H	-58.12	-56.81	2.96	-4.28	-13.00	-45.12

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ARFCN	:CH 777	Test Date	:2015-04-21
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

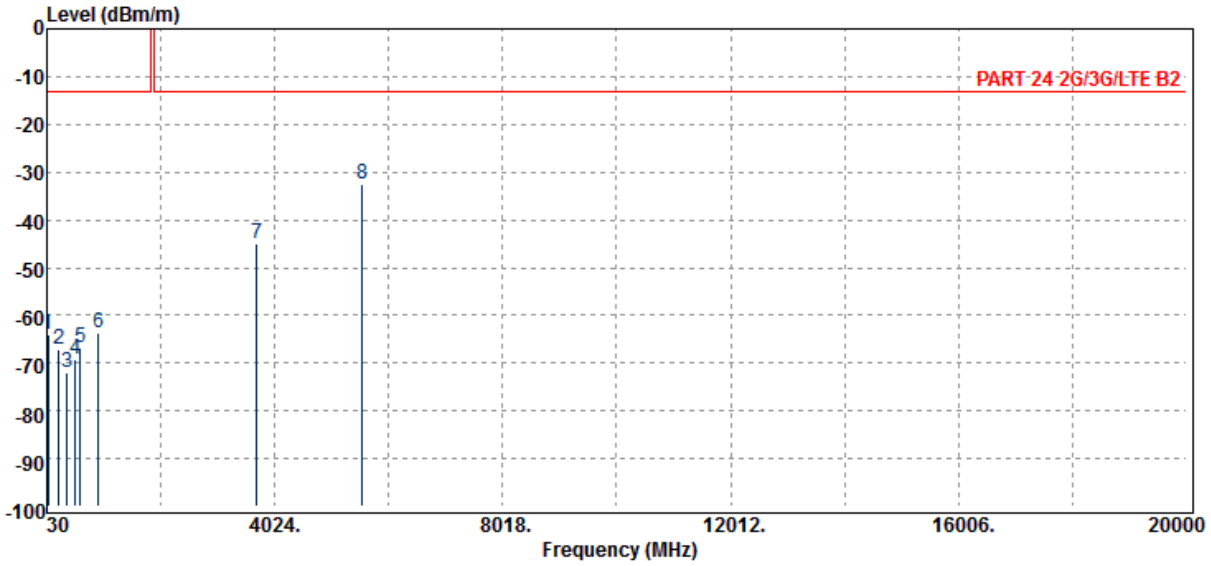


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.47	-34.19	-13.49	-0.79	-13.00	-35.47
173.56	S	-71.47	-69.89	-0.10	-1.49	-13.00	-58.47
360.77	S	-71.62	-73.39	3.73	-1.96	-13.00	-58.62
504.33	S	-71.99	-73.41	3.74	-2.33	-13.00	-58.99
760.41	S	-67.64	-68.24	3.32	-2.72	-13.00	-54.64
948.59	S	-64.79	-64.82	3.24	-3.20	-13.00	-51.79
1696.62	H	-55.43	-54.12	2.96	-4.28	-13.00	-42.43

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Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

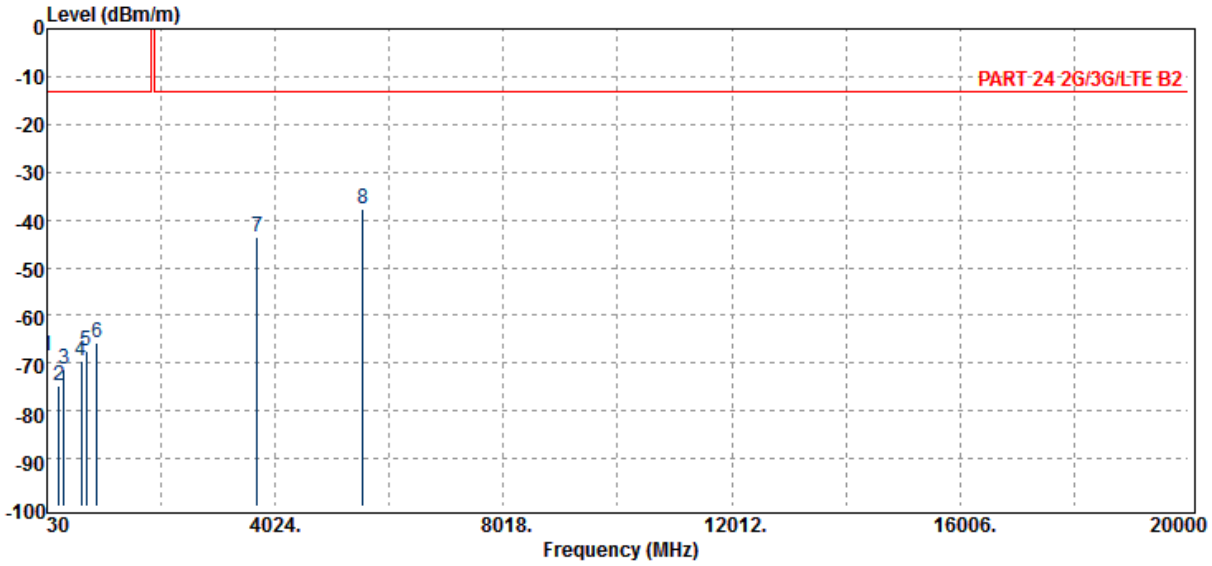
ARFCN	:CH 25	Test Date	:2015-04-21
Operation Band	:CDMA 1900	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
52.31	S	-63.95	-54.40	-8.63	-0.92	-13.00	-50.95
243.40	S	-67.26	-71.13	5.49	-1.62	-13.00	-54.26
378.23	S	-71.82	-75.69	5.83	-1.95	-13.00	-58.82
523.73	S	-69.04	-72.43	5.83	-2.43	-13.00	-56.04
617.82	S	-66.76	-69.71	5.66	-2.71	-13.00	-53.76
932.10	S	-63.70	-65.92	5.40	-3.18	-13.00	-50.70
3702.50	H	-45.00	-46.54	8.43	-6.88	-13.00	-32.00
5553.75	H	-32.45	-34.01	10.10	-8.54	-13.00	-19.45

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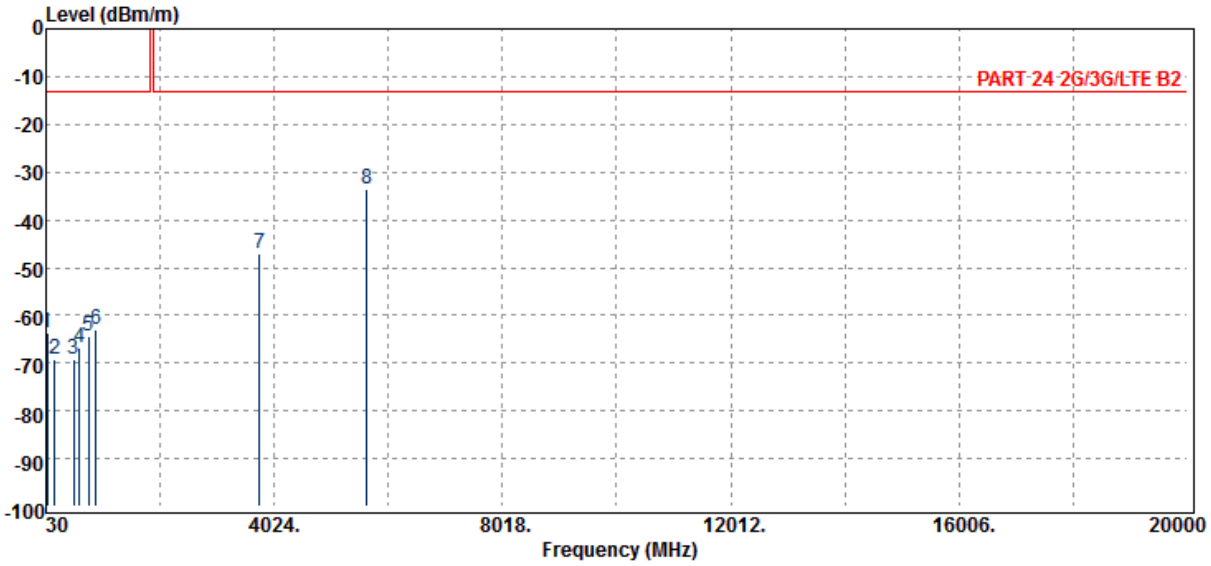
ARFCN	:CH 25	Test Date	:2015-04-21
Operation Band	:CDMA 1900	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-68.60	-57.09	-10.68	-0.83	-13.00	-55.60
245.34	S	-74.79	-78.68	5.52	-1.62	-13.00	-61.79
323.91	S	-71.40	-75.37	5.84	-1.88	-13.00	-58.40
636.25	S	-69.38	-72.44	5.74	-2.68	-13.00	-56.38
716.76	S	-67.55	-70.43	5.50	-2.62	-13.00	-54.55
907.85	S	-65.89	-68.16	5.41	-3.14	-13.00	-52.89
3702.50	H	-43.55	-45.09	8.43	-6.88	-13.00	-30.55
5553.75	H	-37.63	-39.19	10.10	-8.54	-13.00	-24.63

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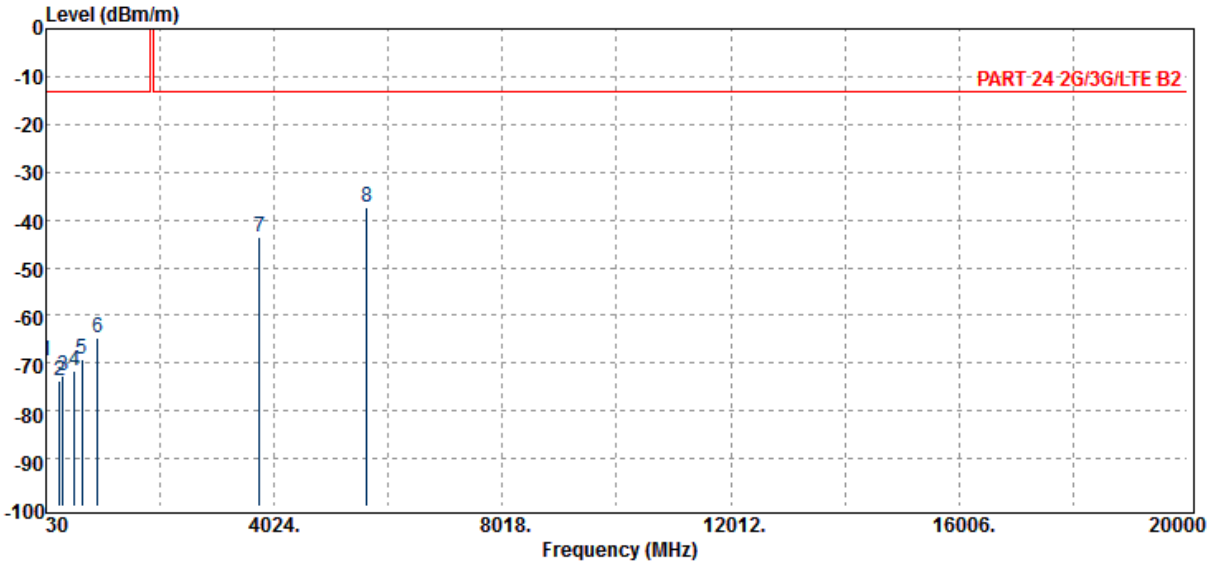
ARFCN	:CH 600	Test Date	:2015-04-21
Operation Band	:CDMA 1900	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
51.34	S	-63.77	-53.95	-8.90	-0.92	-13.00	-50.77
180.35	S	-69.18	-70.88	3.20	-1.50	-13.00	-56.18
511.12	S	-69.33	-72.84	5.87	-2.36	-13.00	-56.33
619.76	S	-66.76	-69.72	5.67	-2.71	-13.00	-53.76
773.99	S	-64.24	-66.99	5.51	-2.76	-13.00	-51.24
910.76	S	-62.82	-65.08	5.41	-3.15	-13.00	-49.82
3760.00	H	-47.03	-48.47	8.46	-7.02	-13.00	-34.03
5640.00	H	-33.54	-35.07	10.11	-8.59	-13.00	-20.54

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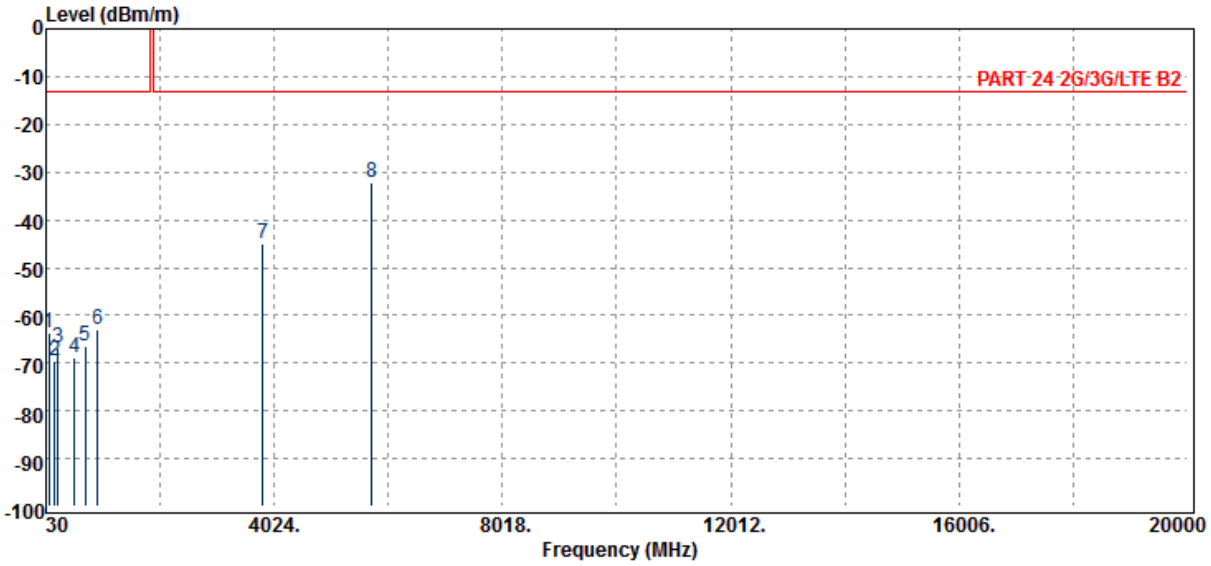
ARFCN	:CH 600	Test Date	:2015-04-21
Operation Band	:CDMA 1900	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-69.71	-58.38	-10.48	-0.84	-13.00	-56.71
269.59	S	-73.69	-77.76	5.76	-1.69	-13.00	-60.69
323.91	S	-72.58	-76.55	5.84	-1.88	-13.00	-59.58
523.73	S	-71.47	-74.86	5.83	-2.43	-13.00	-58.47
654.68	S	-69.04	-72.15	5.76	-2.65	-13.00	-56.04
934.04	S	-64.69	-66.91	5.39	-3.18	-13.00	-51.69
3760.00	H	-43.60	-45.05	8.46	-7.02	-13.00	-30.60
5640.00	H	-37.43	-38.95	10.11	-8.59	-13.00	-24.43

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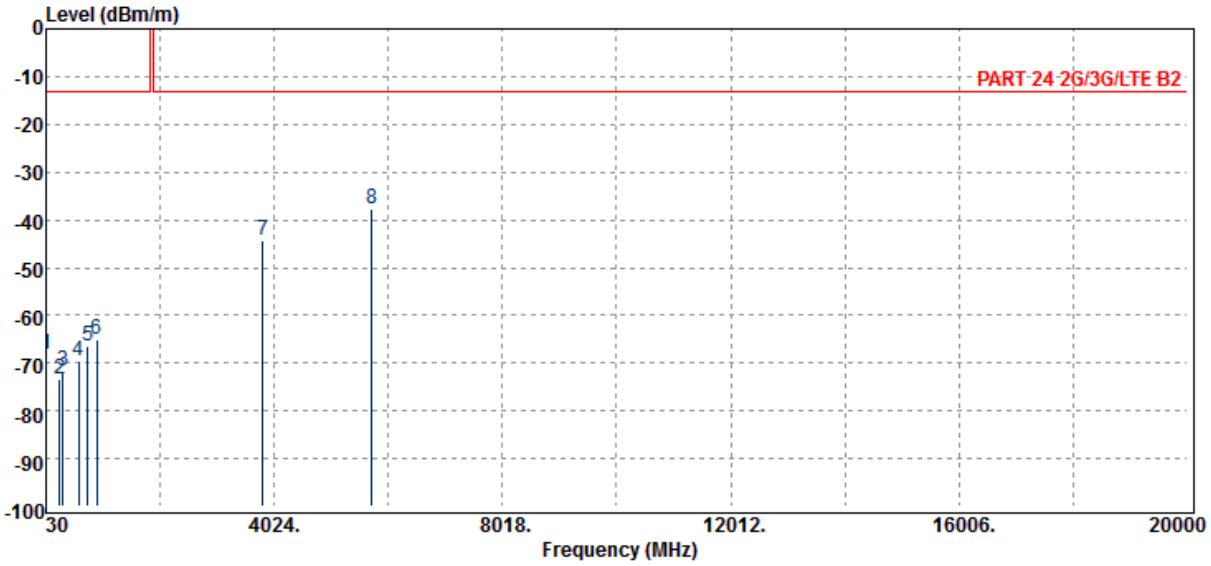
ARFCN	:CH 1175	Test Date	:2015-04-21
Operation Band	:CDMA 1900	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
80.44	S	-63.52	-61.97	-0.50	-1.05	-13.00	-50.52
180.35	S	-69.47	-71.16	3.20	-1.50	-13.00	-56.47
242.43	S	-66.85	-70.70	5.47	-1.62	-13.00	-53.85
521.79	S	-68.85	-72.26	5.83	-2.42	-13.00	-55.85
721.61	S	-66.38	-69.24	5.49	-2.63	-13.00	-53.38
927.25	S	-63.13	-65.36	5.40	-3.17	-13.00	-50.13
3817.50	H	-44.97	-46.42	8.50	-7.05	-13.00	-31.97
5726.25	H	-32.11	-33.59	10.12	-8.63	-13.00	-19.11

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ARFCN	:CH 1175	Test Date	:2015-04-21
Operation Band	:CDMA 1900	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

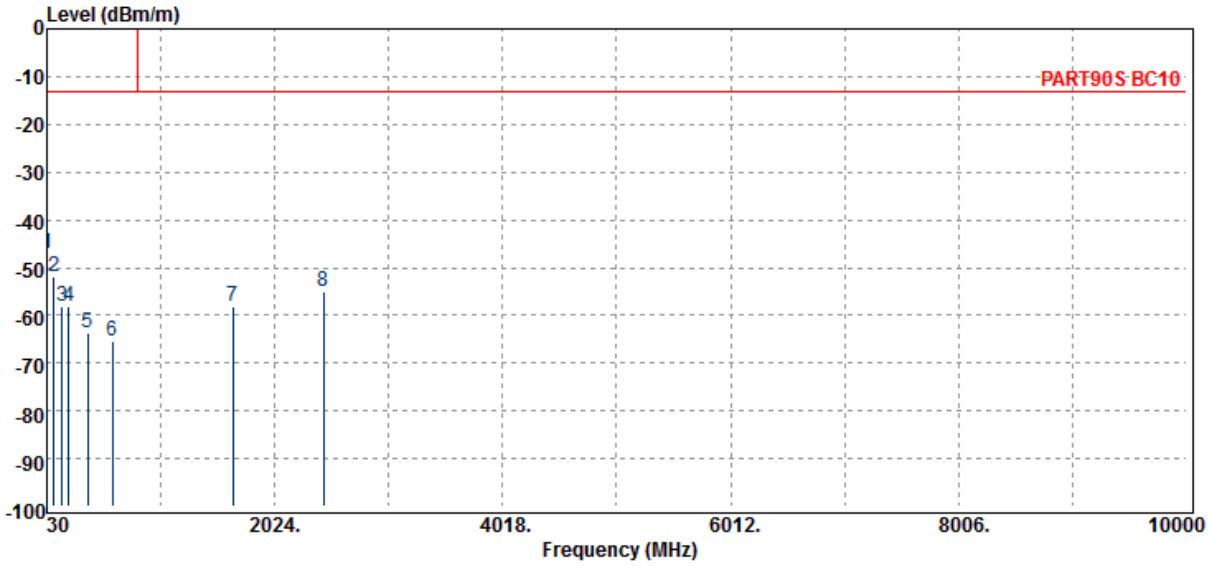


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
35.82	S	-68.30	-56.17	-11.34	-0.79	-13.00	-55.30
269.59	S	-73.52	-77.59	5.76	-1.69	-13.00	-60.52
324.88	S	-71.51	-75.48	5.84	-1.88	-13.00	-58.51
605.21	S	-69.58	-72.46	5.61	-2.74	-13.00	-56.58
766.23	S	-66.34	-69.09	5.48	-2.73	-13.00	-53.34
915.61	S	-64.93	-67.19	5.41	-3.15	-13.00	-51.93
3817.50	H	-44.43	-45.87	8.50	-7.05	-13.00	-31.43
5726.25	H	-37.58	-39.07	10.12	-8.63	-13.00	-24.58

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Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

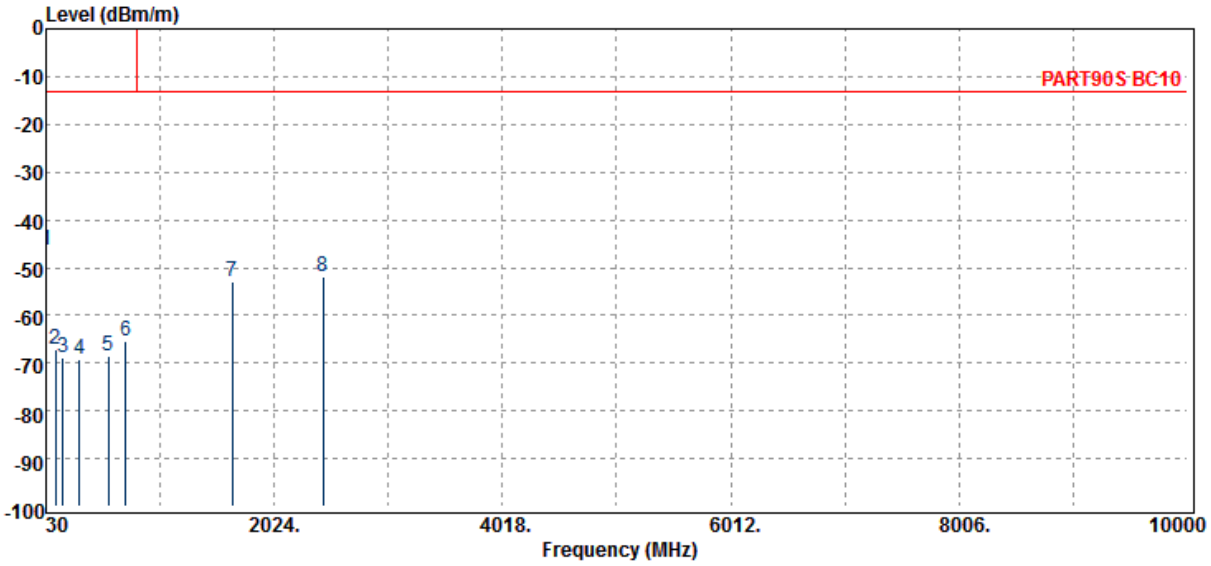
ARFCN	:CH 476	Test Date	:2015-04-21
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-47.02	-35.05	-11.17	-0.80	-13.00	-34.02
88.20	S	-52.07	-52.31	1.32	-1.08	-13.00	-39.07
165.80	S	-58.26	-57.94	1.14	-1.46	-13.00	-45.26
224.00	S	-58.27	-62.17	5.47	-1.57	-13.00	-45.27
385.99	S	-63.81	-67.66	5.81	-1.95	-13.00	-50.81
605.21	S	-65.45	-68.33	5.61	-2.74	-13.00	-52.45
1653.80	H	-57.96	-56.78	3.04	-4.22	-13.00	-44.96
2453.70	H	-55.11	-53.35	3.55	-5.30	-13.00	-42.11

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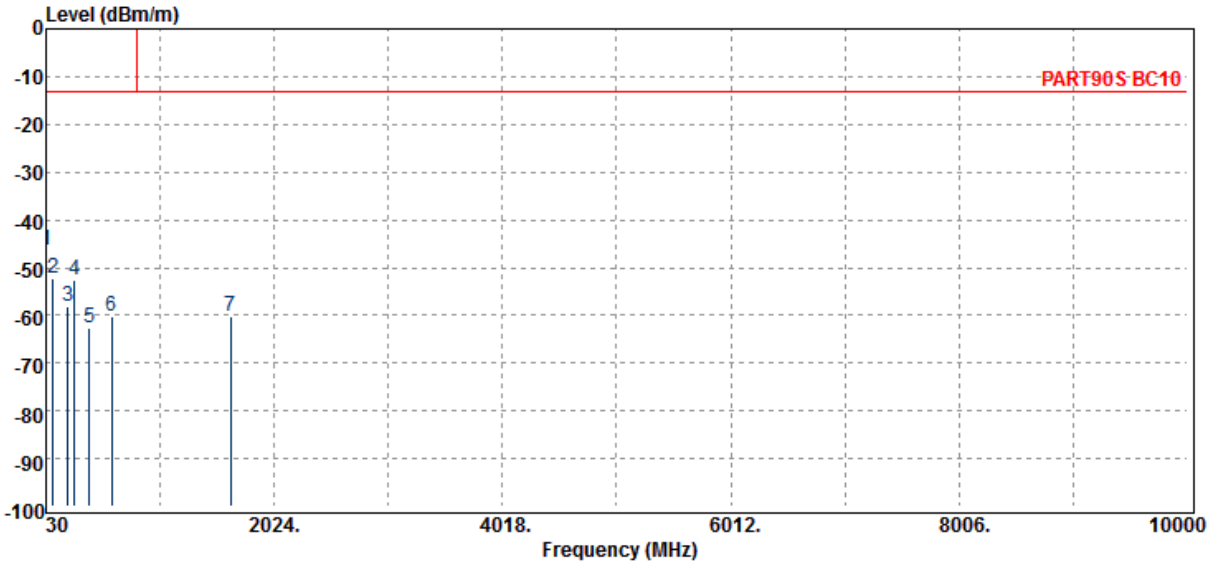
ARFCN	:CH 476	Test Date	:2015-04-21
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-46.40	-34.27	-11.34	-0.79	-13.00	-33.40
109.54	S	-67.03	-65.77	-0.11	-1.15	-13.00	-54.03
181.32	S	-68.75	-70.61	3.36	-1.50	-13.00	-55.75
324.88	S	-69.16	-73.12	5.84	-1.88	-13.00	-56.16
576.11	S	-68.61	-71.57	5.66	-2.70	-13.00	-55.61
728.40	S	-65.33	-68.16	5.47	-2.64	-13.00	-52.33
1653.80	H	-53.07	-51.89	3.04	-4.22	-13.00	-40.07
2453.70	H	-52.03	-50.28	3.55	-5.30	-13.00	-39.03

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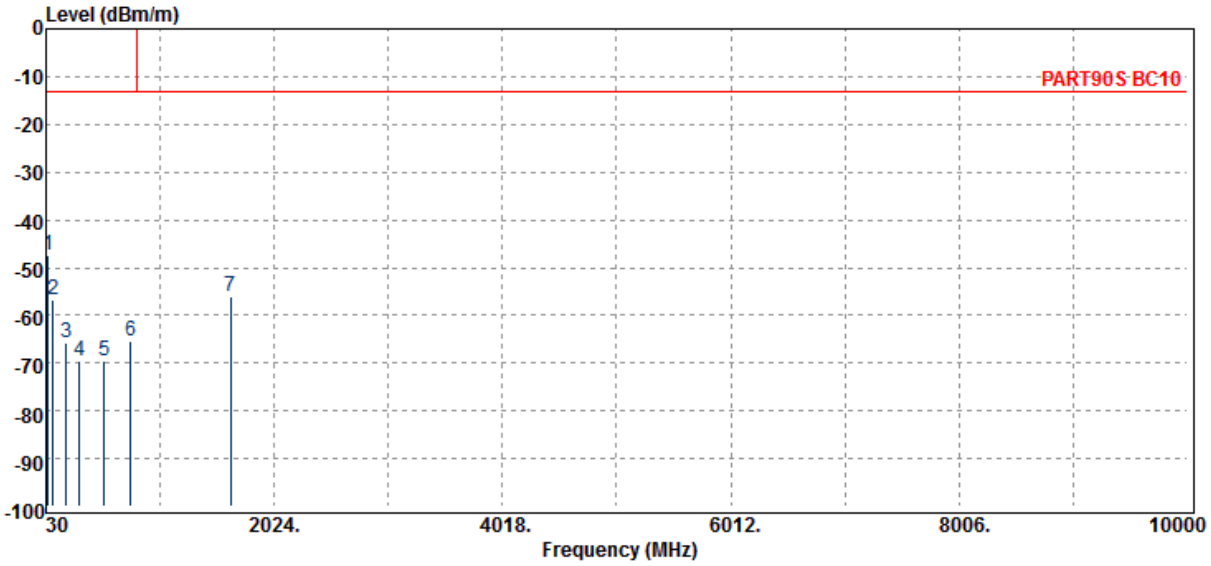
ARFCN	:CH 580	Test Date	:2015-04-21
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-46.32	-34.35	-11.17	-0.80	-13.00	-33.32
89.17	S	-52.41	-52.85	1.53	-1.09	-13.00	-39.41
224.00	S	-58.21	-62.12	5.47	-1.57	-13.00	-45.21
280.26	S	-52.65	-56.40	5.48	-1.72	-13.00	-39.65
410.24	S	-62.56	-66.33	5.71	-1.94	-13.00	-49.56
602.30	S	-60.19	-63.05	5.60	-2.74	-13.00	-47.19
1641.00	H	-60.04	-58.91	3.07	-4.20	-13.00	-47.04

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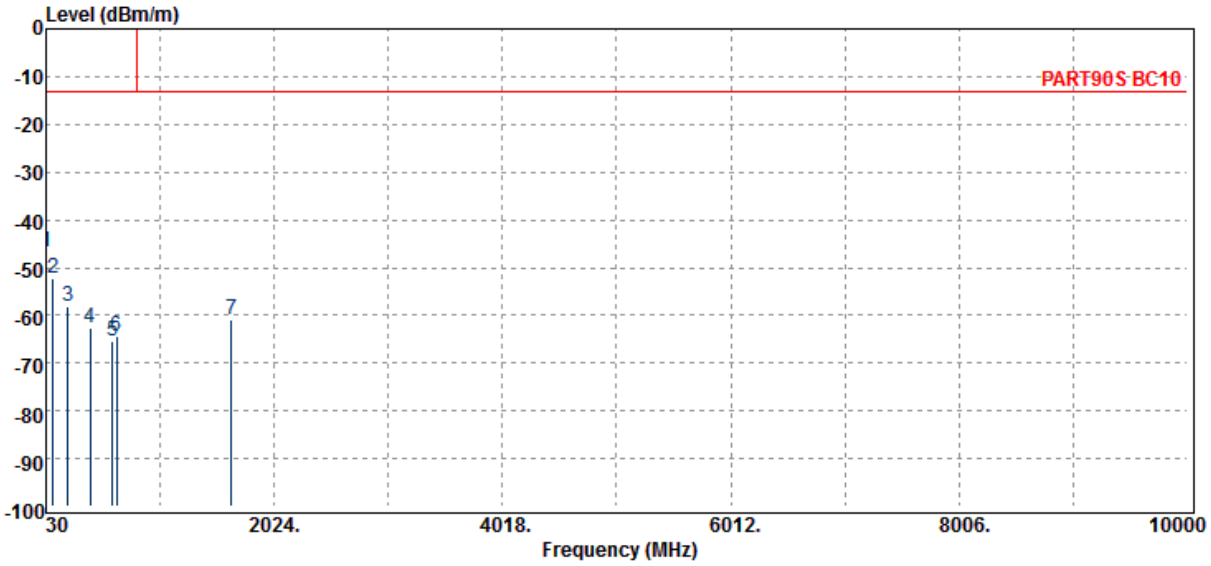
ARFCN	:CH 580	Test Date	:2015-04-21
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-47.49	-36.69	-9.92	-0.88	-13.00	-34.49
90.14	S	-56.80	-57.41	1.70	-1.09	-13.00	-43.80
206.54	S	-65.70	-69.86	5.70	-1.54	-13.00	-52.70
323.91	S	-69.70	-73.66	5.84	-1.88	-13.00	-56.70
535.37	S	-69.61	-72.90	5.79	-2.50	-13.00	-56.61
770.11	S	-65.47	-68.22	5.50	-2.74	-13.00	-52.47
1641.00	H	-56.08	-54.95	3.07	-4.20	-13.00	-43.08

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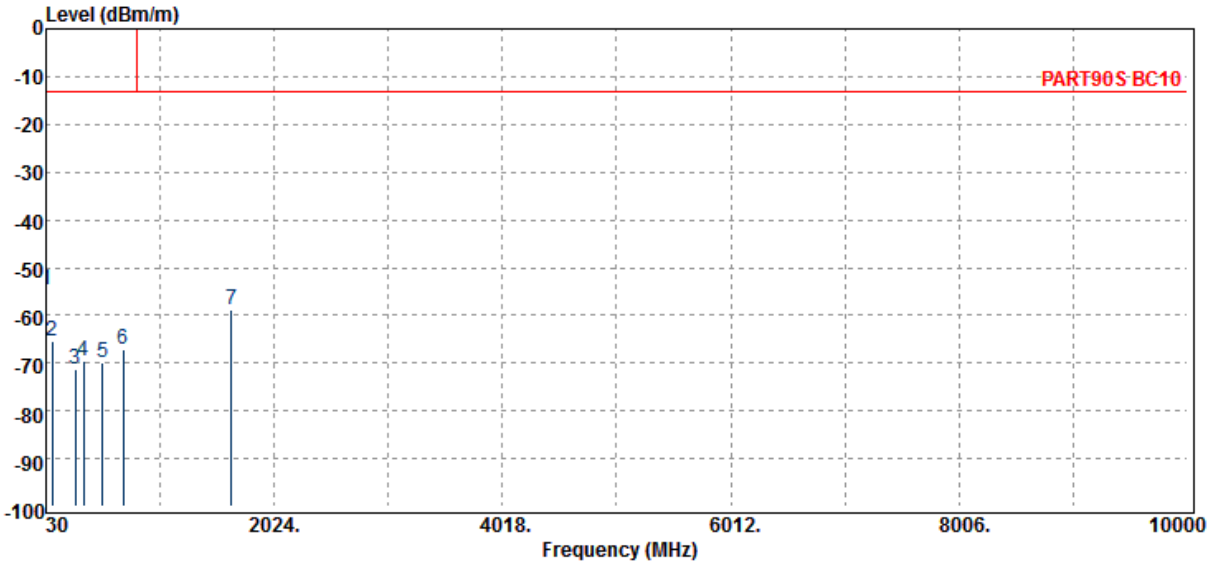
ARFCN	:CH 684	Test Date	:2015-04-21
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-46.85	-34.88	-11.17	-0.80	-13.00	-33.85
88.20	S	-52.27	-52.50	1.32	-1.08	-13.00	-39.27
223.03	S	-58.04	-61.94	5.47	-1.57	-13.00	-45.04
418.97	S	-62.72	-66.41	5.66	-1.97	-13.00	-49.72
610.06	S	-65.50	-68.41	5.63	-2.73	-13.00	-52.50
646.92	S	-64.49	-67.61	5.78	-2.66	-13.00	-51.49
1646.20	H	-60.76	-59.61	3.06	-4.21	-13.00	-47.76

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ARFCN	:CH 684	Test Date	:2015-04-21
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

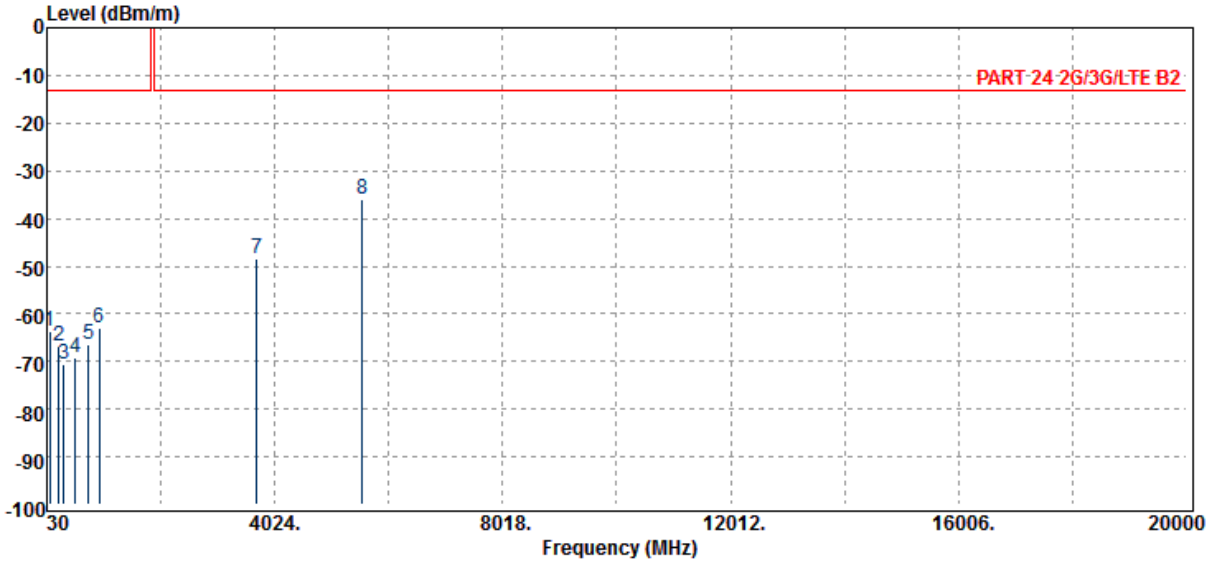


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-54.67	-41.92	-11.98	-0.76	-13.00	-41.67
81.41	S	-65.55	-64.23	-0.26	-1.06	-13.00	-52.55
288.02	S	-71.44	-75.25	5.56	-1.74	-13.00	-58.44
359.80	S	-69.72	-73.64	5.88	-1.96	-13.00	-56.72
521.79	S	-69.93	-73.34	5.83	-2.42	-13.00	-56.93
704.15	S	-67.22	-70.14	5.52	-2.60	-13.00	-54.22
1646.20	H	-58.94	-57.79	3.06	-4.21	-13.00	-45.94

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

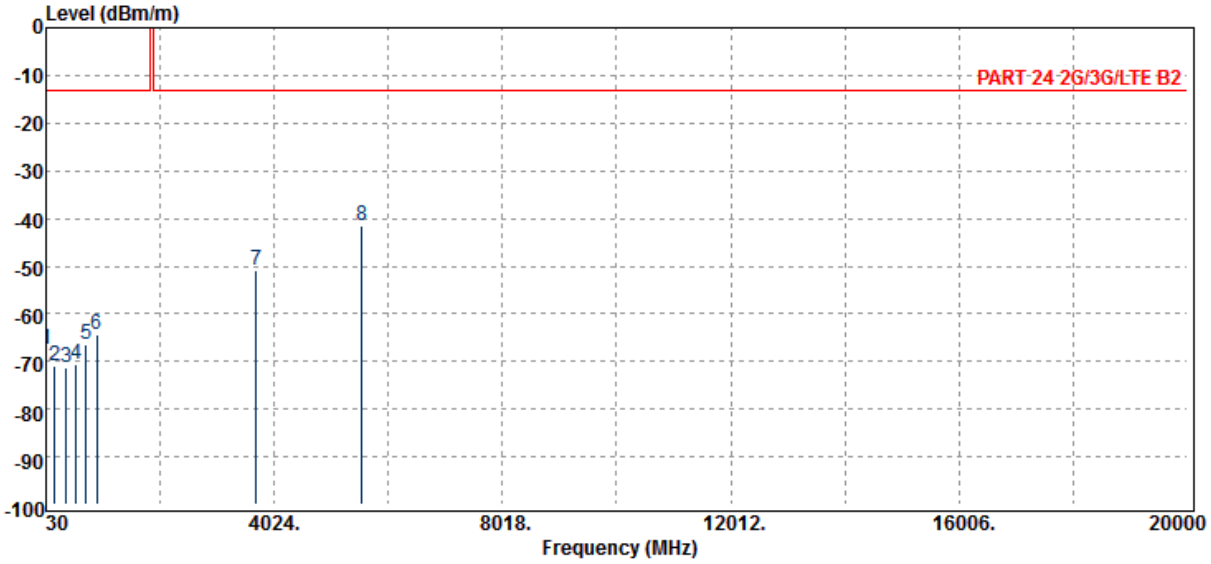
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B2	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
79.47	S	-63.52	-61.71	-0.76	-1.05	-13.00	-50.52
239.52	S	-66.78	-70.61	5.44	-1.61	-13.00	-53.78
324.88	S	-70.69	-74.65	5.84	-1.88	-13.00	-57.69
523.73	S	-69.04	-72.43	5.83	-2.43	-13.00	-56.04
760.41	S	-66.34	-69.09	5.47	-2.72	-13.00	-53.34
949.56	S	-62.93	-65.11	5.38	-3.20	-13.00	-49.93
3701.40	H	-48.34	-49.89	8.43	-6.88	-13.00	-35.34
5552.10	H	-35.89	-37.45	10.10	-8.55	-13.00	-22.89

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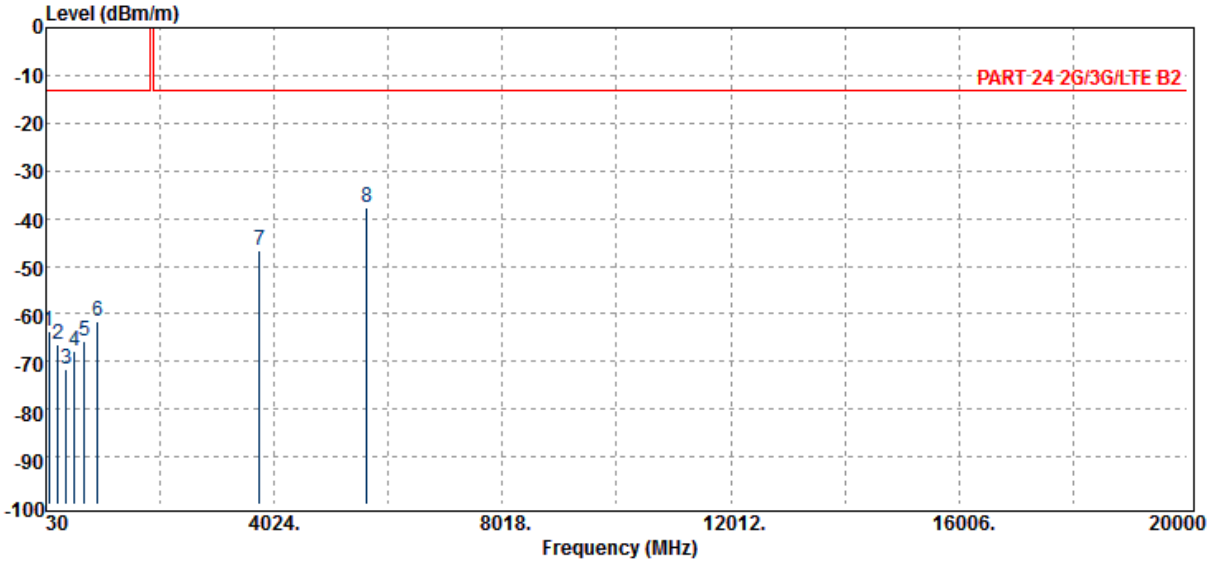
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B2	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.54	-54.32	-12.47	-0.74	-13.00	-54.54
180.35	S	-71.02	-72.71	3.20	-1.50	-13.00	-58.02
378.23	S	-71.32	-75.20	5.83	-1.95	-13.00	-58.32
559.62	S	-70.45	-73.54	5.71	-2.62	-13.00	-57.45
734.22	S	-66.48	-69.28	5.46	-2.66	-13.00	-53.48
918.52	S	-64.20	-66.44	5.40	-3.16	-13.00	-51.20
3701.40	H	-50.81	-52.35	8.43	-6.88	-13.00	-37.81
5552.10	H	-41.47	-43.03	10.10	-8.55	-13.00	-28.47

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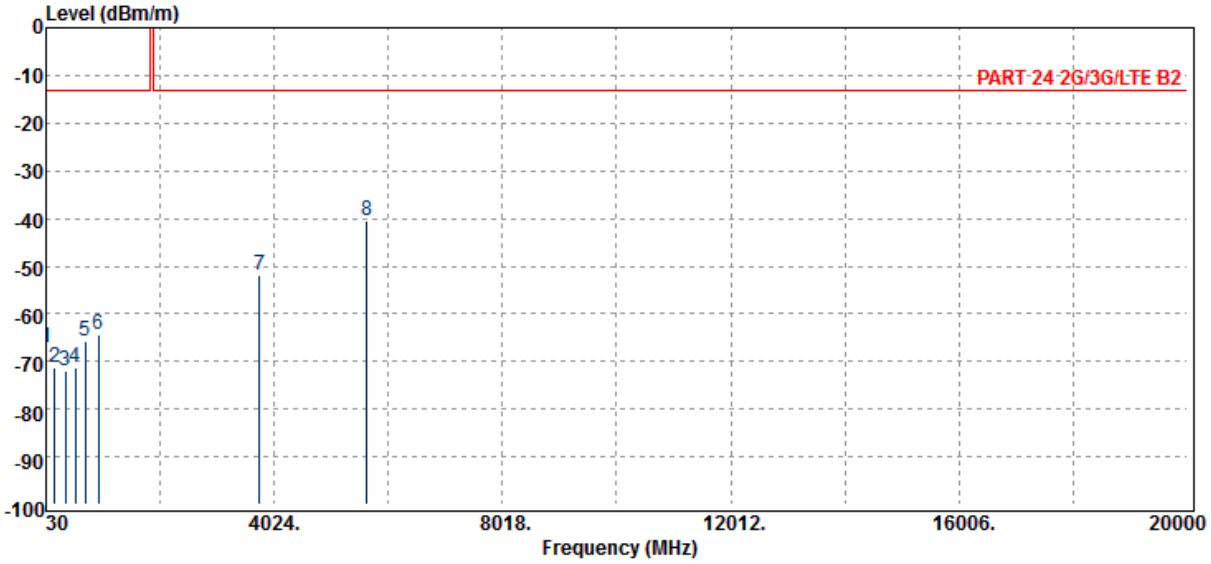
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B2	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-63.62	-62.76	0.20	-1.06	-13.00	-50.62
236.61	S	-66.31	-70.16	5.44	-1.60	-13.00	-53.31
378.23	S	-71.77	-75.65	5.83	-1.95	-13.00	-58.77
524.70	S	-67.78	-71.17	5.82	-2.44	-13.00	-54.78
702.21	S	-65.87	-68.80	5.53	-2.61	-13.00	-52.87
934.04	S	-61.74	-63.95	5.39	-3.18	-13.00	-48.74
3760.00	H	-46.82	-48.26	8.46	-7.02	-13.00	-33.82
5640.00	H	-37.63	-39.16	10.11	-8.59	-13.00	-24.63

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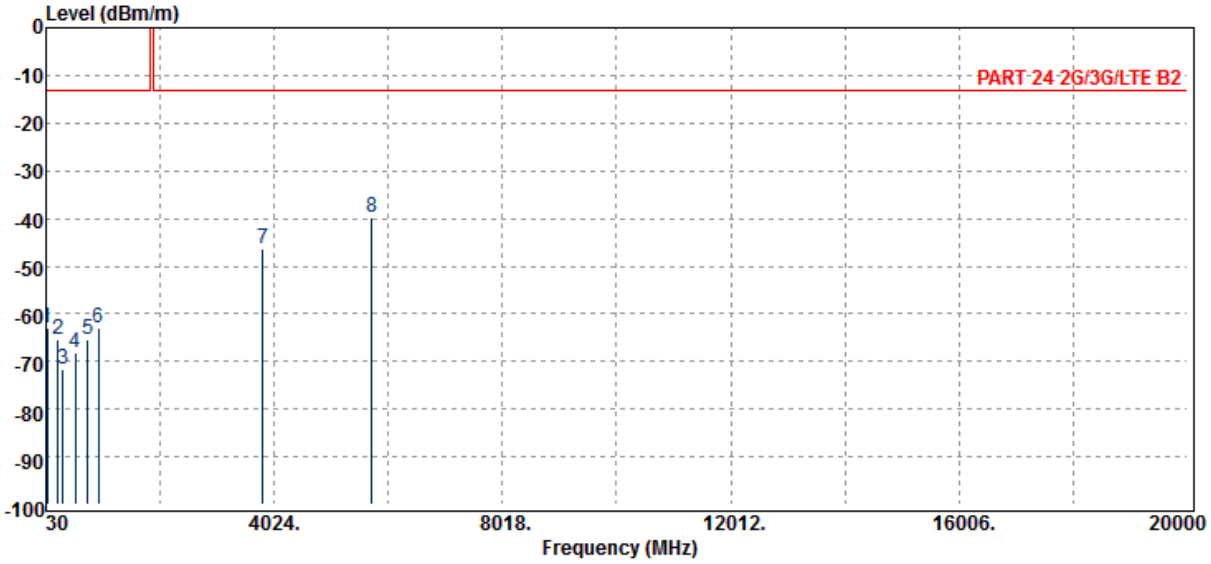
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B2	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.16	-53.95	-12.47	-0.74	-13.00	-54.16
180.35	S	-71.32	-73.02	3.20	-1.50	-13.00	-58.32
368.53	S	-71.94	-75.84	5.86	-1.96	-13.00	-58.94
544.10	S	-71.25	-74.46	5.76	-2.54	-13.00	-58.25
714.82	S	-65.78	-68.67	5.50	-2.61	-13.00	-52.78
944.71	S	-64.49	-66.68	5.39	-3.20	-13.00	-51.49
3760.00	H	-51.95	-53.39	8.46	-7.02	-13.00	-38.95
5640.00	H	-40.31	-41.83	10.11	-8.59	-13.00	-27.31

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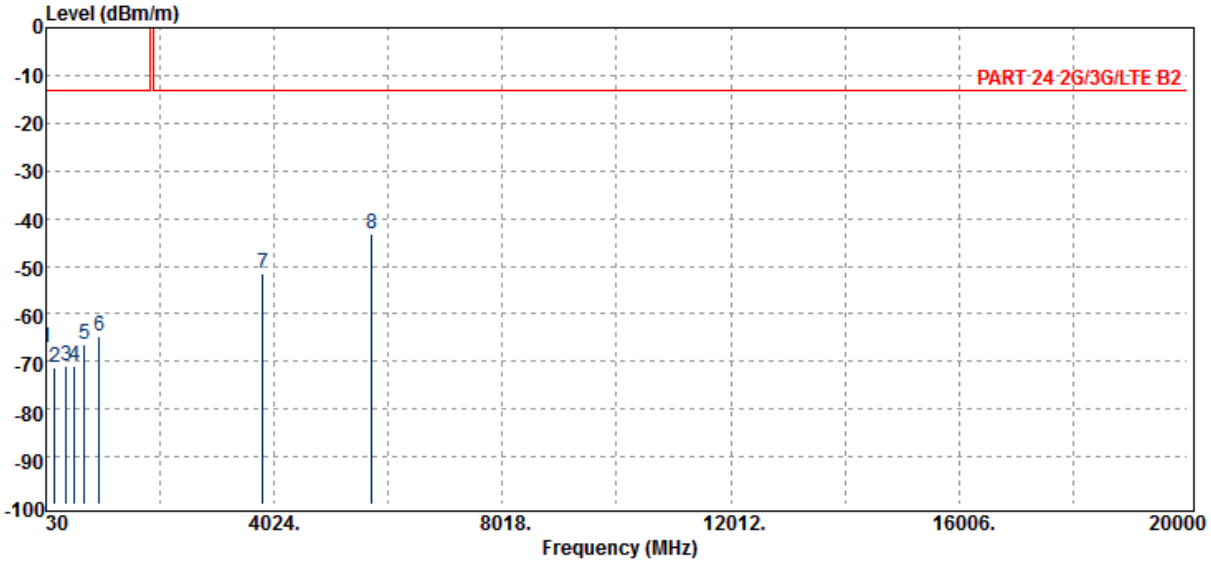
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B2	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
51.34	S	-63.14	-53.32	-8.90	-0.92	-13.00	-50.14
234.67	S	-65.43	-69.29	5.45	-1.59	-13.00	-52.43
323.91	S	-71.59	-75.55	5.84	-1.88	-13.00	-58.59
542.16	S	-68.21	-71.44	5.76	-2.53	-13.00	-55.21
758.47	S	-65.47	-68.22	5.46	-2.72	-13.00	-52.47
941.80	S	-62.96	-65.15	5.39	-3.19	-13.00	-49.96
3818.60	H	-46.39	-47.84	8.50	-7.05	-13.00	-33.39
5727.90	H	-39.91	-41.39	10.12	-8.64	-13.00	-26.91

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ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B2	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

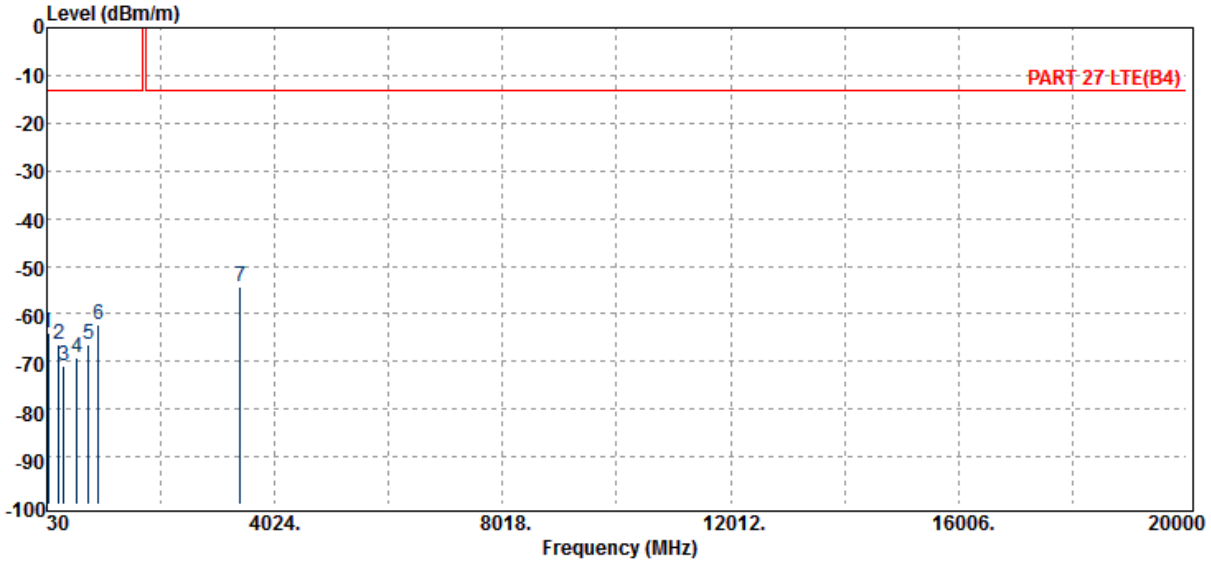


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.21	-53.99	-12.47	-0.74	-13.00	-54.21
179.38	S	-71.26	-72.79	3.03	-1.50	-13.00	-58.26
379.20	S	-70.98	-74.86	5.83	-1.95	-13.00	-57.98
522.76	S	-70.79	-74.19	5.83	-2.43	-13.00	-57.79
701.24	S	-66.56	-69.48	5.53	-2.61	-13.00	-53.56
955.38	S	-64.83	-66.65	5.02	-3.21	-13.00	-51.83
3818.60	H	-51.71	-53.15	8.50	-7.05	-13.00	-38.71
5727.90	H	-43.15	-44.63	10.12	-8.64	-13.00	-30.15

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4 (The Worst Case)

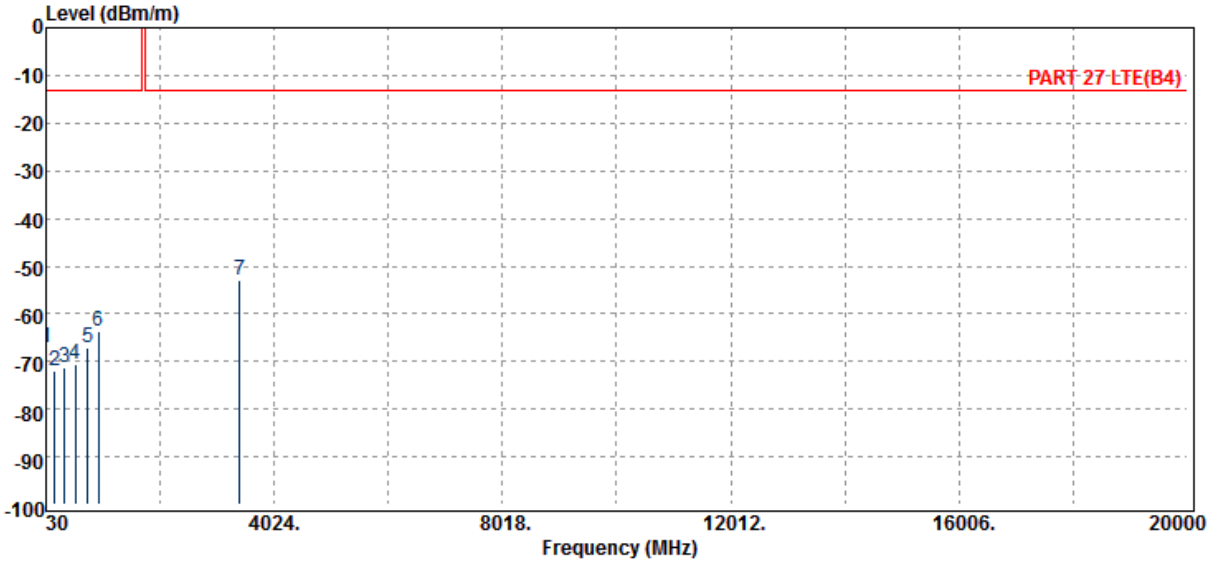
ARFCN	:CH 19957 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
52.31	S	-64.17	-54.62	-8.63	-0.92	-13.00	-51.17
237.58	S	-66.49	-70.33	5.44	-1.60	-13.00	-53.49
323.91	S	-71.06	-75.02	5.84	-1.88	-13.00	-58.06
550.89	S	-69.16	-72.32	5.73	-2.58	-13.00	-56.16
758.47	S	-66.33	-69.07	5.46	-2.72	-13.00	-53.33
939.86	S	-62.32	-64.52	5.39	-3.19	-13.00	-49.32
3421.40	H	-54.25	-55.79	8.08	-6.54	-13.00	-41.25

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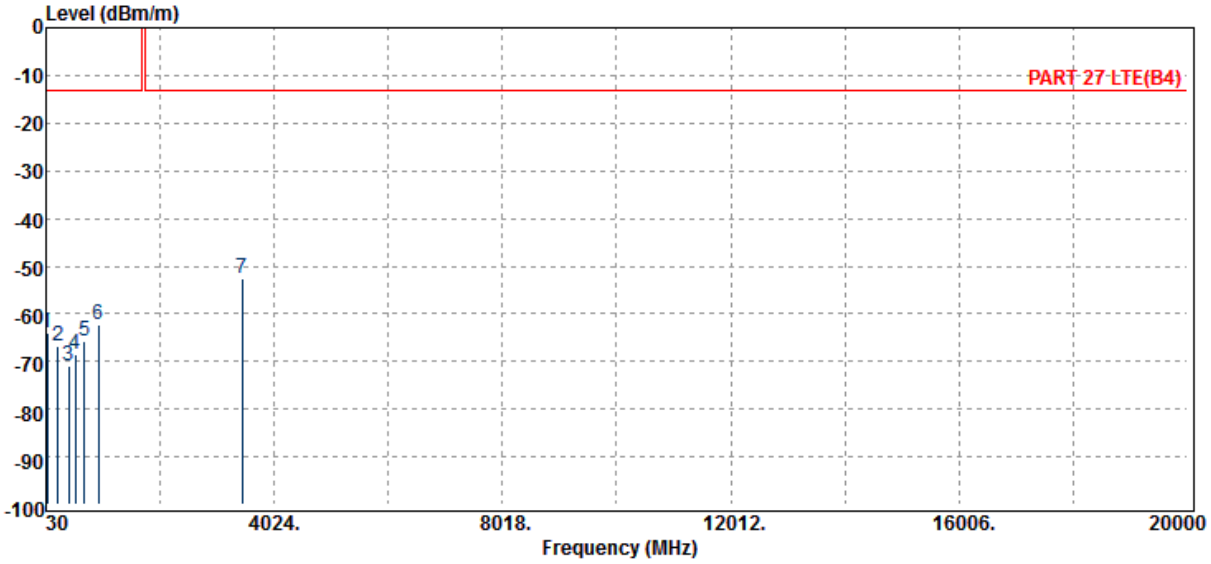
ARFCN	:CH 19957 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-67.06	-54.08	-12.22	-0.75	-13.00	-54.06
180.35	S	-71.82	-73.51	3.20	-1.50	-13.00	-58.82
359.80	S	-71.40	-75.32	5.88	-1.96	-13.00	-58.40
537.31	S	-70.43	-73.70	5.78	-2.51	-13.00	-57.43
758.47	S	-66.99	-69.74	5.46	-2.72	-13.00	-53.99
954.41	S	-63.65	-65.53	5.09	-3.21	-13.00	-50.65
3421.40	H	-52.86	-54.39	8.08	-6.54	-13.00	-39.86

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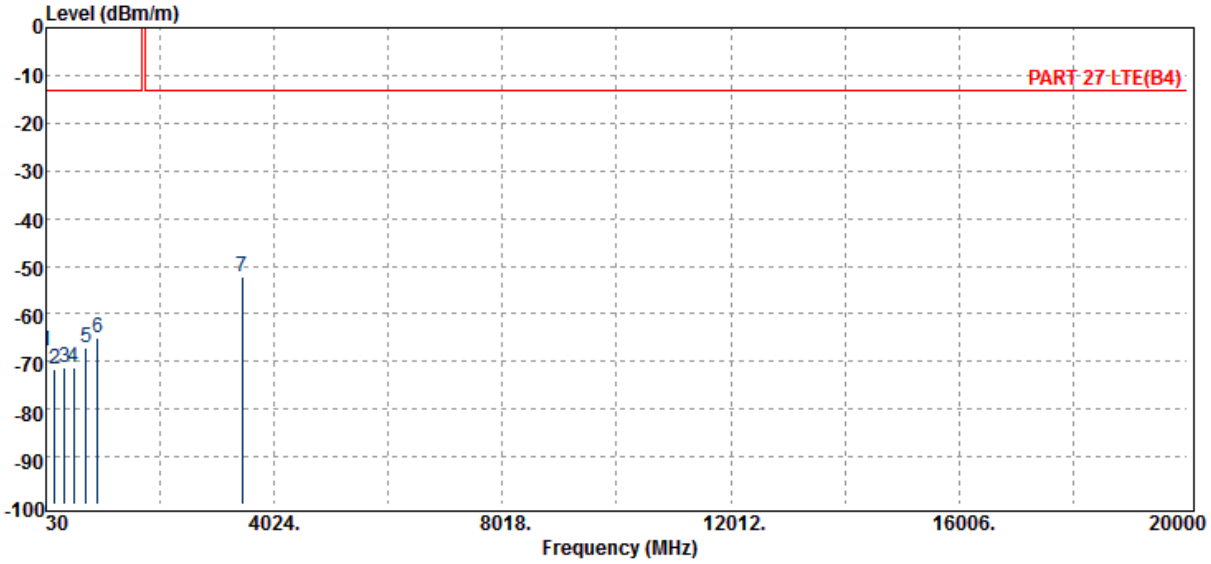
ARFCN	:CH 20175 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
52.31	S	-64.01	-54.46	-8.63	-0.92	-13.00	-51.01
237.58	S	-66.80	-70.64	5.44	-1.60	-13.00	-53.80
424.79	S	-71.04	-74.68	5.63	-1.99	-13.00	-58.04
549.92	S	-68.44	-71.60	5.74	-2.57	-13.00	-55.44
704.15	S	-65.85	-68.76	5.52	-2.60	-13.00	-52.85
946.65	S	-62.31	-64.50	5.39	-3.20	-13.00	-49.31
3465.00	H	-52.76	-54.43	8.20	-6.53	-13.00	-39.76

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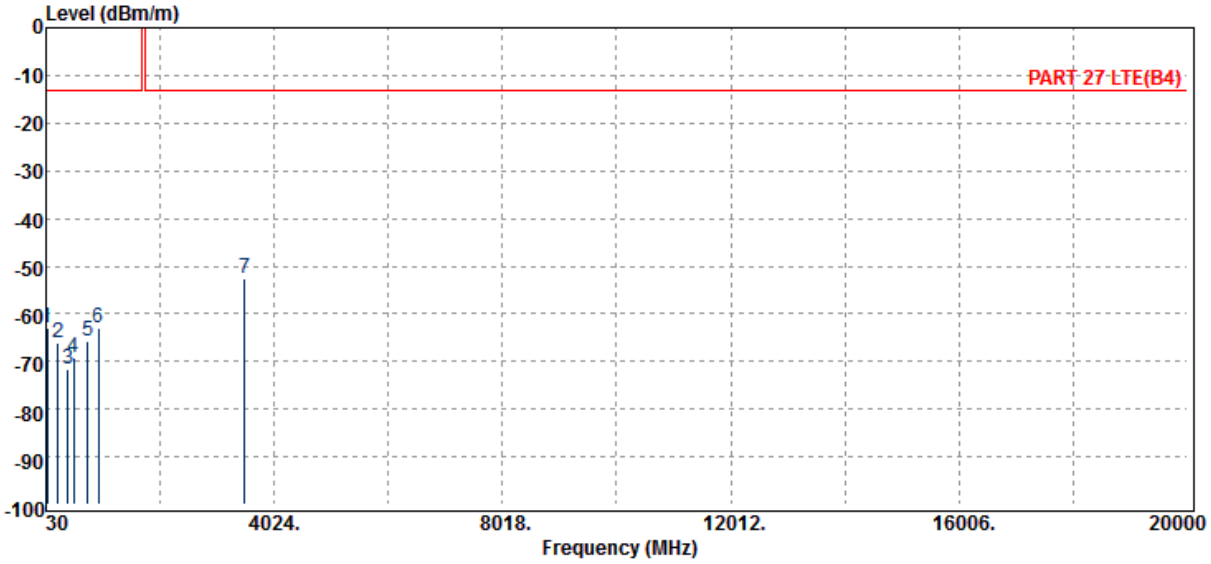
ARFCN	:CH 20175 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.68	-54.46	-12.47	-0.74	-13.00	-54.68
180.35	S	-71.65	-73.34	3.20	-1.50	-13.00	-58.65
360.77	S	-71.24	-75.15	5.88	-1.96	-13.00	-58.24
512.09	S	-71.22	-74.71	5.87	-2.37	-13.00	-58.22
730.34	S	-67.07	-69.89	5.47	-2.65	-13.00	-54.07
935.01	S	-64.99	-67.20	5.39	-3.18	-13.00	-51.99
3465.00	H	-52.17	-53.84	8.20	-6.53	-13.00	-39.17

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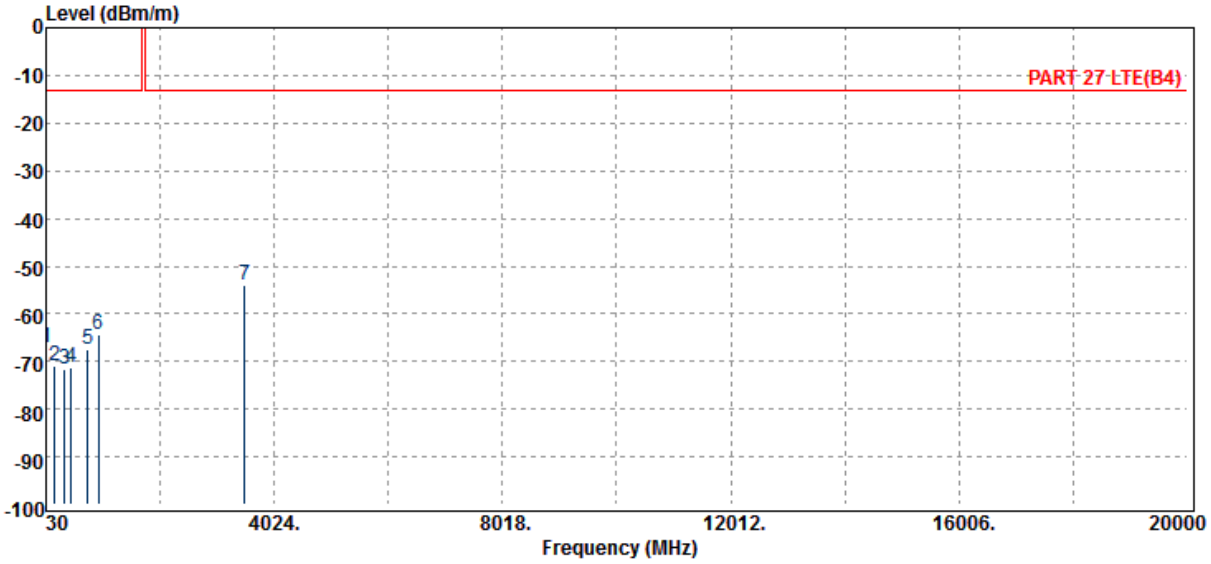
ARFCN	:CH 20393 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
52.31	S	-62.92	-53.37	-8.63	-0.92	-13.00	-49.92
237.58	S	-66.20	-70.04	5.44	-1.60	-13.00	-53.20
419.94	S	-71.69	-75.38	5.66	-1.97	-13.00	-58.69
519.85	S	-69.21	-72.64	5.84	-2.41	-13.00	-56.21
756.53	S	-65.87	-68.61	5.45	-2.71	-13.00	-52.87
946.65	S	-62.84	-65.03	5.39	-3.20	-13.00	-49.84
3508.60	H	-52.54	-54.15	8.31	-6.69	-13.00	-39.54

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ARFCN	:CH 20393 16QAM BW 1.4 RB 1 5	Test Date	:2015-04-18
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

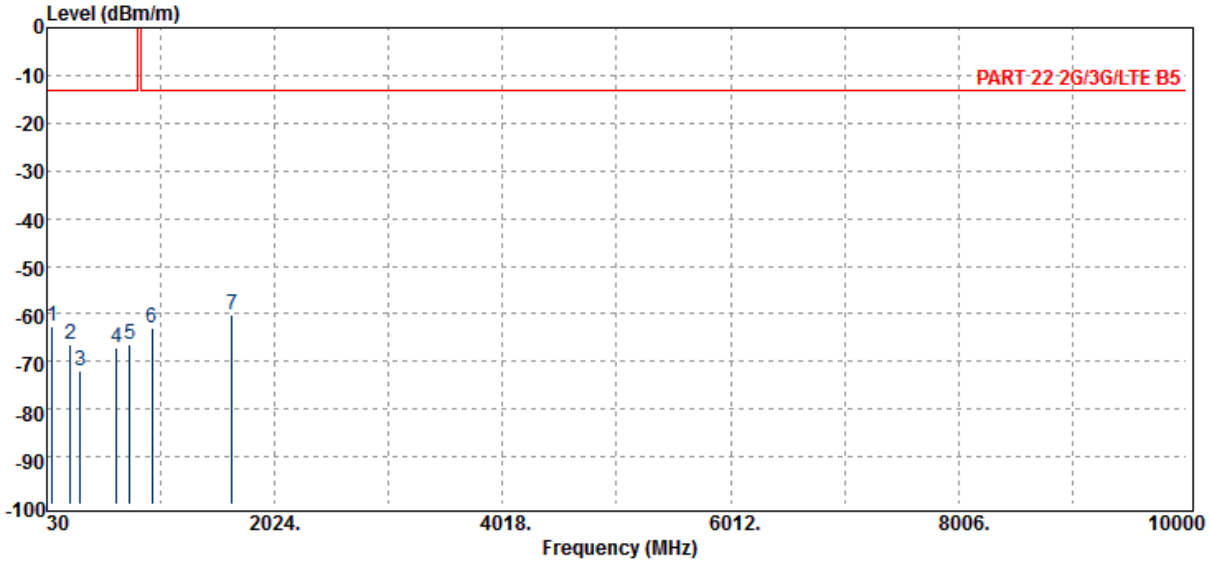


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.29	-54.08	-12.47	-0.74	-13.00	-54.29
180.35	S	-70.92	-72.62	3.20	-1.50	-13.00	-57.92
359.80	S	-71.52	-75.44	5.88	-1.96	-13.00	-58.52
467.47	S	-71.12	-74.65	5.64	-2.12	-13.00	-58.12
760.41	S	-67.39	-70.14	5.47	-2.72	-13.00	-54.39
944.71	S	-64.47	-66.66	5.39	-3.20	-13.00	-51.47
3508.60	H	-53.99	-55.60	8.31	-6.69	-13.00	-40.99

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Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5 (The Worst Case)

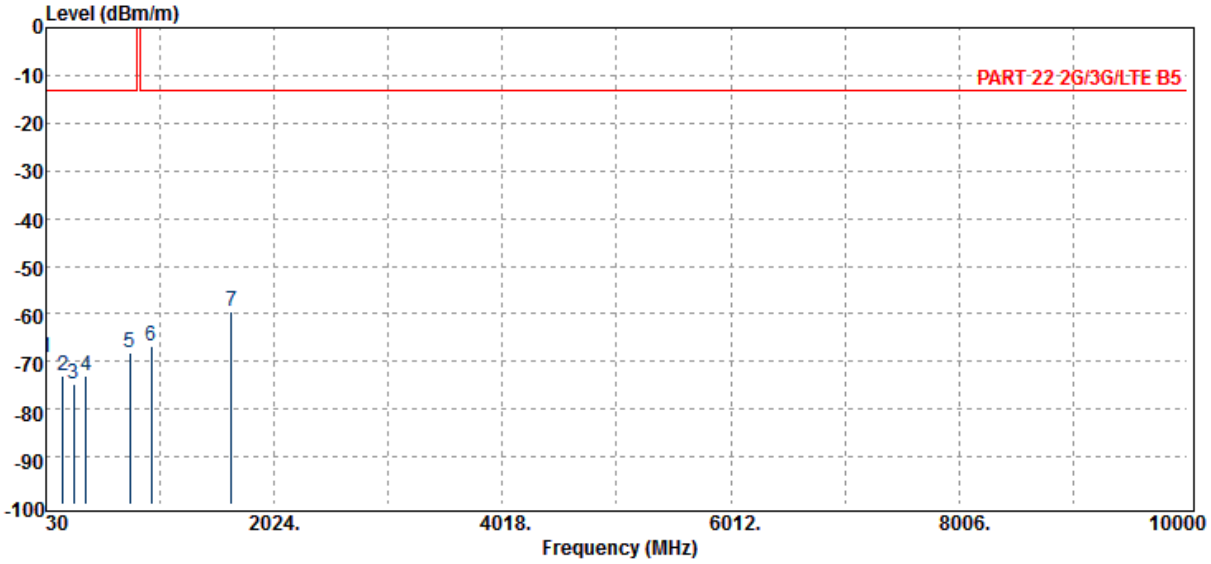
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-04-18
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
79.47	S	-62.65	-58.69	-2.91	-1.05	-13.00	-49.65
238.55	S	-66.46	-68.14	3.29	-1.60	-13.00	-53.46
324.88	S	-71.89	-73.70	3.69	-1.88	-13.00	-58.89
639.16	S	-67.08	-68.01	3.60	-2.68	-13.00	-54.08
751.68	S	-66.45	-67.03	3.29	-2.70	-13.00	-53.45
949.56	S	-63.03	-63.06	3.23	-3.20	-13.00	-50.03
1651.00	H	-60.29	-59.12	3.05	-4.22	-13.00	-47.29

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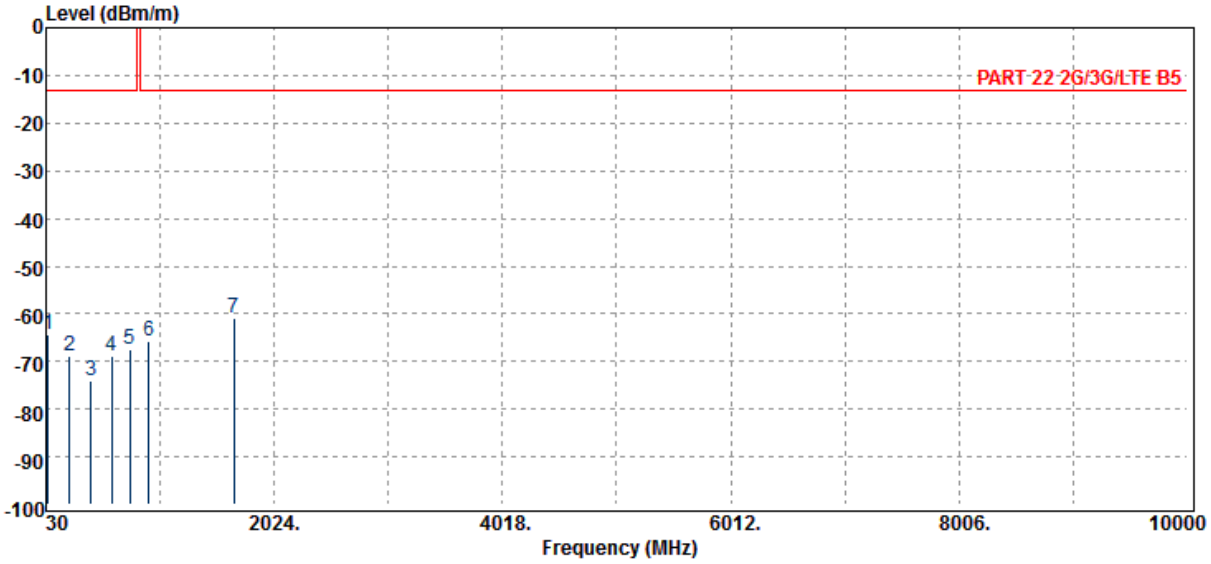
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-04-18
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-69.24	-54.11	-14.37	-0.75	-13.00	-56.24
180.35	S	-73.10	-72.64	1.05	-1.50	-13.00	-60.10
268.62	S	-74.67	-76.60	3.62	-1.69	-13.00	-61.67
378.23	S	-73.04	-74.77	3.68	-1.95	-13.00	-60.04
764.29	S	-68.25	-68.85	3.33	-2.73	-13.00	-55.25
950.53	S	-66.66	-66.66	3.20	-3.20	-13.00	-53.66
1651.00	H	-59.62	-58.46	3.05	-4.22	-13.00	-46.62

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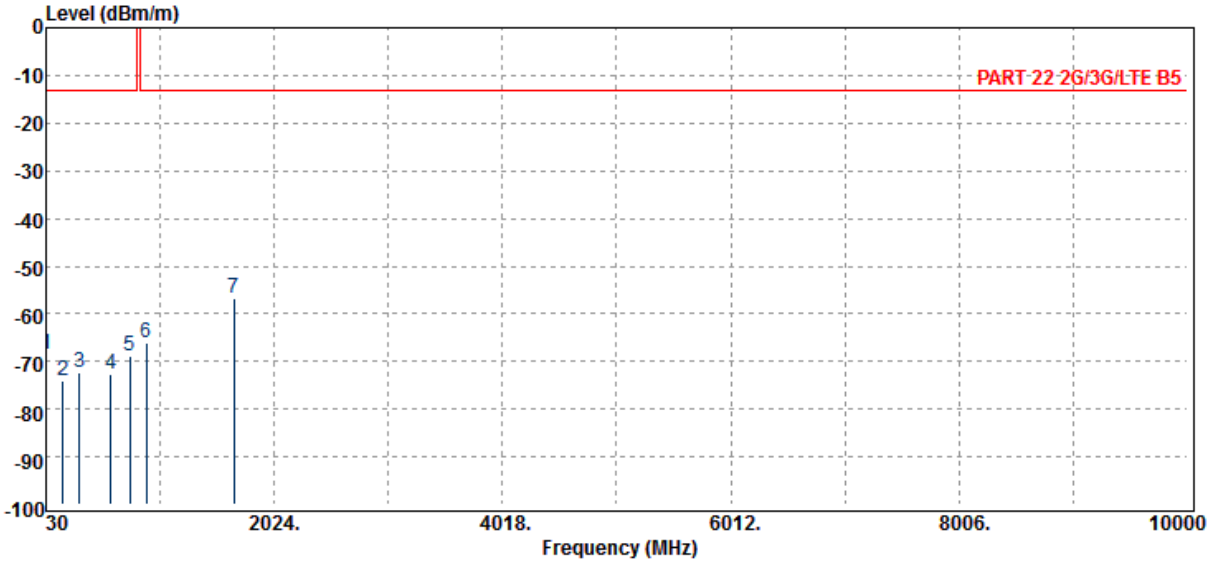
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-04-18
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
51.34	S	-64.38	-52.42	-11.05	-0.92	-13.00	-51.38
237.58	S	-68.97	-70.66	3.29	-1.60	-13.00	-55.97
420.91	S	-74.21	-75.73	3.50	-1.98	-13.00	-61.21
604.24	S	-68.93	-69.65	3.46	-2.74	-13.00	-55.93
763.32	S	-67.37	-67.97	3.33	-2.73	-13.00	-54.37
925.31	S	-65.75	-65.83	3.25	-3.17	-13.00	-52.75
1673.00	H	-60.89	-59.64	3.01	-4.26	-13.00	-47.89

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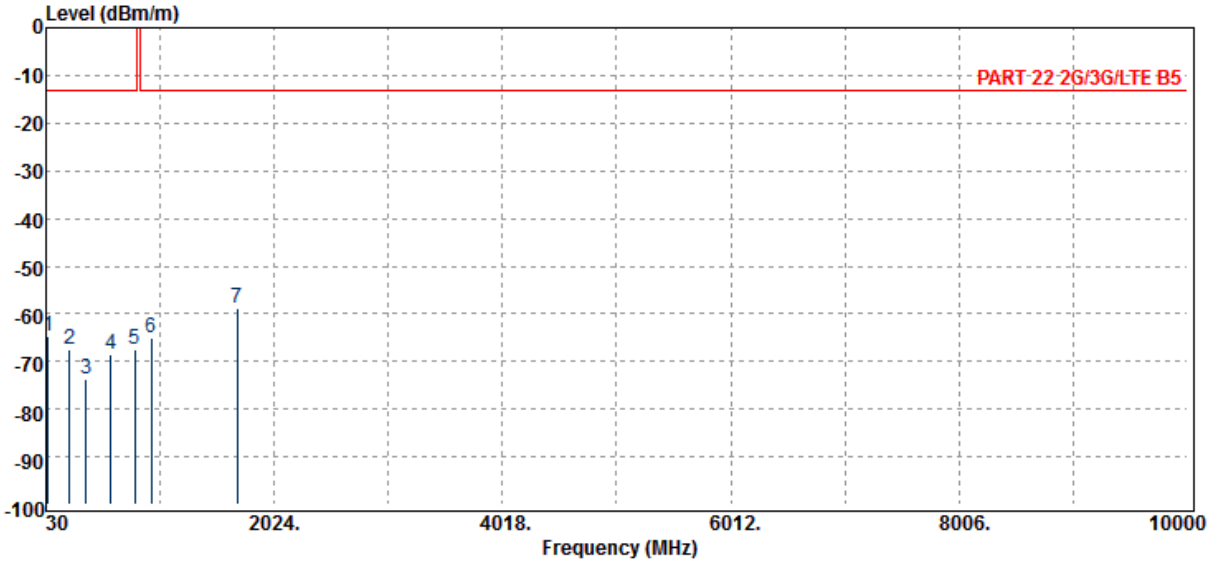
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-04-18
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-68.42	-53.29	-14.37	-0.75	-13.00	-55.42
181.32	S	-73.89	-73.60	1.21	-1.50	-13.00	-60.89
323.91	S	-72.36	-74.17	3.69	-1.88	-13.00	-59.36
597.45	S	-72.70	-73.40	3.45	-2.75	-13.00	-59.70
765.26	S	-68.87	-69.47	3.33	-2.73	-13.00	-55.87
903.97	S	-66.02	-66.15	3.26	-3.13	-13.00	-53.02
1673.00	H	-56.61	-55.36	3.01	-4.26	-13.00	-43.61

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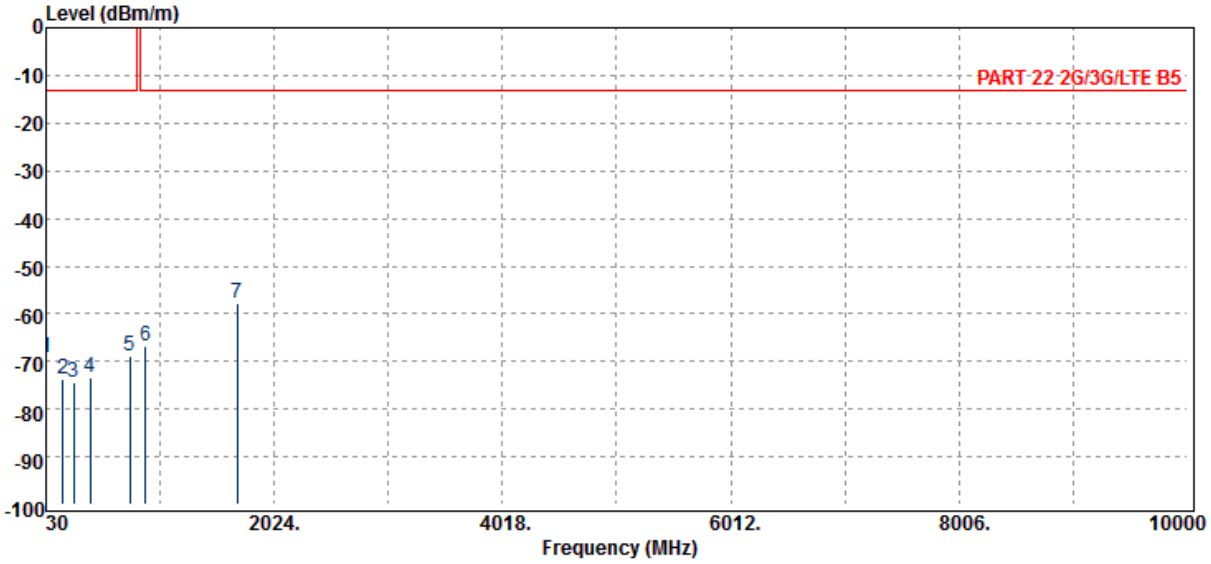
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-04-18
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
51.34	S	-64.65	-52.68	-11.05	-0.92	-13.00	-51.65
237.58	S	-67.64	-69.33	3.29	-1.60	-13.00	-54.64
378.23	S	-73.82	-75.54	3.68	-1.95	-13.00	-60.82
597.45	S	-68.60	-69.29	3.45	-2.75	-13.00	-55.60
806.00	S	-67.60	-68.17	3.45	-2.87	-13.00	-54.60
949.56	S	-65.12	-65.15	3.23	-3.20	-13.00	-52.12
1696.60	H	-58.99	-57.68	2.96	-4.28	-13.00	-45.99

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ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-04-18
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

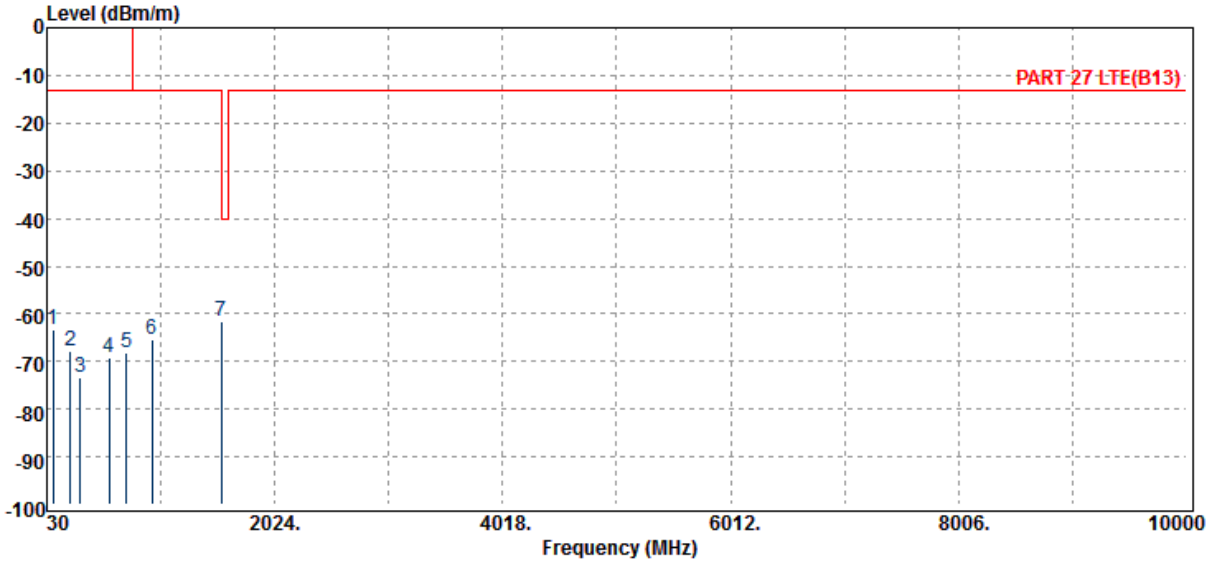


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-69.19	-54.06	-14.37	-0.75	-13.00	-56.19
179.38	S	-73.61	-73.00	0.88	-1.50	-13.00	-60.61
268.62	S	-74.53	-76.46	3.62	-1.69	-13.00	-61.53
413.15	S	-73.27	-74.86	3.55	-1.95	-13.00	-60.27
759.44	S	-68.93	-69.53	3.31	-2.72	-13.00	-55.93
896.21	S	-66.94	-67.10	3.28	-3.12	-13.00	-53.94
1696.60	H	-57.80	-56.49	2.96	-4.28	-13.00	-44.80

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(The Worst Case)

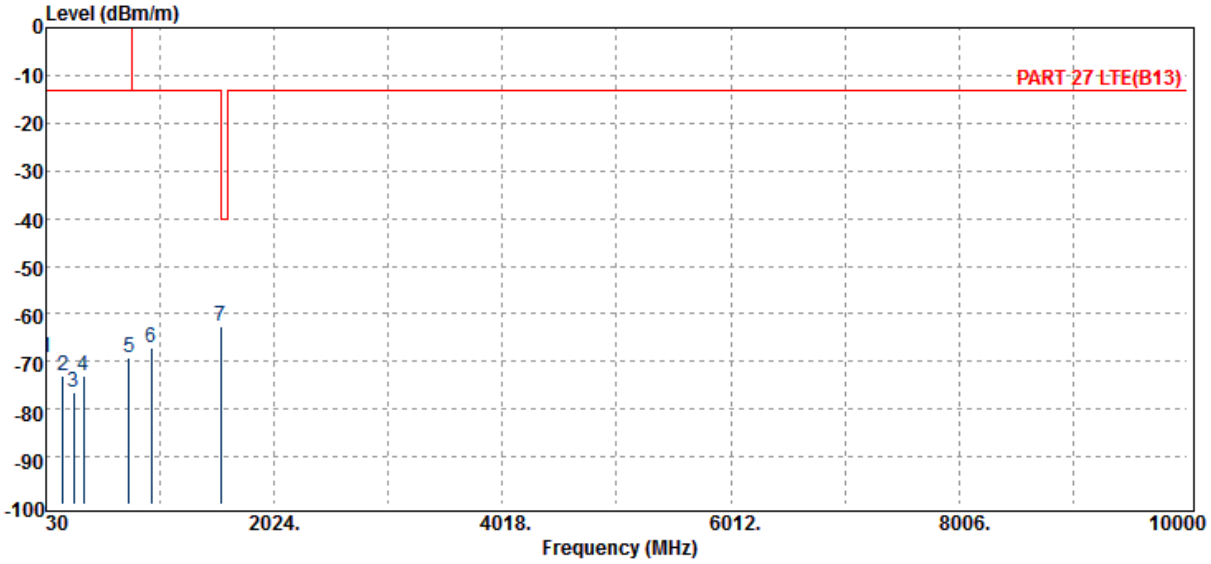
ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-63.16	-59.69	-2.41	-1.06	-13.00	-50.16
235.64	S	-67.87	-69.57	3.30	-1.59	-13.00	-54.87
323.91	S	-73.36	-75.17	3.69	-1.88	-13.00	-60.36
577.08	S	-69.14	-69.95	3.51	-2.70	-13.00	-56.14
726.46	S	-68.21	-68.90	3.33	-2.64	-13.00	-55.21
948.59	S	-65.26	-65.29	3.24	-3.20	-13.00	-52.26
1559.00	H	-61.65	-60.77	3.23	-4.11	-40.00	-21.65

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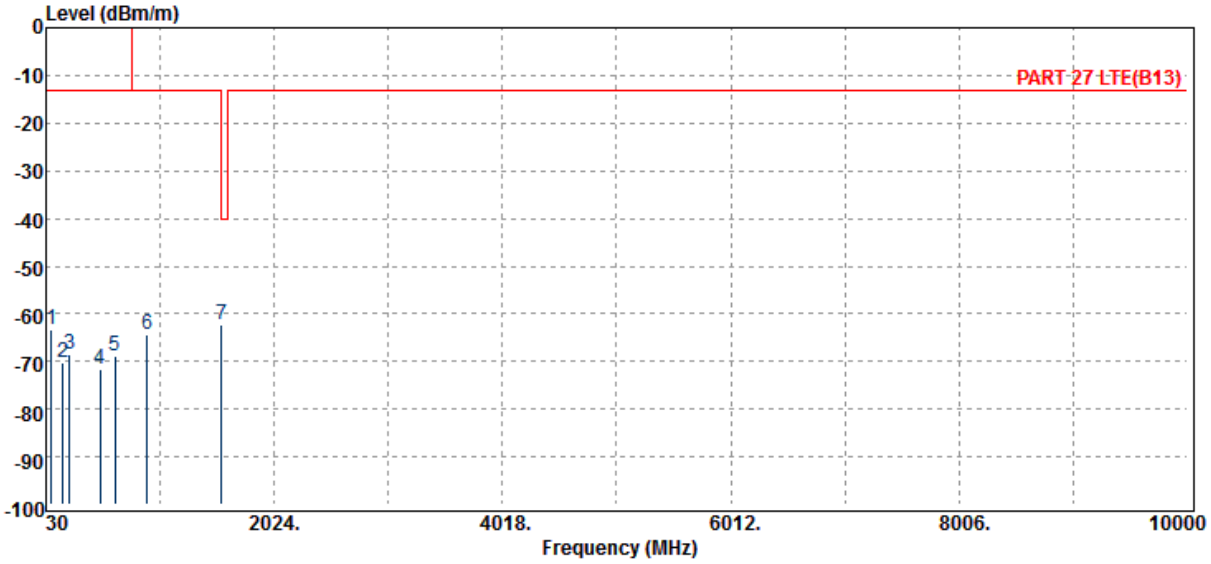
ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-69.36	-53.99	-14.62	-0.74	-13.00	-56.36
180.35	S	-73.18	-72.72	1.05	-1.50	-13.00	-60.18
270.56	S	-76.36	-78.26	3.59	-1.69	-13.00	-63.36
360.77	S	-72.93	-74.69	3.73	-1.96	-13.00	-59.93
751.68	S	-69.10	-69.69	3.29	-2.70	-13.00	-56.10
946.65	S	-67.10	-67.14	3.24	-3.20	-13.00	-54.10
1559.00	H	-62.78	-61.90	3.23	-4.11	-40.00	-22.78

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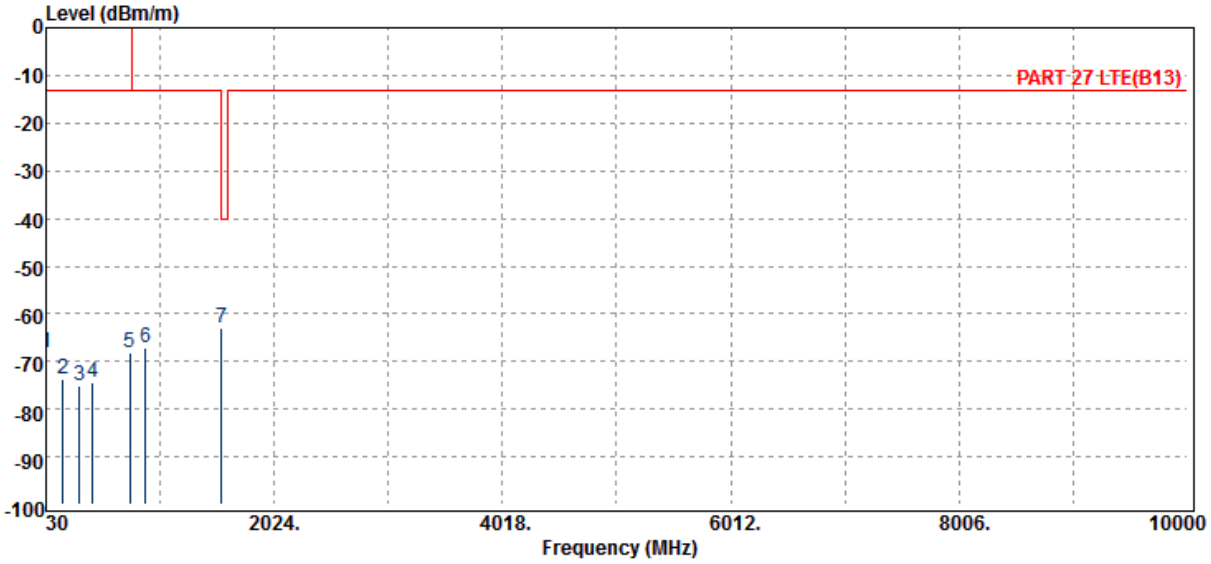
ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
80.44	S	-63.46	-59.76	-2.65	-1.05	-13.00	-50.46
180.35	S	-70.21	-69.75	1.05	-1.50	-13.00	-57.21
236.61	S	-68.45	-70.14	3.29	-1.60	-13.00	-55.45
504.33	S	-71.61	-73.03	3.74	-2.33	-13.00	-58.61
629.46	S	-68.95	-69.82	3.56	-2.69	-13.00	-55.95
911.73	S	-64.42	-64.53	3.26	-3.15	-13.00	-51.42
1564.00	H	-62.45	-61.56	3.22	-4.11	-40.00	-22.45

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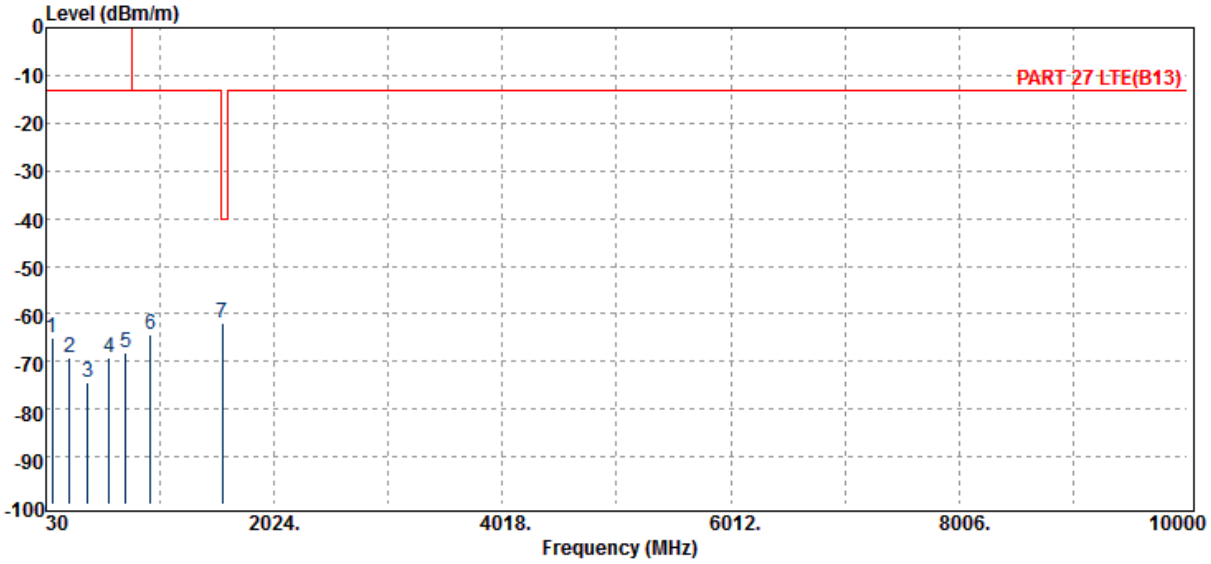
ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-68.10	-52.74	-14.62	-0.74	-13.00	-55.10
180.35	S	-73.79	-73.34	1.05	-1.50	-13.00	-60.79
323.91	S	-74.95	-76.76	3.69	-1.88	-13.00	-61.95
435.46	S	-74.26	-75.66	3.42	-2.02	-13.00	-61.26
760.41	S	-68.22	-68.82	3.32	-2.72	-13.00	-55.22
901.06	S	-67.13	-67.27	3.26	-3.13	-13.00	-54.13
1564.00	H	-62.96	-62.07	3.22	-4.11	-40.00	-22.96

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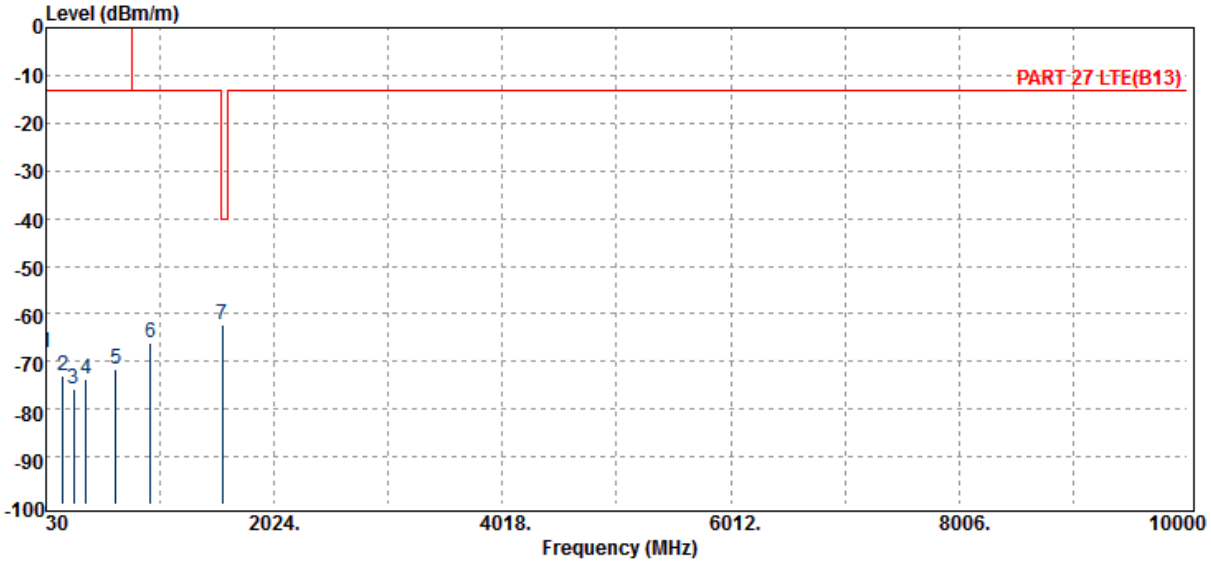
ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-04-17
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
82.38	S	-65.06	-61.82	-2.18	-1.06	-13.00	-52.06
234.67	S	-69.22	-70.92	3.30	-1.59	-13.00	-56.22
395.69	S	-74.23	-75.92	3.63	-1.95	-13.00	-61.23
579.99	S	-69.13	-69.91	3.50	-2.72	-13.00	-56.13
725.49	S	-68.29	-68.98	3.33	-2.64	-13.00	-55.29
943.74	S	-64.41	-64.45	3.24	-3.19	-13.00	-51.41
1569.00	H	-61.79	-60.88	3.21	-4.11	-40.00	-21.79

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ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-04-17
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

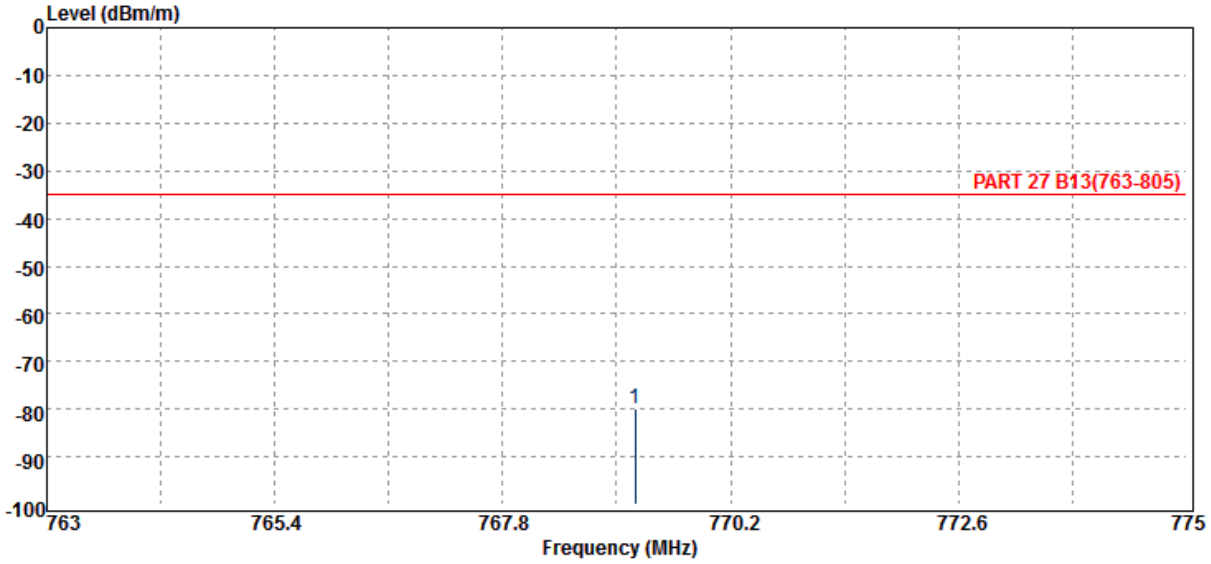


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-68.10	-52.74	-14.62	-0.74	-13.00	-55.10
180.35	S	-72.89	-72.44	1.05	-1.50	-13.00	-59.89
269.59	S	-75.76	-77.68	3.61	-1.69	-13.00	-62.76
379.20	S	-73.77	-75.49	3.68	-1.95	-13.00	-60.77
639.16	S	-71.47	-72.39	3.60	-2.68	-13.00	-58.47
945.68	S	-66.03	-66.07	3.24	-3.20	-13.00	-53.03
1569.00	H	-62.38	-61.48	3.21	-4.11	-40.00	-22.38

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(763MHz-755MHz)

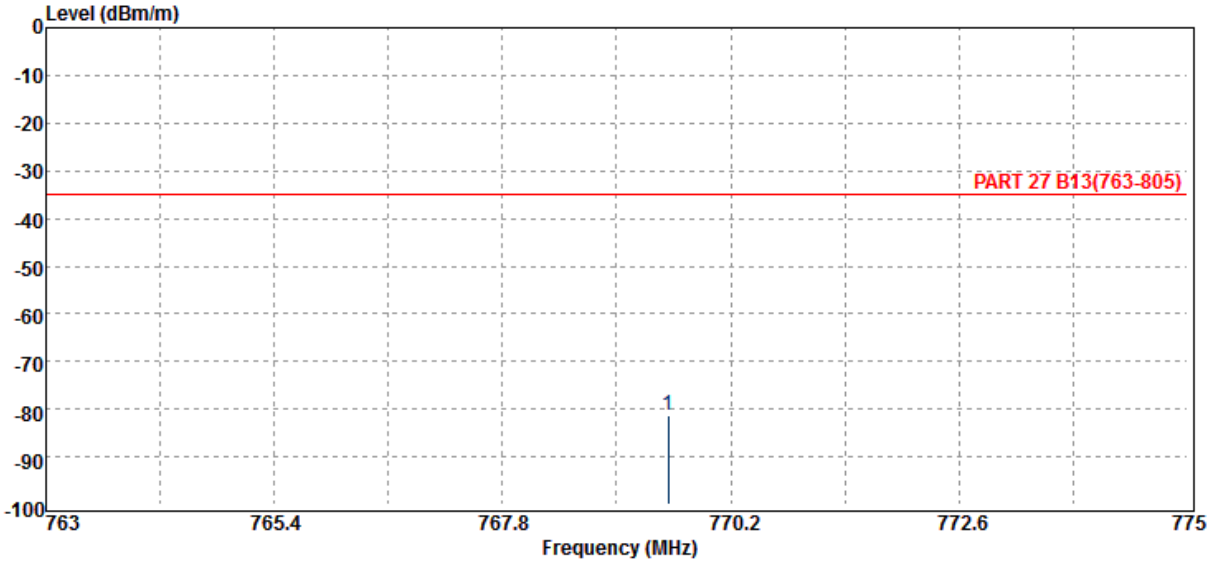
ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.19	S	-79.94	-80.55	3.34	-2.74	-35.00	-44.94

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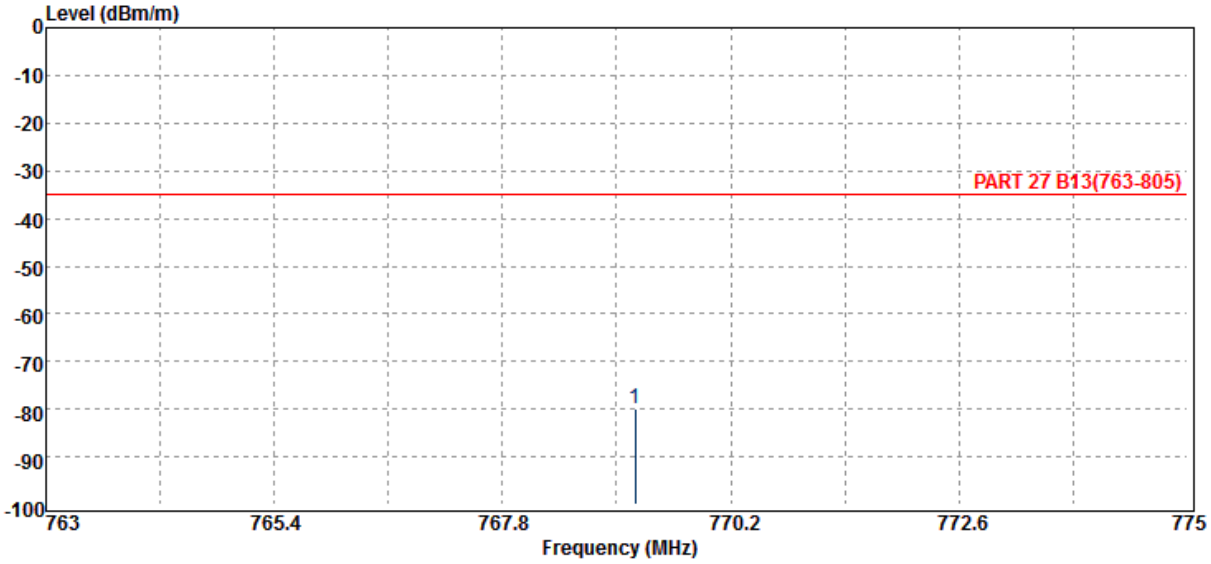
ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.54	S	-81.22	-81.82	3.35	-2.74	-35.00	-46.22

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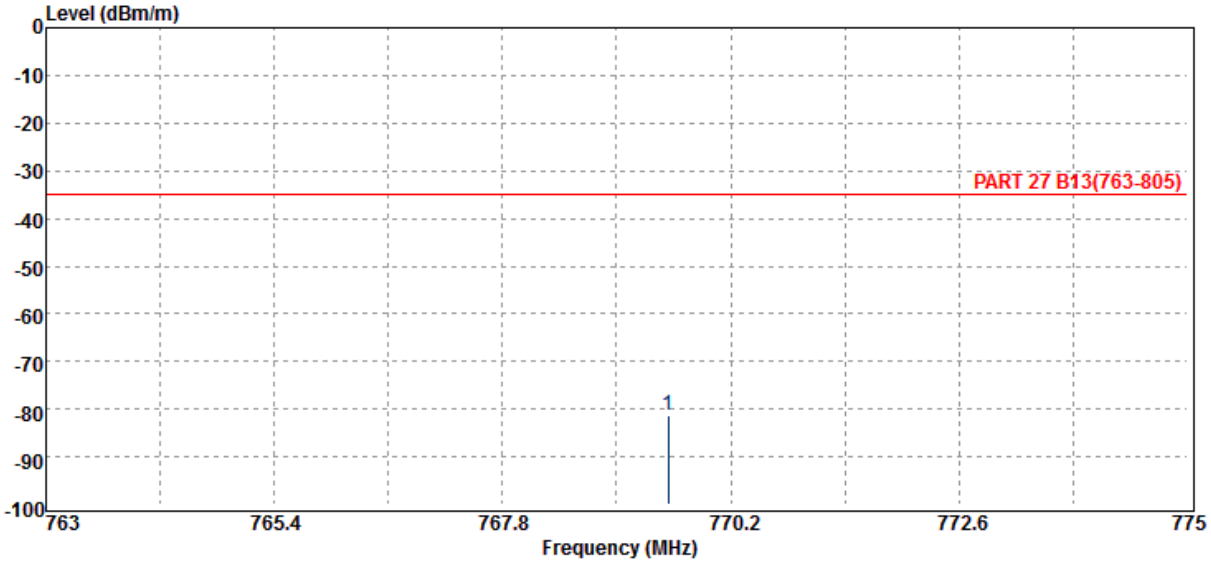
ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.19	S	-79.94	-80.55	3.34	-2.74	-35.00	-44.94

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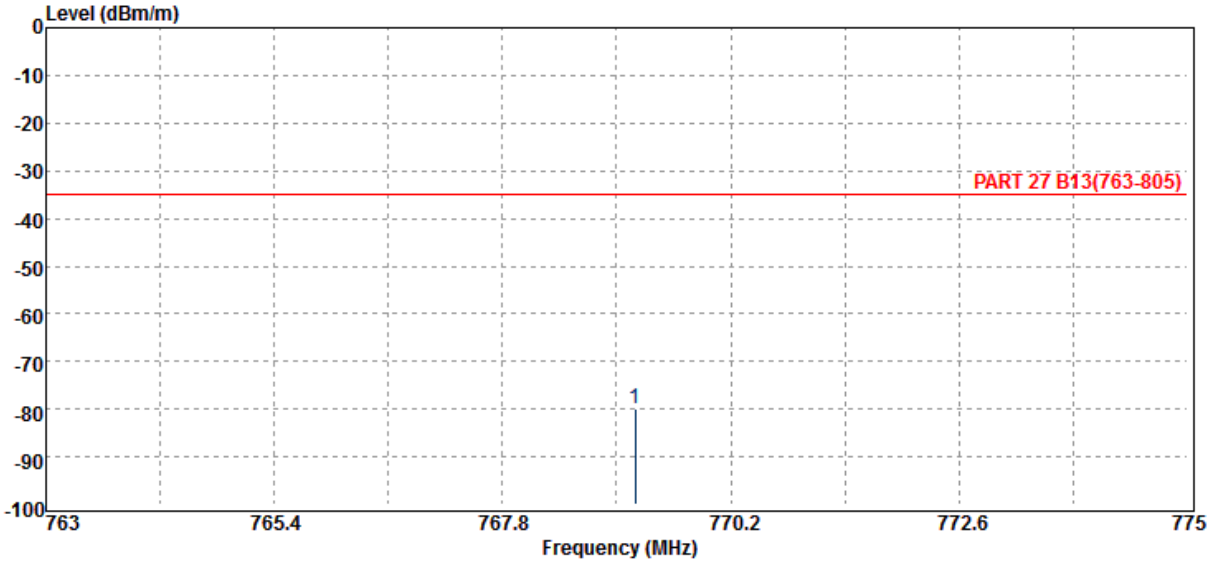
ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.54	S	-81.22	-81.82	3.35	-2.74	-35.00	-46.22

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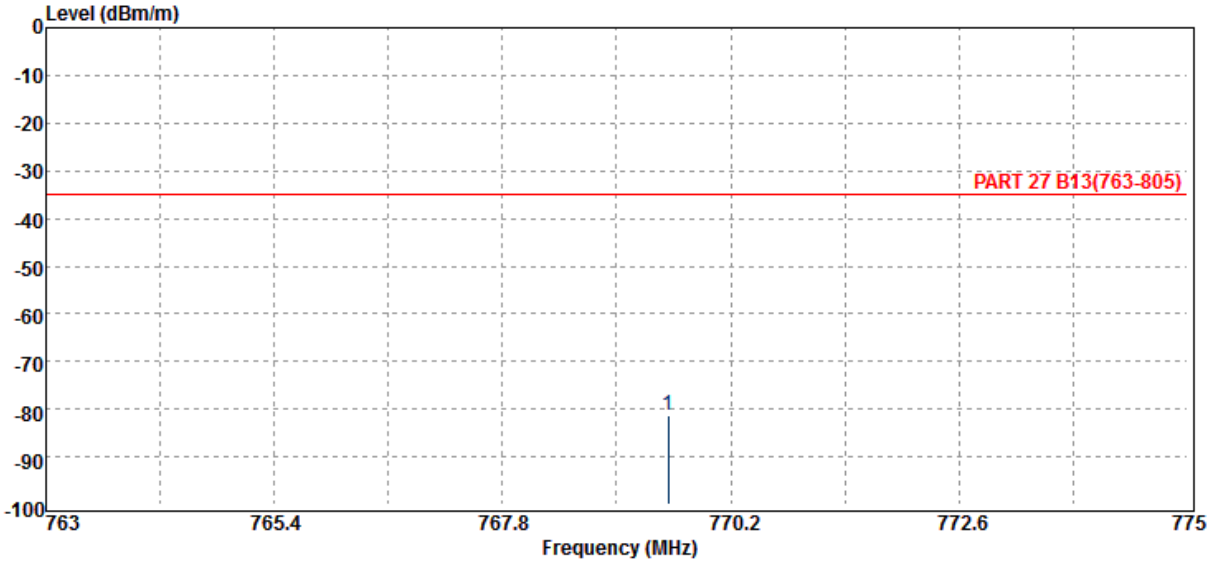
ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.19	S	-79.94	-80.55	3.34	-2.74	-35.00	-44.94

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ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

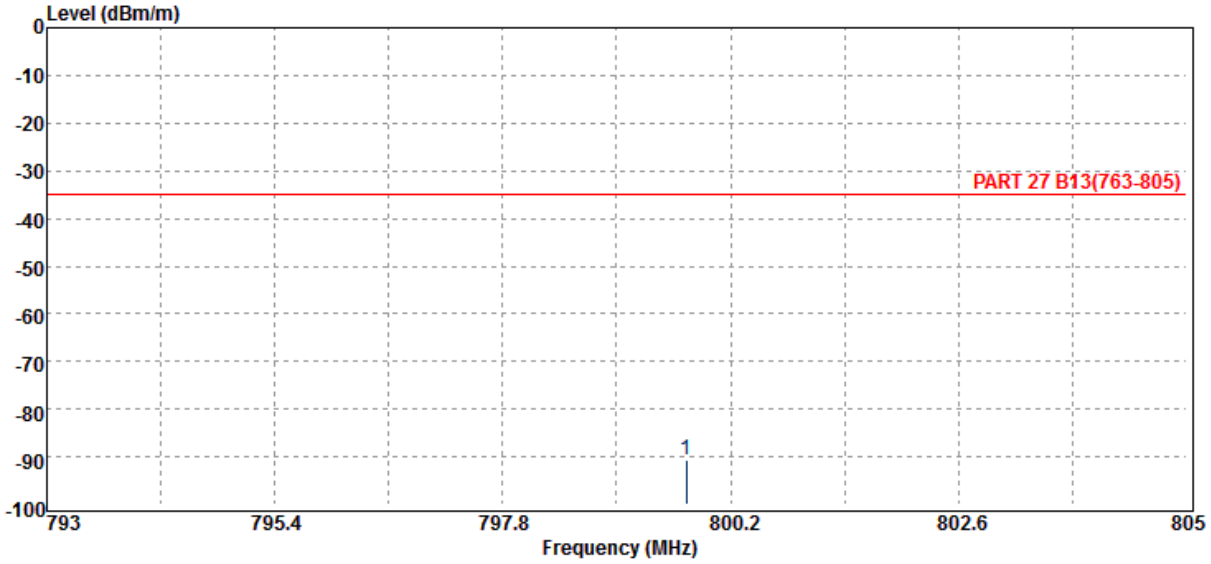


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.54	S	-81.22	-81.82	3.35	-2.74	-35.00	-46.22

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(793MHz-805MHz)

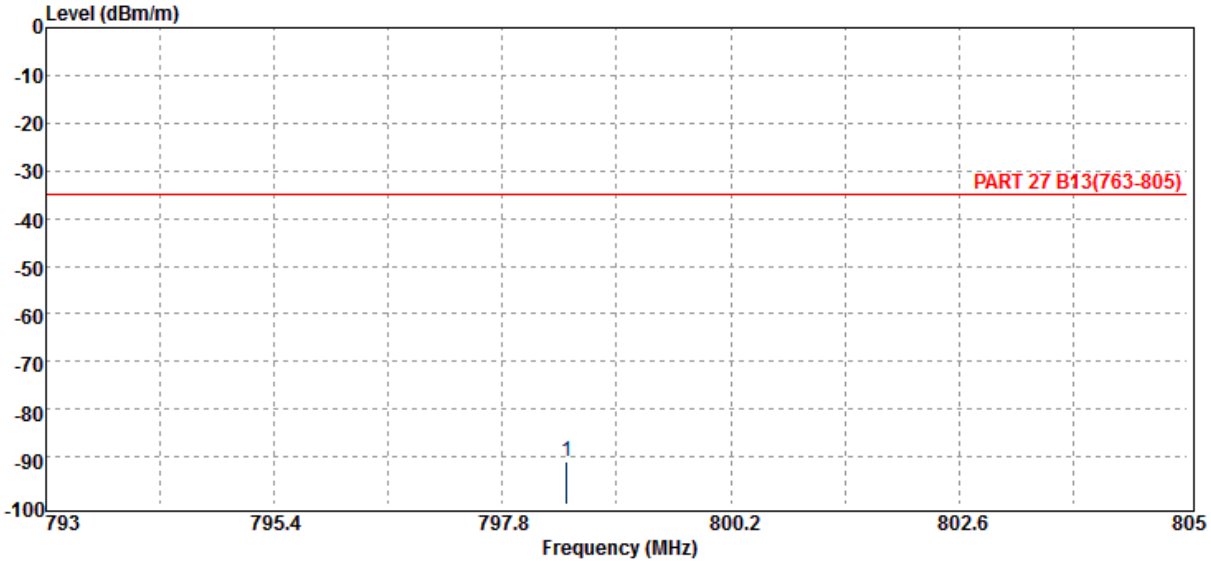
ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
799.73	S	-90.56	-91.15	3.44	-2.85	-35.00	-55.56

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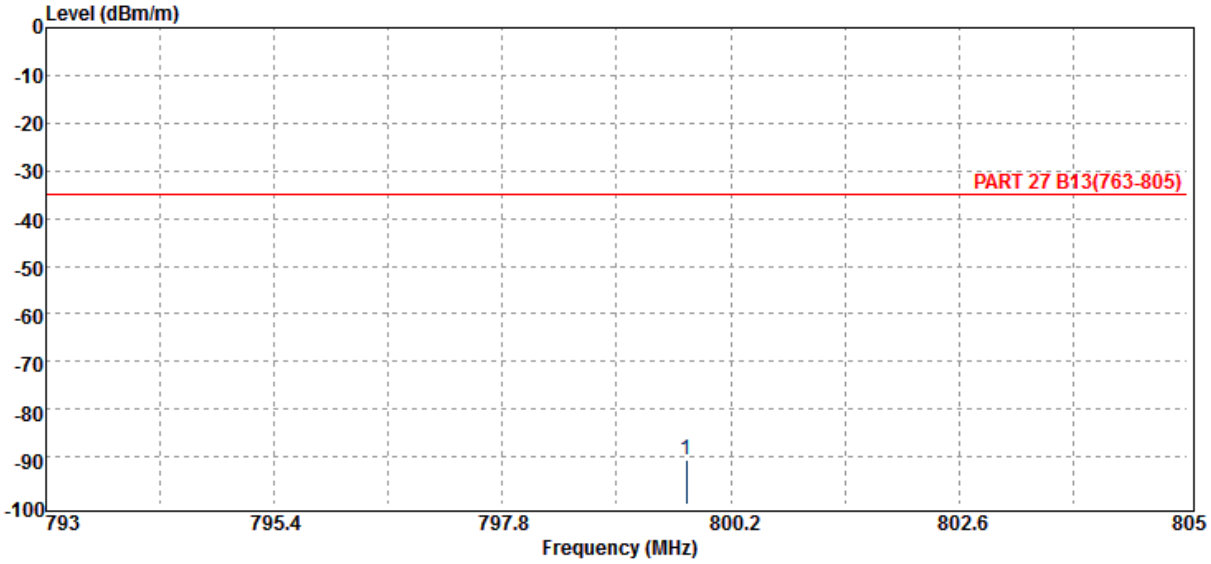
ARFCN	:CH 23205 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
798.47	S	-91.08	-91.68	3.44	-2.85	-35.00	-56.08

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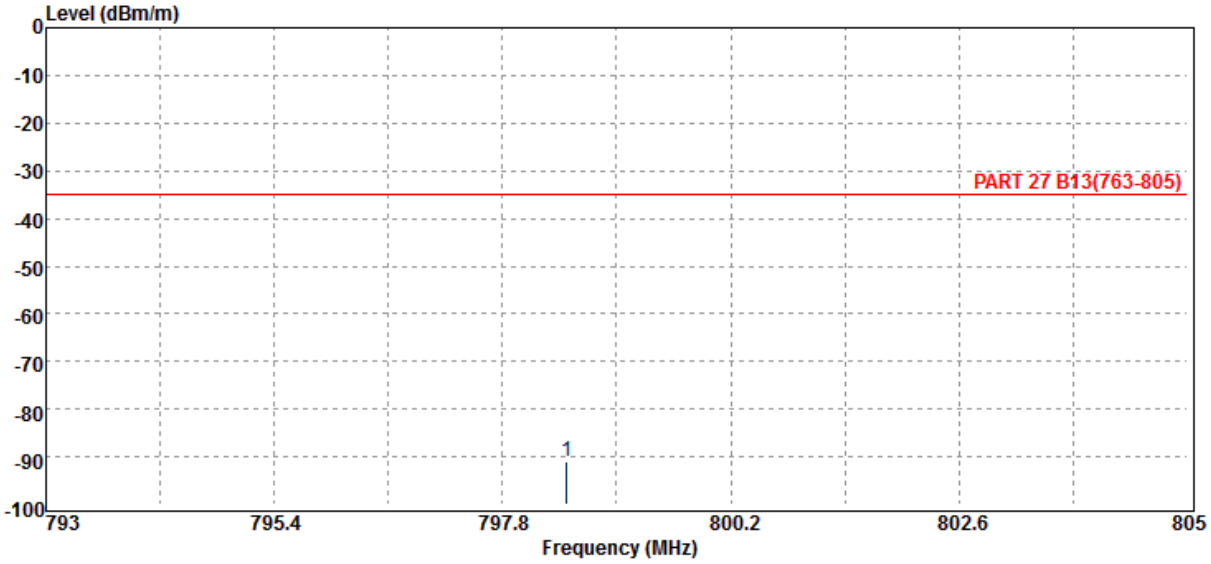
ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
799.73	S	-90.56	-91.15	3.44	-2.85	-35.00	-55.56

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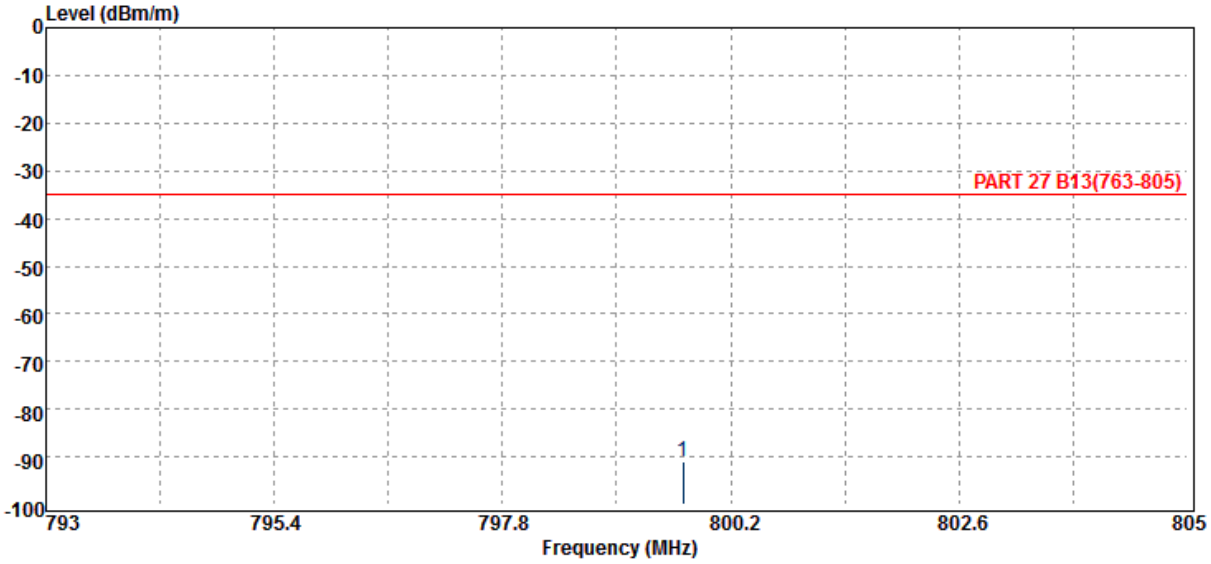
ARFCN	:CH 23230 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
798.47	S	-91.08	-91.68	3.44	-2.85	-35.00	-56.08

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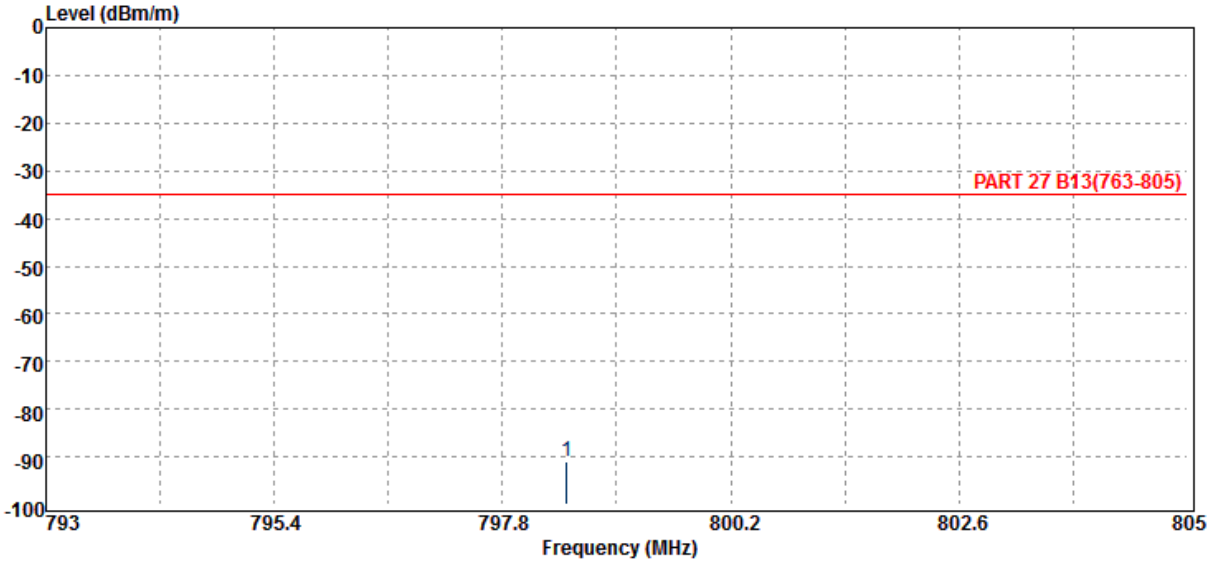
ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
799.70	S	-91.16	-91.75	3.44	-2.85	-35.00	-56.16

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ARFCN	:CH 23255 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 51 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

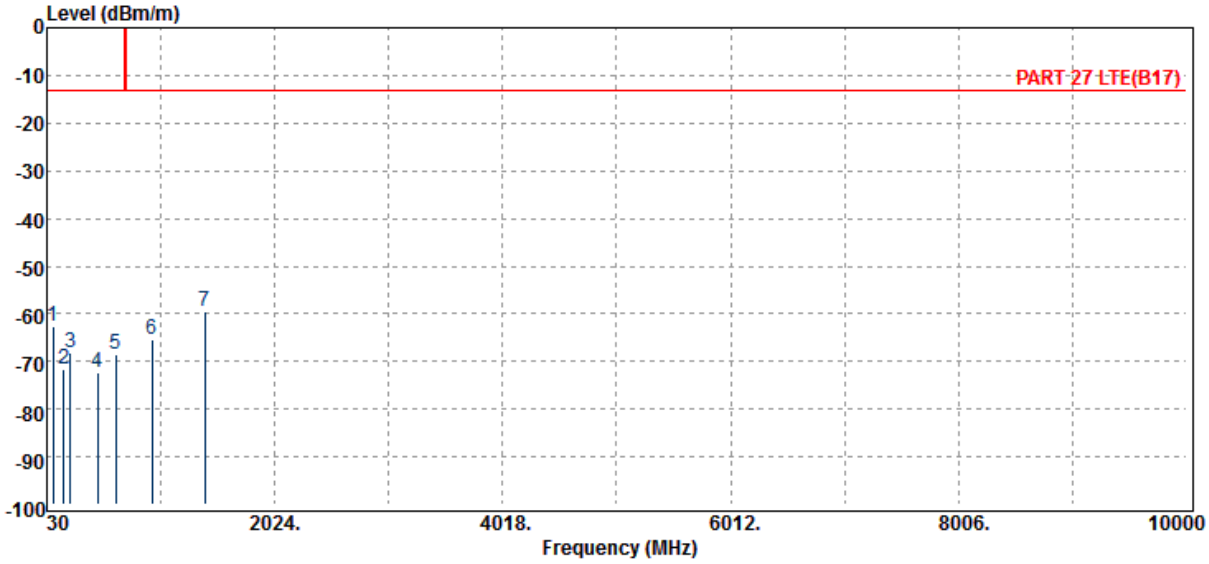


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
798.47	S	-91.08	-91.68	3.44	-2.85	-35.00	-56.08

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

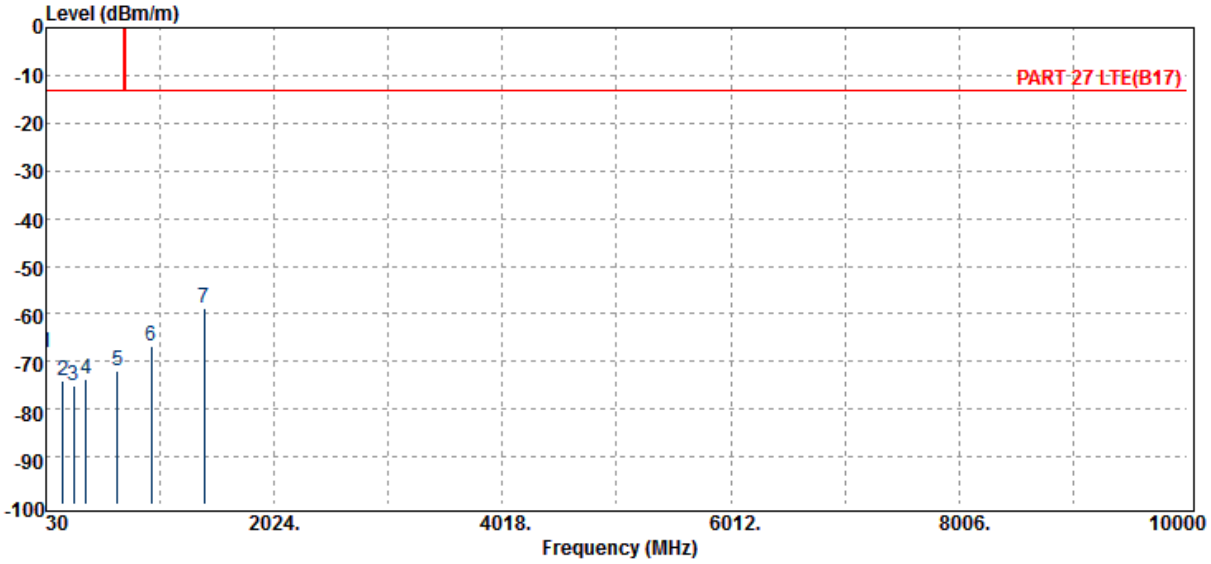
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-62.76	-59.29	-2.41	-1.06	-13.00	-49.76
181.32	S	-71.70	-71.41	1.21	-1.50	-13.00	-58.70
237.58	S	-68.32	-70.01	3.29	-1.60	-13.00	-55.32
477.17	S	-72.38	-73.79	3.58	-2.17	-13.00	-59.38
633.34	S	-68.50	-69.39	3.57	-2.69	-13.00	-55.50
951.50	S	-65.46	-65.39	3.13	-3.20	-13.00	-52.46
1413.00	H	-59.68	-58.58	2.85	-3.94	-13.00	-46.68

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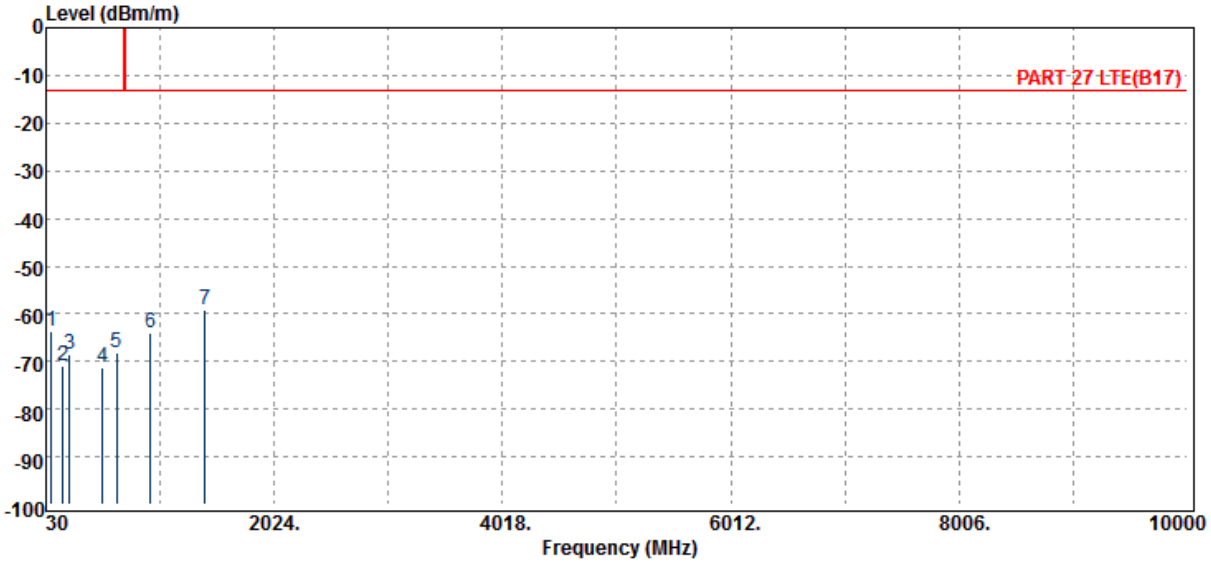
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-68.07	-52.71	-14.62	-0.74	-13.00	-55.07
179.38	S	-74.11	-73.49	0.88	-1.50	-13.00	-61.11
271.53	S	-75.13	-77.00	3.56	-1.70	-13.00	-62.13
378.23	S	-73.61	-75.34	3.68	-1.95	-13.00	-60.61
650.80	S	-71.89	-72.86	3.63	-2.66	-13.00	-58.89
951.50	S	-66.70	-66.63	3.13	-3.20	-13.00	-53.70
1413.00	H	-58.96	-57.86	2.85	-3.94	-13.00	-45.96

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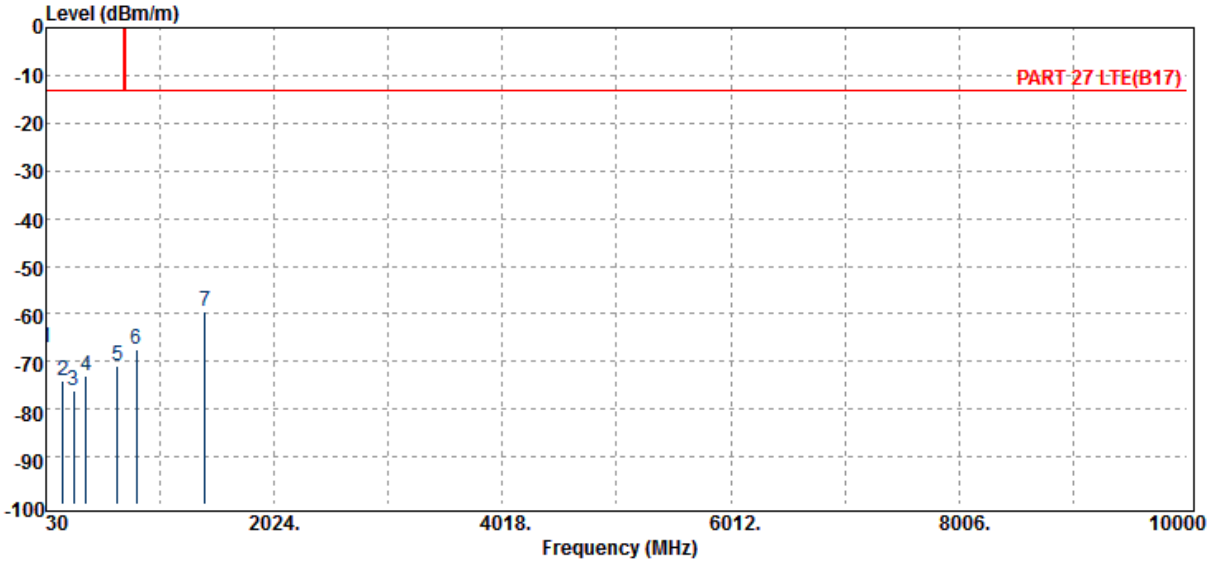
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
79.47	S	-63.58	-59.62	-2.91	-1.05	-13.00	-50.58
180.35	S	-70.96	-70.50	1.05	-1.50	-13.00	-57.96
234.67	S	-68.67	-70.38	3.30	-1.59	-13.00	-55.67
526.64	S	-71.28	-72.49	3.67	-2.45	-13.00	-58.28
645.95	S	-68.20	-69.16	3.62	-2.66	-13.00	-55.20
941.80	S	-64.17	-64.22	3.24	-3.19	-13.00	-51.17
1420.00	H	-59.30	-58.24	2.89	-3.96	-13.00	-46.30

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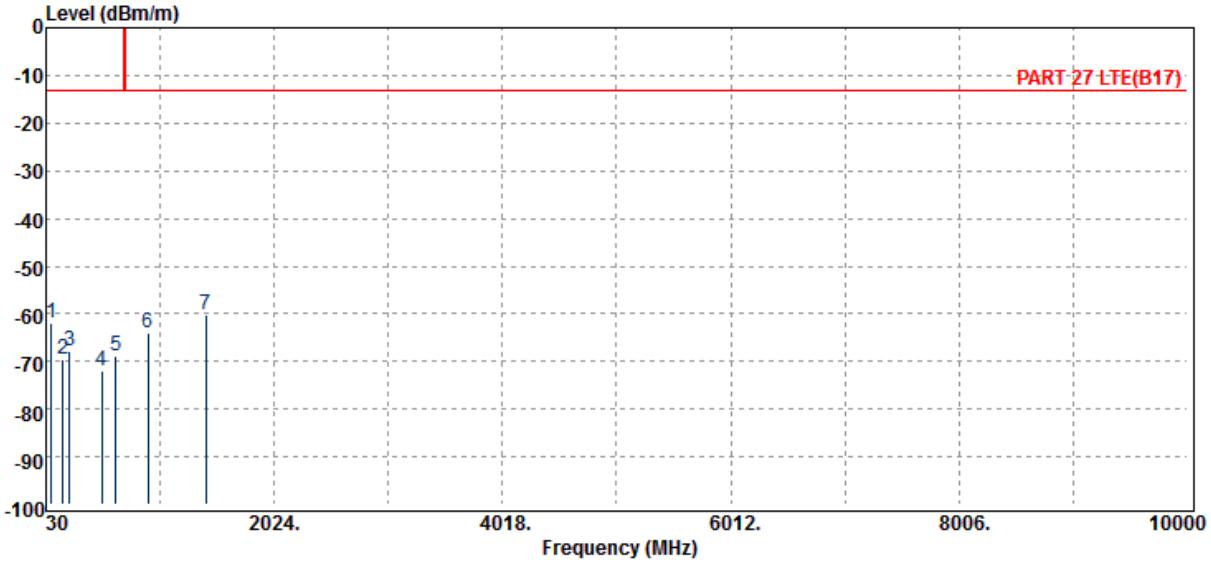
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-67.16	-52.03	-14.37	-0.75	-13.00	-54.16
179.38	S	-73.90	-73.28	0.88	-1.50	-13.00	-60.90
273.47	S	-76.25	-78.05	3.51	-1.70	-13.00	-63.25
378.23	S	-72.99	-74.72	3.68	-1.95	-13.00	-59.99
652.74	S	-70.86	-71.83	3.62	-2.65	-13.00	-57.86
821.52	S	-67.34	-67.86	3.45	-2.93	-13.00	-54.34
1420.00	H	-59.42	-58.35	2.89	-3.96	-13.00	-46.42

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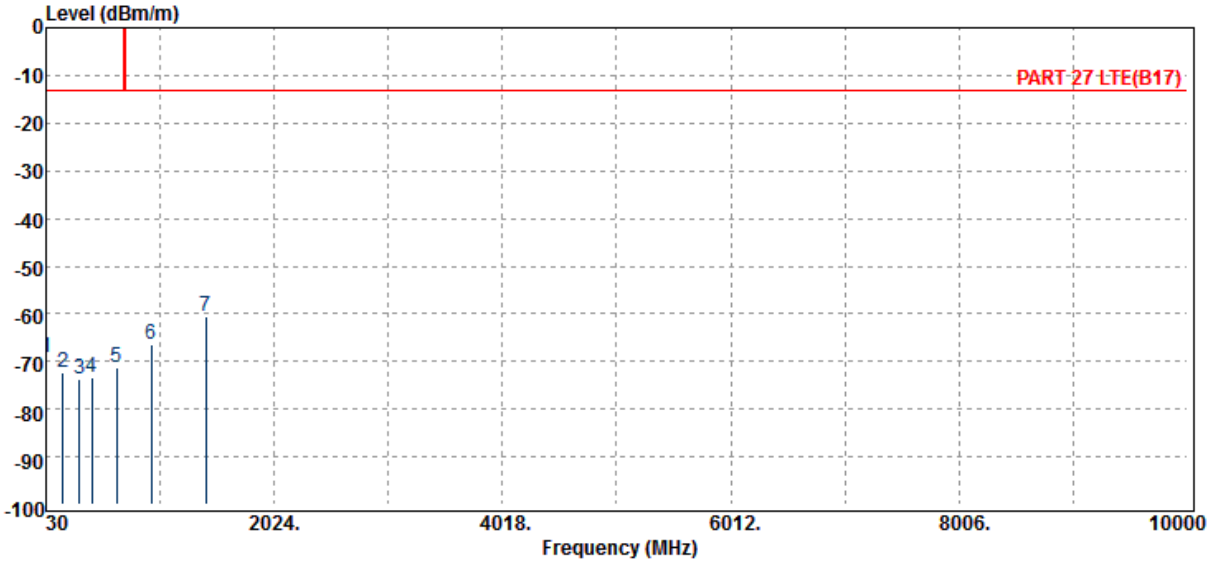
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
80.44	S	-61.92	-58.21	-2.65	-1.05	-13.00	-48.92
180.35	S	-69.69	-69.23	1.05	-1.50	-13.00	-56.69
235.64	S	-67.86	-69.57	3.30	-1.59	-13.00	-54.86
515.97	S	-71.83	-73.14	3.70	-2.39	-13.00	-58.83
641.10	S	-68.75	-69.68	3.60	-2.67	-13.00	-55.75
920.46	S	-63.99	-64.09	3.25	-3.16	-13.00	-50.99
1427.00	H	-60.09	-59.06	2.93	-3.97	-13.00	-47.09

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ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-04-18
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

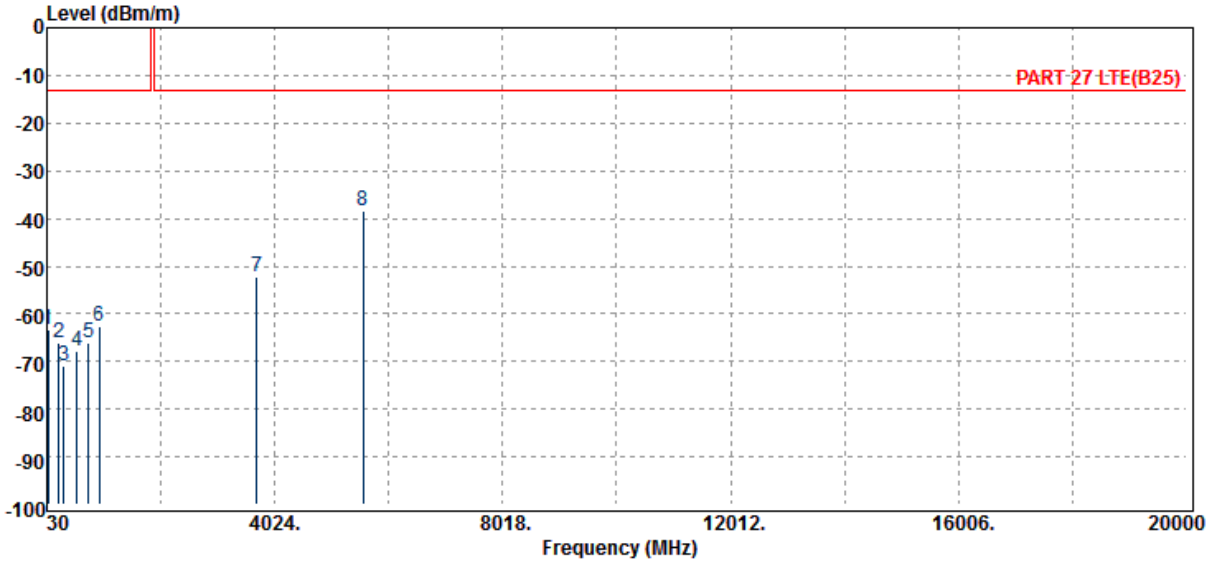


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-69.21	-53.85	-14.62	-0.74	-13.00	-56.21
180.35	S	-72.21	-71.76	1.05	-1.50	-13.00	-59.21
324.88	S	-73.68	-75.49	3.69	-1.88	-13.00	-60.68
433.52	S	-73.27	-74.68	3.43	-2.02	-13.00	-60.27
648.86	S	-71.36	-72.34	3.63	-2.66	-13.00	-58.36
949.56	S	-66.51	-66.54	3.23	-3.20	-13.00	-53.51
1427.00	H	-60.58	-59.55	2.93	-3.97	-13.00	-47.58

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 25 (The Worst Case)

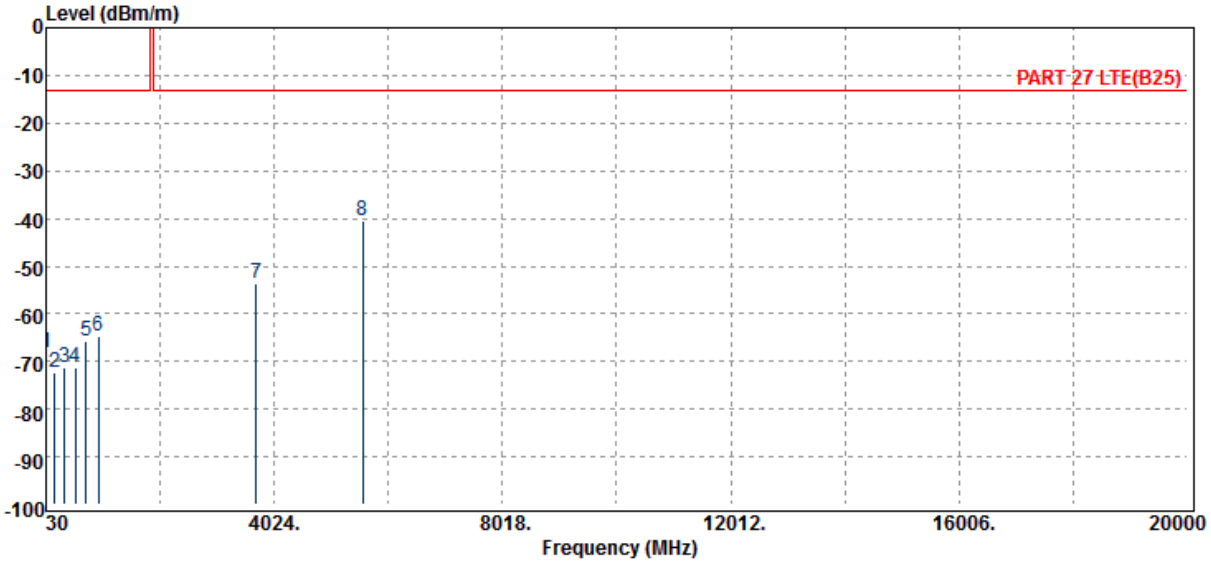
ARFCN	:CH 26090 16QAM BW 10 RB1 0	Test Date	:2015-04-18
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1855.0 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
51.34	S	-63.16	-53.35	-8.90	-0.92	-13.00	-50.16
235.64	S	-66.22	-70.07	5.45	-1.59	-13.00	-53.22
323.91	S	-71.06	-75.02	5.84	-1.88	-13.00	-58.06
554.77	S	-67.98	-71.11	5.72	-2.60	-13.00	-54.98
754.59	S	-66.03	-68.77	5.45	-2.71	-13.00	-53.03
947.62	S	-62.48	-64.67	5.39	-3.20	-13.00	-49.48
3710.00	H	-52.25	-53.78	8.43	-6.90	-13.00	-39.25
5565.00	H	-38.26	-39.84	10.11	-8.53	-13.00	-25.26

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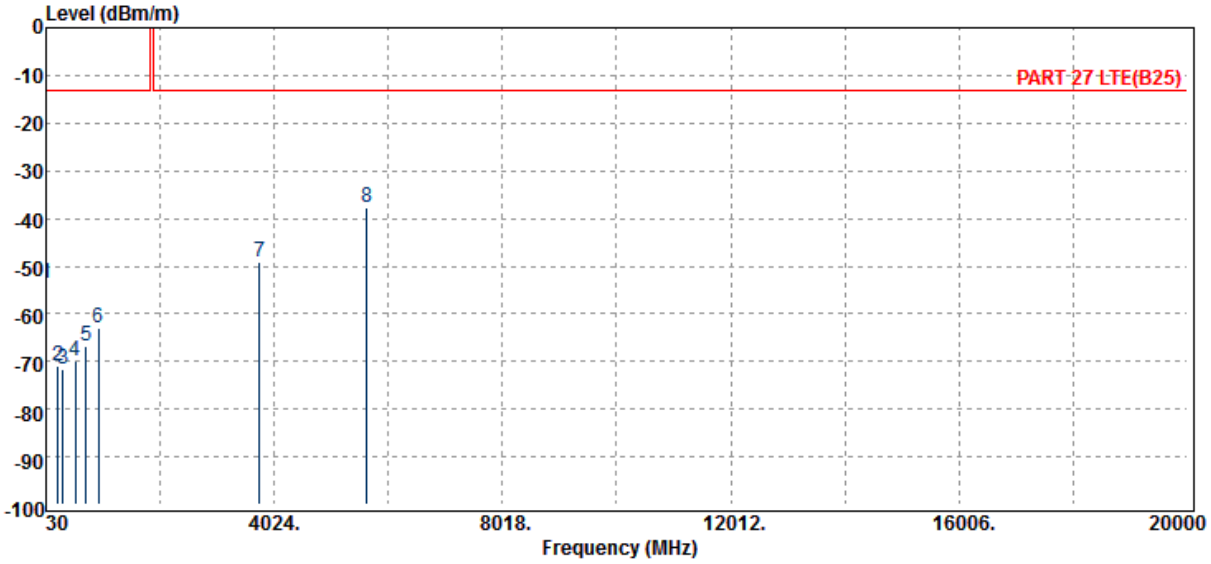
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-68.22	-55.01	-12.47	-0.74	-13.00	-55.22
180.35	S	-72.34	-74.04	3.20	-1.50	-13.00	-59.34
360.77	S	-71.37	-75.29	5.88	-1.96	-13.00	-58.37
547.98	S	-71.44	-74.62	5.74	-2.56	-13.00	-58.44
733.25	S	-65.82	-68.62	5.46	-2.66	-13.00	-52.82
953.44	S	-64.68	-66.63	5.15	-3.21	-13.00	-51.68
3710.00	H	-53.55	-55.09	8.43	-6.90	-13.00	-40.55
5565.00	H	-40.38	-41.96	10.11	-8.53	-13.00	-27.38

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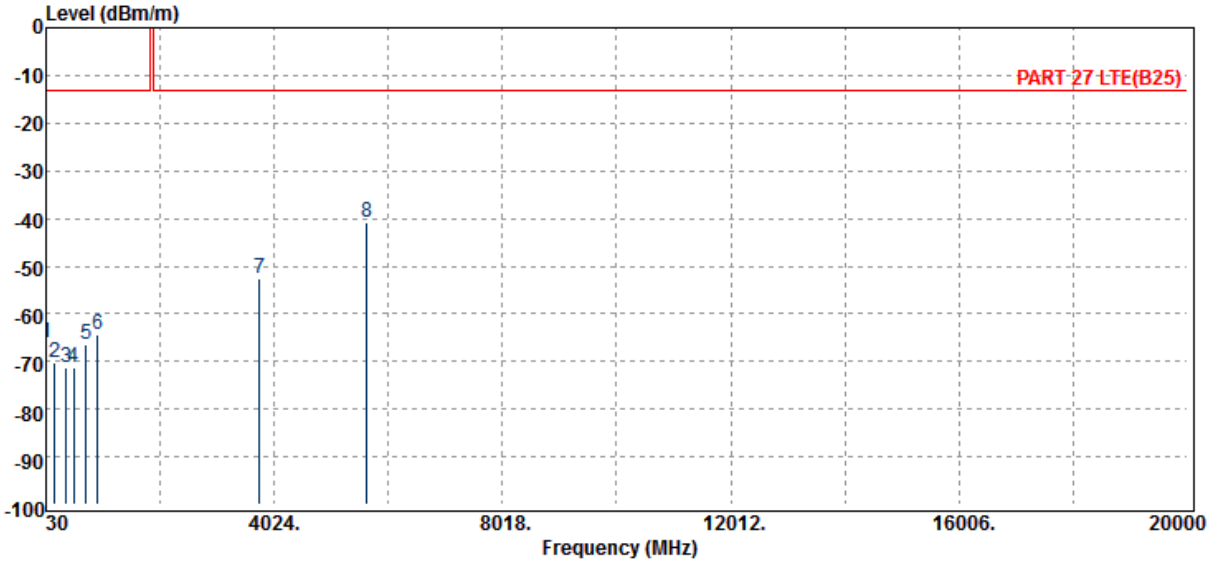
ARFCN	:CH 26365 16QAM BW 10 RB1 0	Test Date	:2015-04-18
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-53.68	-40.94	-11.98	-0.76	-13.00	-40.68
241.46	S	-70.80	-74.65	5.46	-1.61	-13.00	-57.80
323.91	S	-71.77	-75.73	5.84	-1.88	-13.00	-58.77
539.25	S	-69.99	-73.25	5.77	-2.52	-13.00	-56.99
726.46	S	-66.93	-69.76	5.48	-2.64	-13.00	-53.93
941.80	S	-62.83	-65.03	5.39	-3.19	-13.00	-49.83
3765.00	H	-49.26	-50.69	8.46	-7.03	-13.00	-36.26
5647.50	H	-37.62	-39.14	10.11	-8.59	-13.00	-24.62

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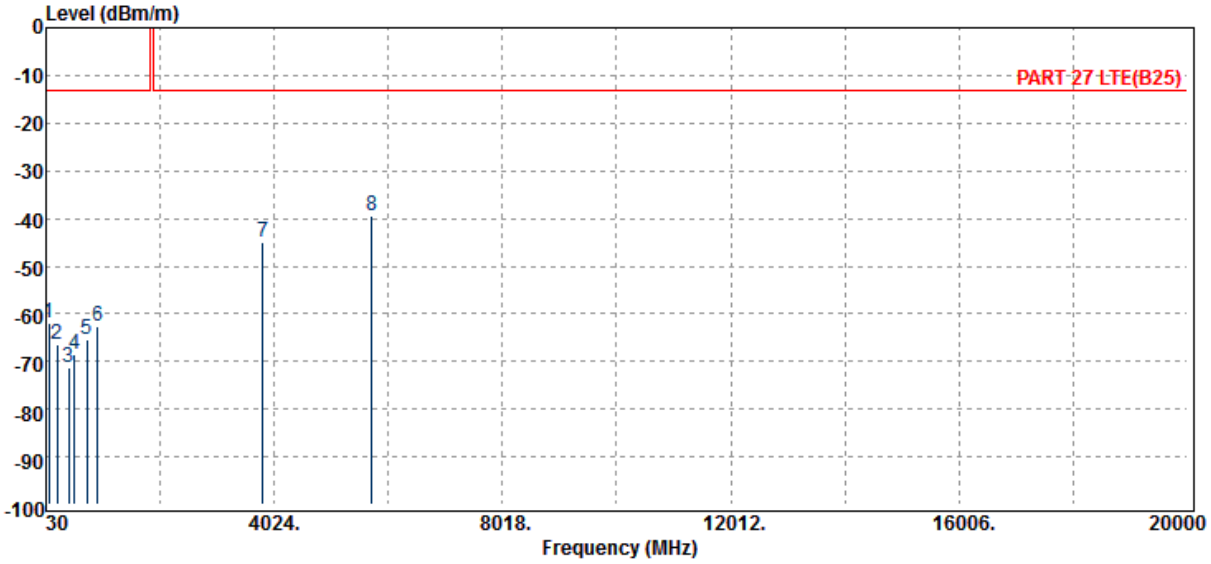
ARFCN	:CH 26365 16QAM BW 10 RB1 0	Test Date	:2015-04-18
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-66.06	-52.84	-12.47	-0.74	-13.00	-53.06
180.35	S	-70.12	-71.82	3.20	-1.50	-13.00	-57.12
378.23	S	-71.35	-75.23	5.83	-1.95	-13.00	-58.35
509.18	S	-71.21	-74.73	5.88	-2.35	-13.00	-58.21
737.13	S	-66.47	-69.26	5.46	-2.67	-13.00	-53.47
927.25	S	-64.32	-66.54	5.40	-3.17	-13.00	-51.32
3765.00	H	-52.53	-53.96	8.46	-7.03	-13.00	-39.53
5647.50	H	-40.91	-42.43	10.11	-8.59	-13.00	-27.91

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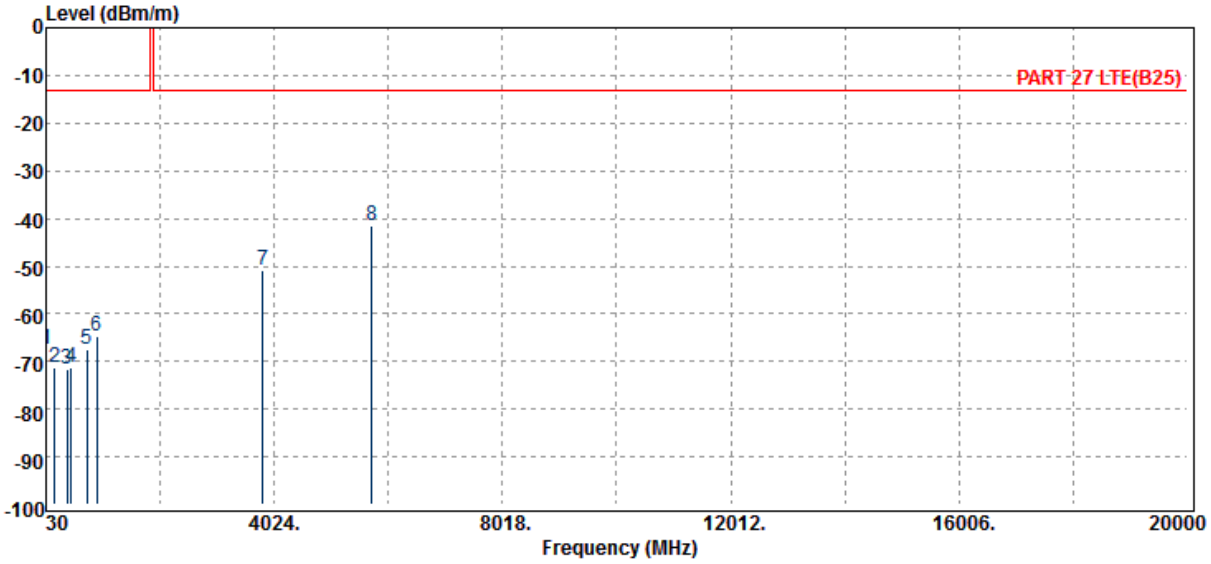
ARFCN	:CH 26640 16QAM BW 10 RB1 0	Test Date	:2015-04-18
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1910.0 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-61.80	-60.48	-0.26	-1.06	-13.00	-48.80
231.76	S	-66.29	-70.17	5.46	-1.58	-13.00	-53.29
426.73	S	-71.14	-74.76	5.62	-1.99	-13.00	-58.14
527.61	S	-68.35	-71.71	5.81	-2.46	-13.00	-55.35
751.68	S	-65.46	-68.20	5.44	-2.70	-13.00	-52.46
936.95	S	-62.61	-64.81	5.39	-3.18	-13.00	-49.61
3820.00	H	-45.00	-46.45	8.50	-7.05	-13.00	-32.00
5730.00	H	-39.35	-40.83	10.12	-8.64	-13.00	-26.35

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ARFCN	:CH 26640 16QAM BW 10 RB1 0	Test Date	:2015-04-18
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1910.0 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-67.43	-54.45	-12.22	-0.75	-13.00	-54.43
180.35	S	-71.27	-72.96	3.20	-1.50	-13.00	-58.27
393.75	S	-71.59	-75.43	5.79	-1.95	-13.00	-58.59
476.20	S	-71.21	-74.76	5.72	-2.16	-13.00	-58.21
742.95	S	-67.42	-70.19	5.45	-2.68	-13.00	-54.42
921.43	S	-64.62	-66.86	5.40	-3.16	-13.00	-51.62
3820.00	H	-50.82	-52.27	8.50	-7.05	-13.00	-37.82
5730.00	H	-41.38	-42.86	10.12	-8.64	-13.00	-28.38

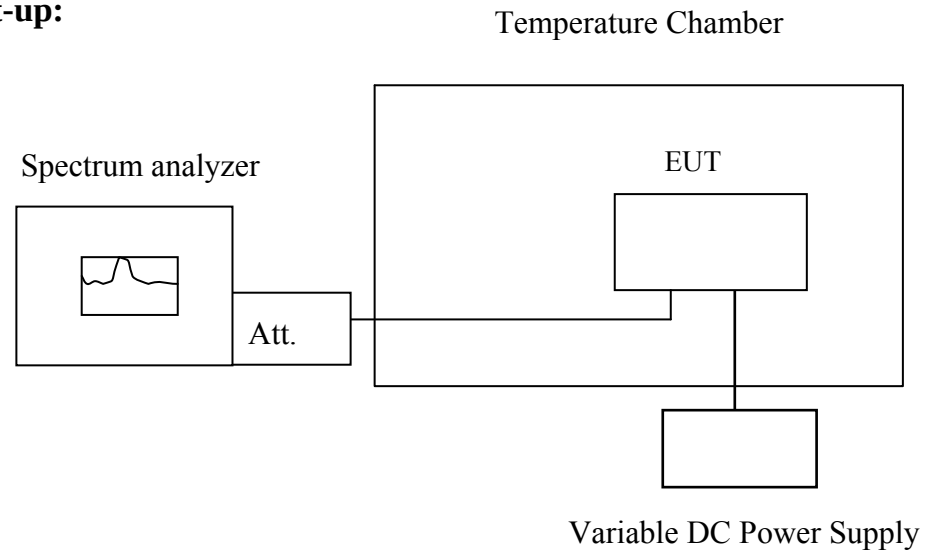
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
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
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
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

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.1	25	836599997	-1	2091
7.4	25	836599998	0	2091
6.9	25	836600002	4	2091
6.0 (End point)	25	836600002	4	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	50	836599990	-8	2091
7.4	40	836599992	-6	2091
7.4	30	836600020	22	2091
7.4	20	836599998	0	2091
7.4	10	836600000	2	2091
7.4	0	836600001	3	2091
7.4	-10	836600006	8	2091
7.4	-20	836600007	9	2091
7.4	-30	836600009	11	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.1	25	1879999998	-1	4700
7.4	25	1879999999	0	4700
6.9	25	1880000007	8	4700
6.0 (End point)	25	1880000007	8	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	50	1879999991	-8	4700
7.4	40	1879999995	-4	4700
7.4	30	1879999999	0	4700
7.4	20	1879999999	0	4700
7.4	10	1879999997	-2	4700
7.4	0	1880000008	9	4700
7.4	-10	1880000011	12	4700
7.4	-20	1880000016	17	4700
7.4	-30	1880000019	20	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.1	25	1880000004	2	4700
7.4	25	1880000002	0	4700
6.9	25	1880000001	-1	4700
6.0 (End point)	25	1880000001	-1	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	50	1879999988	-14	4700
7.4	40	1879999993	-9	4700
7.4	30	1879999999	-3	4700
7.4	20	1880000002	0	4700
7.4	10	1880000008	6	4700
7.4	0	1880000013	11	4700
7.4	-10	1880000015	13	4700
7.4	-20	1880000013	11	4700
7.4	-30	1880000016	14	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.1	25	173259996	-1	4331
7.4	25	173259997	0	4331
6.9	25	173259999	2	4331
6.0 (End point)	25	173259999	2	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	50	173259989	-8	4331
7.4	40	173259991	-6	4331
7.4	30	173259995	-2	4331
7.4	20	173259997	0	4331
7.4	10	173259994	-3	4331
7.4	0	173260002	5	4331
7.4	-10	173260003	6	4331
7.4	-20	173260009	12	4331
7.4	-30	173260010	13	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.1	25	836600000	-4	2091
7.4	25	836600004	0	2091
6.9	25	836600008	4	2091
6.0 (End point)	25	836600007	3	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	50	836599990	-14	2091
7.4	40	836599993	-11	2091
7.4	30	836599998	-6	2091
7.4	20	836600004	0	2091
7.4	10	836599994	-10	2091
7.4	0	836600011	7	2091
7.4	-10	836600015	11	2091
7.4	-20	836600016	12	2091
7.4	-30	836600018	14	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.10	25.00	836.520000	-53.00	2091.00
7.40	25.00	836.519947	0.00	2091.00
6.90	25.00	836.519966	-19.00	2091.00
6.0 (End point)	25.00	836.519914	33.00	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	-30	836.519985	-44.00	2091
7.4	-20	836.519978	-37.00	2091
7.4	-10	836.519965	-24.00	2091
7.4	0	836.519953	-12.00	2091
7.4	10	836.519944	-3.00	2091
7.4	20	836.519941	0.00	2091
7.4	30	836.519922	19.00	2091
7.4	40	836.519915	26.00	2091
7.4	50	836.519986	-45.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.10	25	1880.000014	8.00	4700
7.40	25	1880.000022	0.00	4700
6.90	25	1880.000054	-32.00	4700
6.0 (End point)	25	1880.000047	-25.00	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	-30	1879.999925	-8.00	4700
7.4	-20	1880.000005	-88.00	4700
7.4	-10	1879.999925	-8.00	4700
7.4	0	1879.999981	-64.00	4700
7.4	10	1879.999966	-49.00	4700
7.4	20	1879.999917	0.00	4700
7.4	30	1879.999926	-9.00	4700
7.4	40	1880.000041	-124.00	4700
7.4	50	1879.999925	-8.00	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
8.10	25.00	820.500009	-8.00	2091.00
7.40	25.00	820.500001	0.00	2091.00
6.90	25.00	820.499925	76.00	2091.00
6.0 (End point)	25.00	820.499966	35.00	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
7.4	-30	820.500014	-89.00	2091
7.4	-20	820.499914	11.00	2091
7.4	-10	820.499998	-73.00	2091
7.4	0	820.499914	11.00	2091
7.4	10	820.500021	-96.00	2091
7.4	20	820.499925	0.00	2091
7.4	30	820.500033	-108.00	2091
7.4	40	820.500041	-116.00	2091
7.4	50	820.499962	-37.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.10	25	1879.999860	-54.00	4700
7.4	25	1879.999914	0.00	4700
6.90	25	1879.999789	-125.00	4700
6.0 (End Point)	25	1879.999984	70.00	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	-30	1879.999888	-68.00	4700
7.4	-20	1879.999979	23.00	4700
7.4	-10	1879.999860	-96.00	4700
7.4	0	1879.999790	-166.00	4700
7.4	10	1880.000015	59.00	4700
7.4	20	1879.999956	0.00	4700
7.4	30	1879.999985	29.00	4700
7.4	40	1879.999780	-176.00	4700
7.4	50	1879.999914	-42.00	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.10	25	1732.499911	26.00	4331
7.4	25	1732.499885	0.00	4331
6.90	25	1732.499979	94.00	4331
6.0 (End Point)	25	1732.499983	98.00	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	-30	1732.499850	-123.00	4331
7.4	-20	1732.499967	-6.00	4331
7.4	-10	1732.499982	9.00	4331
7.4	0	1732.499979	6.00	4331
7.4	10	1732.499775	-198.00	4331
7.4	20	1732.499973	0.00	4331
7.4	30	1732.500000	27.00	4331
7.4	40	1732.499954	-19.00	4331
7.4	50	1732.499910	-63.00	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.10	25	836.499904	-75.00	2091
7.4	25	836.499979	0.00	2091
6.90	25	836.499911	-68.00	2091
6.0 (End Point)	25	836.499987	8.00	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	-30	836.499979	22.00	2091
7.4	-20	836.499810	-147.00	2091
7.4	-10	836.499850	-107.00	2091
7.4	0	836.500021	64.00	2091
7.4	10	836.499967	10.00	2091
7.4	20	836.499957	0.00	2091
7.4	30	836.499935	-22.00	2091
7.4	40	836.499912	-45.00	2091
7.4	50	836.499988	31.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.10	25	781.999967	24.00	1955
7.4	25	781.999943	0.00	1955
6.90	25	781.999959	16.00	1955
6.0 (End Point)	25	781.999860	-83.00	1955

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	-30	781.999799	-180.00	1955
7.4	-20	781.999924	-55.00	1955
7.4	-10	781.999955	-24.00	1955
7.4	0	781.999967	-12.00	1955
7.4	10	781.999942	-37.00	1955
7.4	20	781.999979	0.00	1955
7.4	30	781.999993	14.00	1955
7.4	40	781.999923	-56.00	1955
7.4	50	781.999966	-13.00	1955

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B17 Mid Channel	710.0	MHz 10M QPSK CH 23790
Limit: +/- 2.5 ppm			
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.10	25	709.999967	34.00	1775
7.4	25	709.999933	0.00	1775
6.90	25	709.999901	-32.00	1775
6.0 (End Point)	25	709.999880	-53.00	1775

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B17 Mid Channel	710.0	MHz 10M QPSK CH 23790
Limit: +/- 2.5 ppm			
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	-30	709.999779	-212.00	1775
7.4	-20	709.999813	-178.00	1775
7.4	-10	709.999897	-94.00	1775
7.4	0	709.999902	-89.00	1775
7.4	10	709.999978	-13.00	1775
7.4	20	709.999991	0.00	1775
7.4	30	709.999953	-38.00	1775
7.4	40	709.999914	-77.00	1775
7.4	50	709.999923	-68.00	1775

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz 10M QPSK CH 26365	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.10	25	1882.499902	-55.00	4706
7.4	25	1882.499957	0.00	4706
6.90	25	1882.499985	28.00	4706
6.0 (End Point)	25	1882.499991	34.00	4706

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz 10M QPSK CH 26365	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.4	-30	1882.499971	38.00	4706
7.4	-20	1882.499932	-1.00	4706
7.4	-10	1882.499909	-24.00	4706
7.4	0	1882.499891	-42.00	4706
7.4	10	1882.499830	-103.00	4706
7.4	20	1882.499933	0.00	4706
7.4	30	1882.499916	-17.00	4706
7.4	40	1882.499901	-32.00	4706
7.4	50	1882.499991	58.00	4706

Note: The adtpter is rated 7.4V dc.

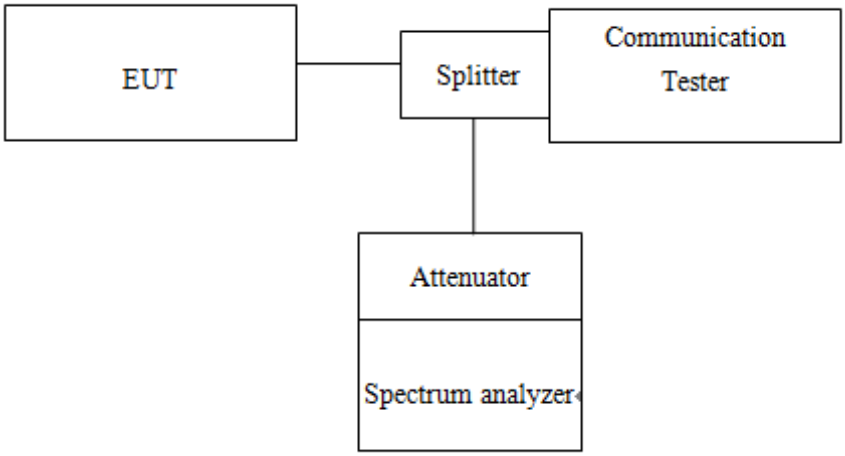
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
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

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
824.20	128	11.47	11.30
836.60	190	12.12	11.28
848.80	251	11.71	11.04

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
1850.20	512	9.57	8.22
1880.00	661	8.60	8.50
1909.80	810	7.47	8.43

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	3.19	3.18	3.15
1880.00	9400	3.15	3.18	3.17
1909.80	9538	3.01	3.03	3.00

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.21	3.24	3.24
1732.6	1413	3.02	3.08	3.06
1752.6	1513	3.22	3.20	3.22

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.20	3.21	3.24
836.60	4183	3.29	3.24	3.22
846.60	4233	3.07	3.09	3.08

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC0	EVDO BC0
1850.20	9262	3.92	3.94
1880.00	9400	3.95	3.92
1909.80	9538	3.30	3.35

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC1	EVDO BC1
826.40	4132	3.61	3.64
836.60	4183	3.68	3.68
846.60	4233	3.23	3.20

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC10	EVDO BC10
817.9	476	3.79	3.84
820.5	580	3.86	3.85
823.1	684	3.95	3.97

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	5.95	13	1851.5	18615	5.86	13
1880.0	18900	6.34	13	1880.0	18900	6.14	13
1909.3	19193	5.28	13	1908.5	19185	5.47	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	6.17	13	1855.0	18650	6.25	13
1880.0	18900	6.39	13	1880.0	18900	6.42	13
1907.5	19175	5.95	13	1905.0	19150	6.24	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.70	13	1860.0	18700	7.08	13
1880.0	18900	6.76	13	1880.0	18900	7.11	13
1902.5	19125	6.76	13	1900.0	19100	7.16	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.11	13	1711.5	19965	5.97	13
1732.5	20175	5.37	13	1732.5	20175	5.31	13
1754.3	20393	5.84	13	1753.5	20385	5.94	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	6.09	13	1715.0	20000	6.22	13
1732.5	20175	5.72	13	1732.5	20175	6.09	13
1752.5	20375	6.21	13	1750.0	20350	6.37	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.71	13	1720.0	20050	7.06	13
1732.5	20175	6.69	13	1732.5	20175	7.13	13
1747.5	20325	6.89	13	1745.0	20300	7.39	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	6.16	13	825.5	20415	6.22	13
836.5	20525	6.25	13	836.5	20525	6.14	13
848.3	20643	5.58	13	847.5	20635	5.66	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	6.32	13	2505.0	20800	6.41	13
836.5	20525	6.35	13	2535.0	21100	6.30	13
846.5	20625	5.97	13	2565.0	21400	6.20	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	6.23	13	23230	782	6.07	13
782.0	23230	6.12	13				
782.0	23255	5.93	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	5.75	13	709	23780	6.09	13
710.0	23790	6.27	13	710	23790	6.24	13
713.5	23825	6.19	13	711	23800	6.32	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	26047	6.14	13	1851.5	26055	6.00	13
1882.5	26365	6.37	13	1882.5	26365	6.19	13
1914.3	26683	4.97	13	1913.5	26675	5.19	13

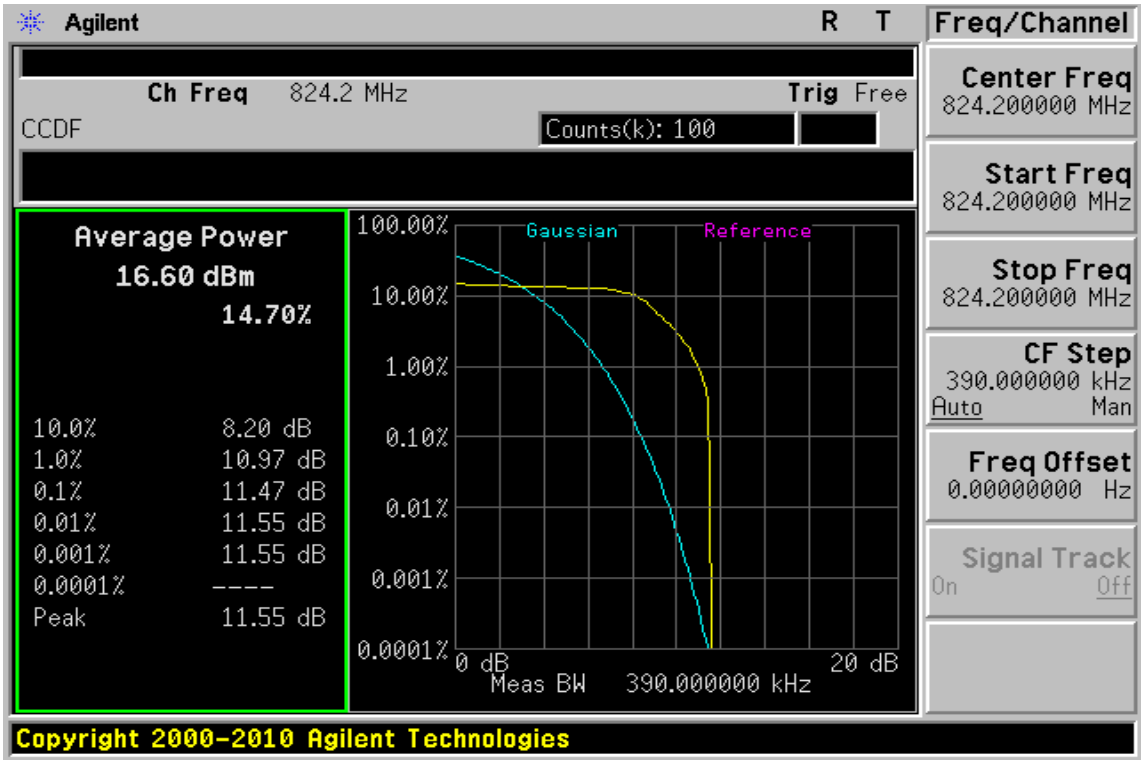
LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	26065	6.33	13	1855.0	26090	6.31	13
1882.5	26365	6.37	13	1882.5	26365	6.42	13
1912.5	26665	5.43	13	1910.0	26640	6.01	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	26115	6.78	13	1860.0	26140	7.10	13
1882.5	26365	6.78	13	1882.5	26365	7.15	13
1907.5	26615	6.76	13	1905.0	26590	7.16	13

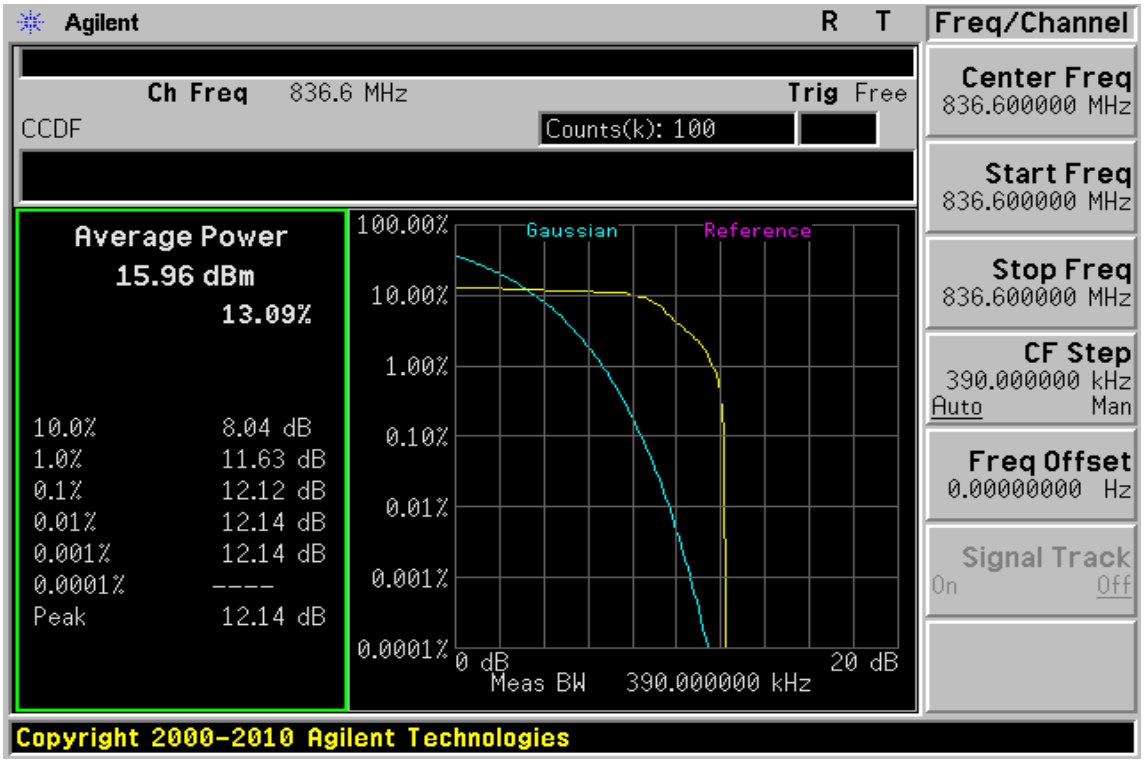
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Measurement Results:

GPRS 850 Channel Low

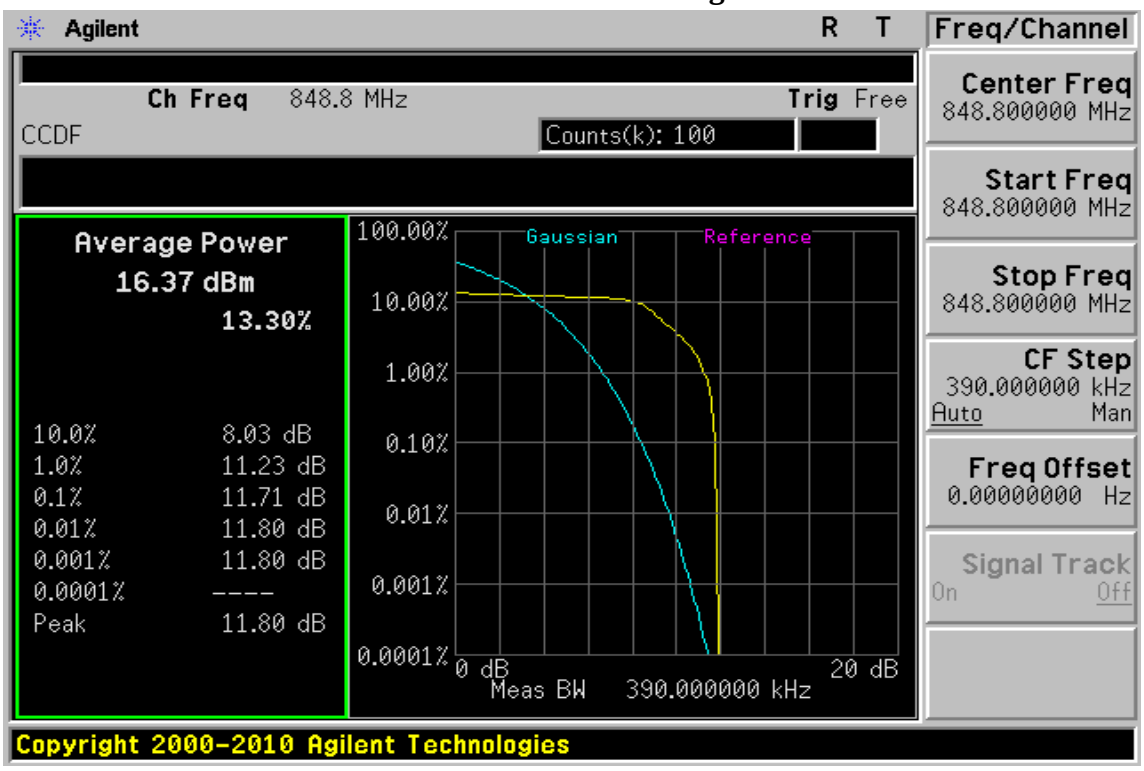


GPRS 850 Channel Mid

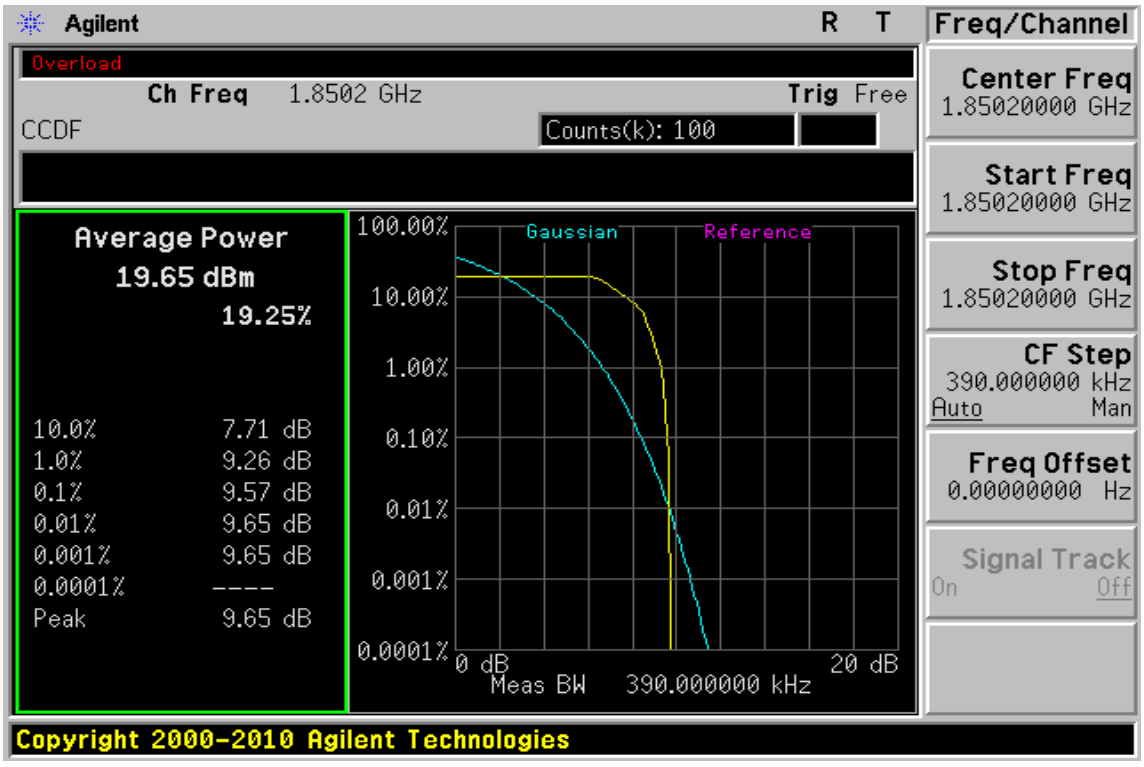


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GPRS 850 Channel High

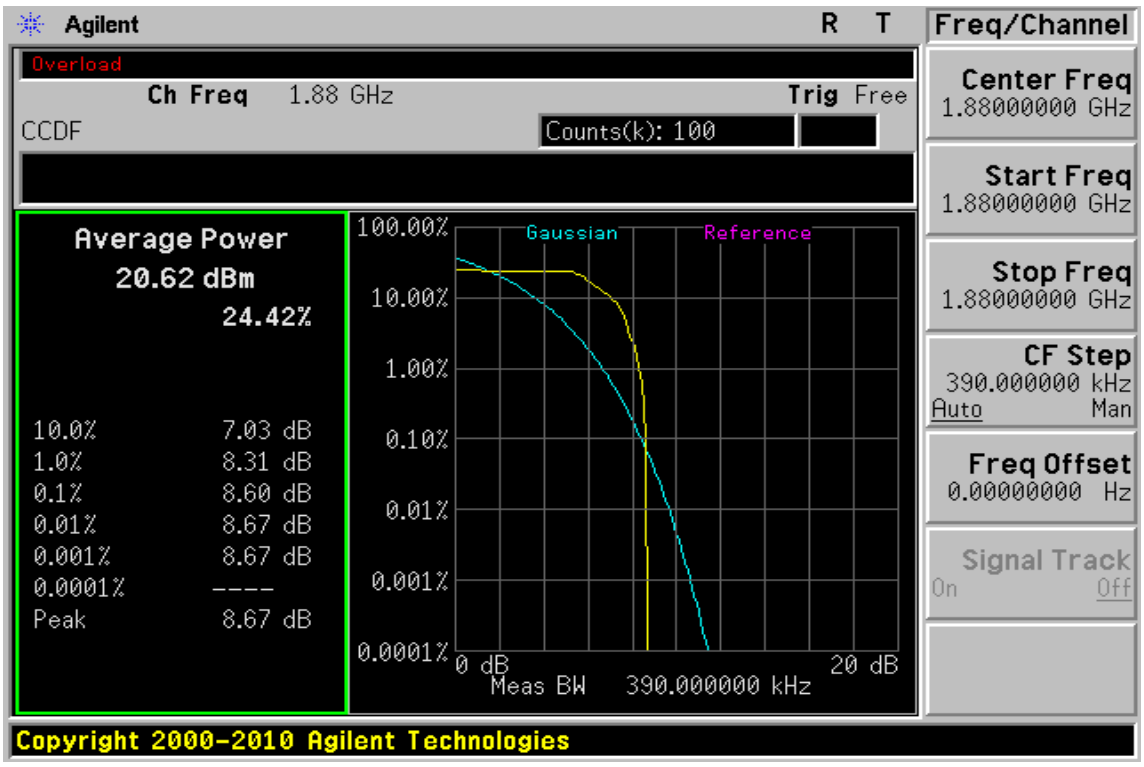


GPRS 1900 Channel Low

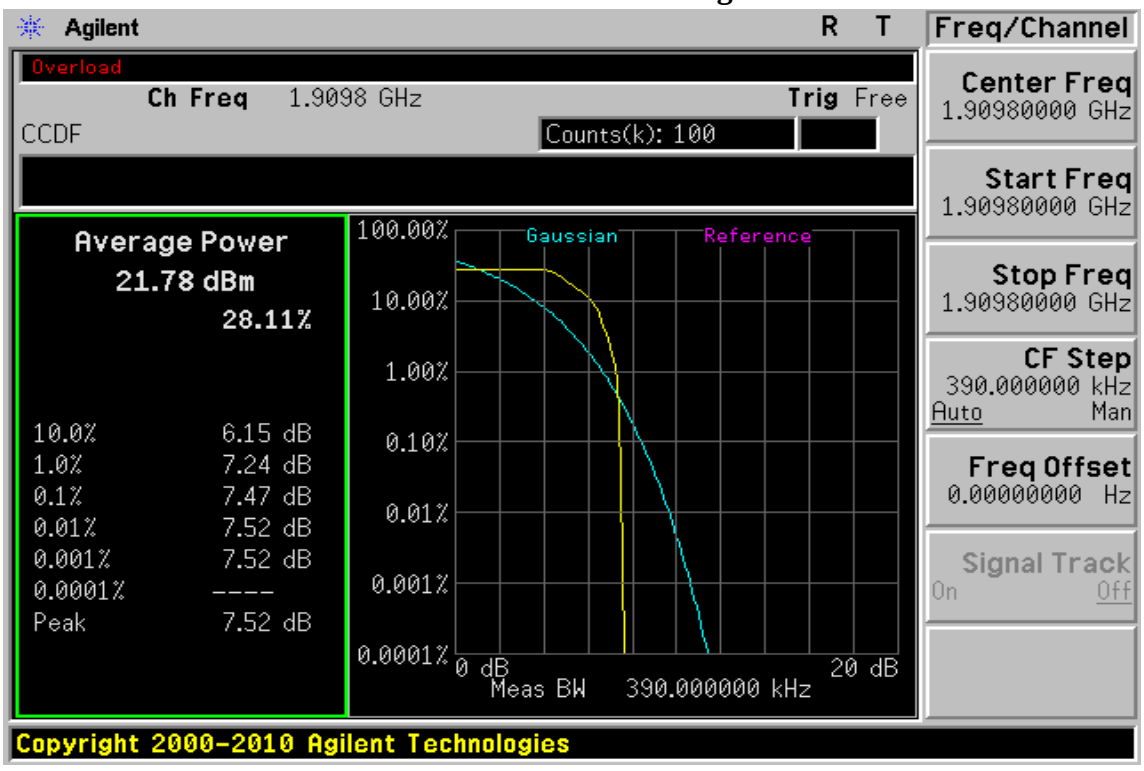


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GPRS 1900 Channel Mid

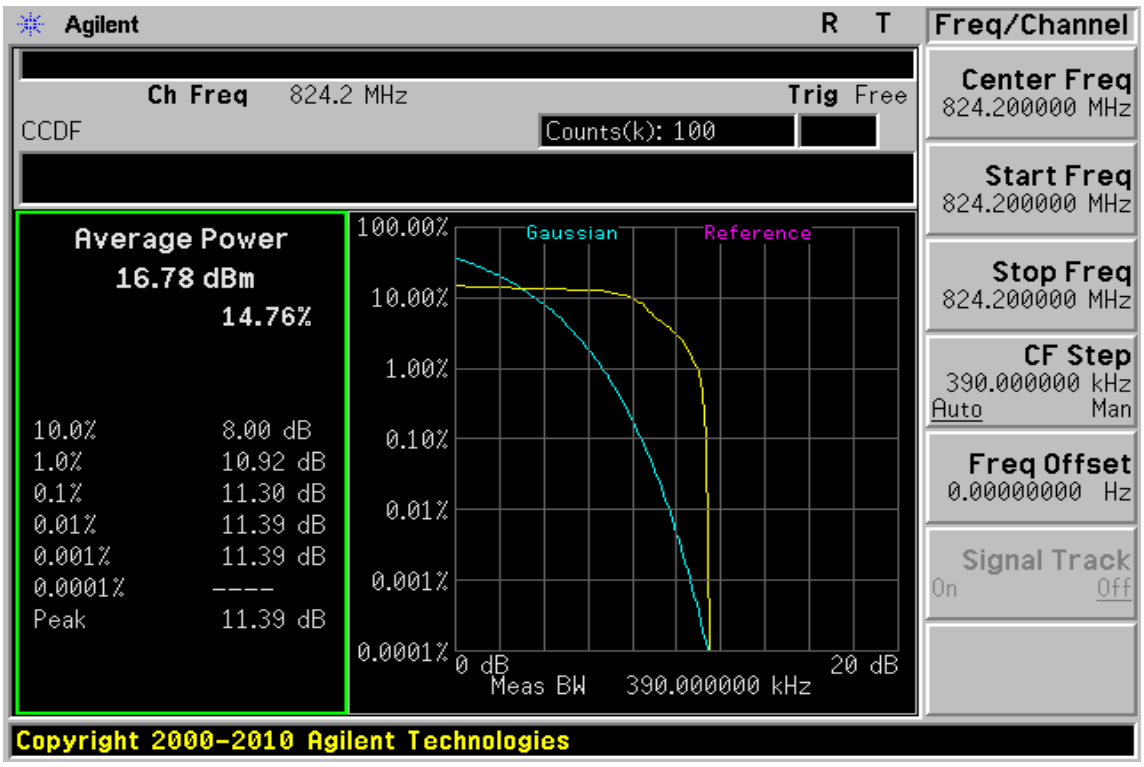


GPRS 1900 Channel High

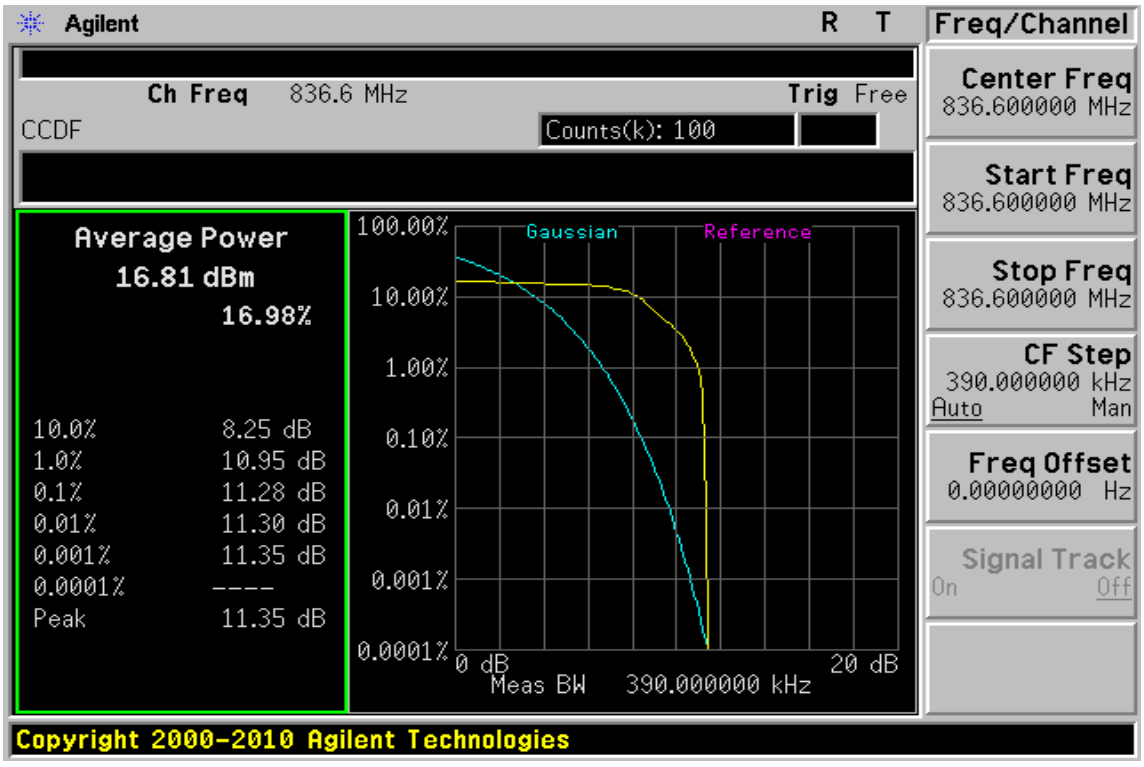


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EDGE 850 Channel Low

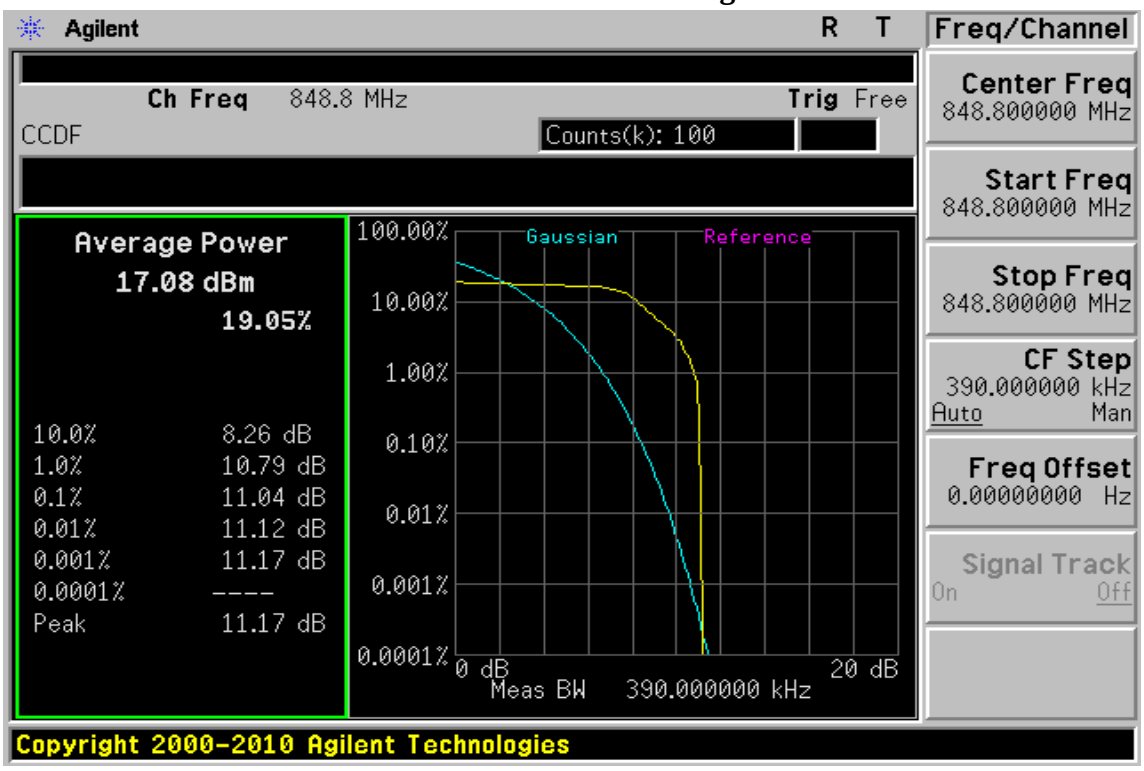


EDGE 850 Channel Mid

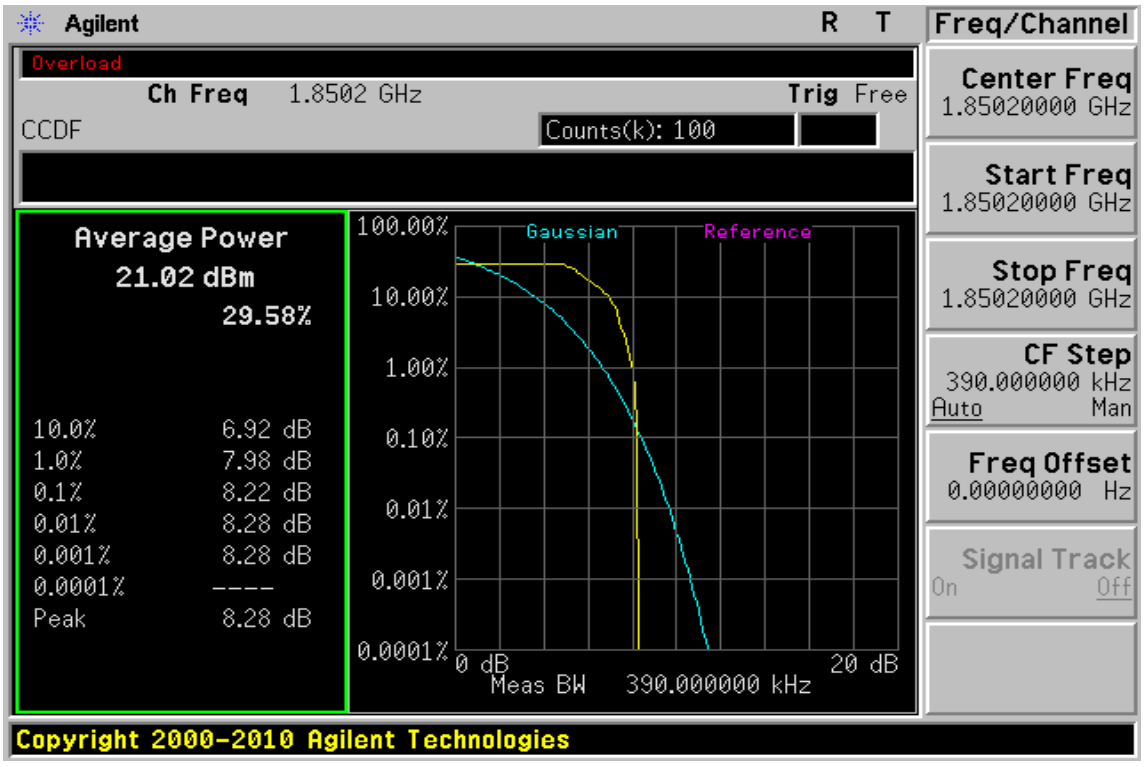


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EDGE 850 Channel High

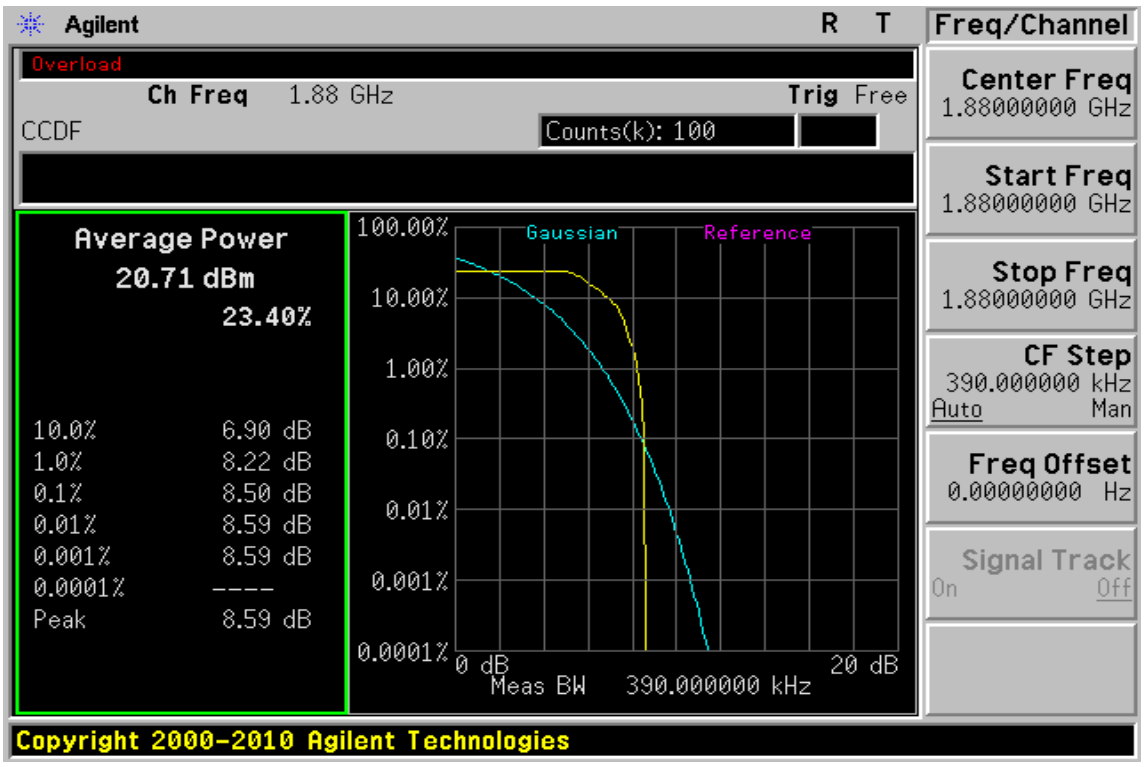


EDGE 1900 Channel Low

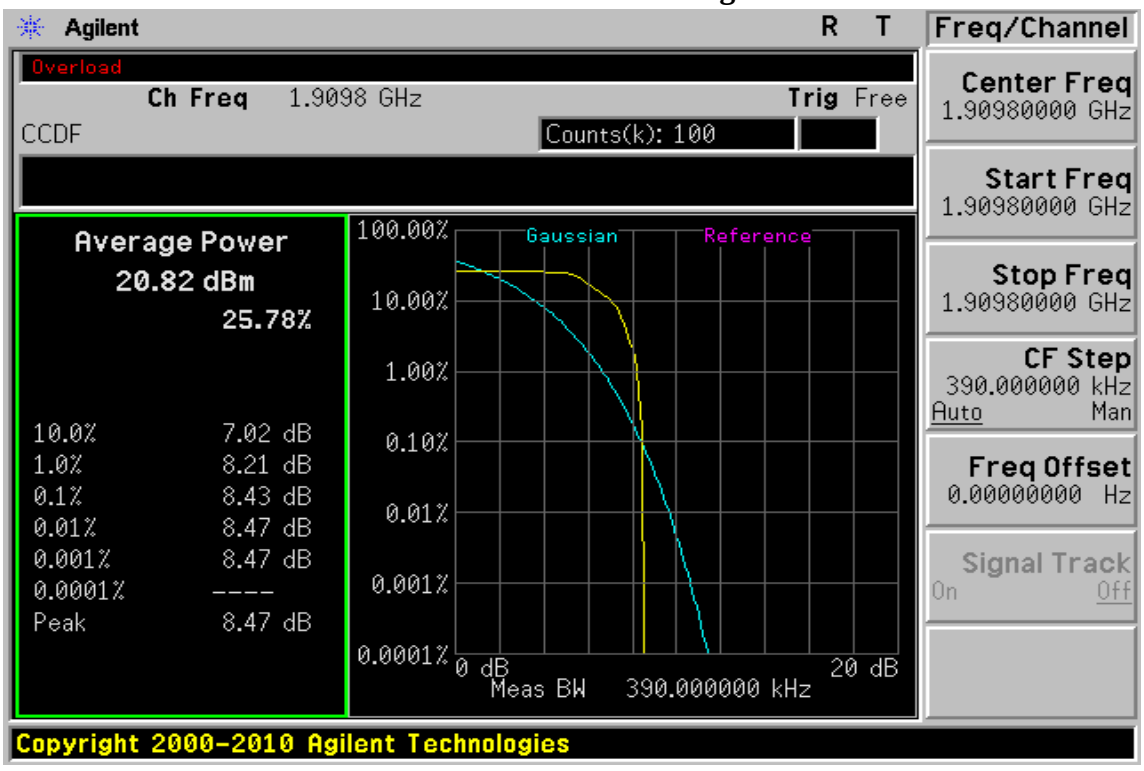


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EDGE 1900 Channel Mid

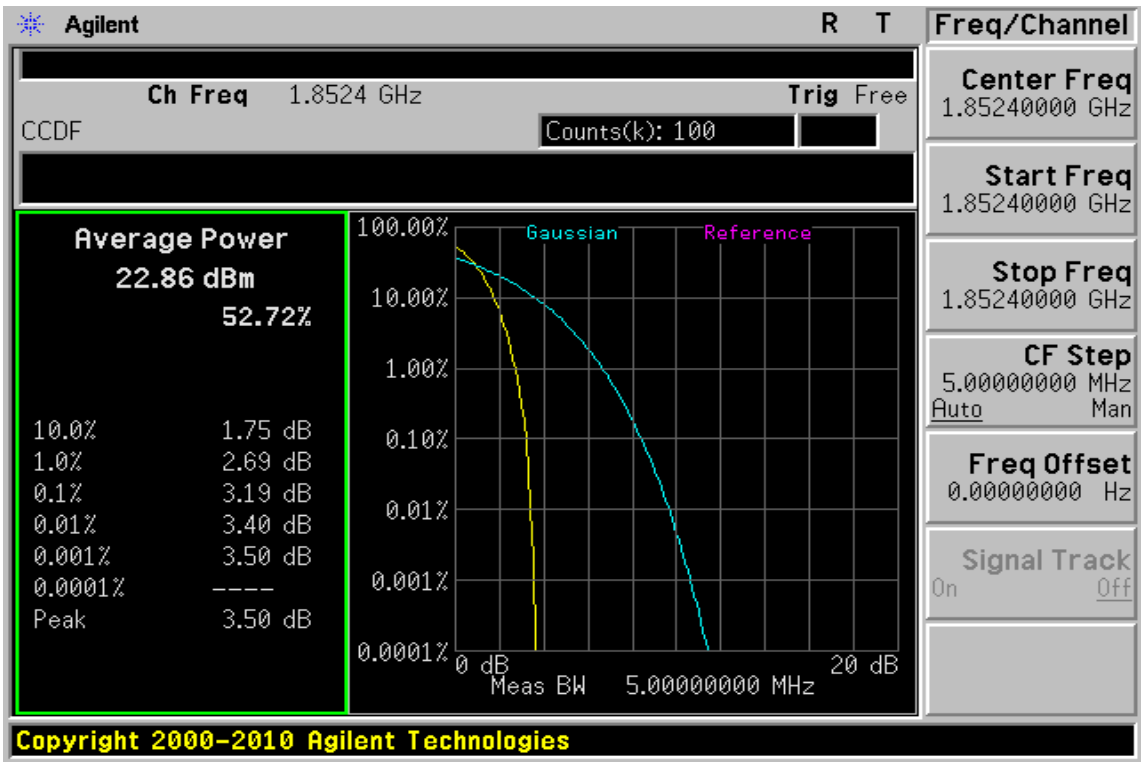


EDGE 1900 Channel High

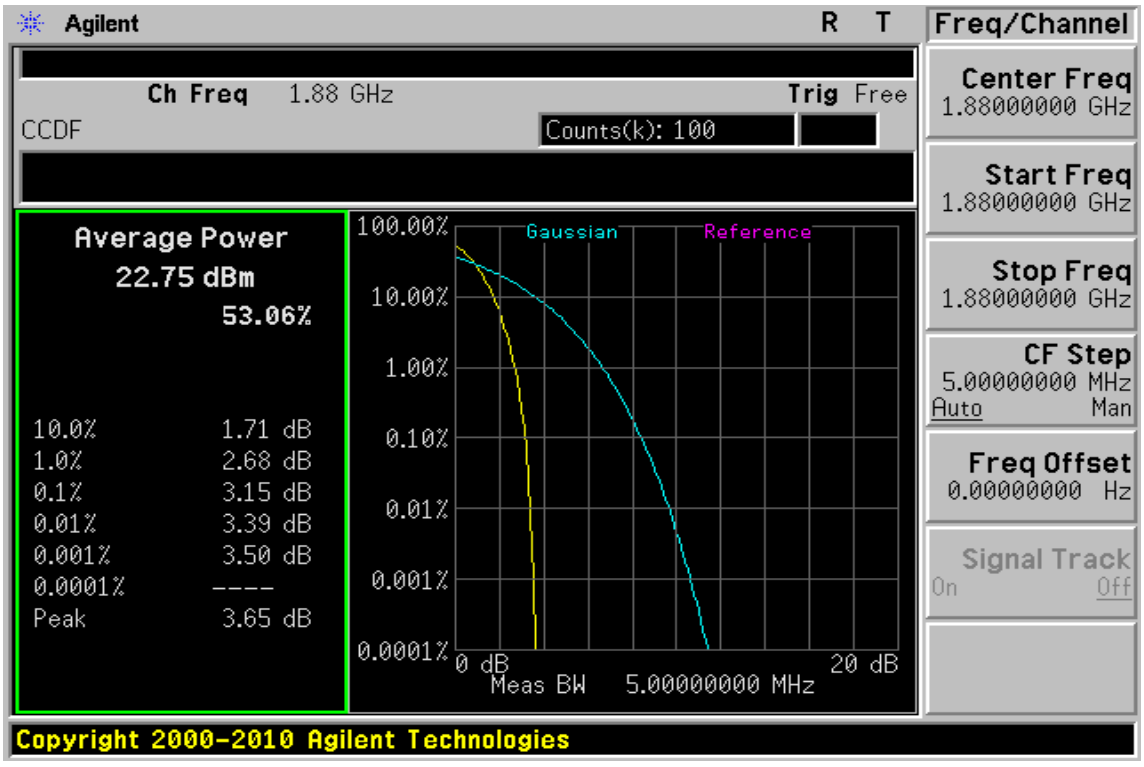


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WCDMA Band II Channel Low

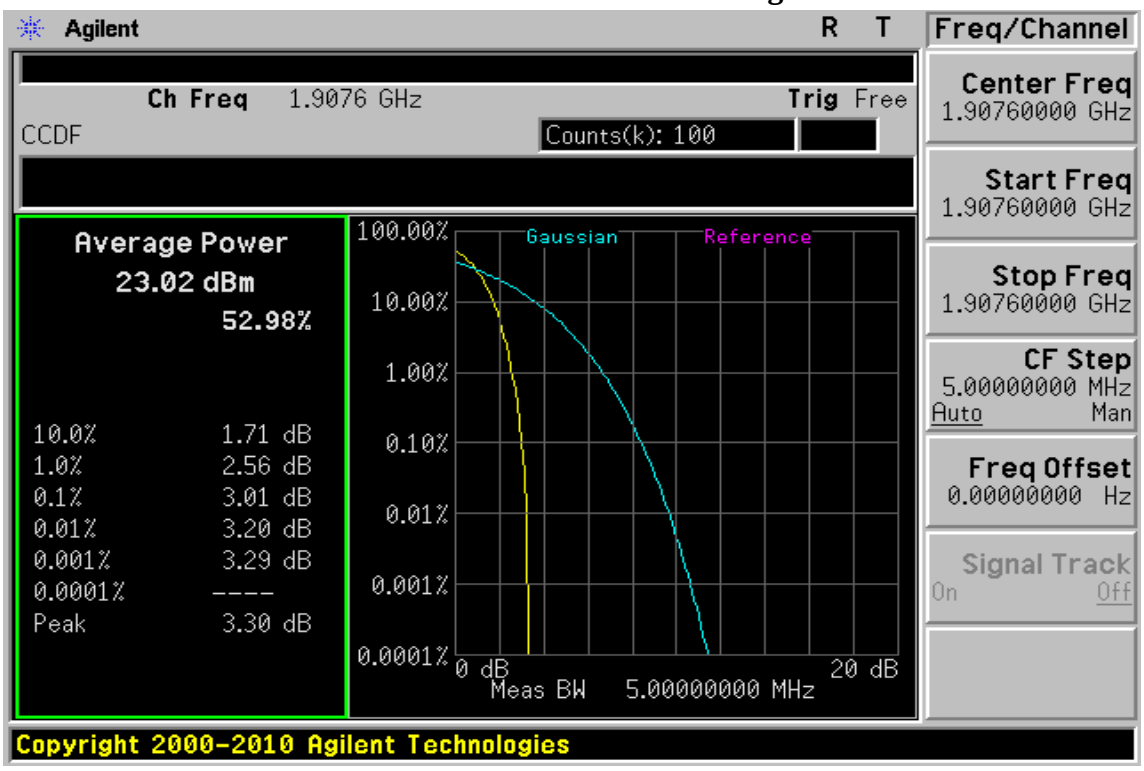


WCDMA Band II Channel Mid

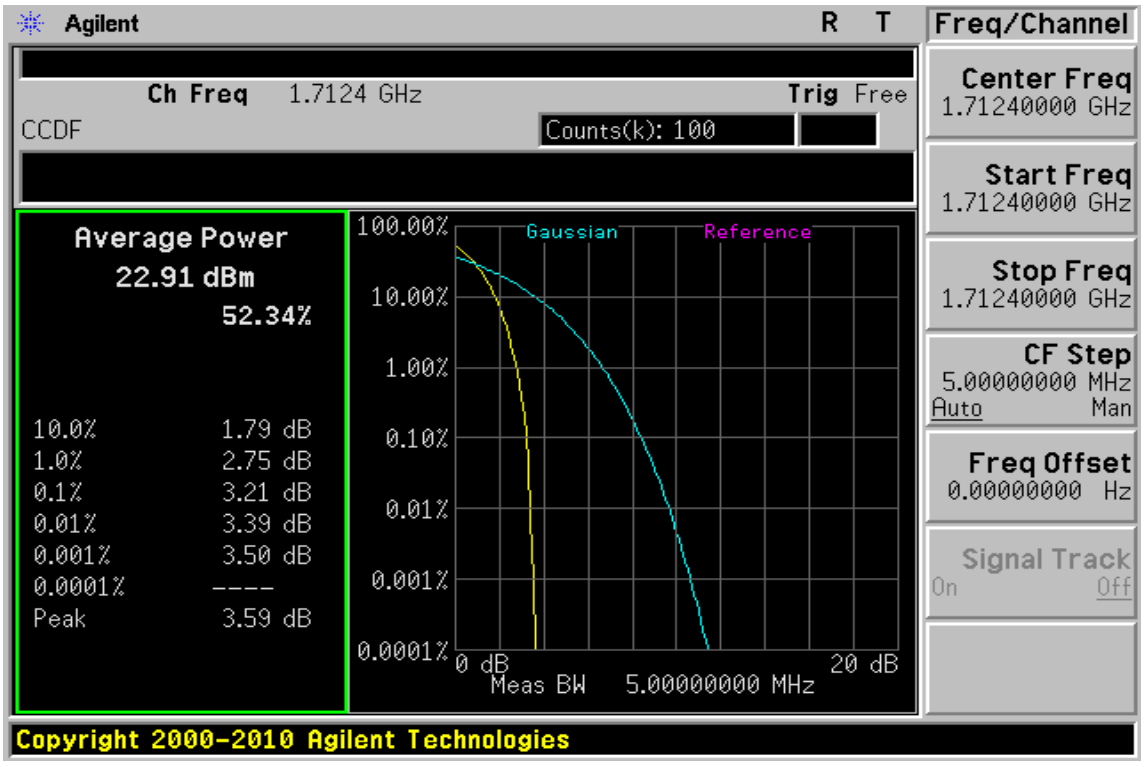


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WCDMA Band II Channel High

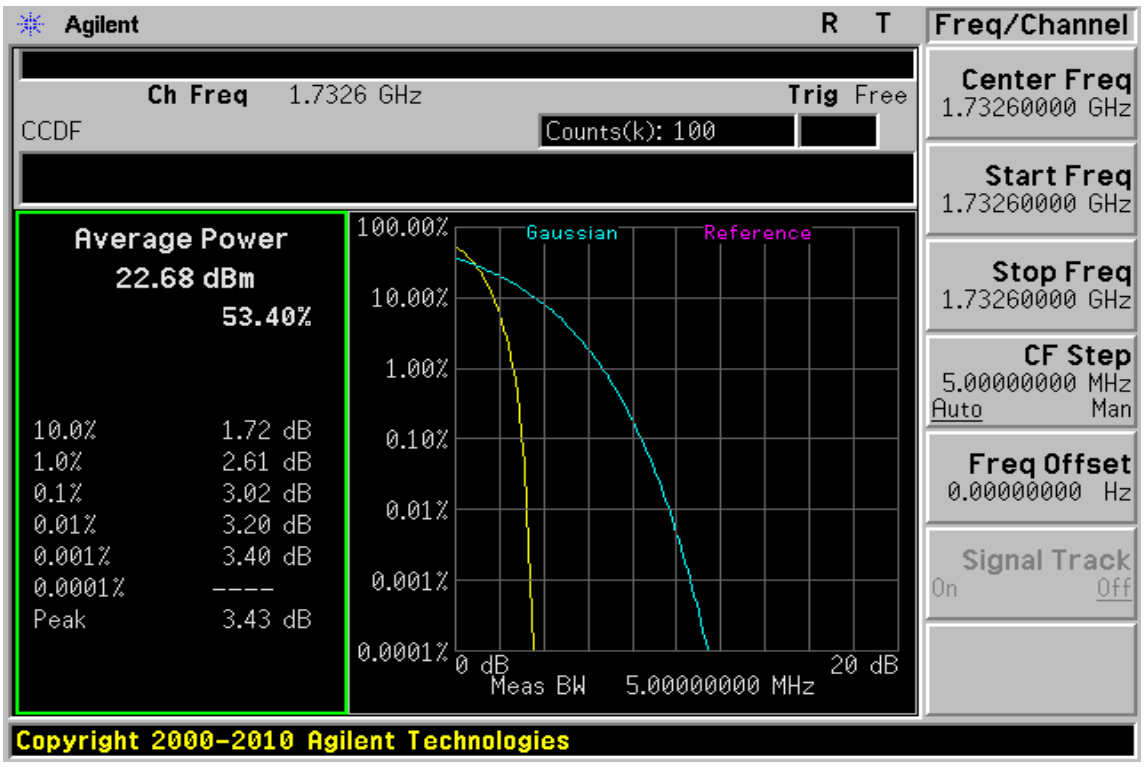


WCDMA Band IV Channel Low

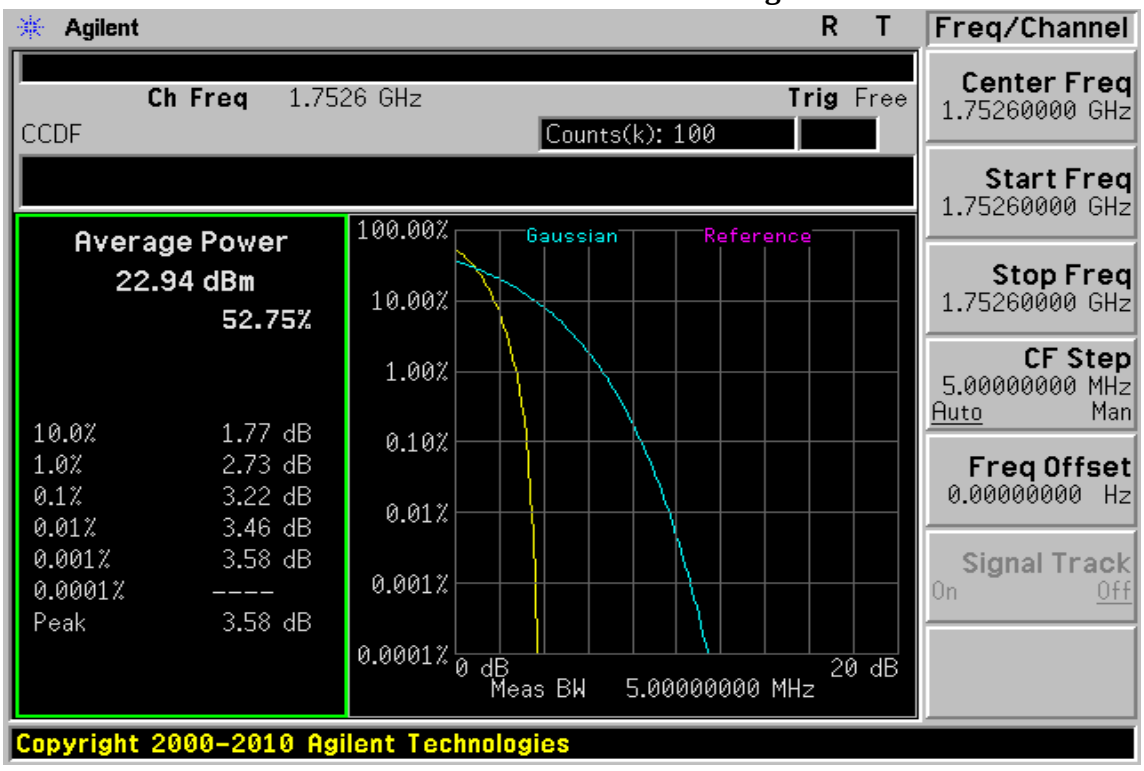


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WCDMA Band IV Channel Mid

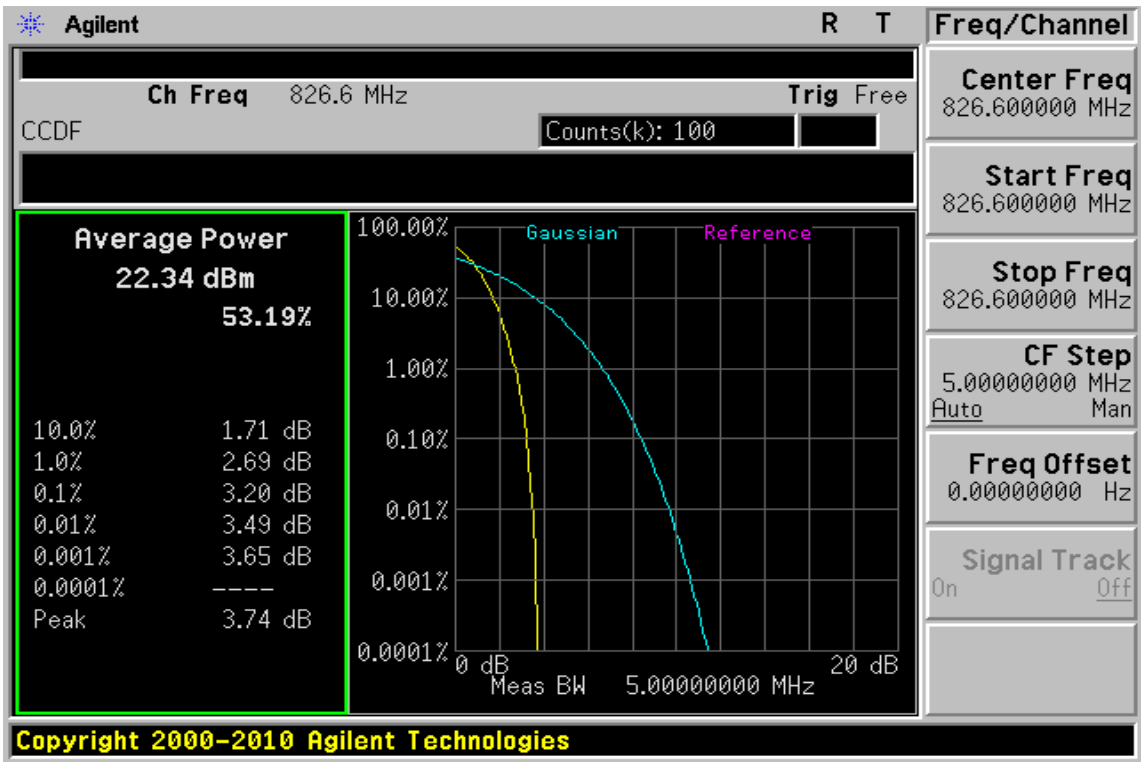


WCDMA Band IV Channel High

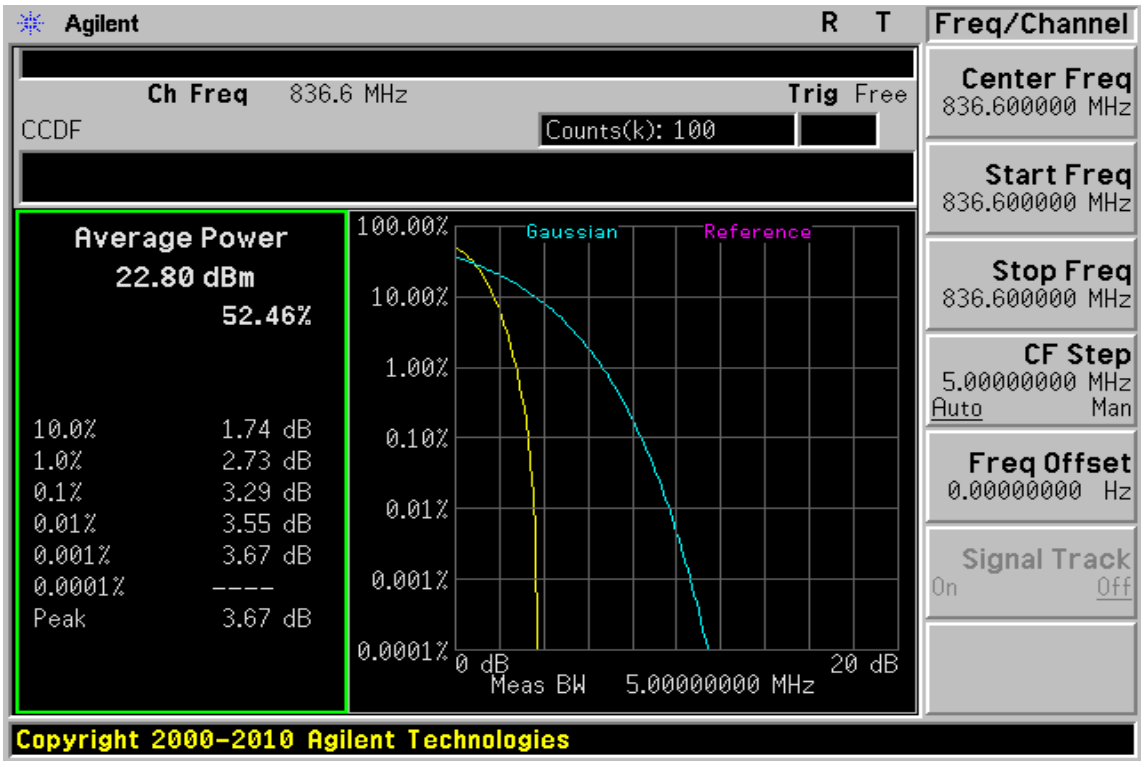


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WCDMA Band V Channel Low

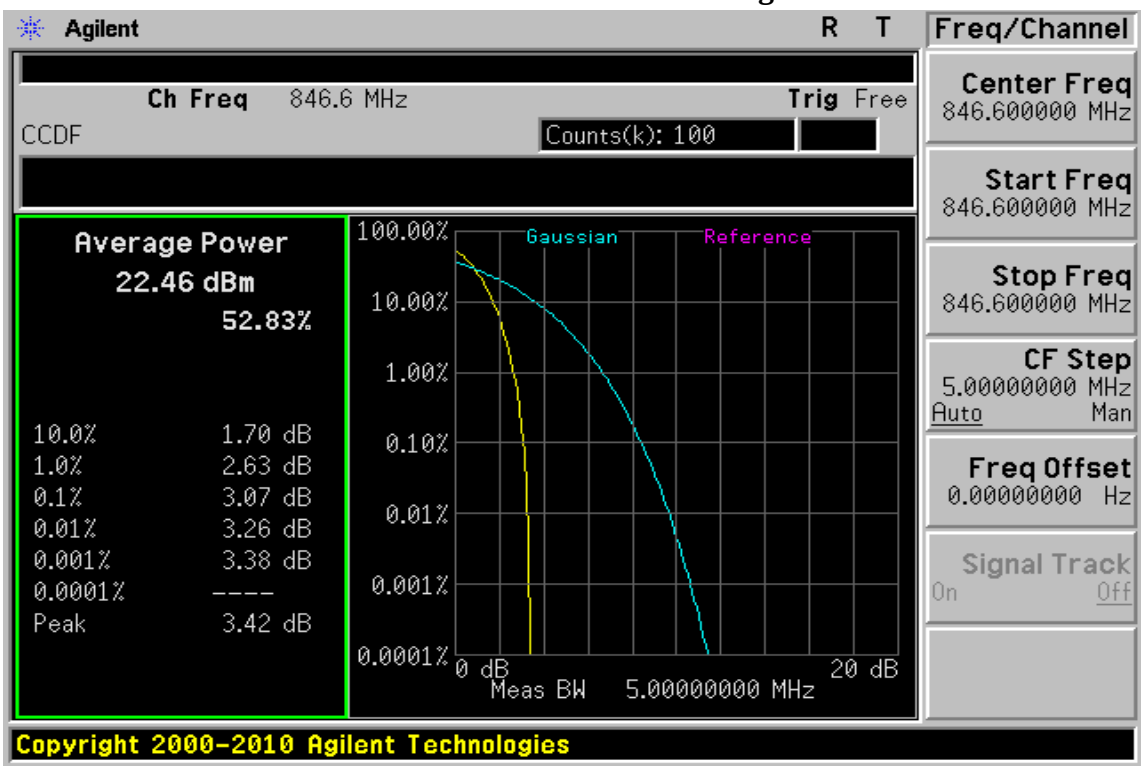


WCDMA Band V Channel Mid

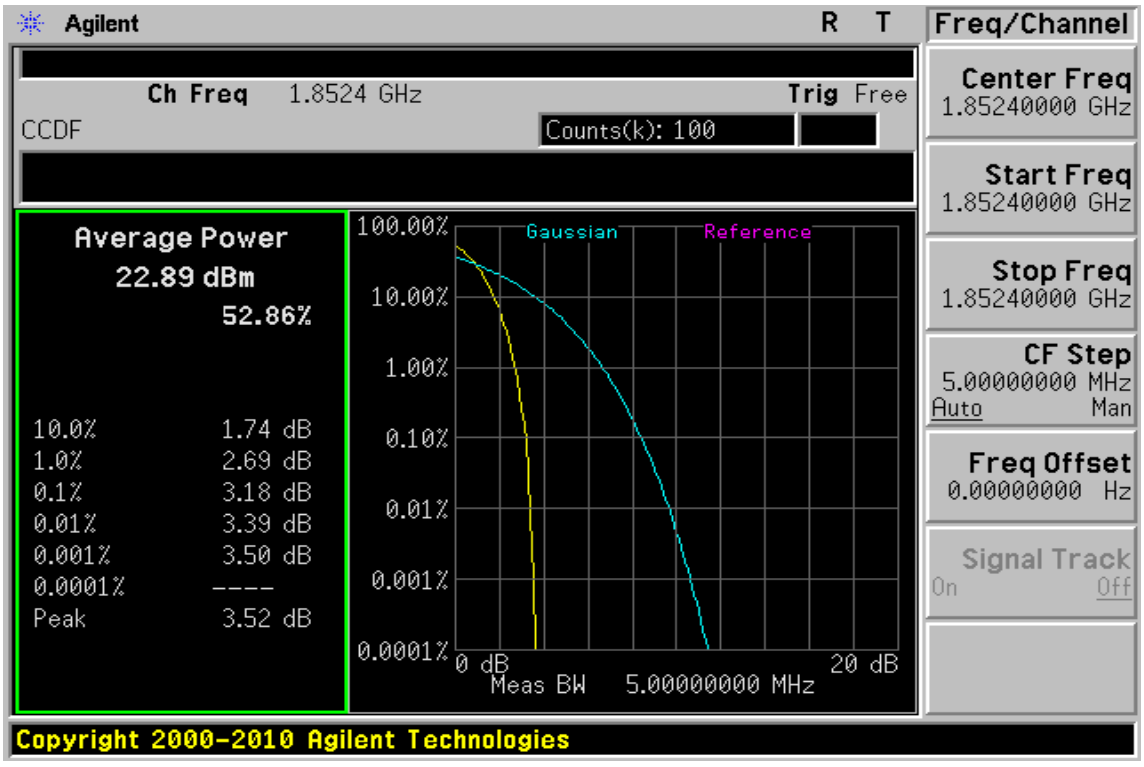


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WCDMA Band V Channel High

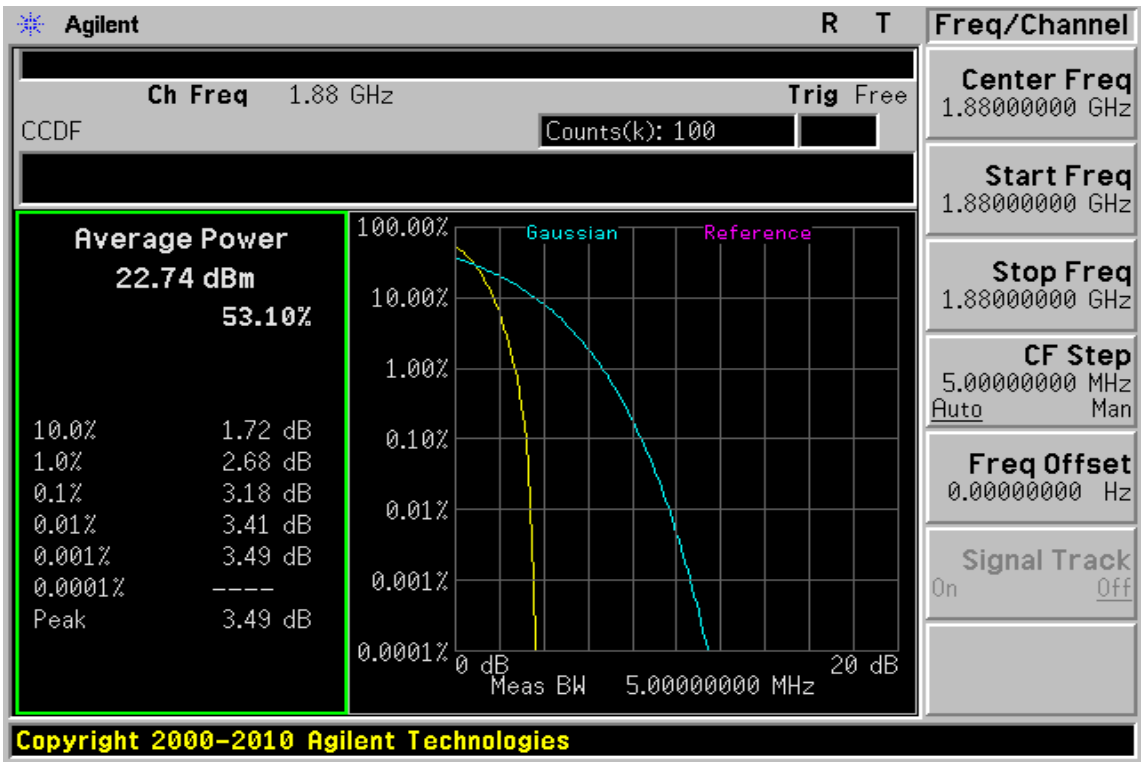


HSDPA Band II Channel Low

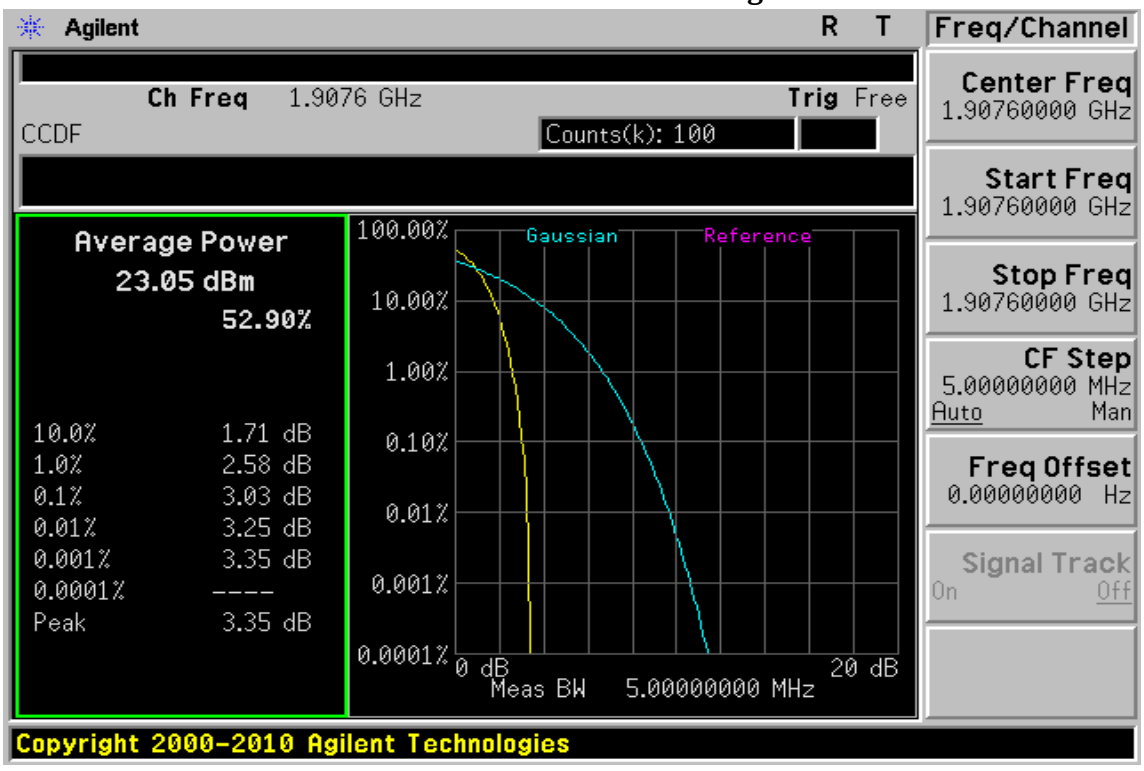


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HSDPA Band II Channel Mid

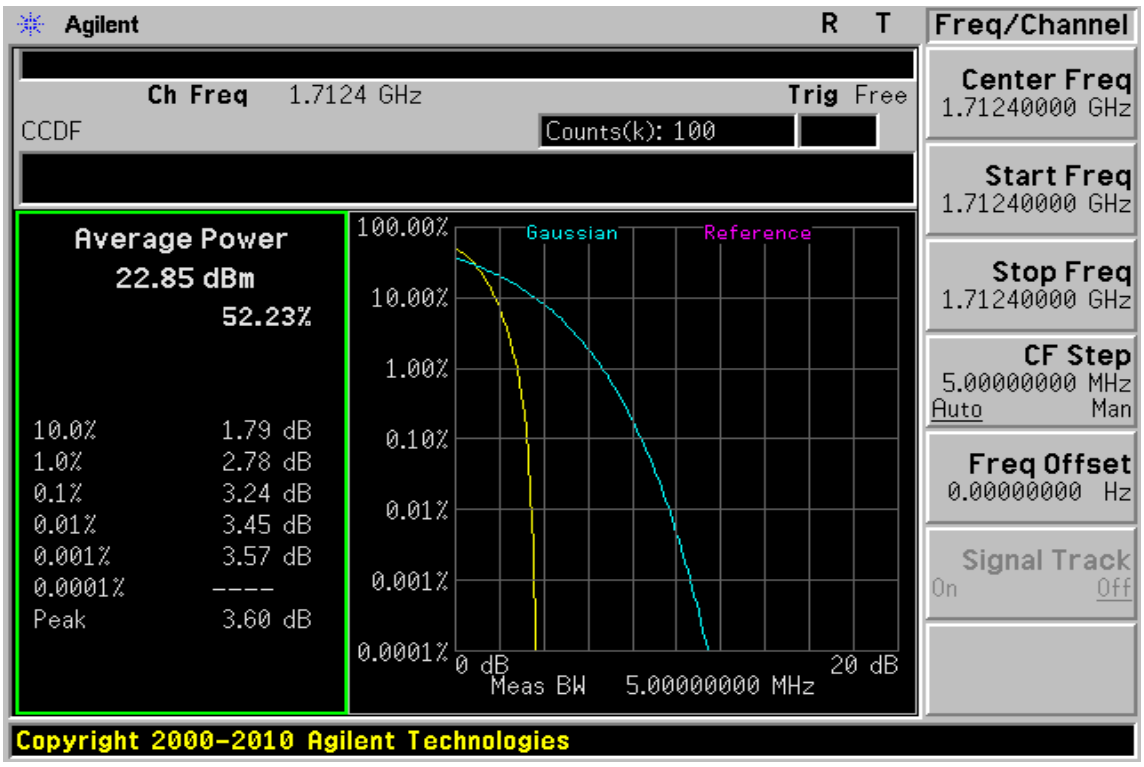


HSDPA Band II Channel High

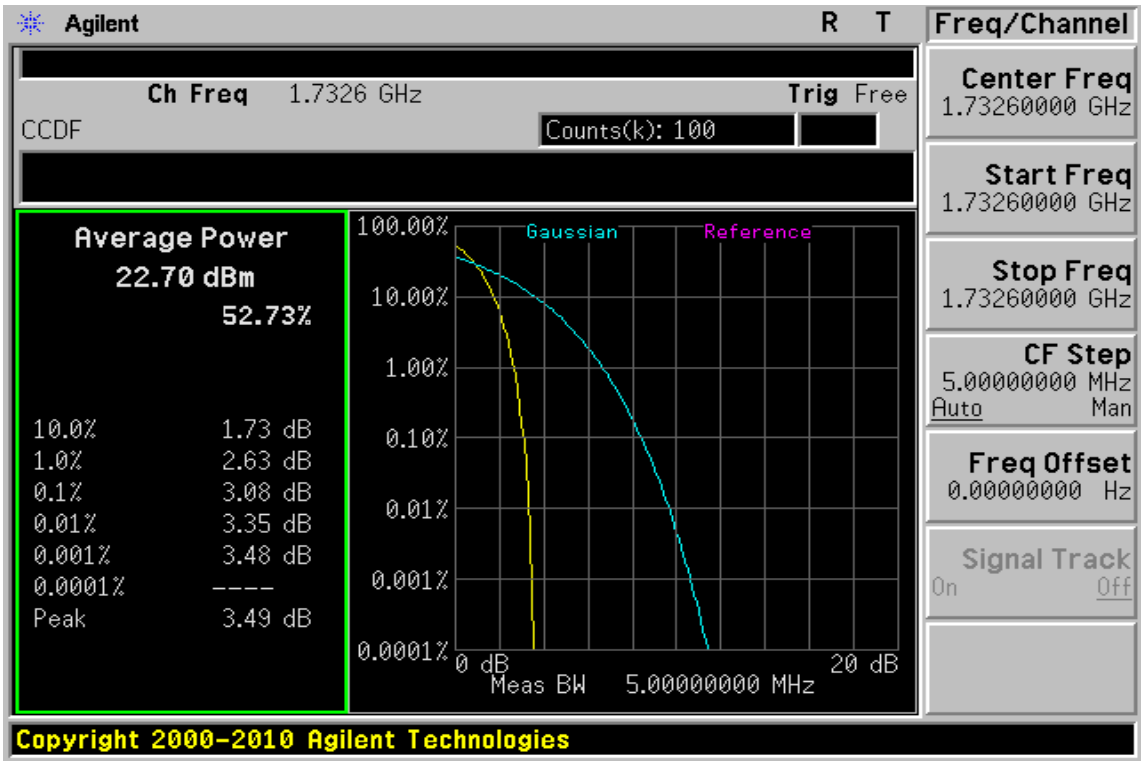


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HSDPA Band IV Channel Low

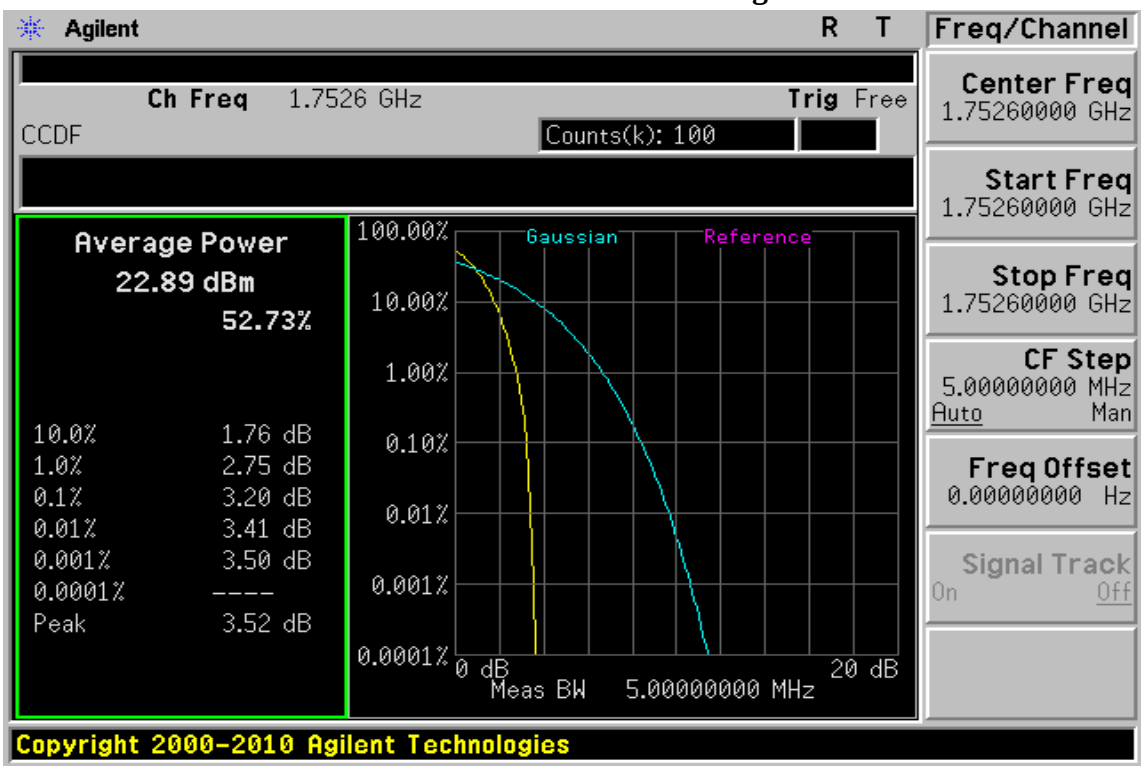


HSDPA Band IV Channel Mid

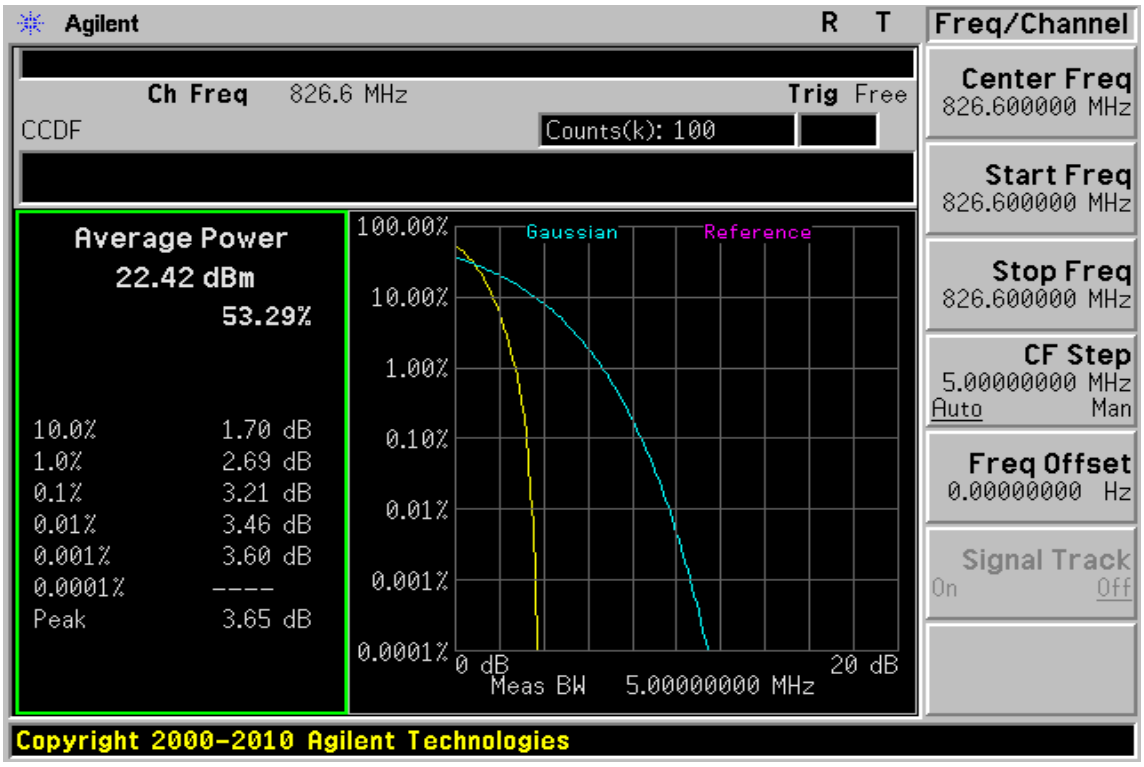


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HSDPA Band IV Channel High

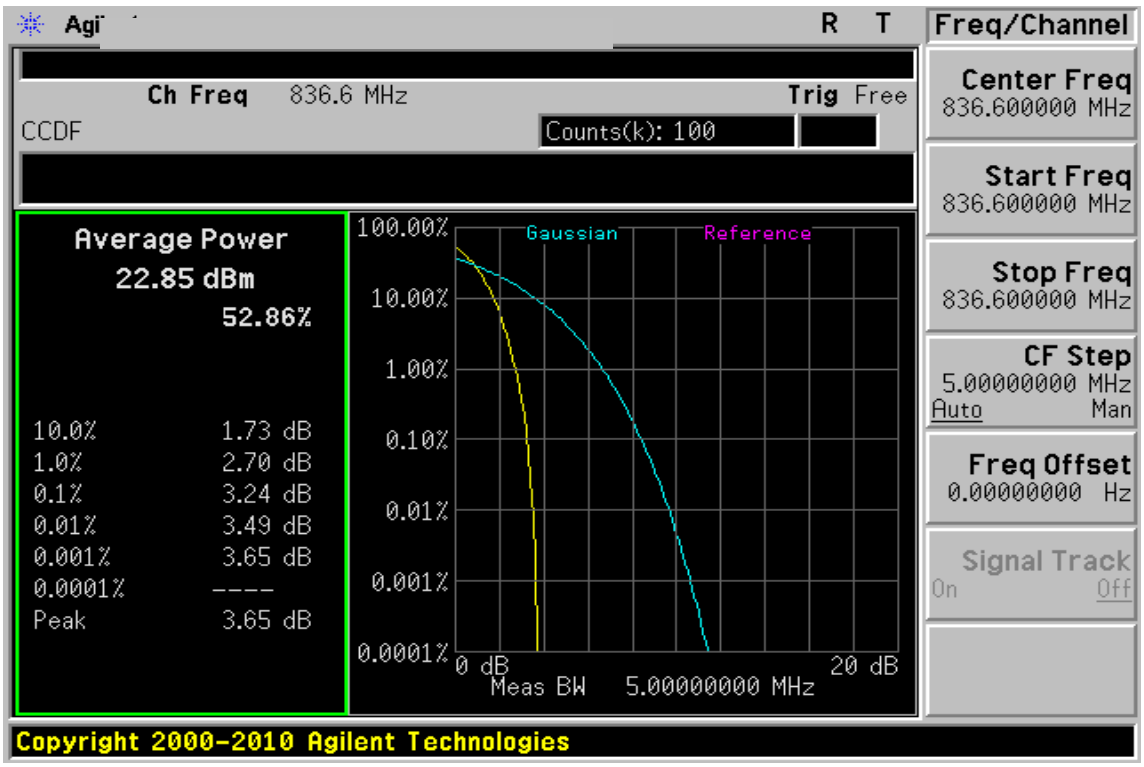


HSDPA Band V Channel Low

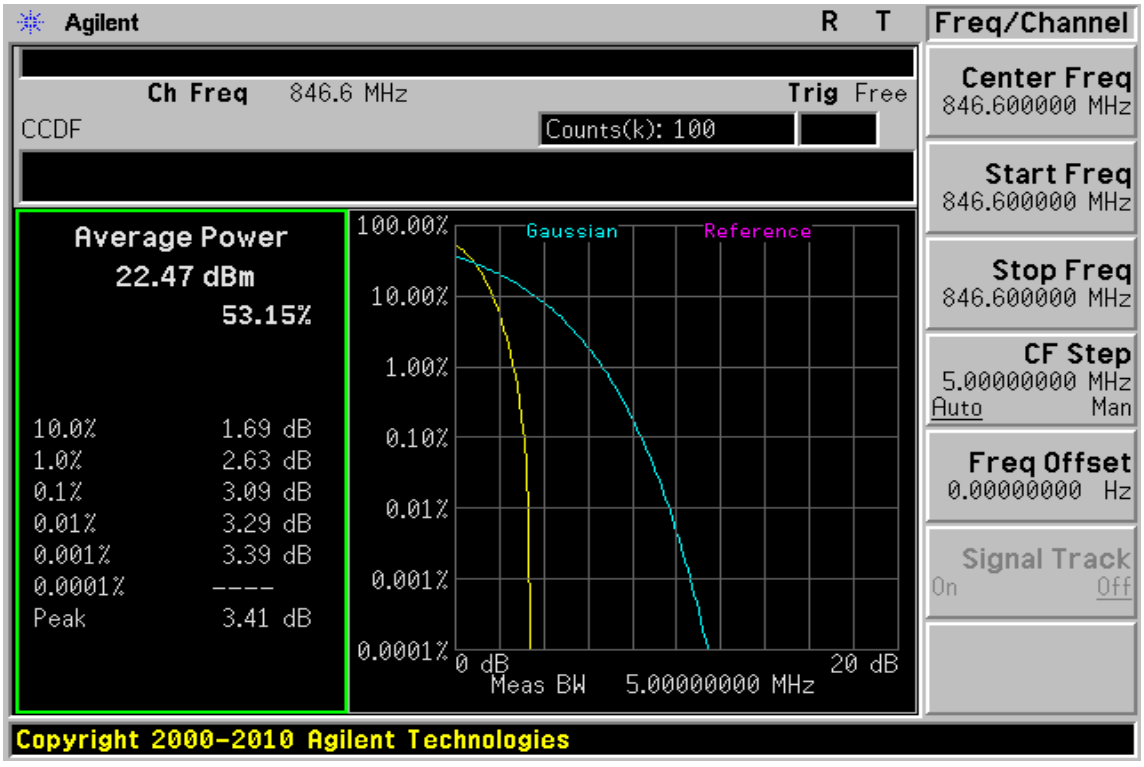


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HSDPA Band V Channel Mid

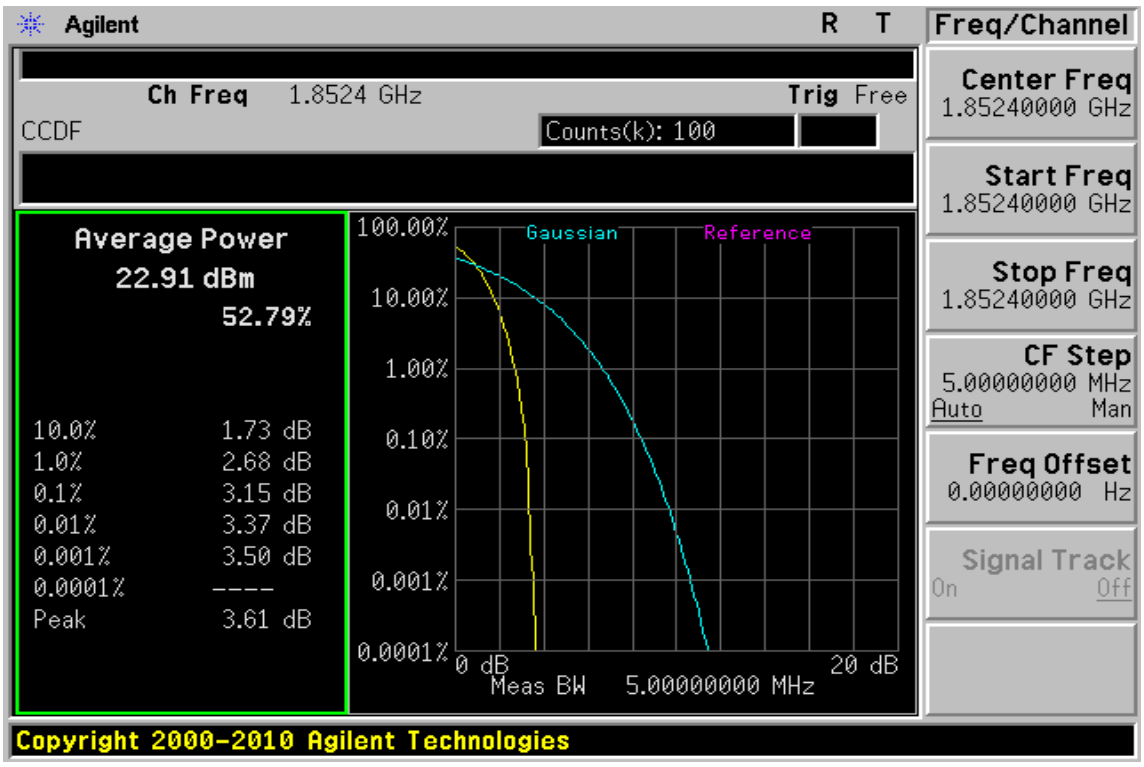


HSDPA Band V Channel High

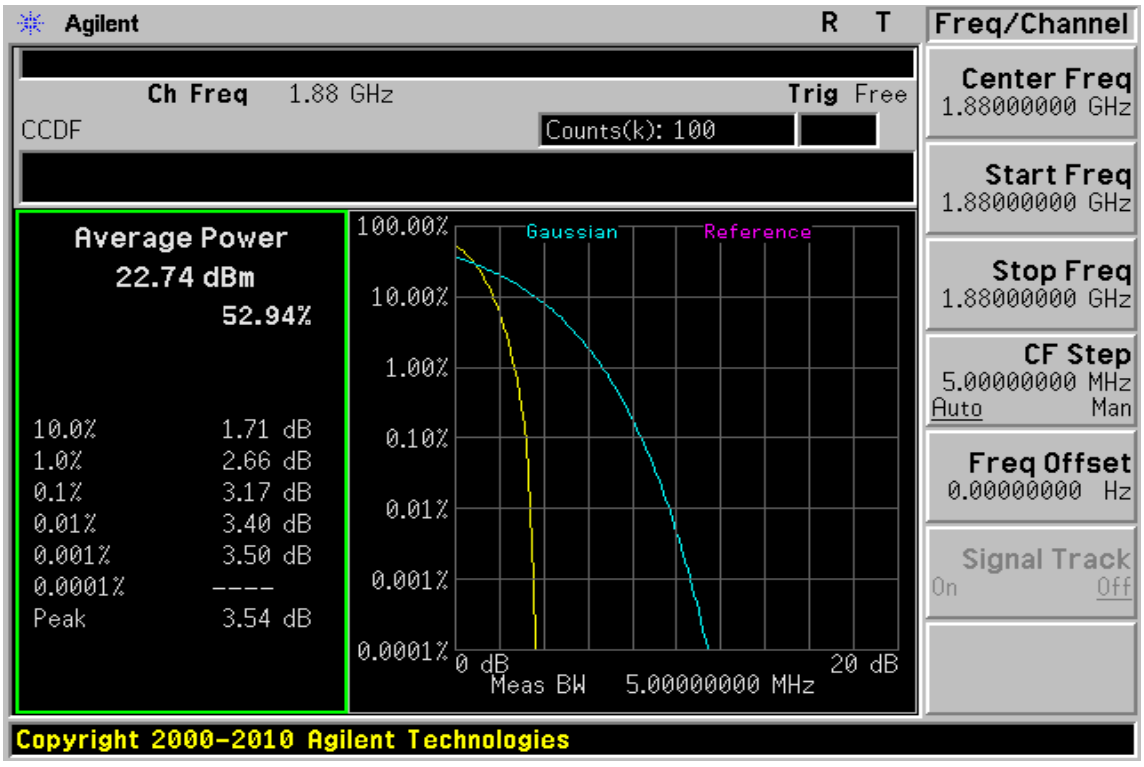


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HSUPA Band II Channel Low

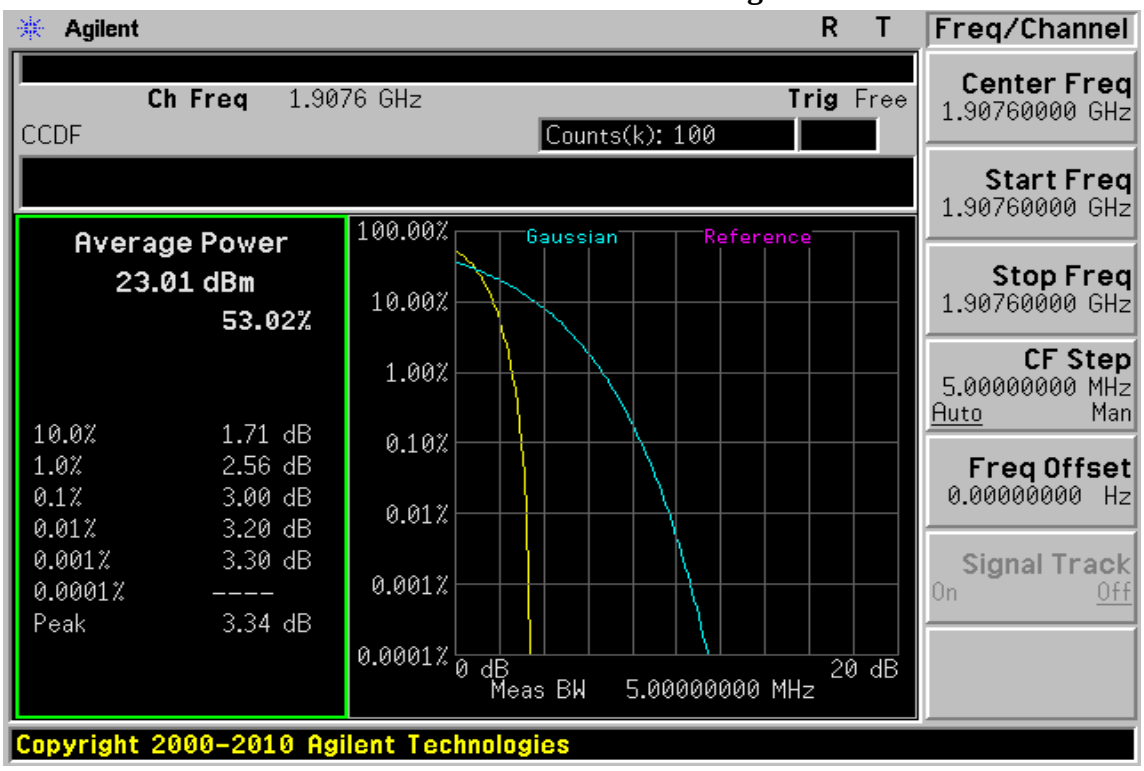


HSUPA Band II Channel Mid

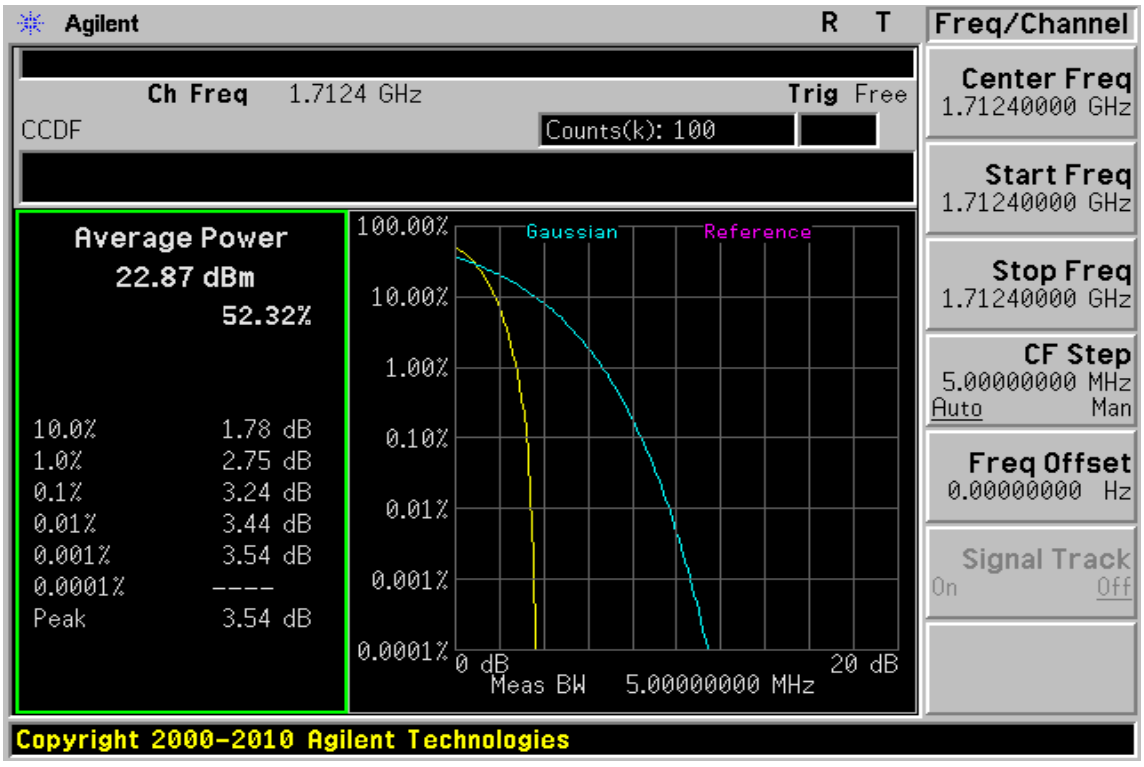


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HSUPA Band II Channel High

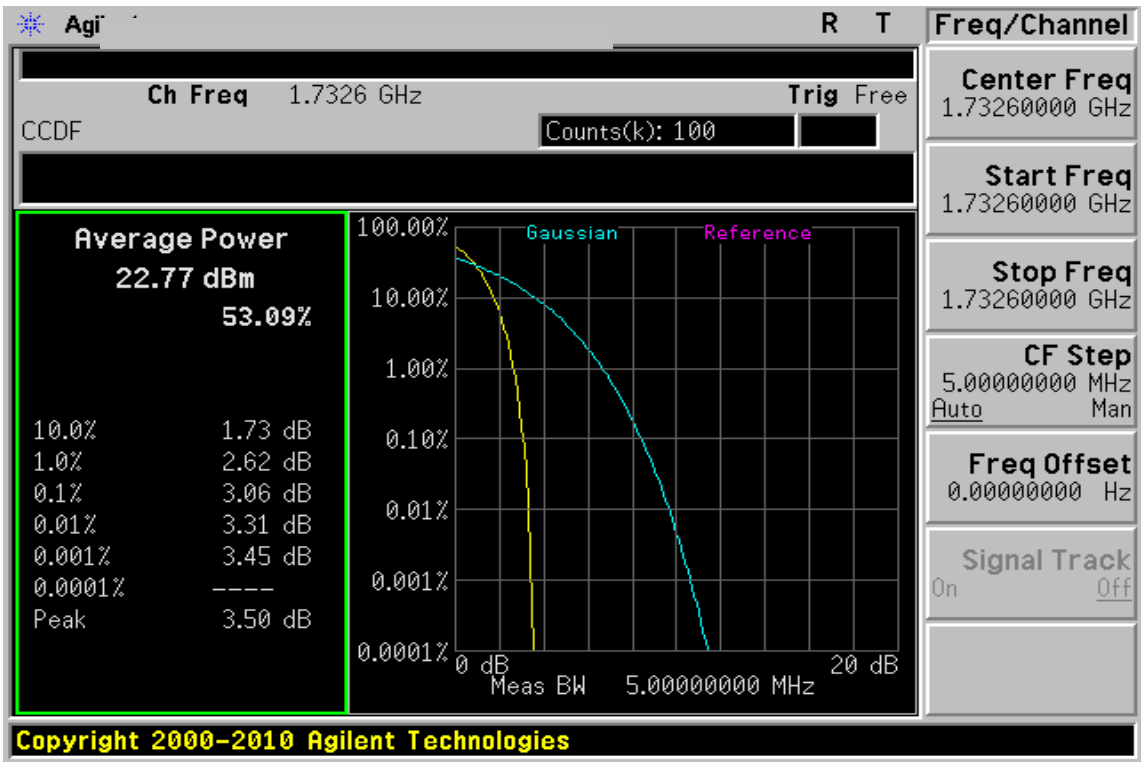


HSUPA Band IV Channel Low

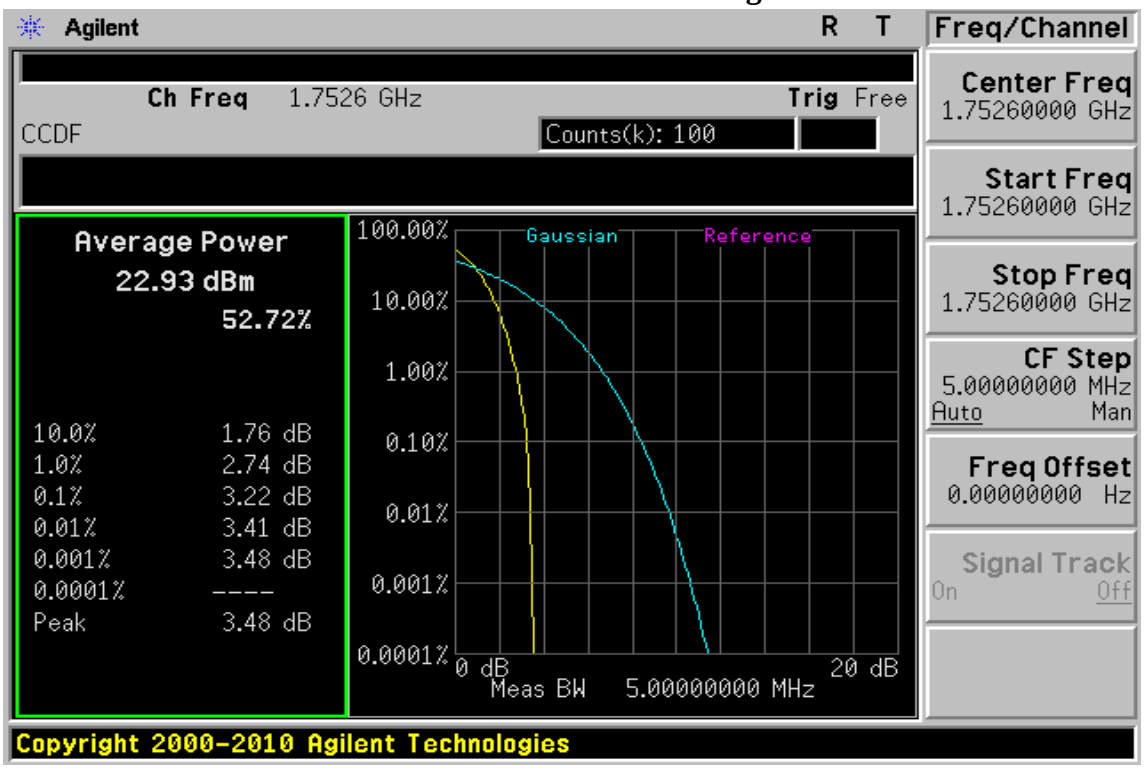


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HSUPA Band IV Channel Mid

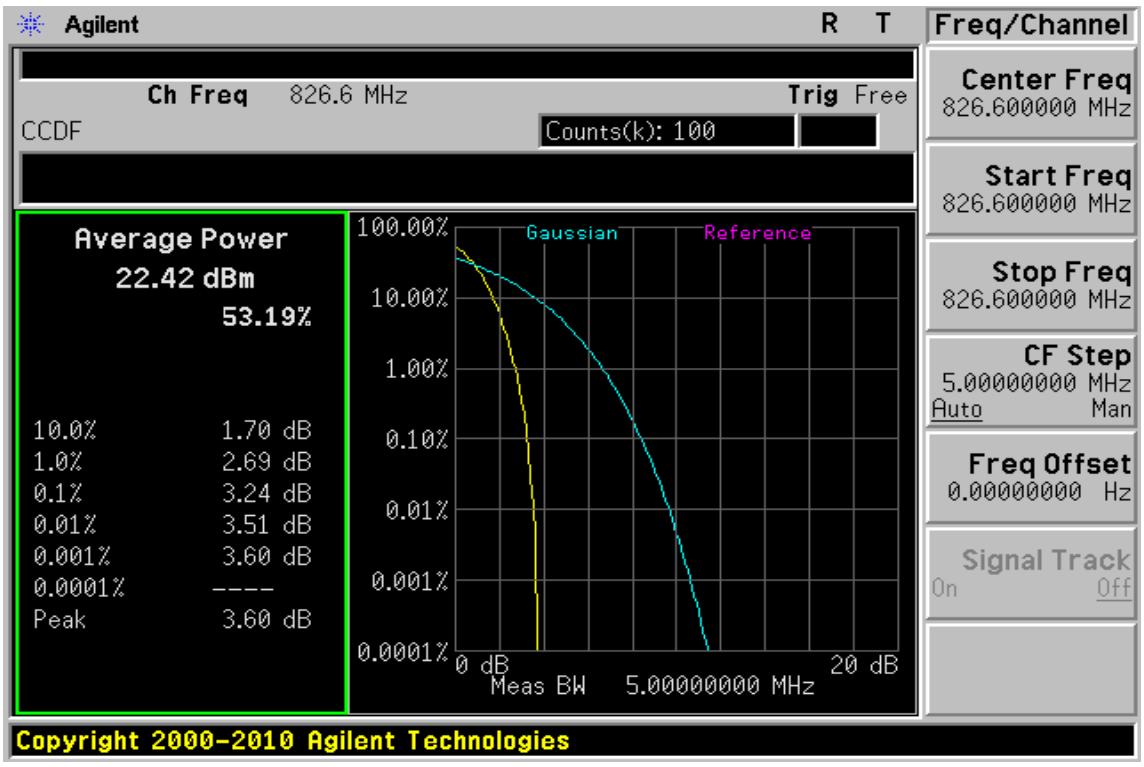


HSUPA Band V Channel High

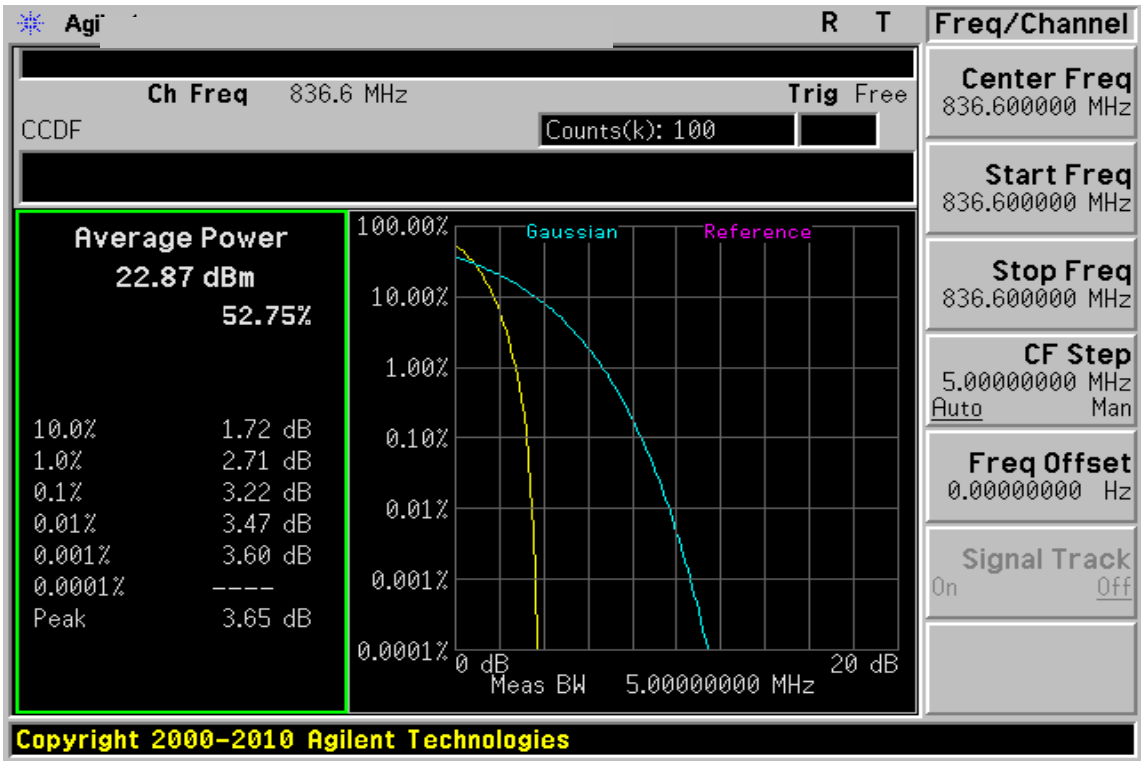


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HSUPA Band V Channel Low

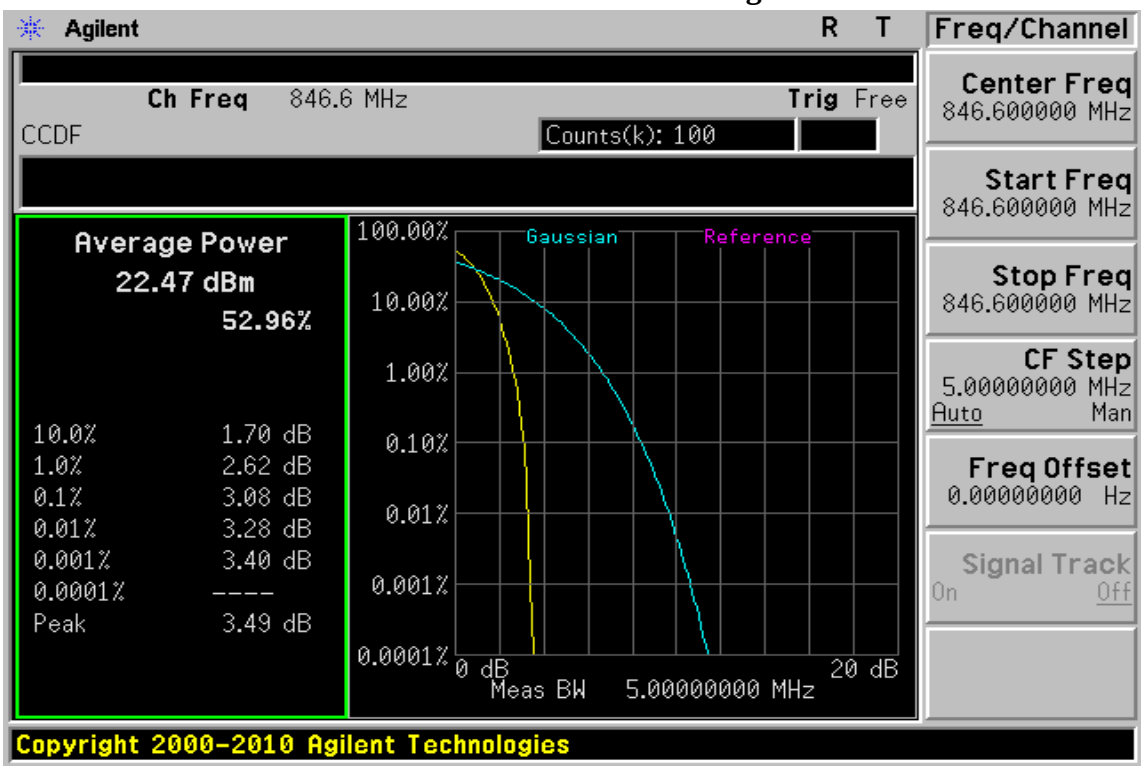


HSUPA Band V Channel Mid

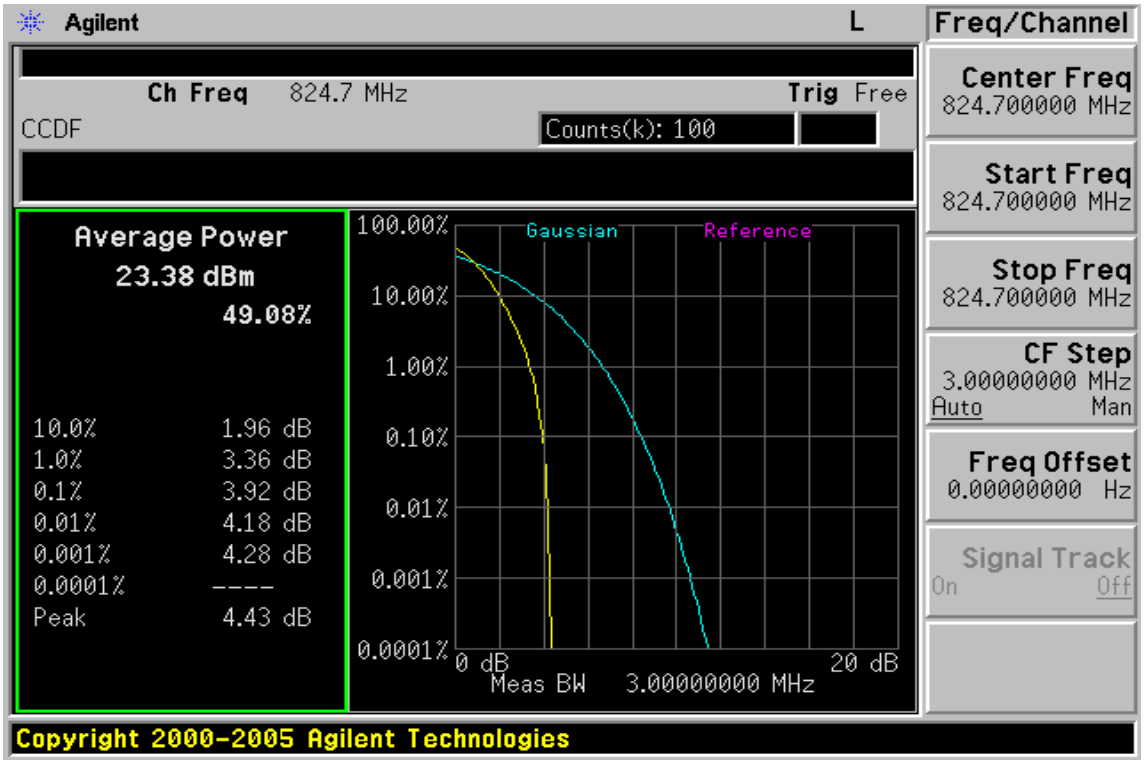


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HSUPA Band V Channel High

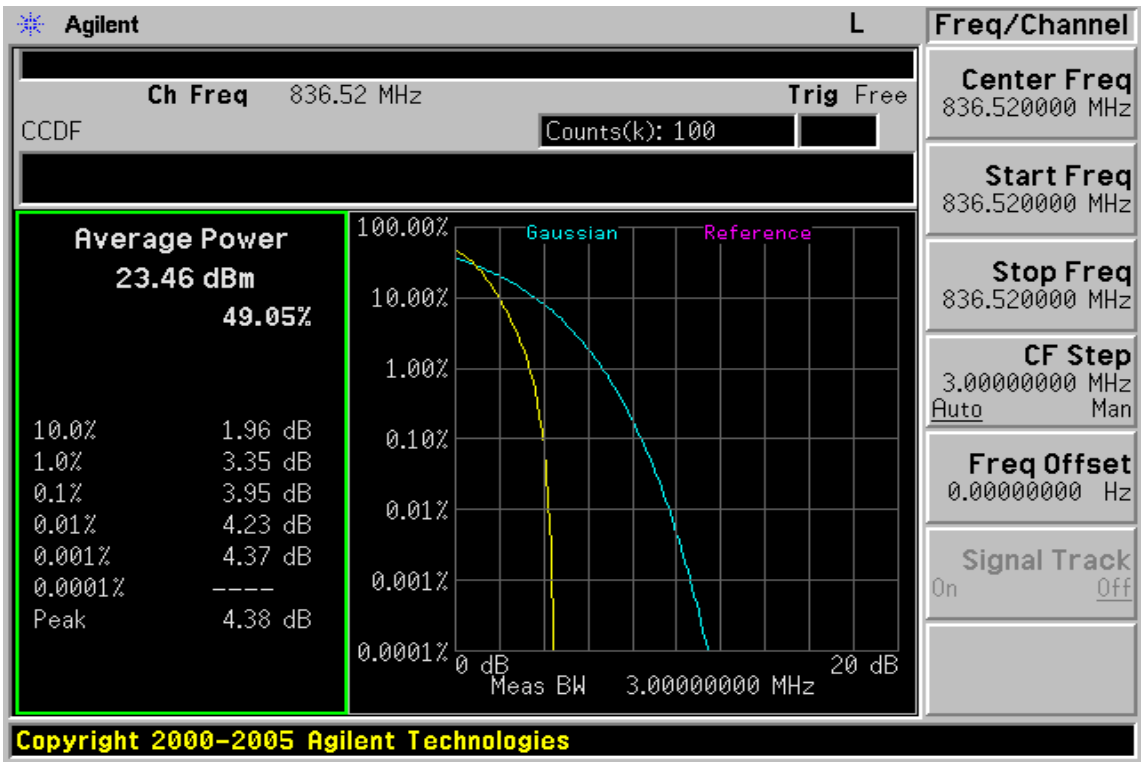


CDMA BC0 Channel Low

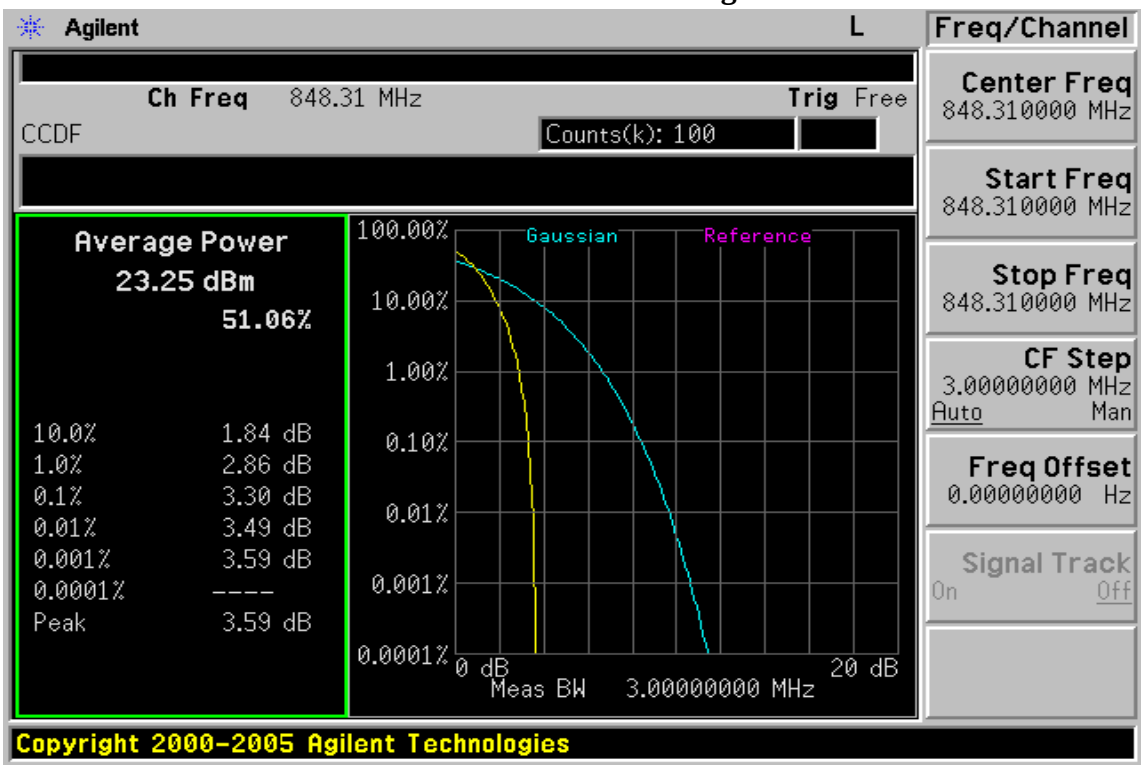


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CDMA BC0 Channel Mid

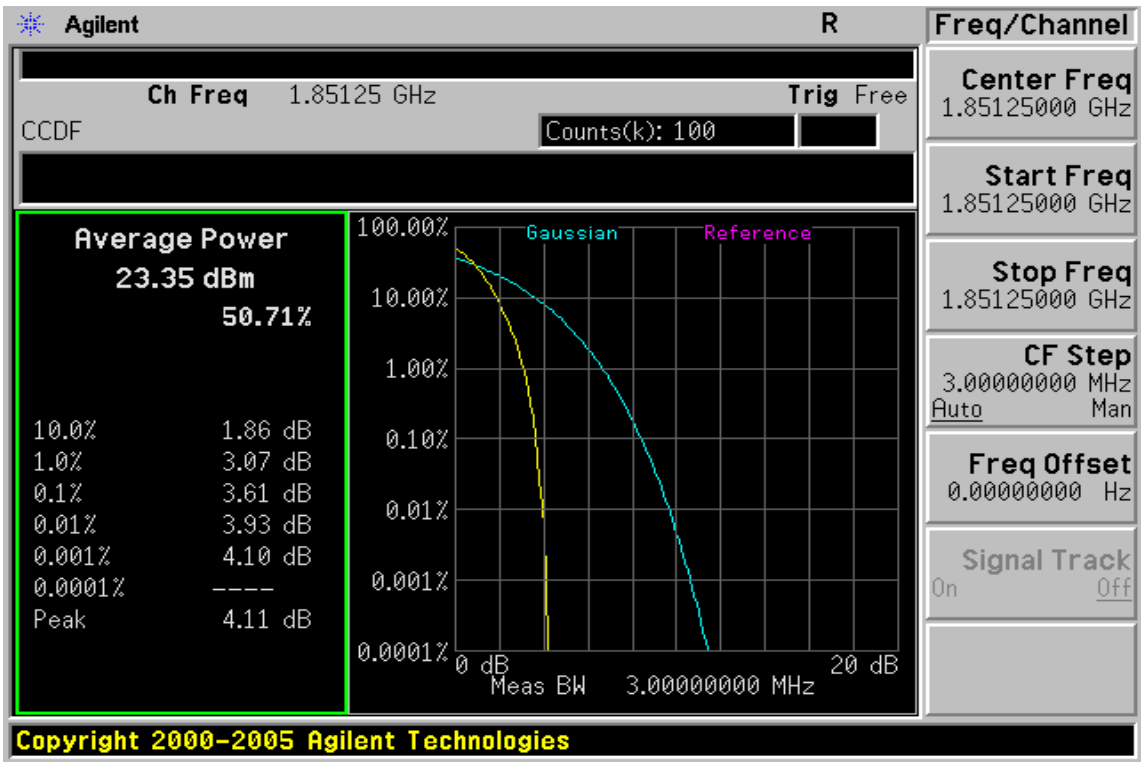


CDMA BC0 Channel High

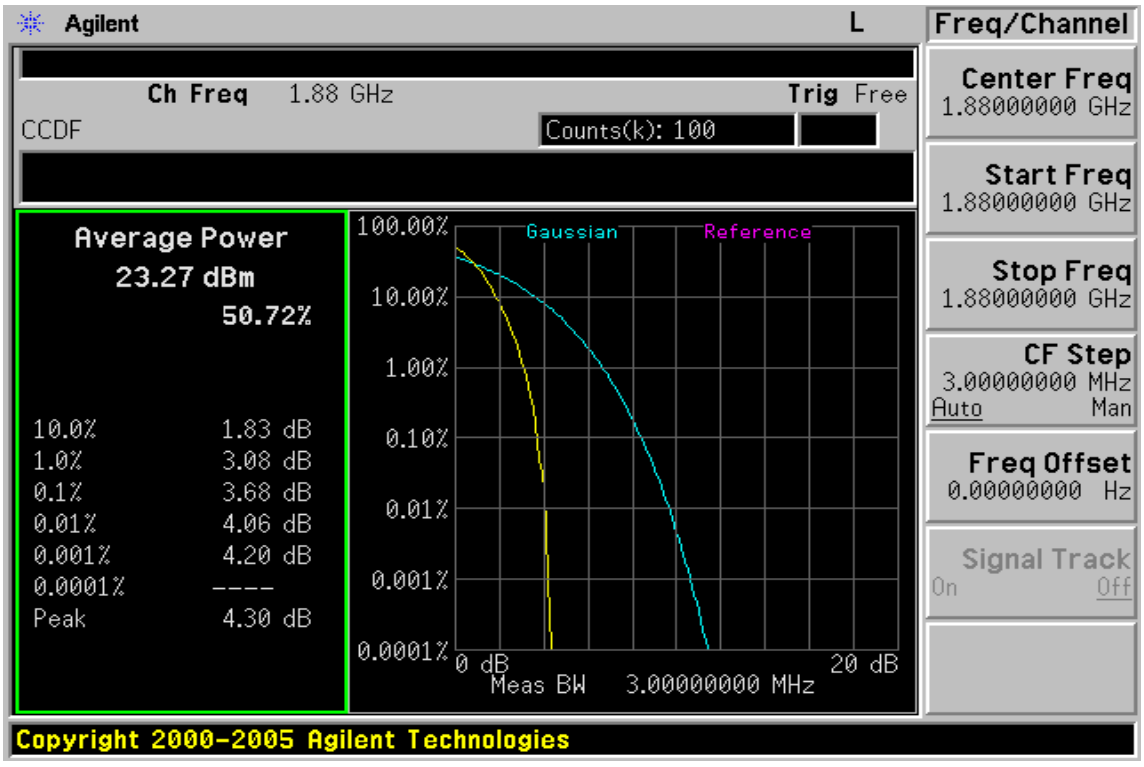


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CDMA BC1 Channel Low

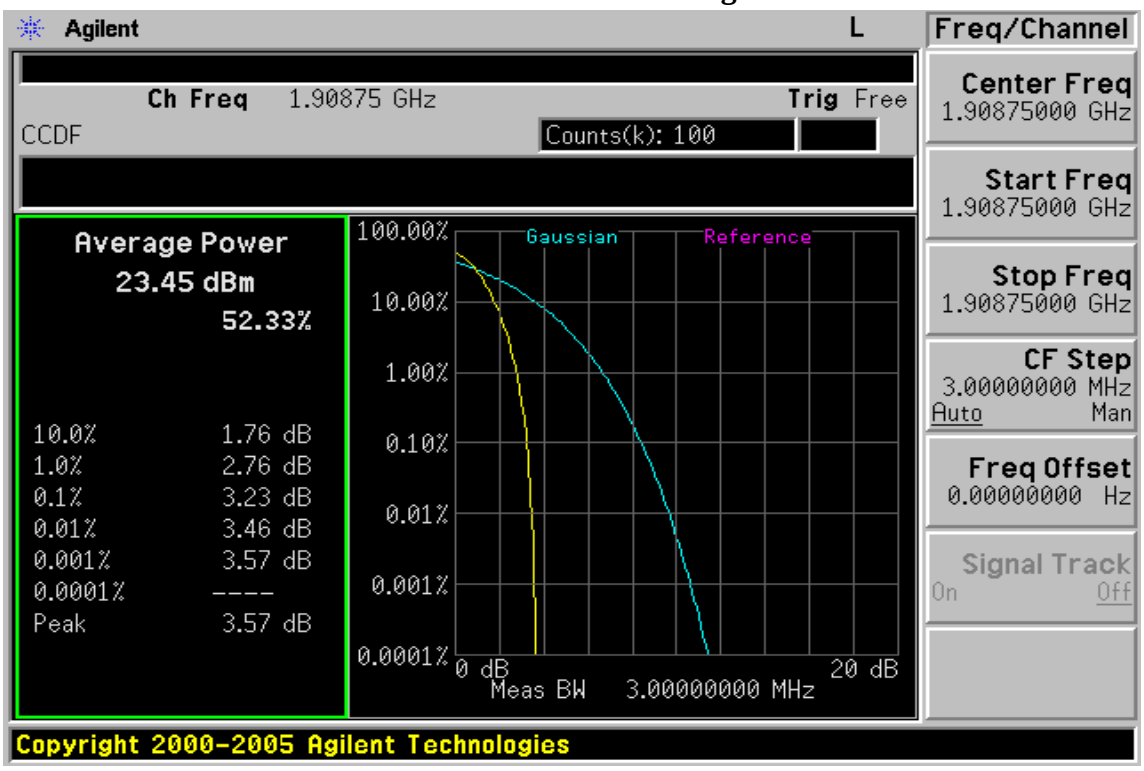


CDMA BC1 Channel Mid

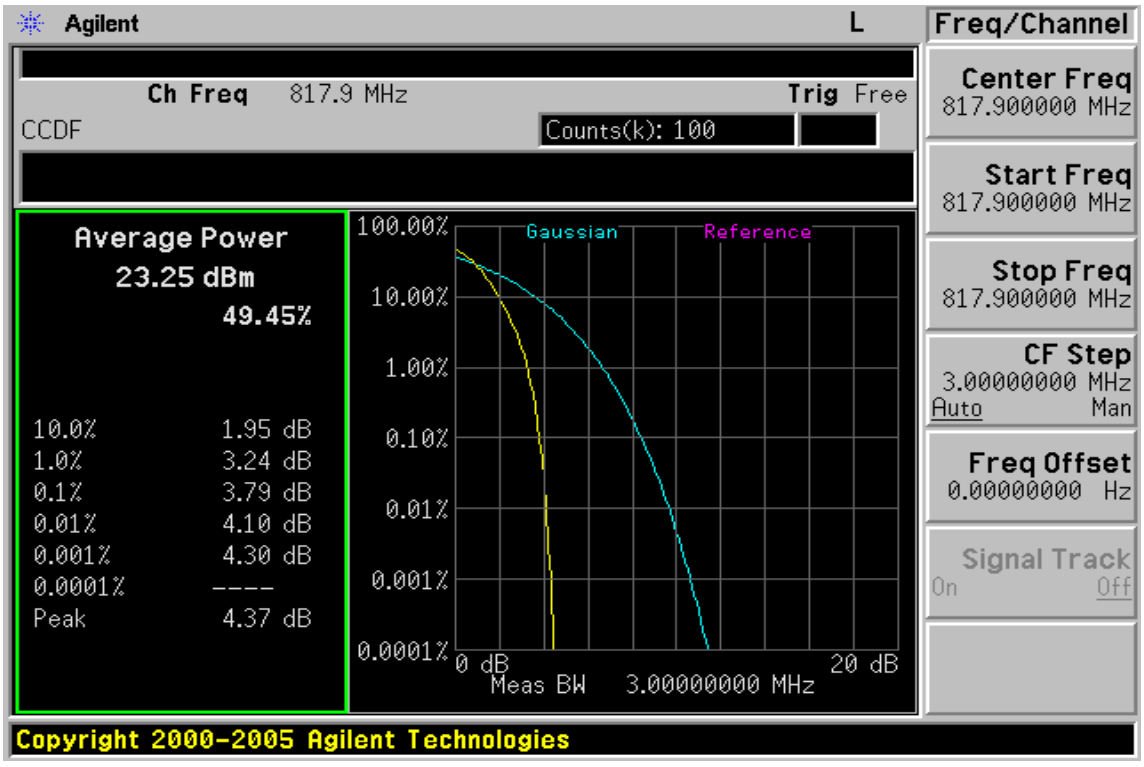


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CDMA BC1 Channel High

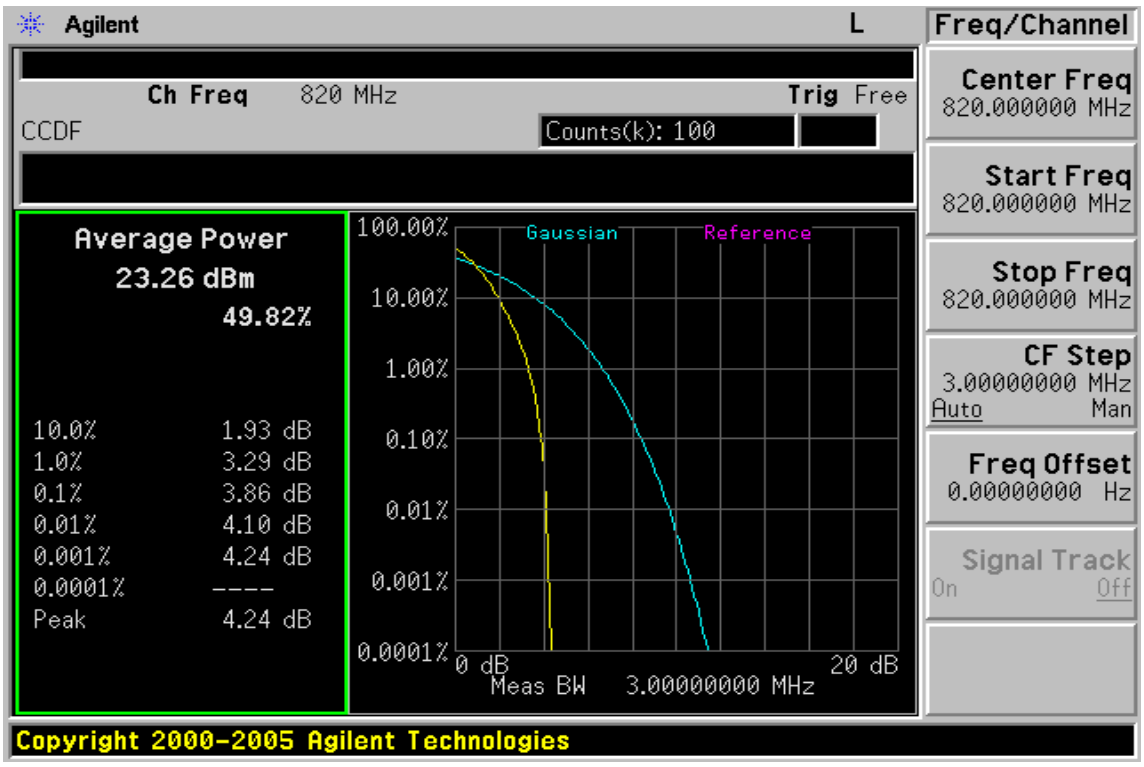


CDMA BC10 Channel Low

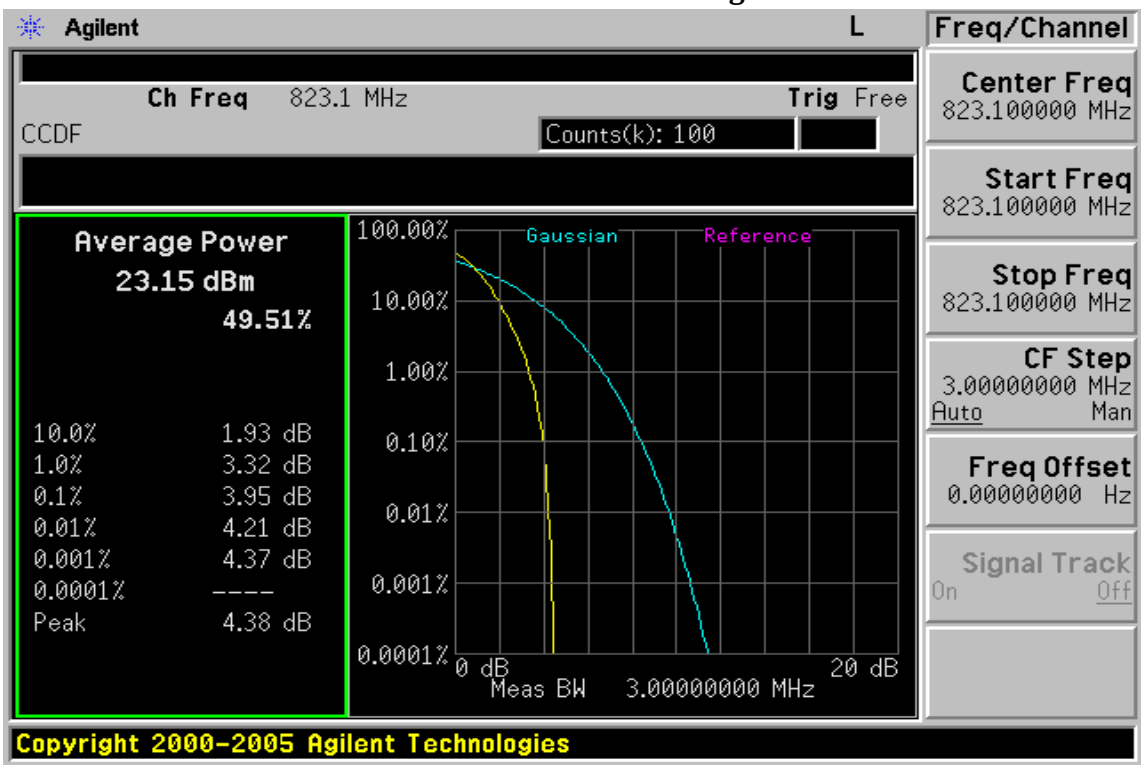


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CDMA BC10 Channel Mid

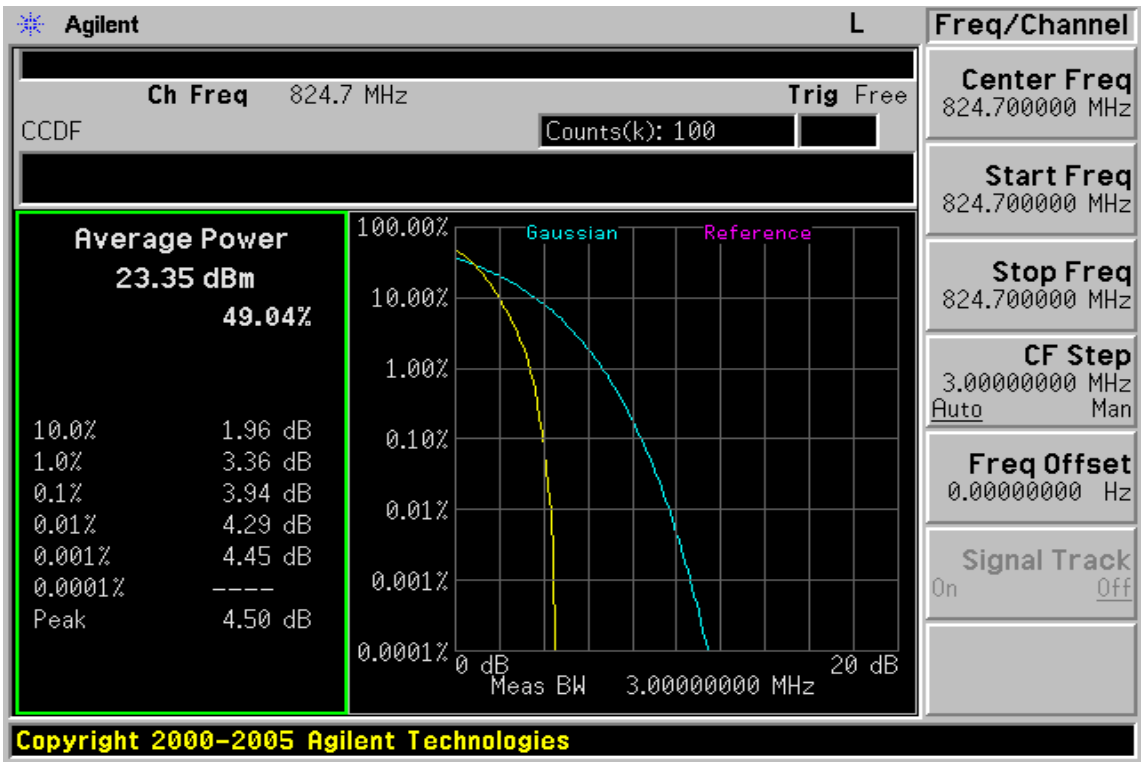


CDMA BC10 Channel High

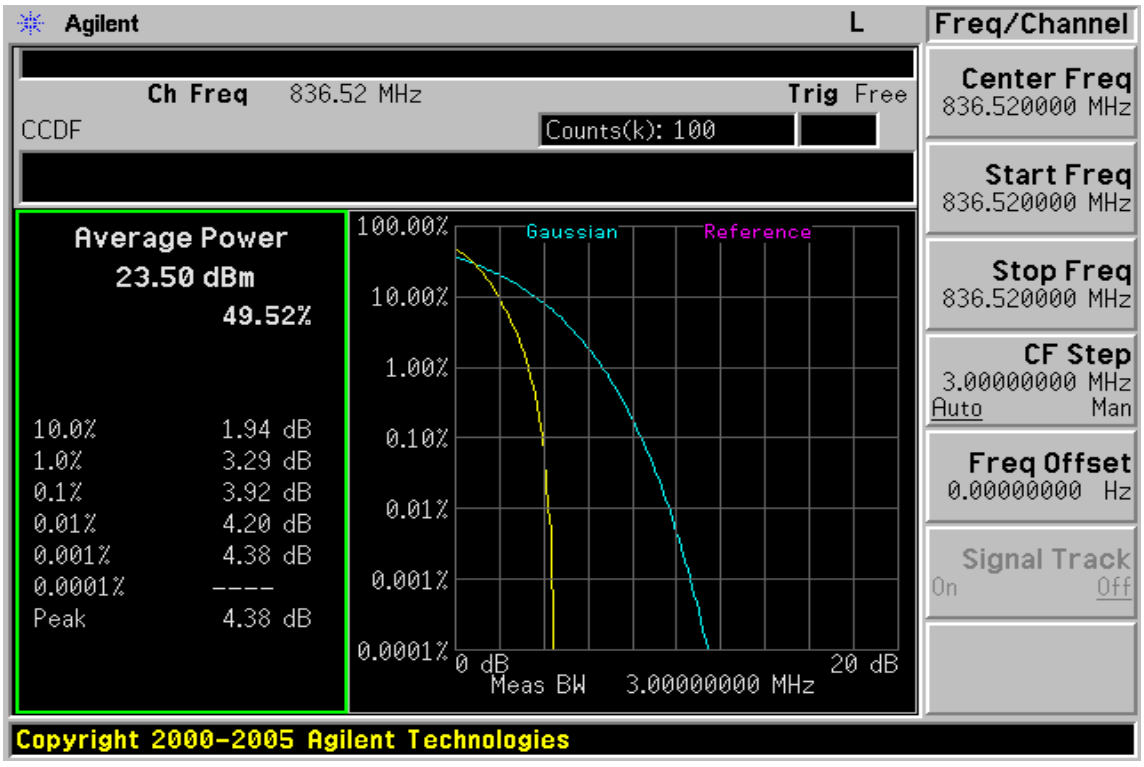


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EVDO BC0 Channel Low

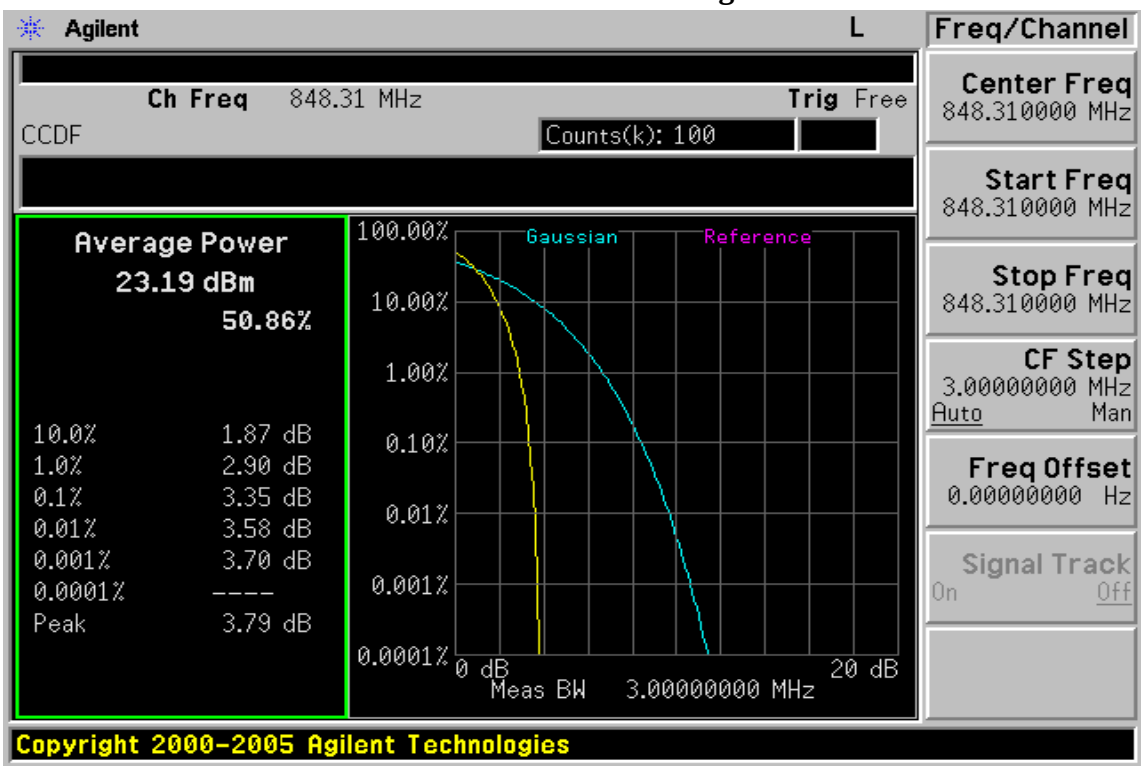


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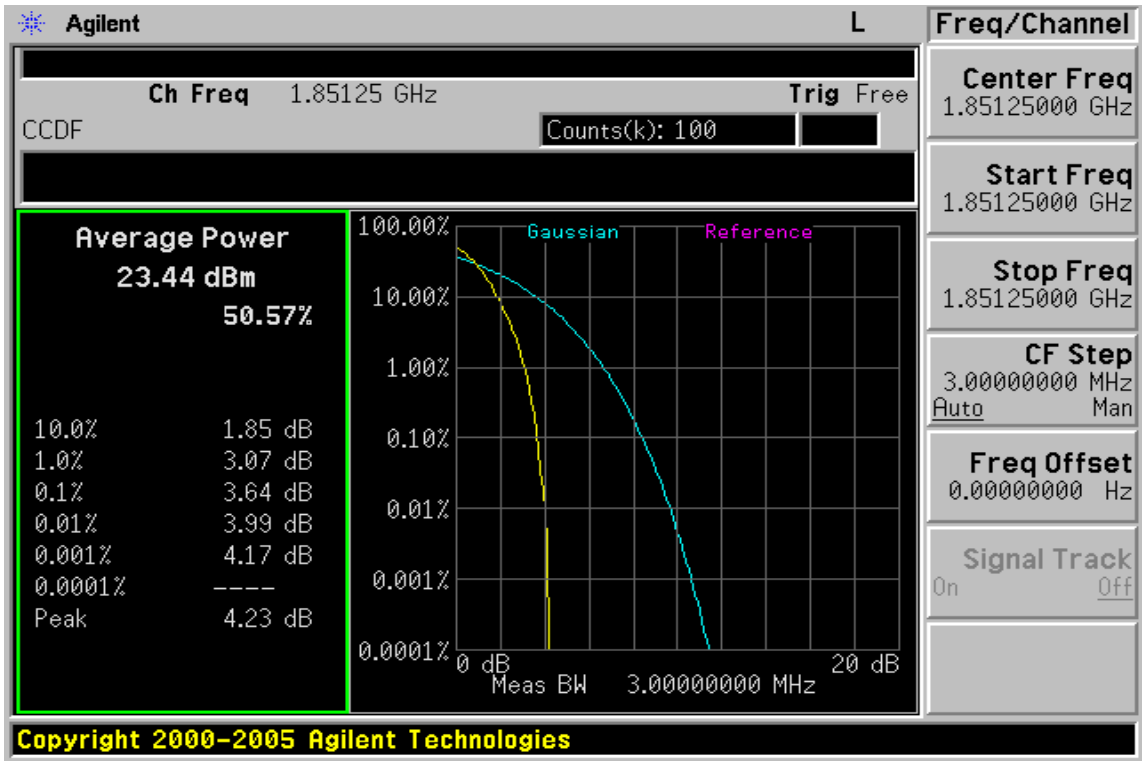


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EVDO BC0 Channel High

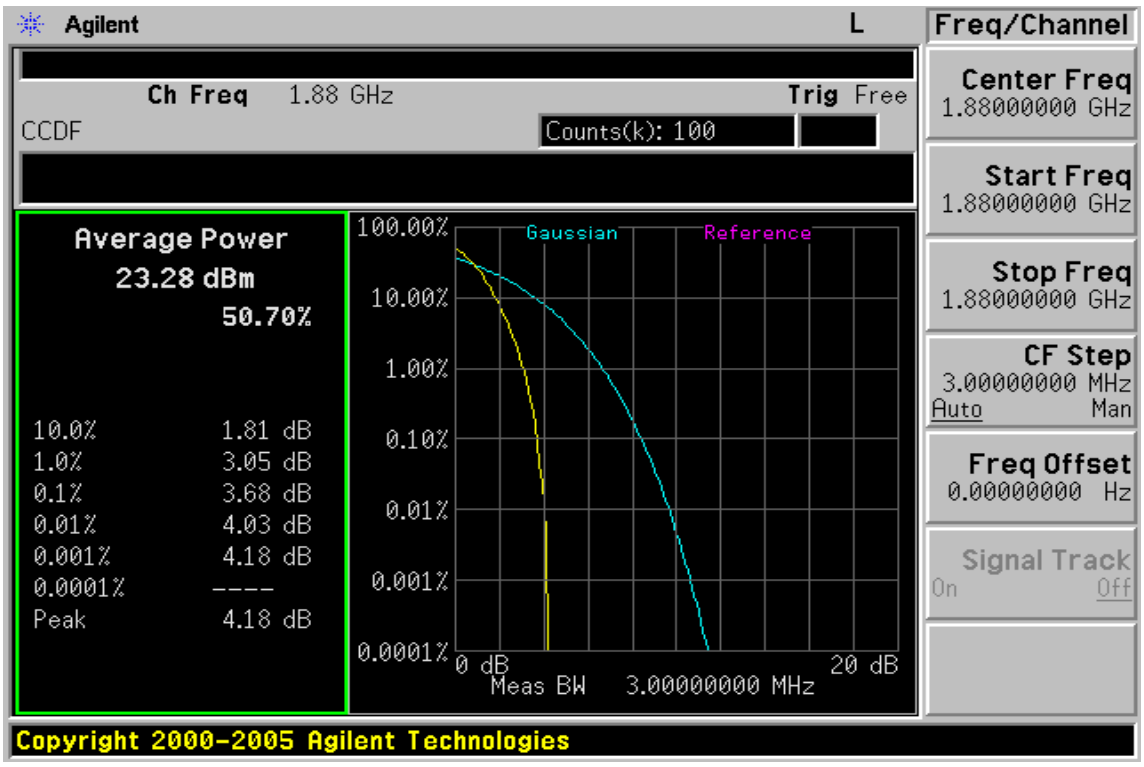


EVDO PCS BC1 Channel Low

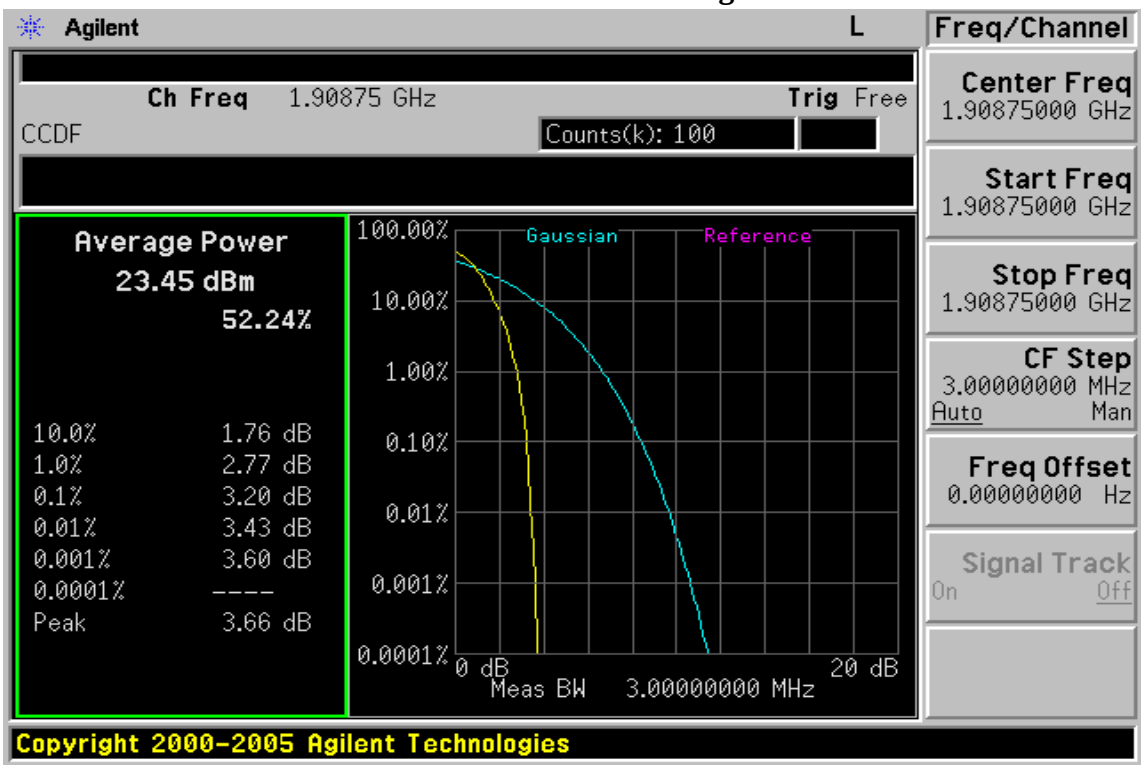


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EVDO BC1 Channel Mid

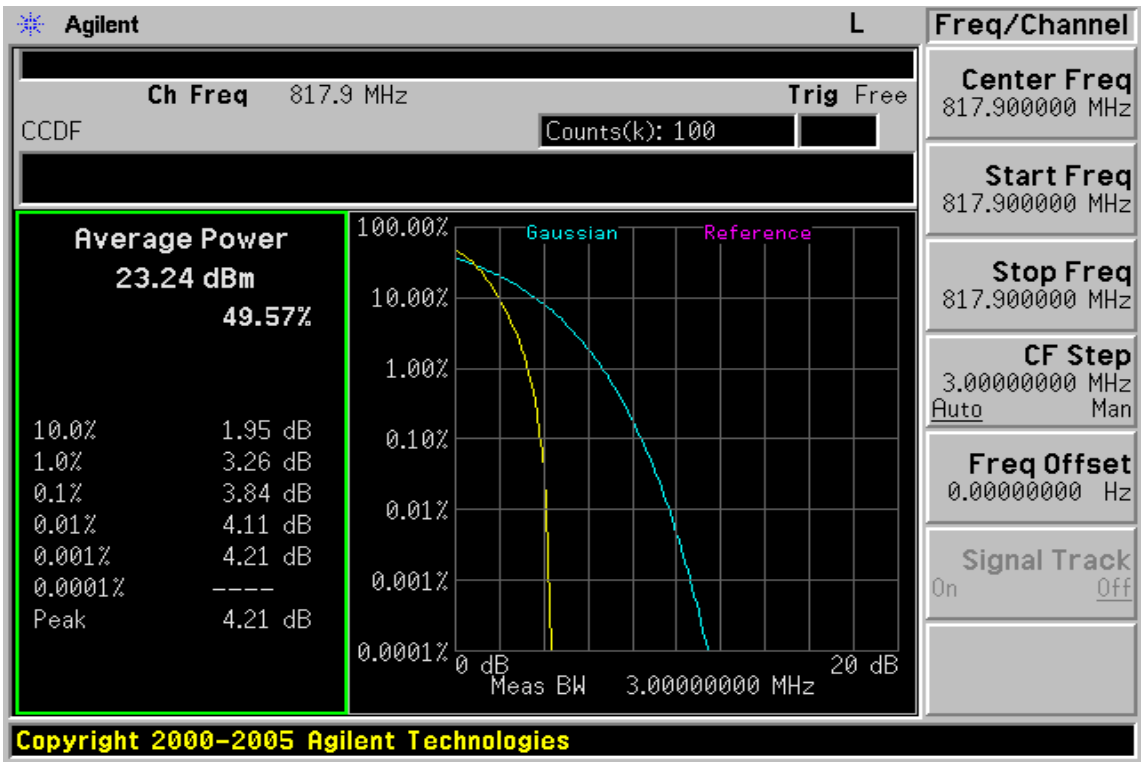


EVDO BC1 Channel High

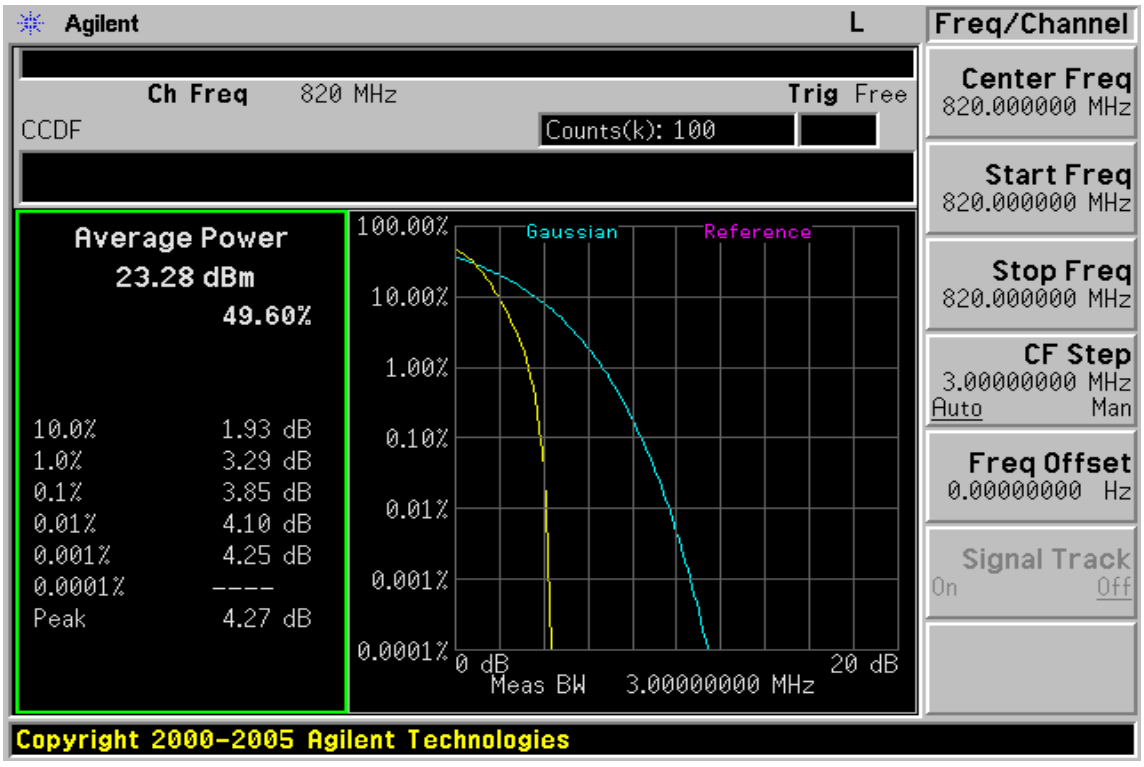


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EVDO BC10 Channel Low

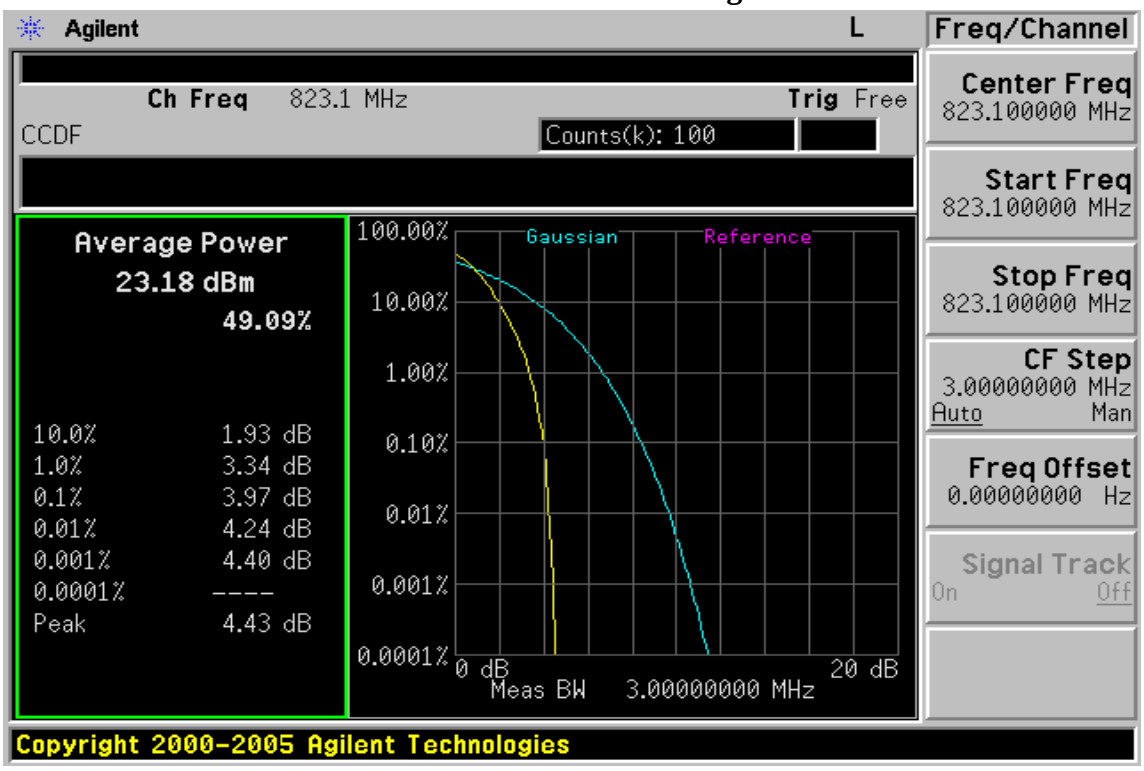


EVDO BC10 Channel Mid

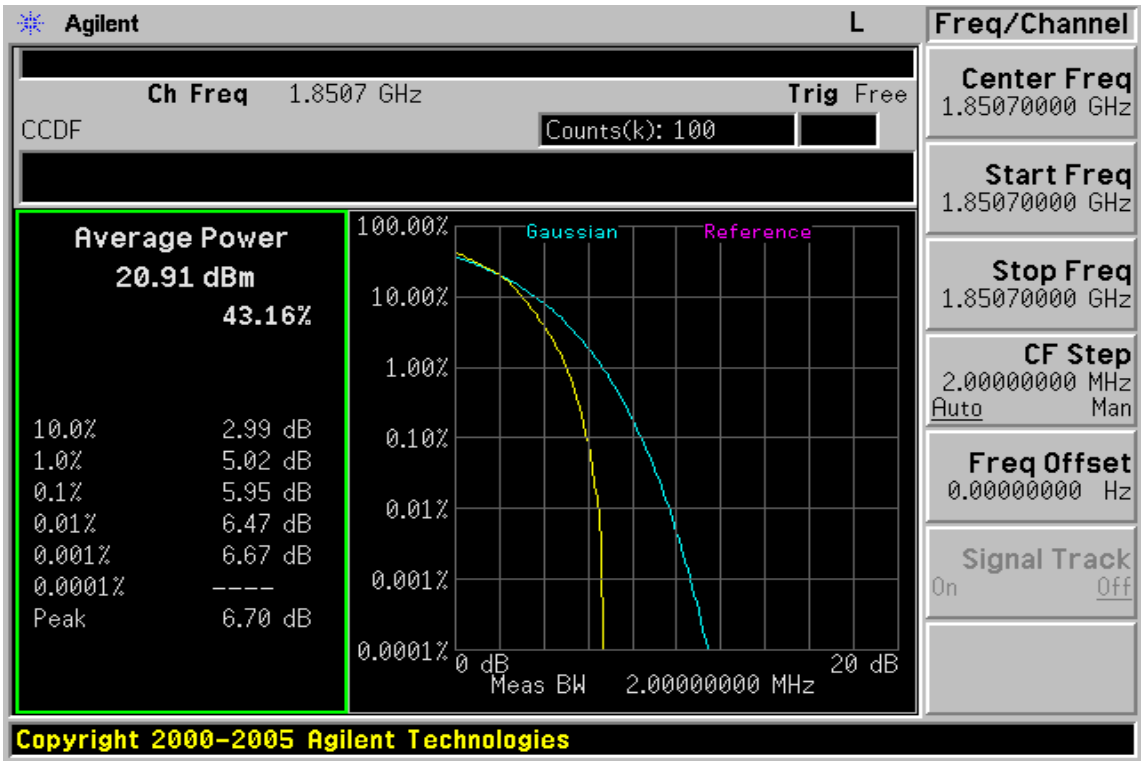


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EVDO BC10 Channel High

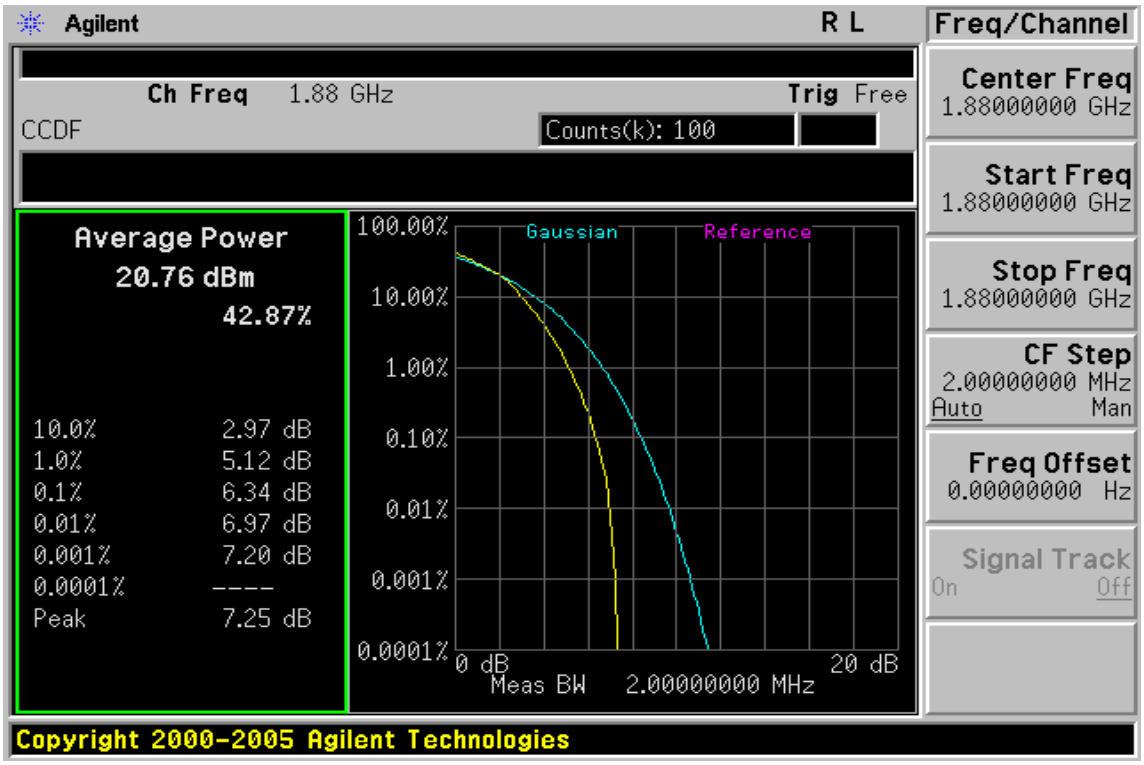


1.4MHz BW LTE-Band 2 16QAM Channel Low

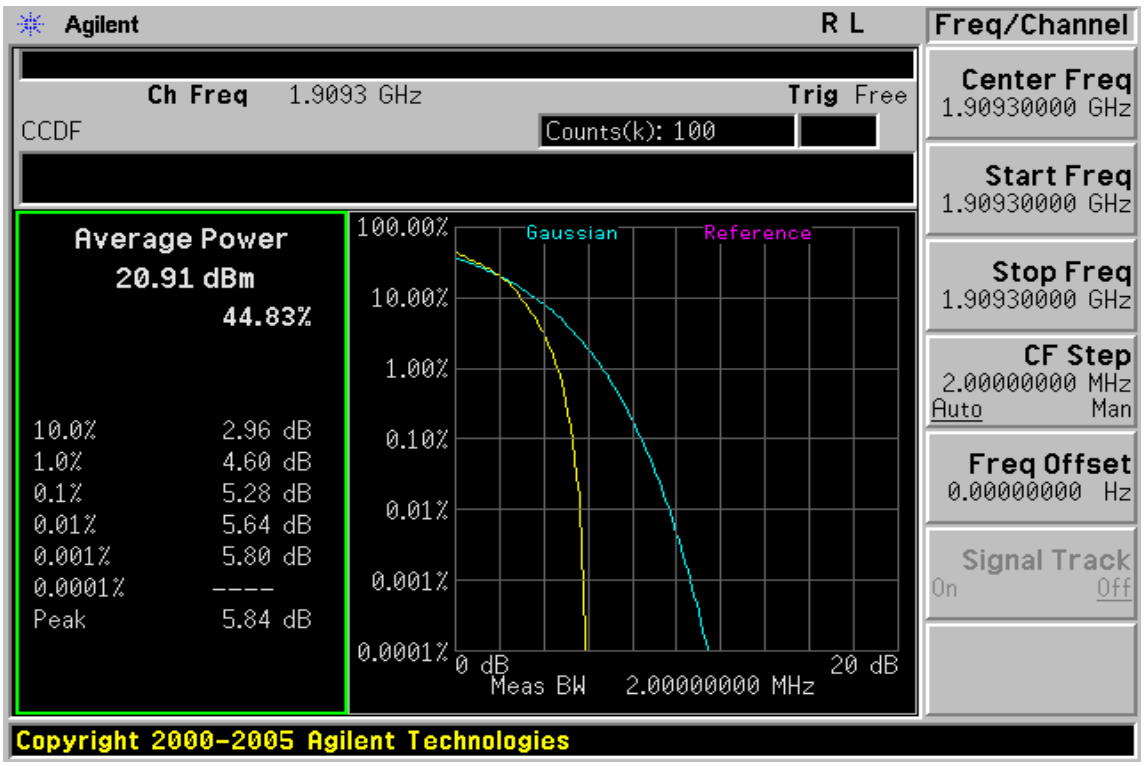


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1.4MHz BW LTE-Band 2 16QAM Channel Mid

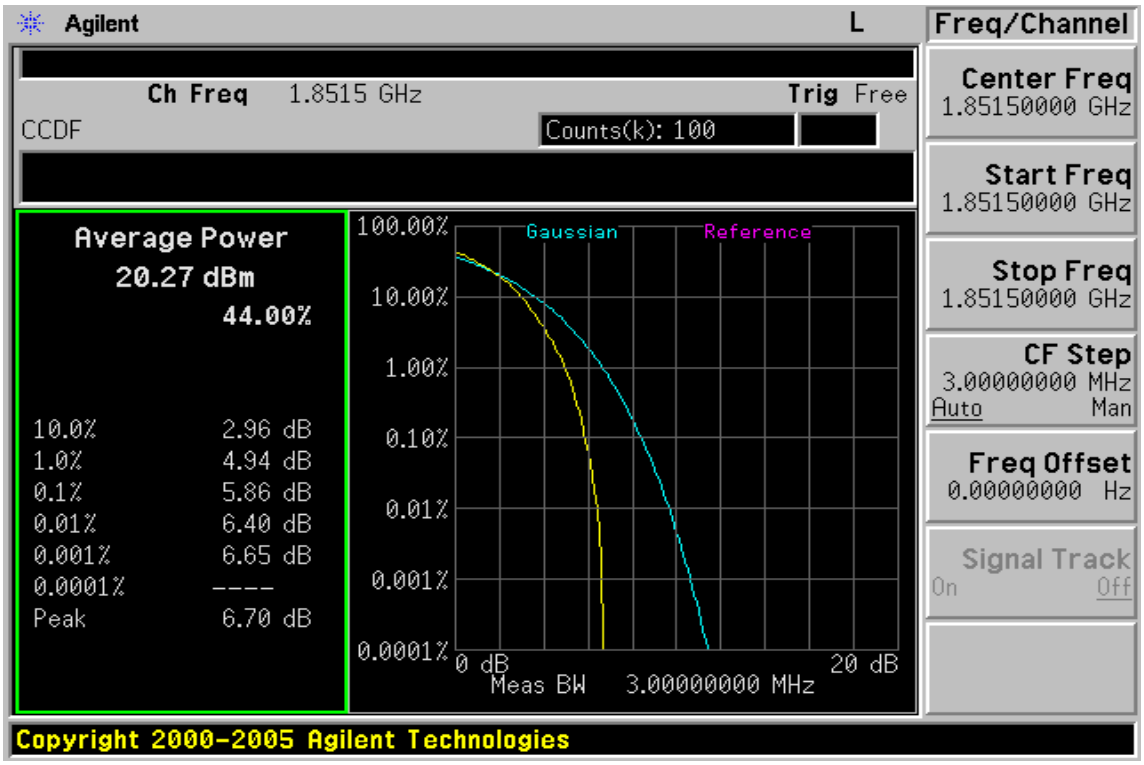


1.4MHz BW LTE-Band 2 16QAM Channel High

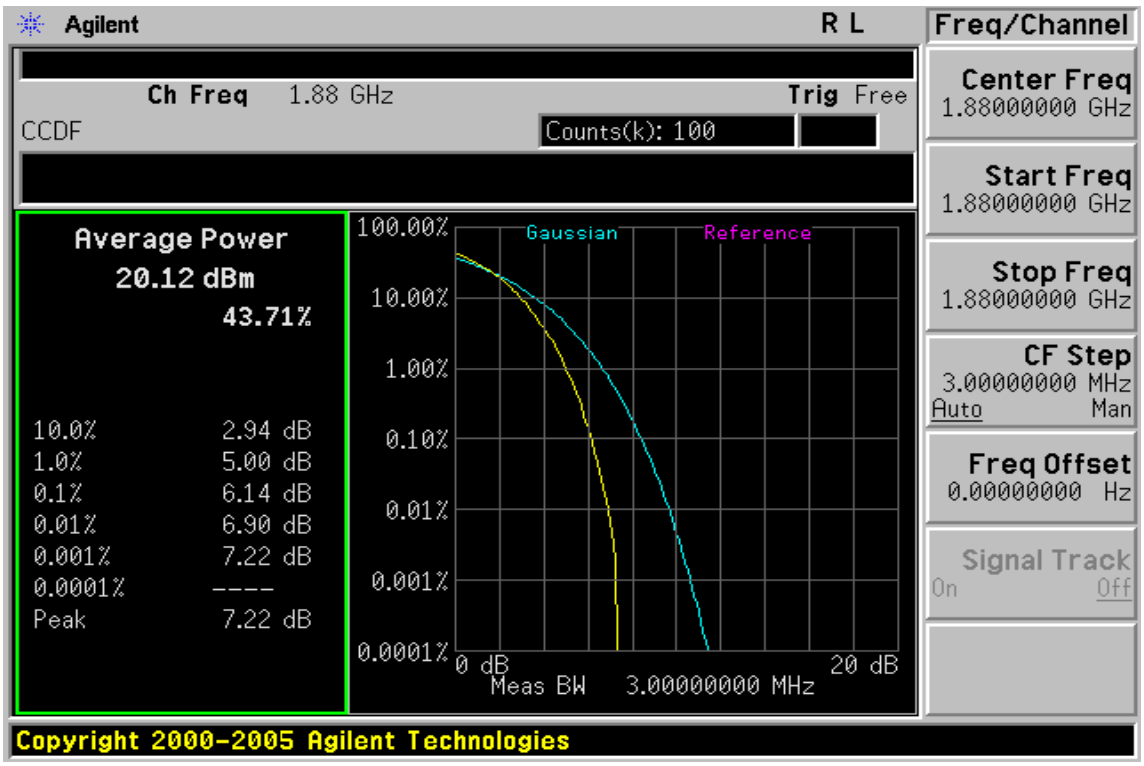


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3MHz BW LTE-Band 2 16QAM Channel Low

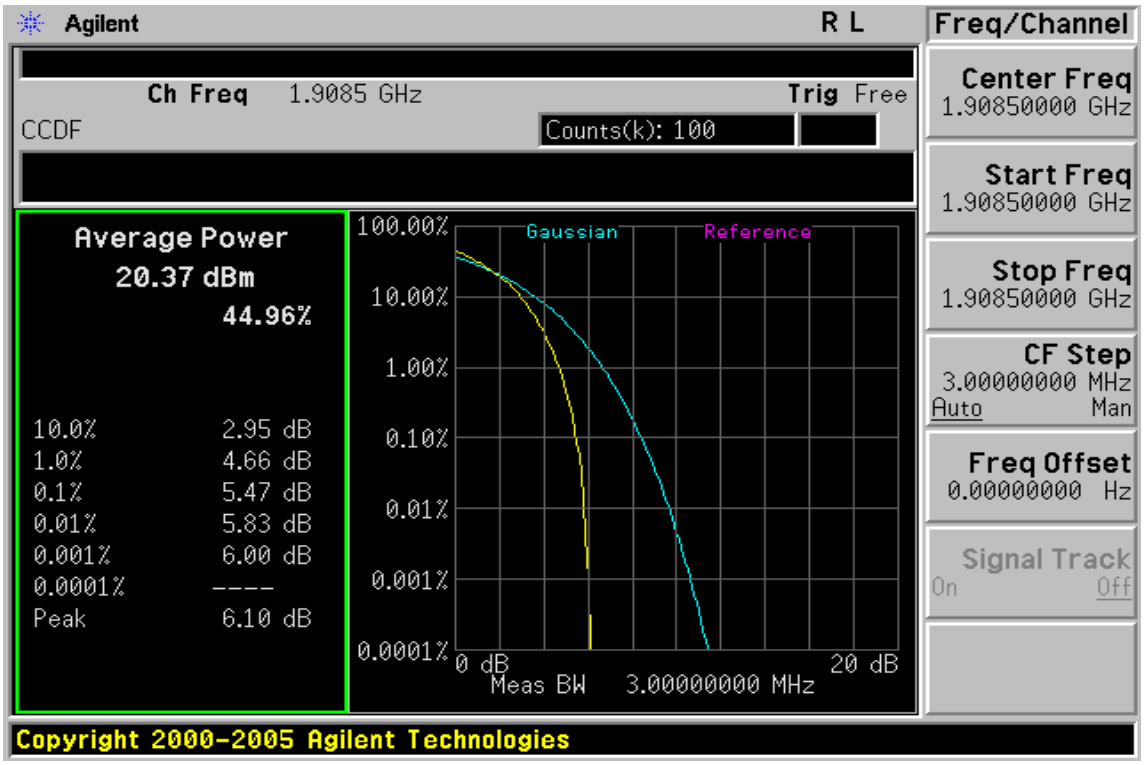


3MHz BW LTE-Band 2 16QAM Channel Mid

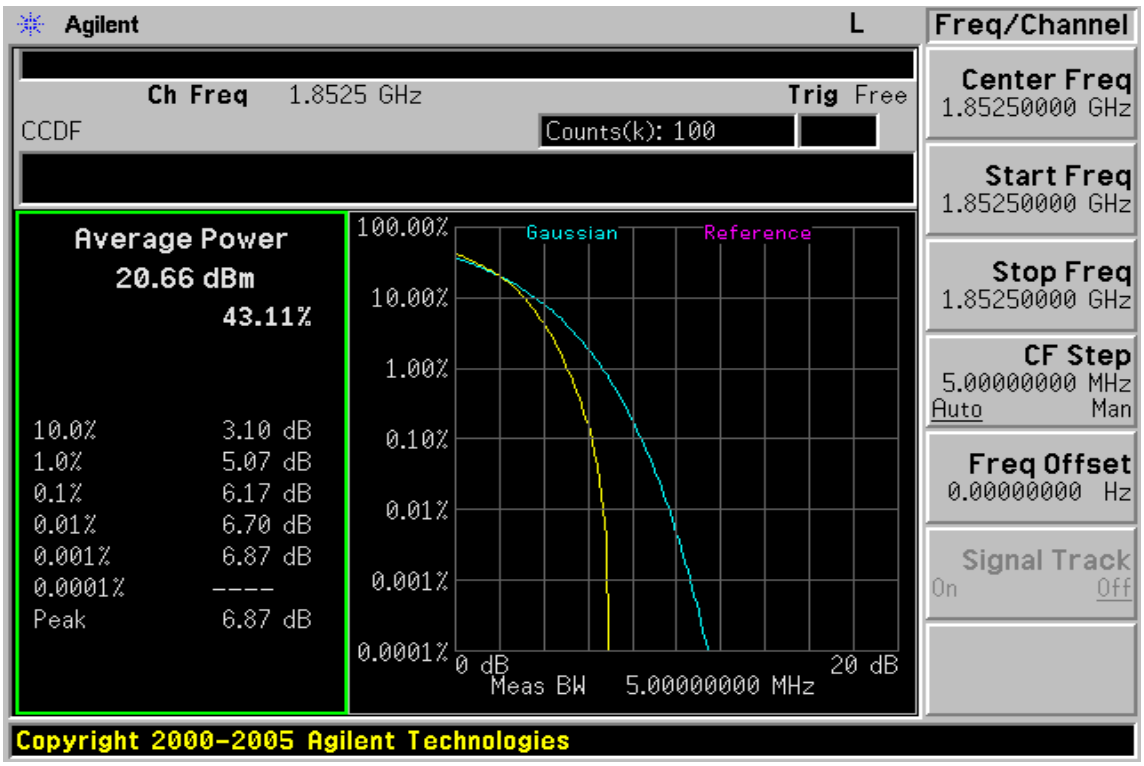


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3MHz BW LTE-Band 2 16QAM Channel High

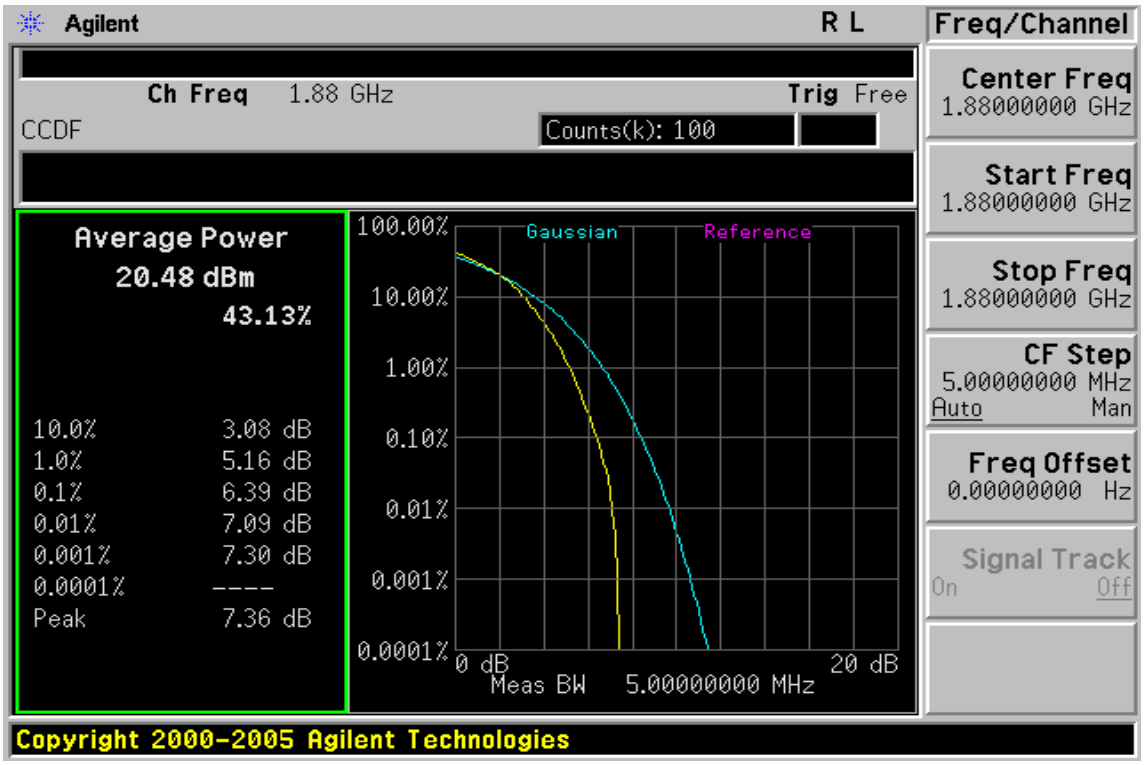


5MHz BW LTE-Band 2 16QAM Channel Low

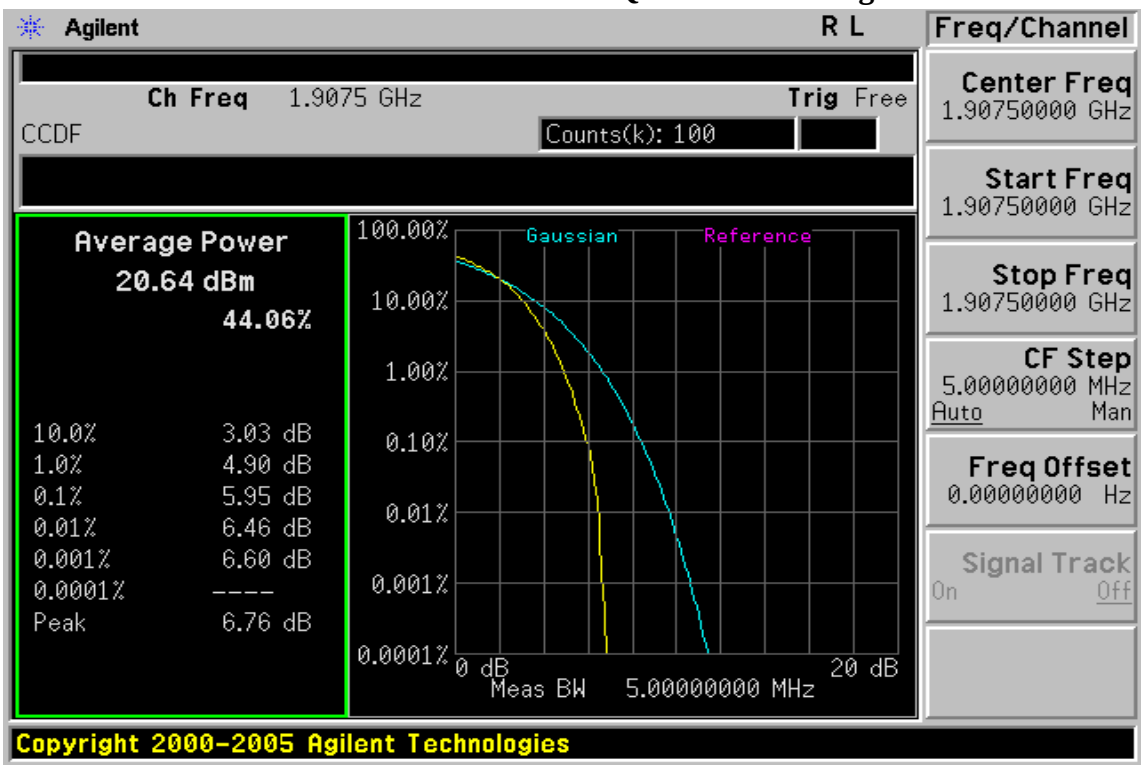


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5MHz BW LTE-Band 2 16QAM Channel Mid

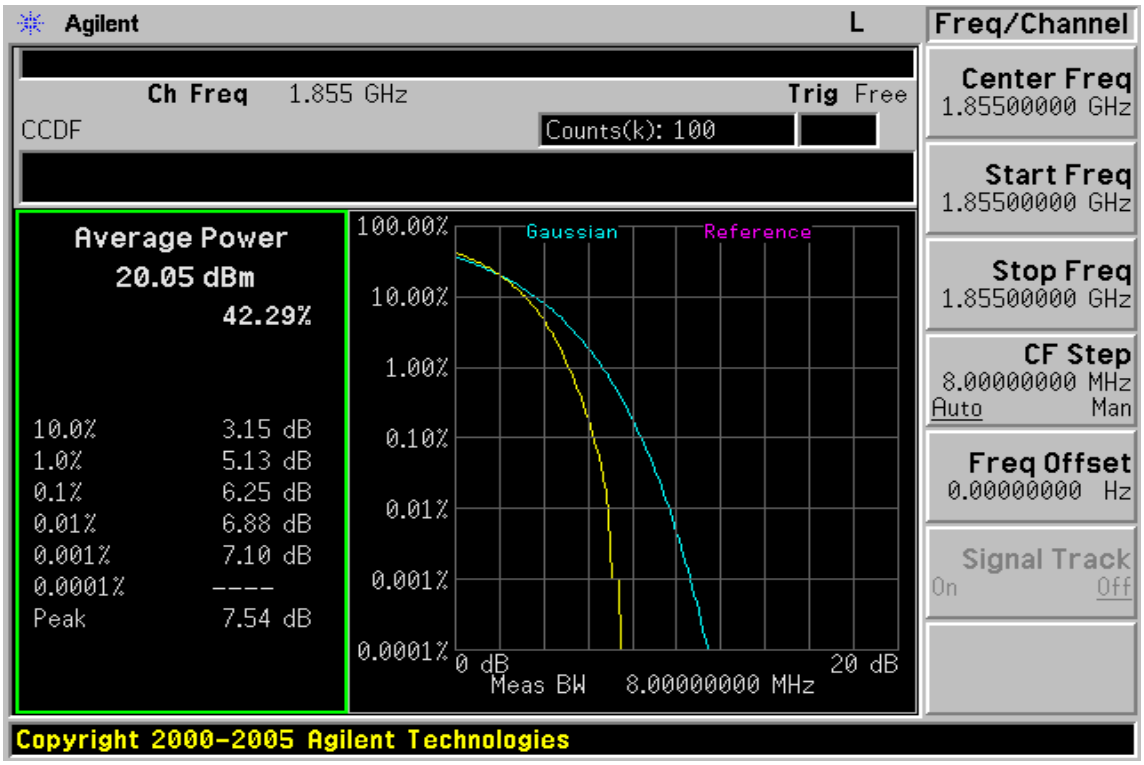


5MHz BW LTE-Band 2 16QAM Channel High

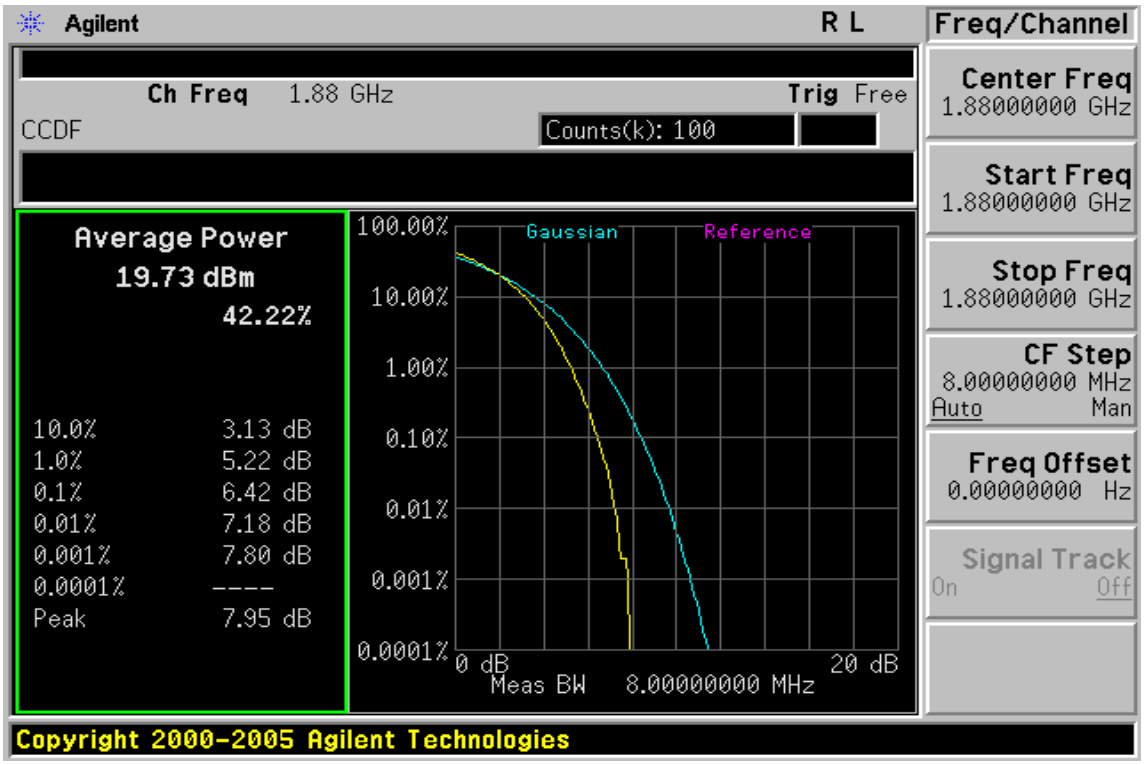


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10MHz BW LTE-Band 2 16QAM Channel Low

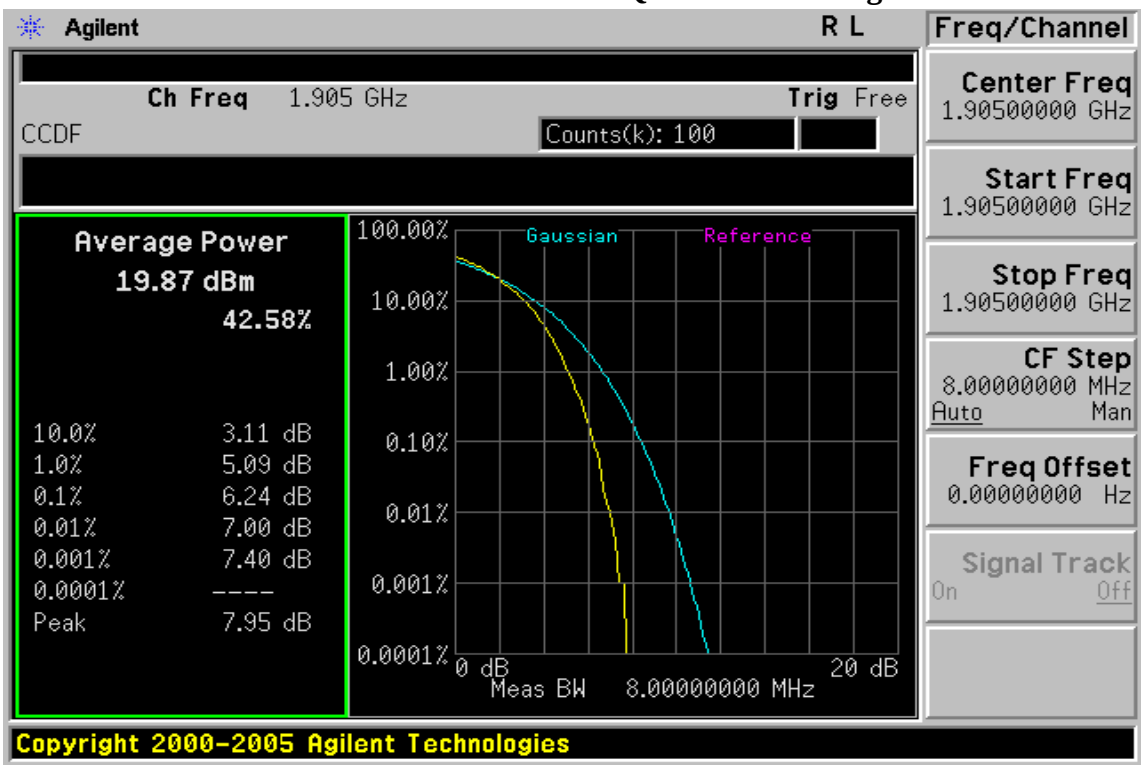


10MHz BW LTE-Band 2 16QAM Channel Mid

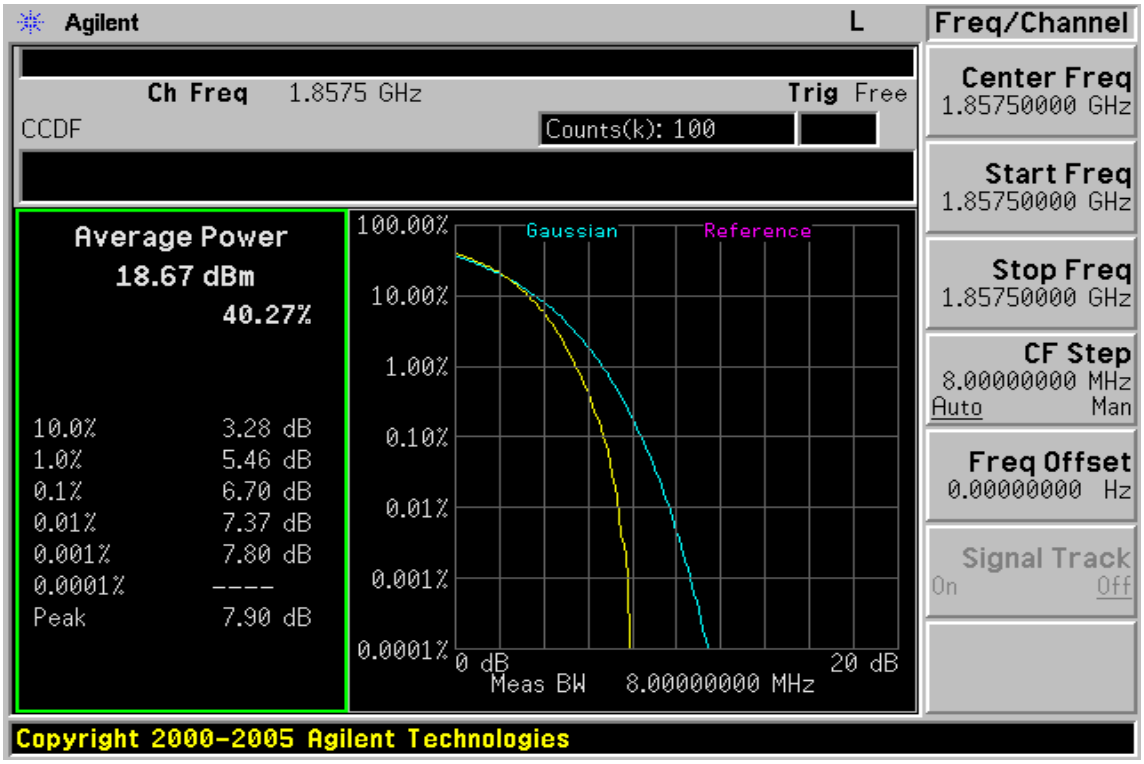


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10MHz BW LTE-Band 2 16QAM Channel High

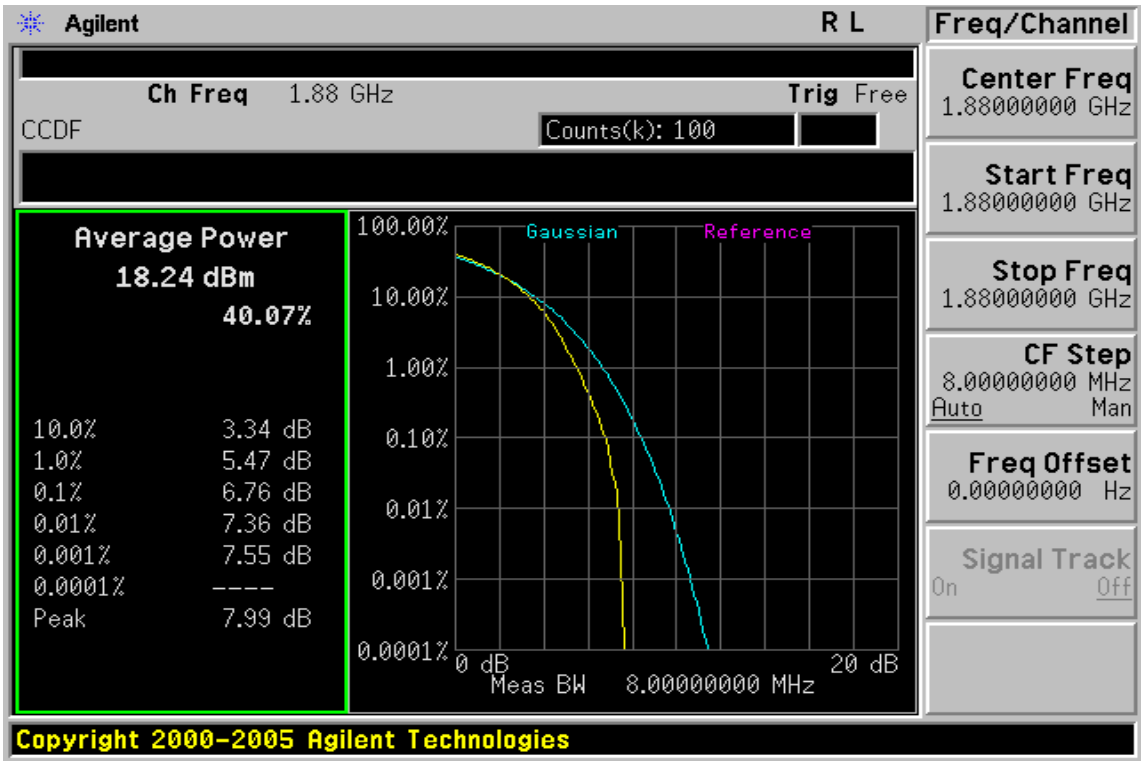


15MHz BW LTE-Band 2 16QAM Channel Low

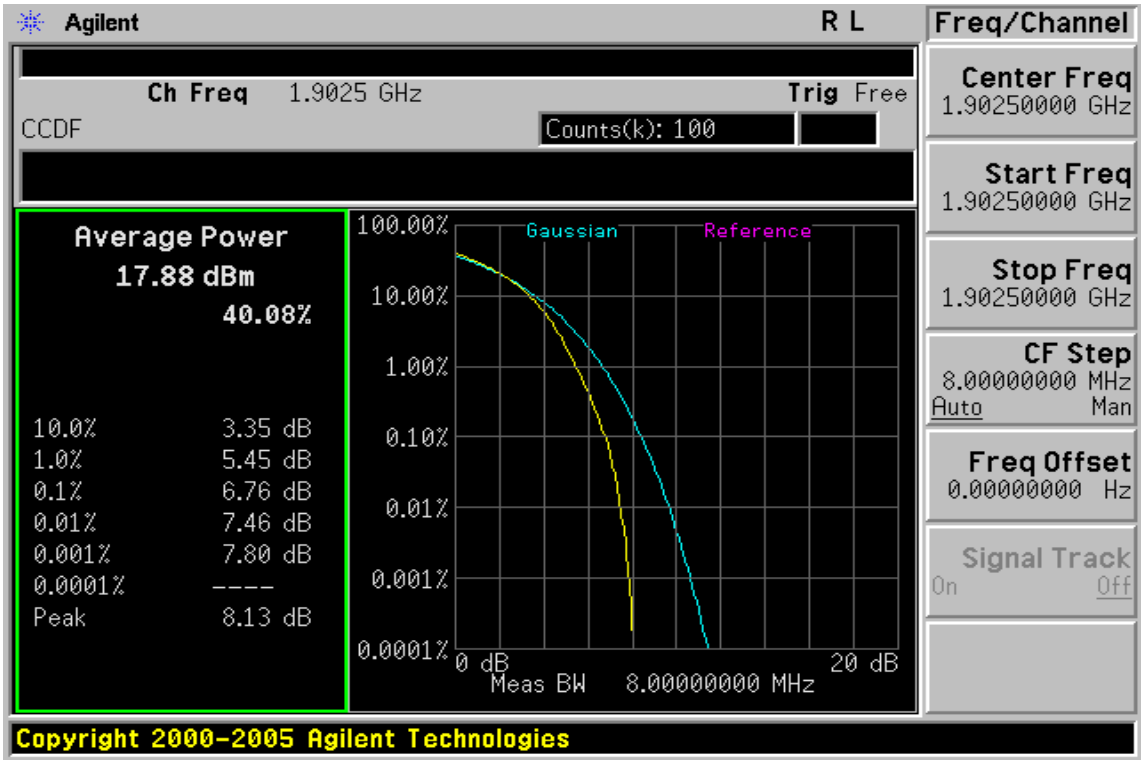


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15MHz BW LTE-Band 2 16QAM Channel Mid

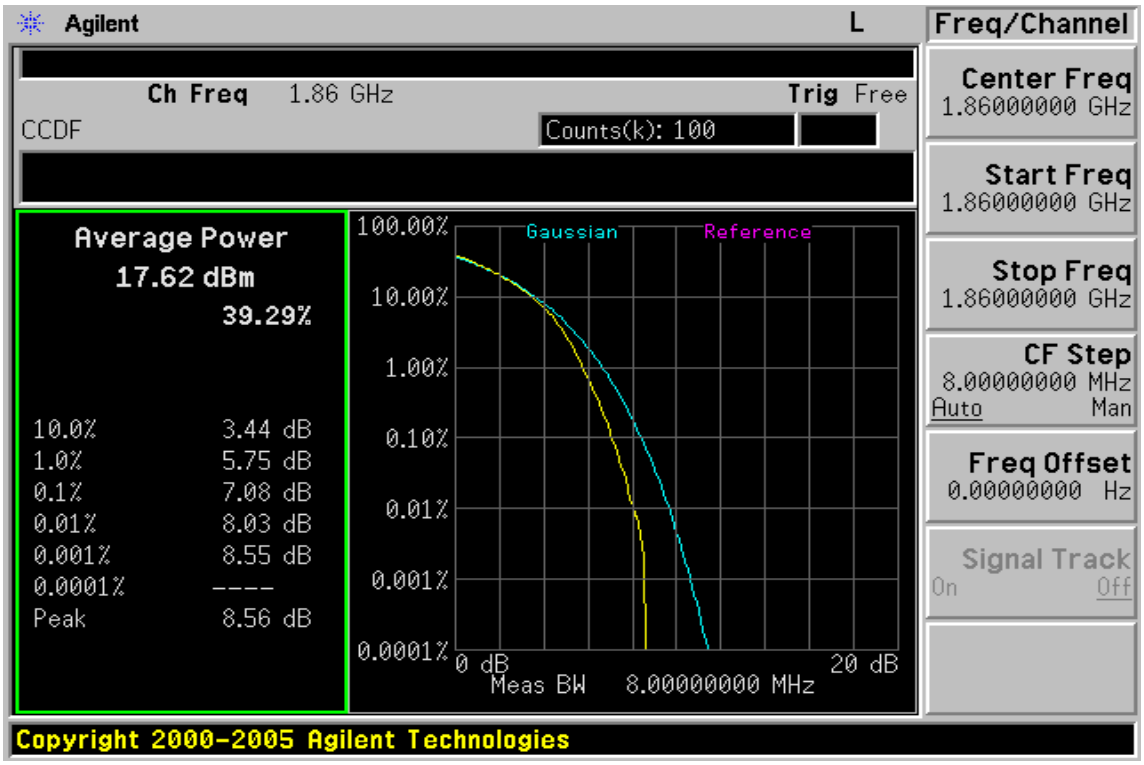


15MHz BW LTE-Band 2 16QAM Channel High

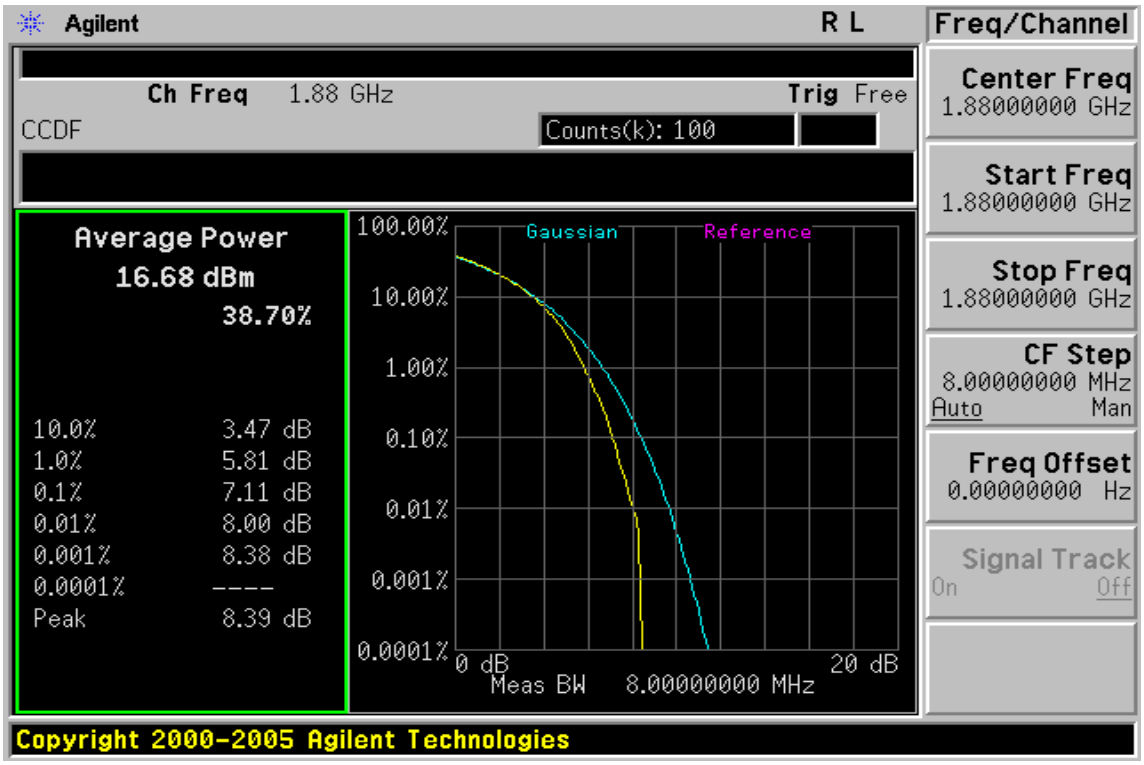


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20MHz BW LTE-Band 2 16QAM Channel Low

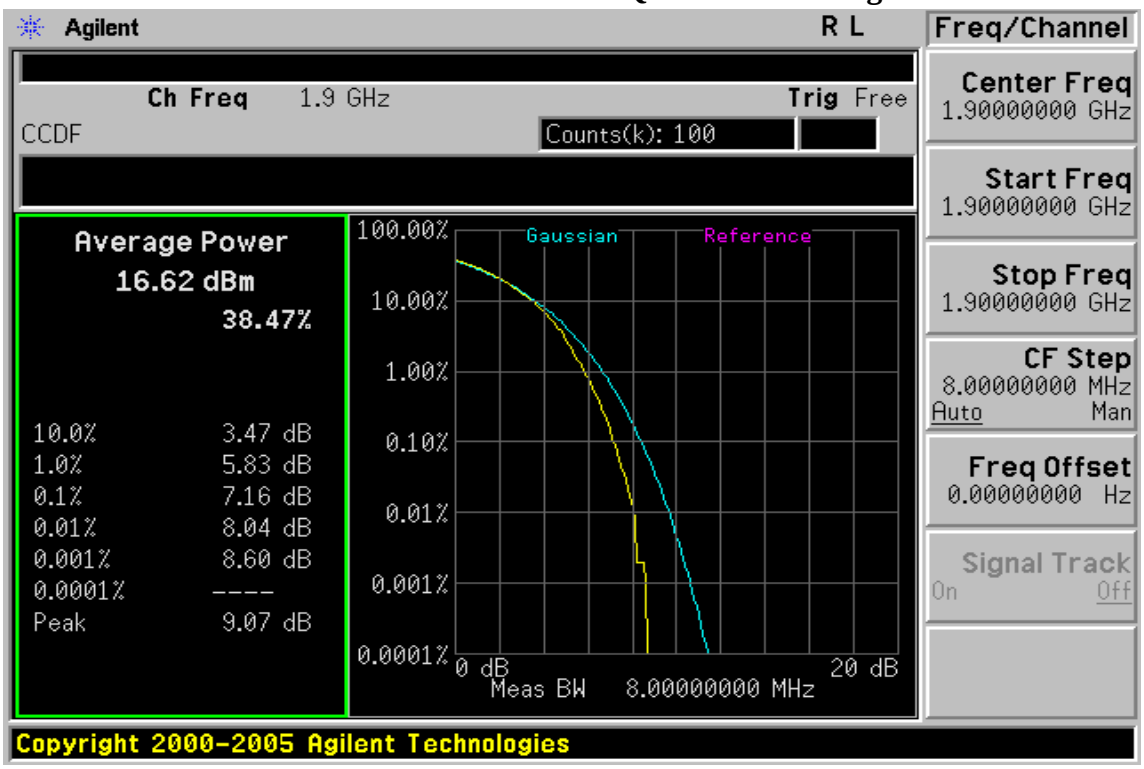


20MHz BW LTE-Band 2 16QAM Channel Mid

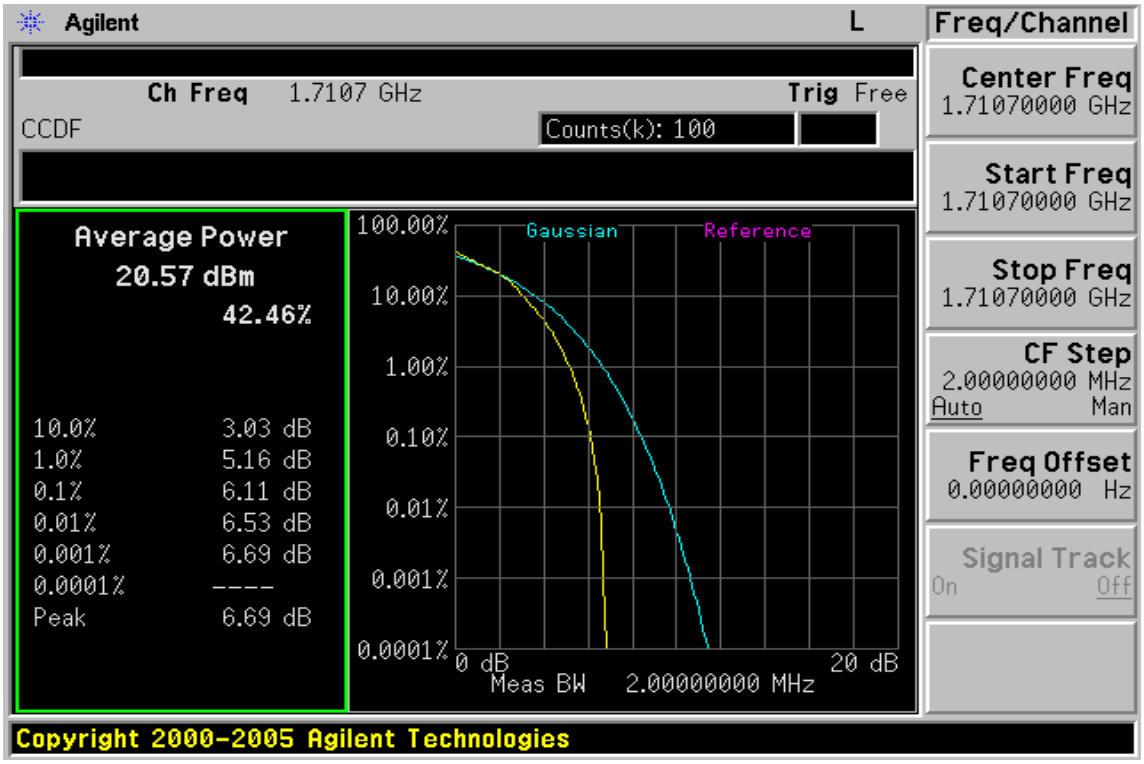


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20MHz BW LTE-Band 2 16QAM Channel High

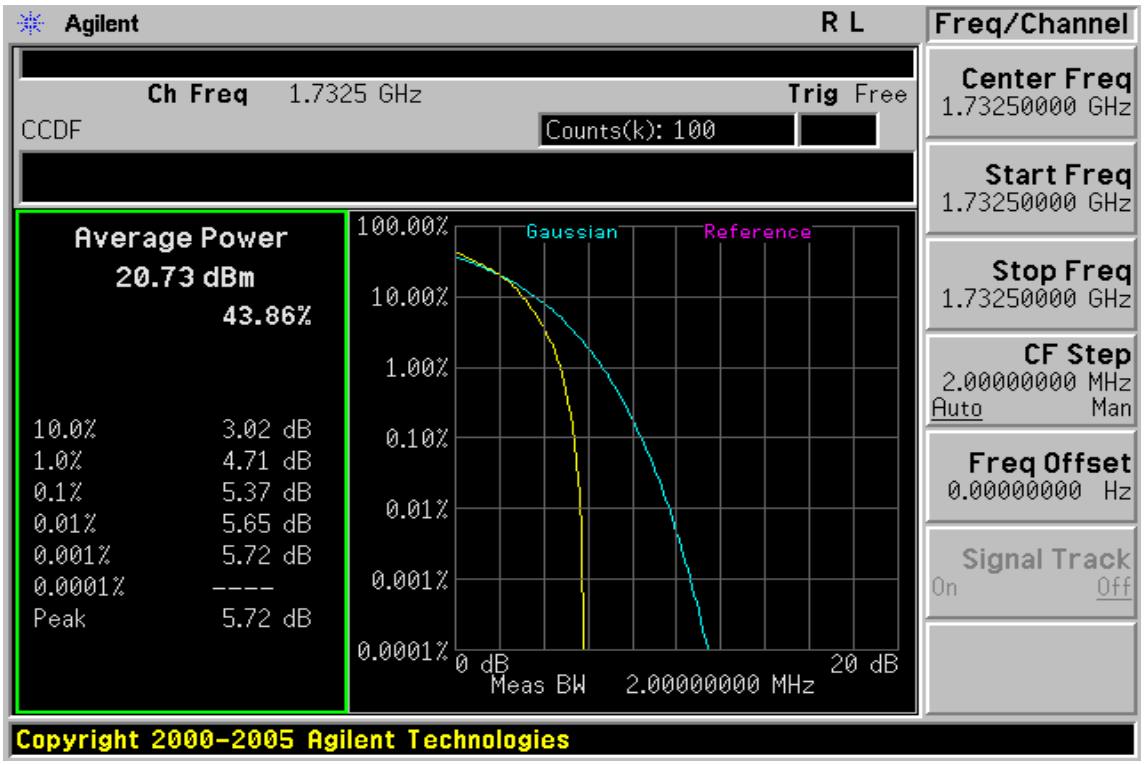


1.4MHz BW LTE-Band 4 16QAM Channel Low

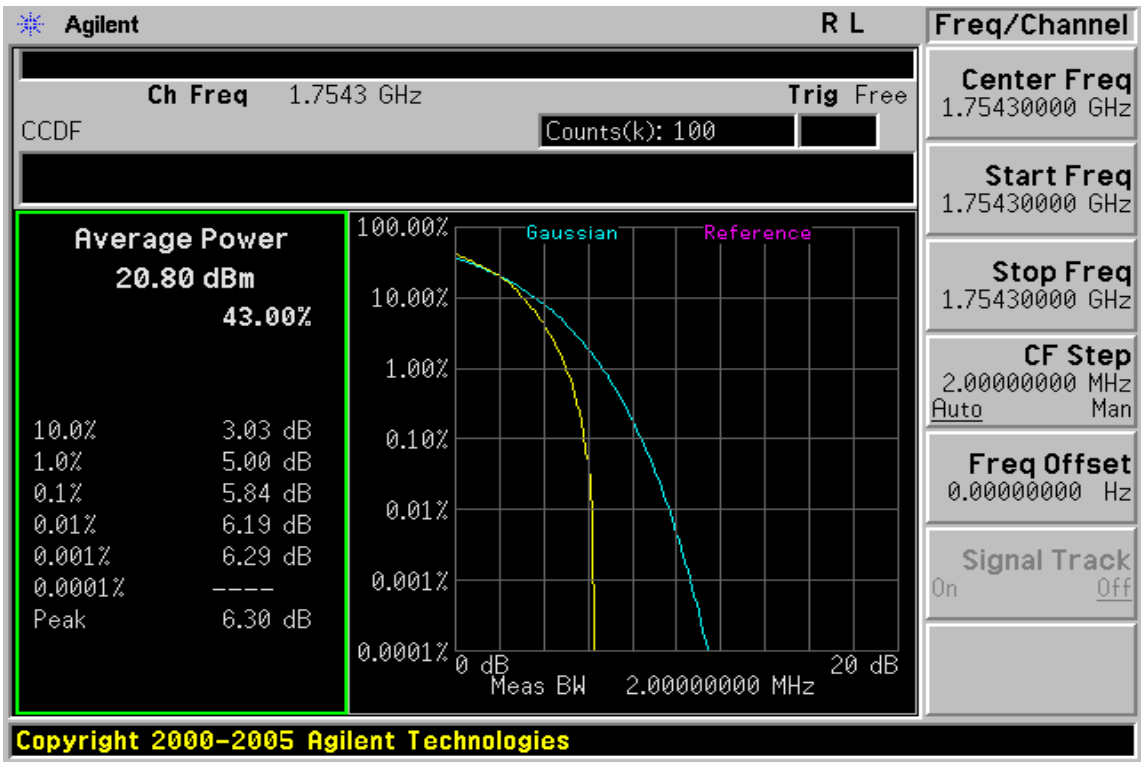


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1.4MHz BW LTE-Band 4 16QAM Channel Mid

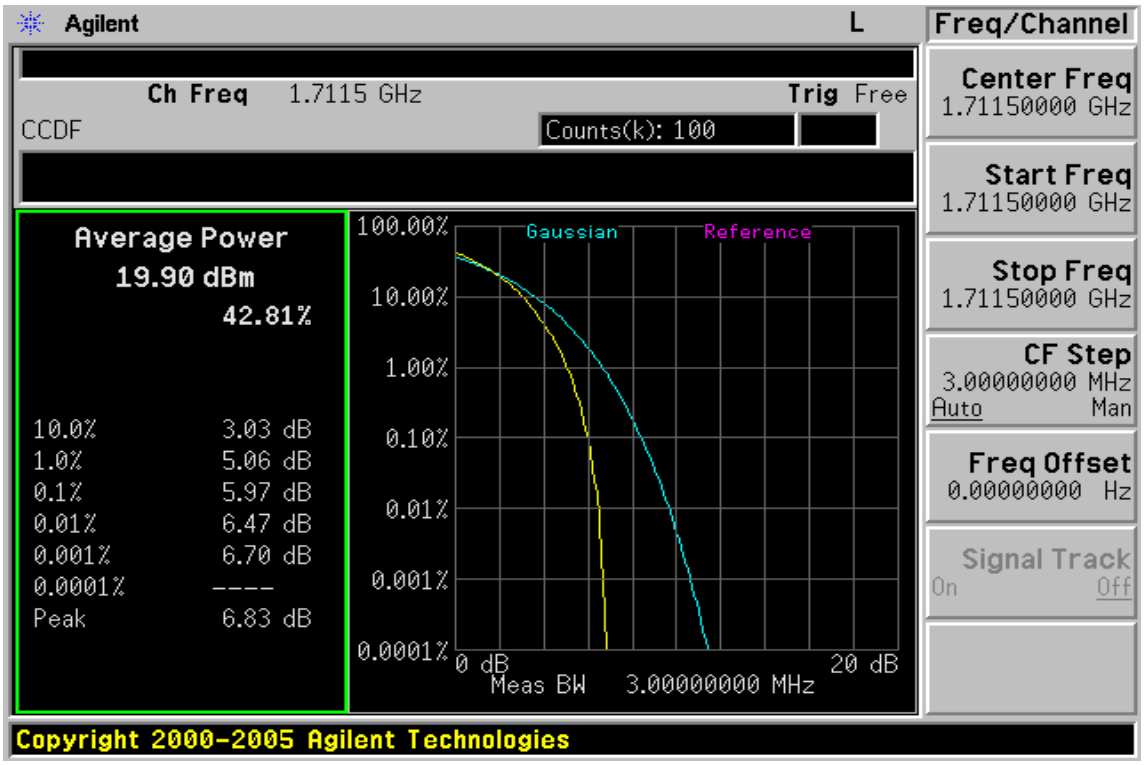


1.4MHz BW LTE-Band 4 16QAM Channel High

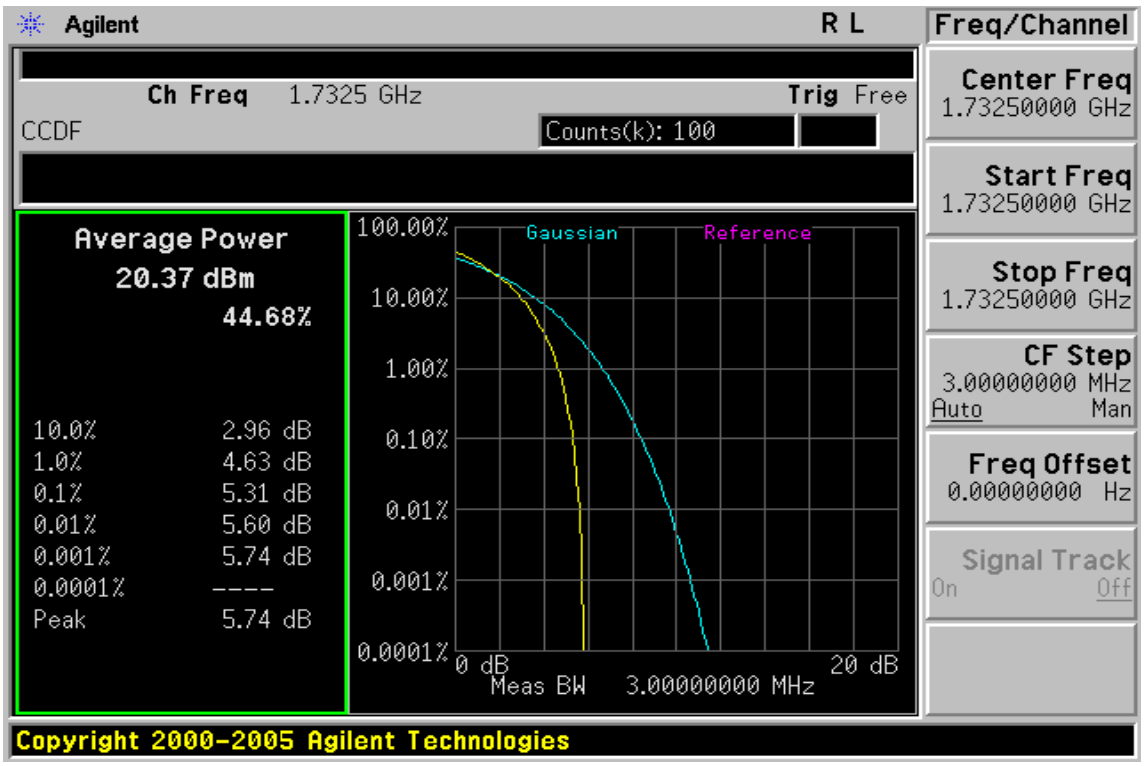


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3MHz BW LTE-Band 4 16QAM Channel Low

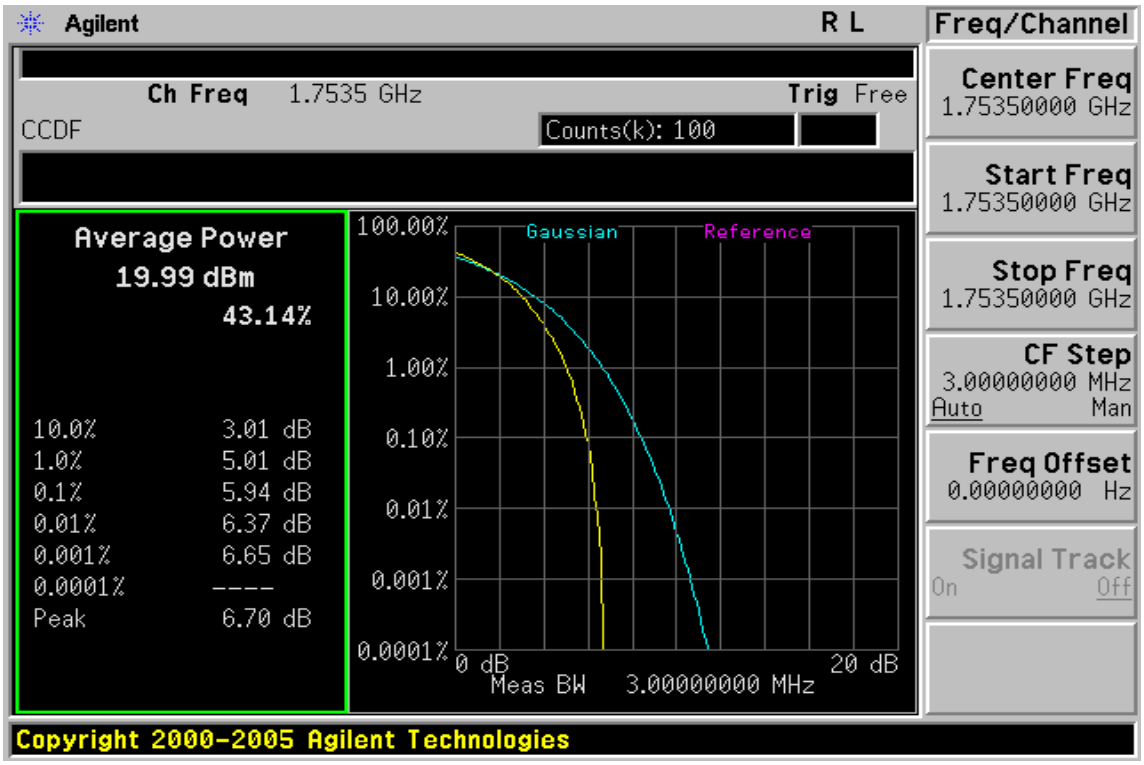


3MHz BW LTE-Band 4 16QAM Channel Mid

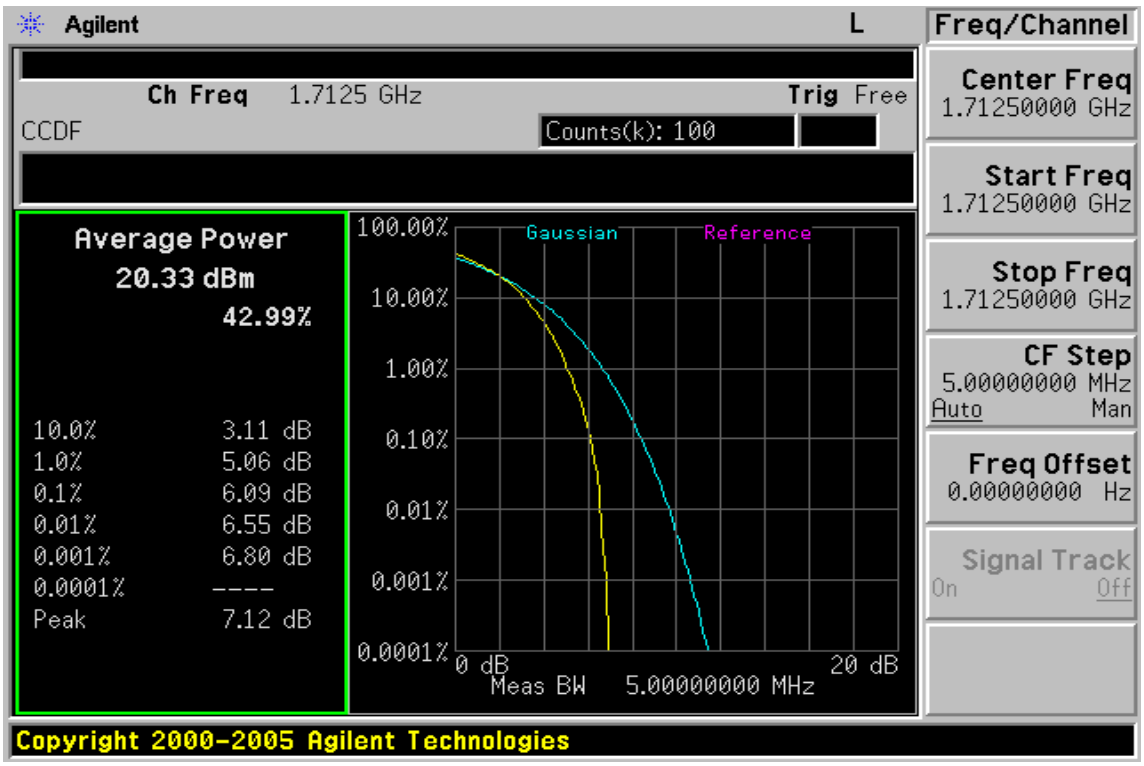


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3MHz BW LTE-Band 4 16QAM Channel High

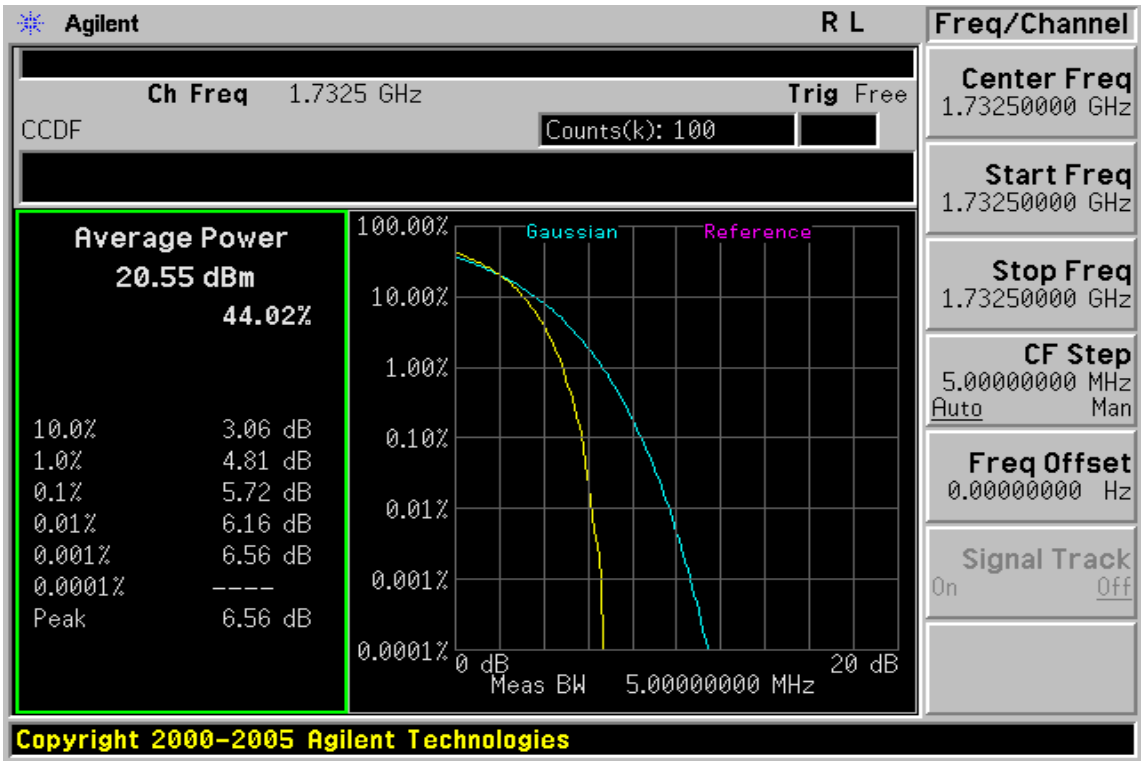


5MHz BW LTE-Band 4 16QAM Channel Low

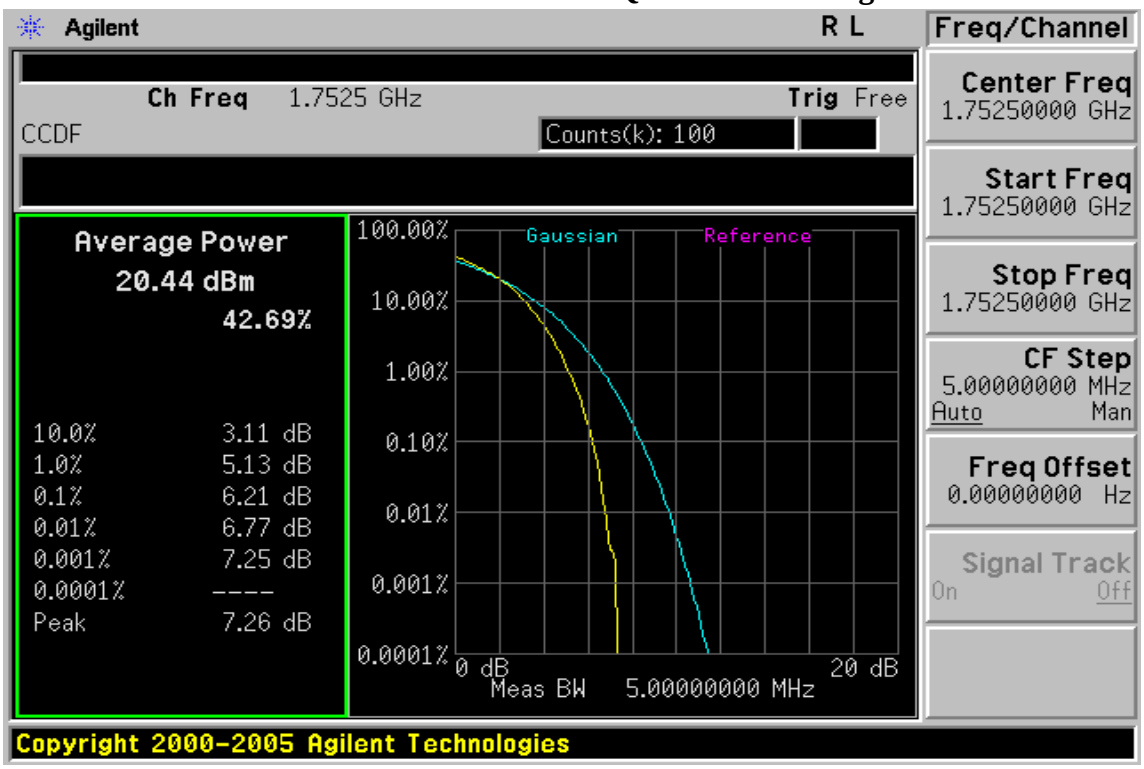


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5MHz BW LTE-Band 4 16QAM Channel Mid

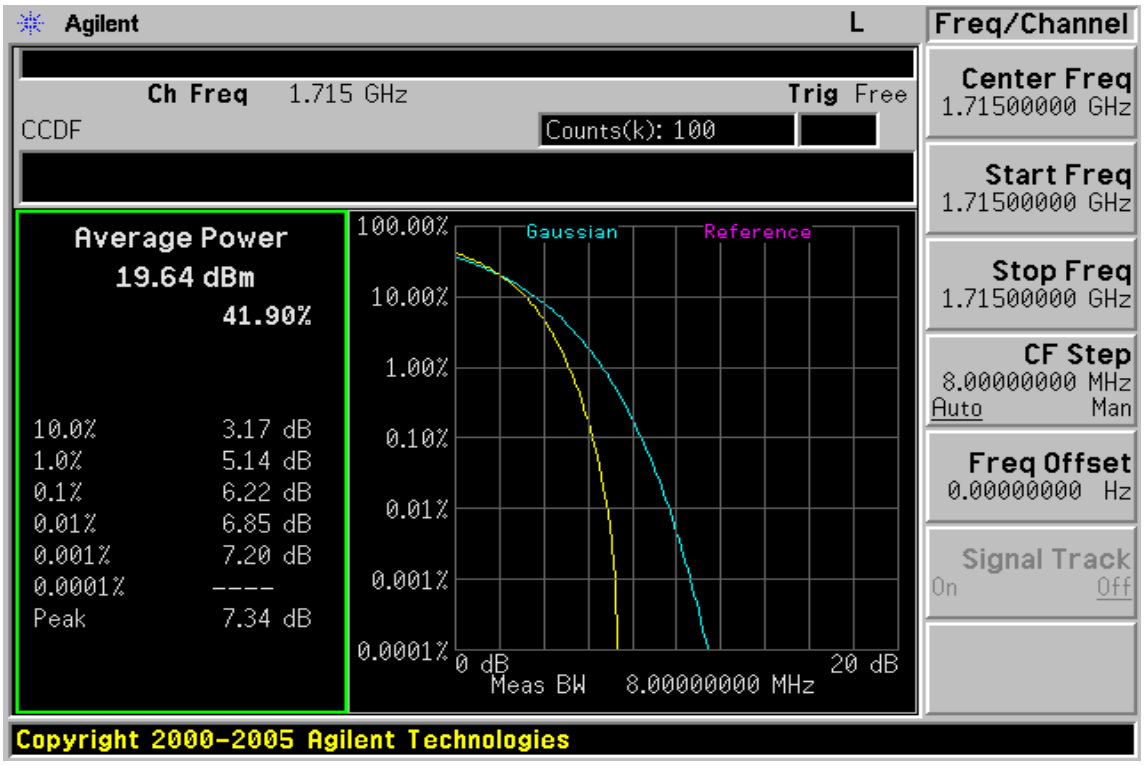


5MHz BW LTE-Band 4 16QAM Channel High

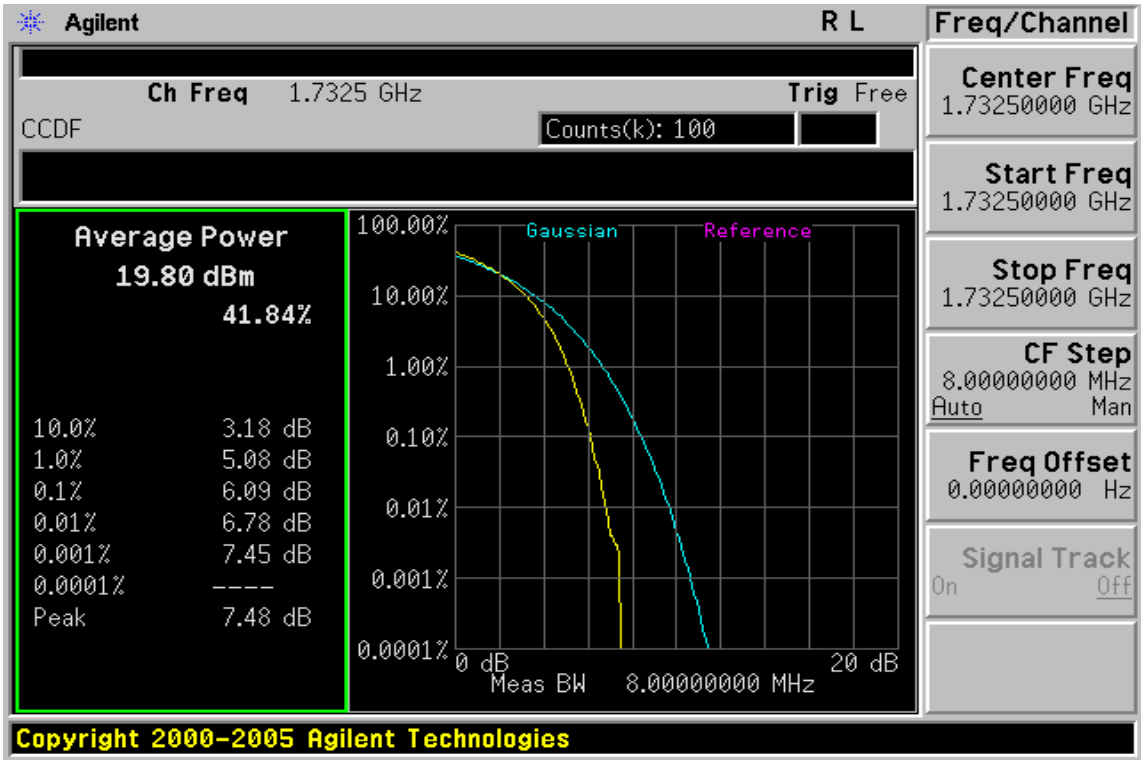


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10MHz BW LTE-Band 4 16QAM Channel Low

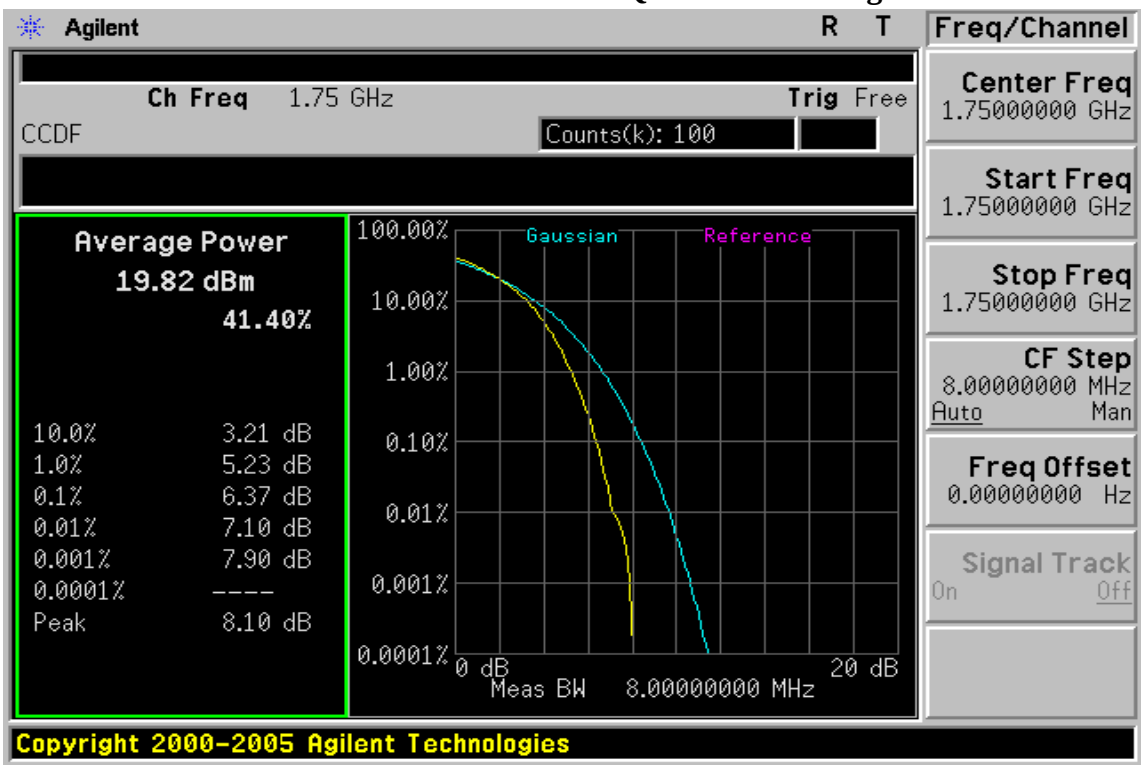


10MHz BW LTE-Band 4 16QAM Channel Mid

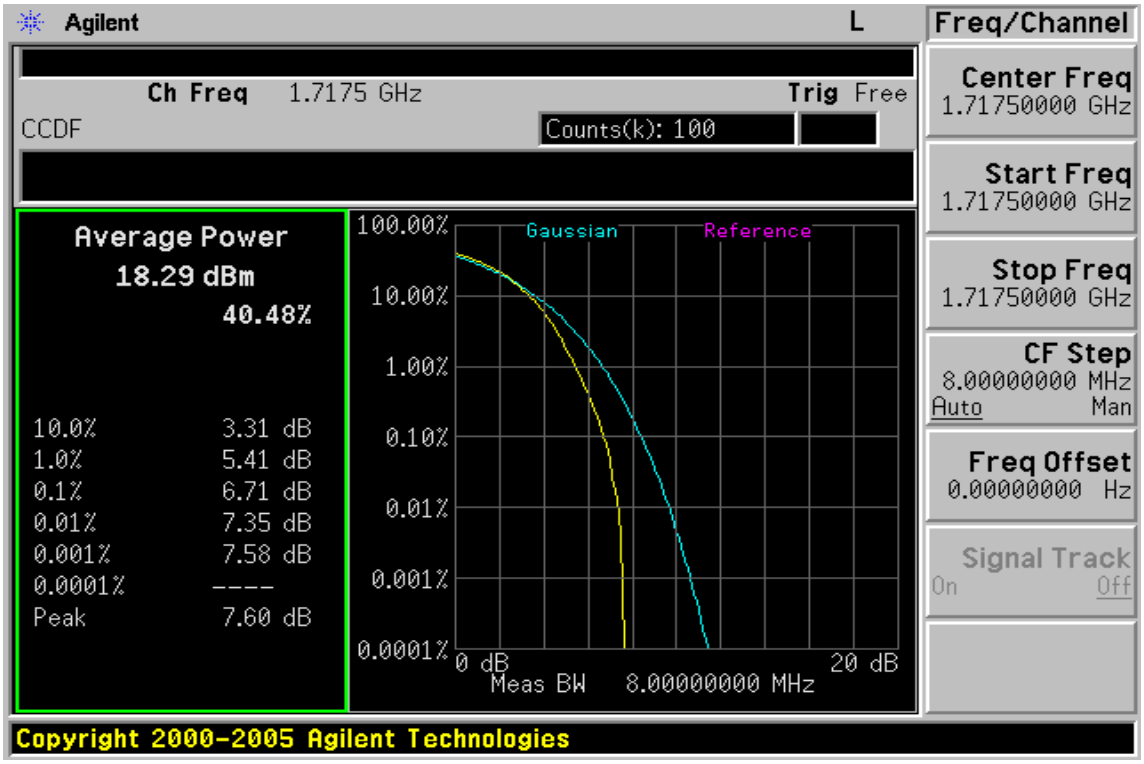


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10MHz BW LTE-Band 4 16QAM Channel High

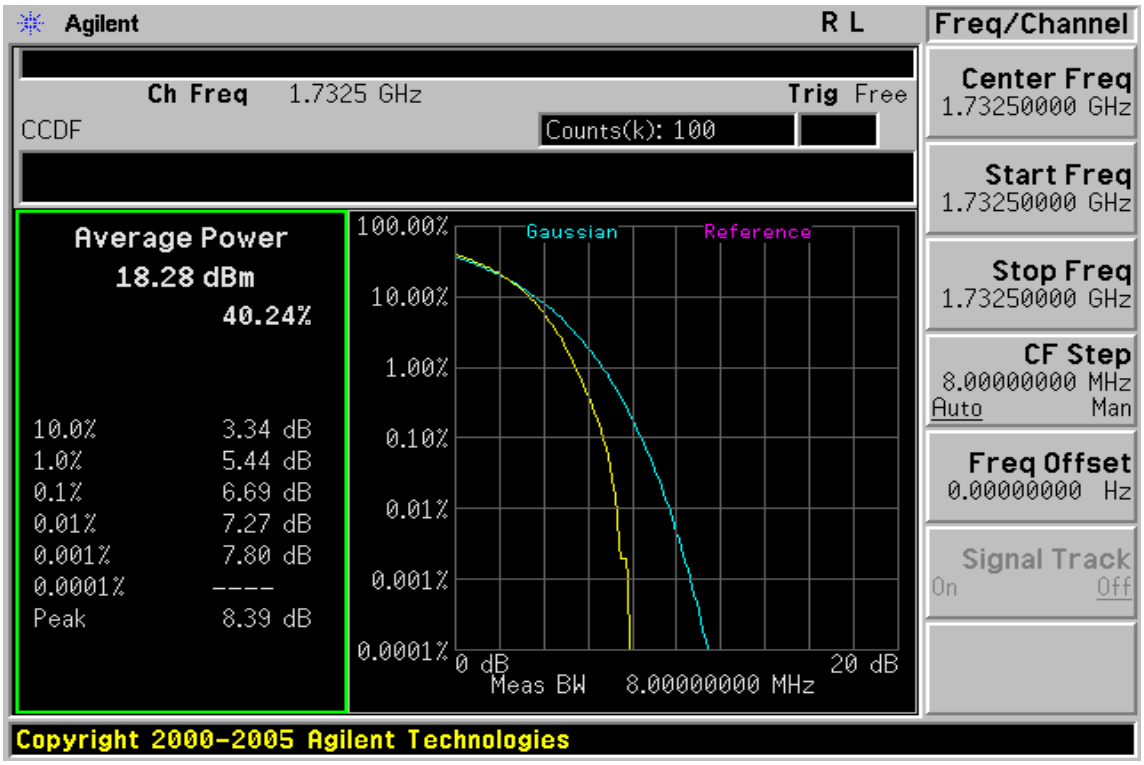


15MHz BW LTE-Band 4 16QAM Channel Low

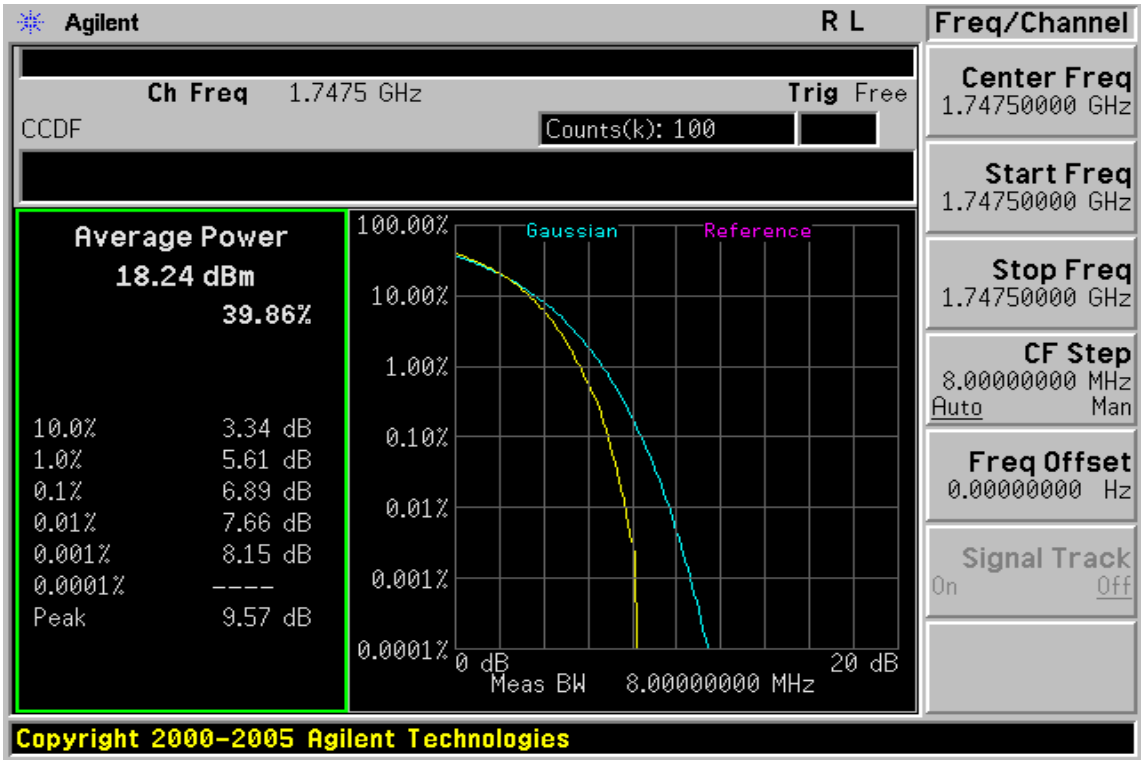


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15MHz BW LTE-Band 4 16QAM Channel Mid

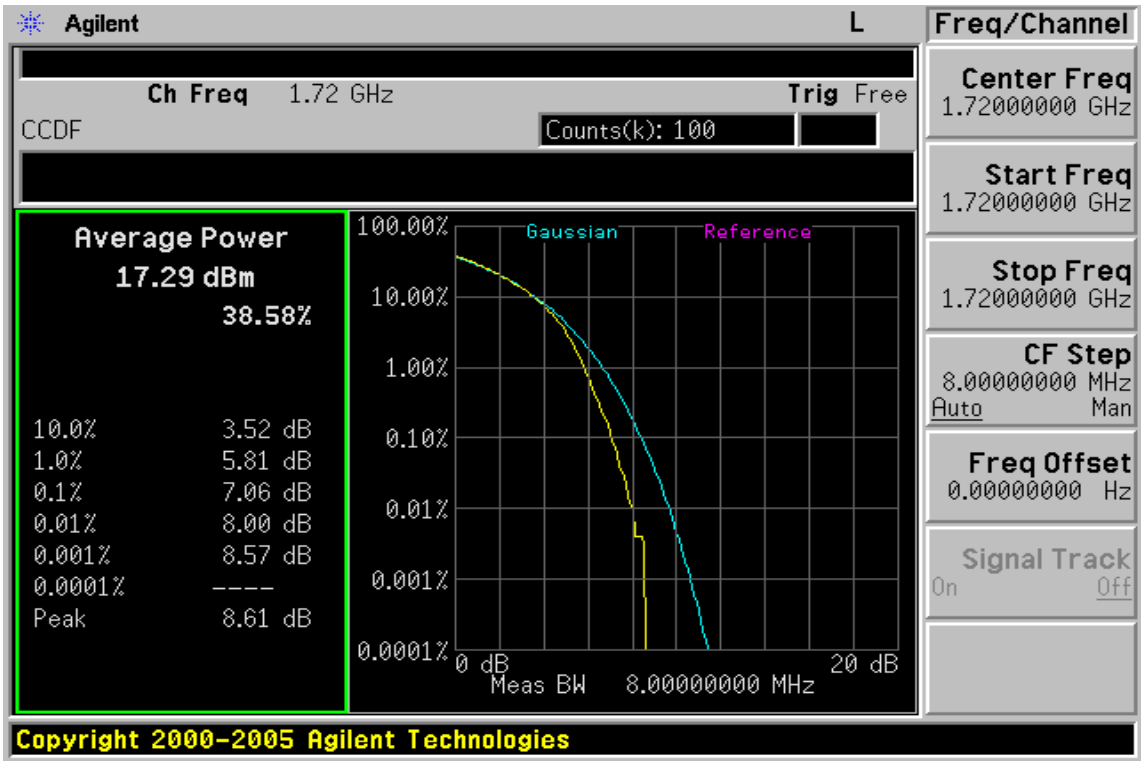


15MHz BW LTE-Band 4 16QAM Channel High

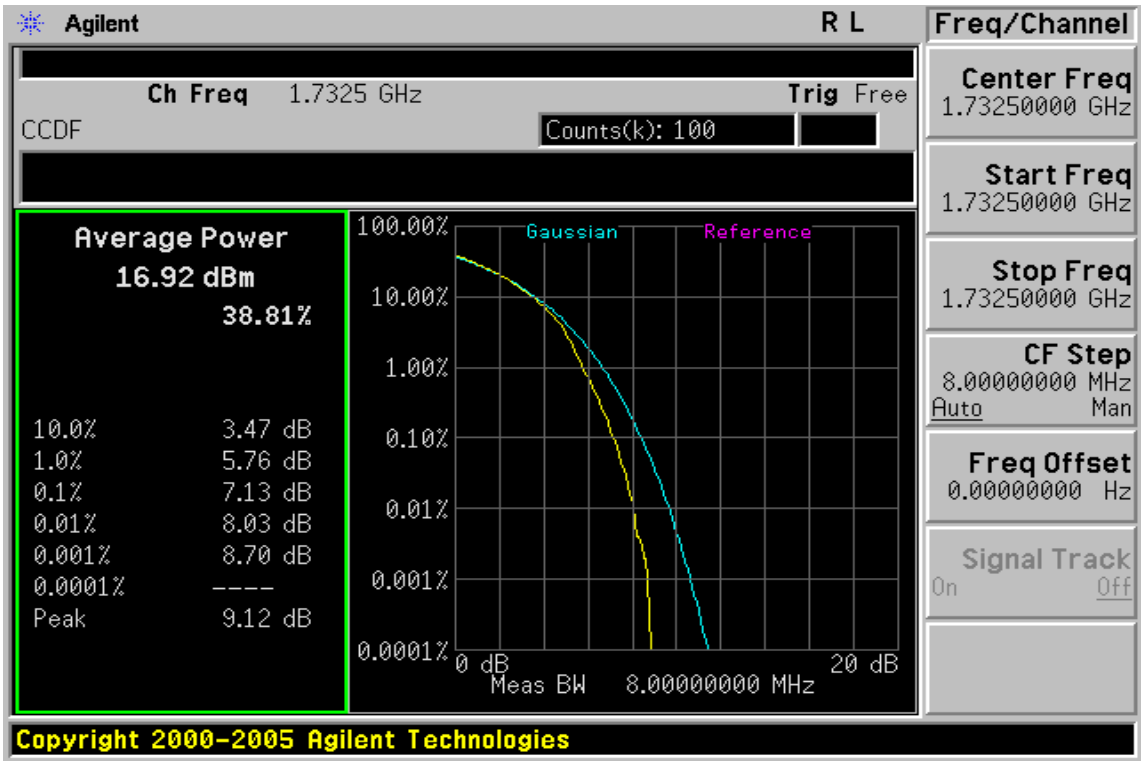


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20MHz BW LTE-Band 4 16QAM Channel Low

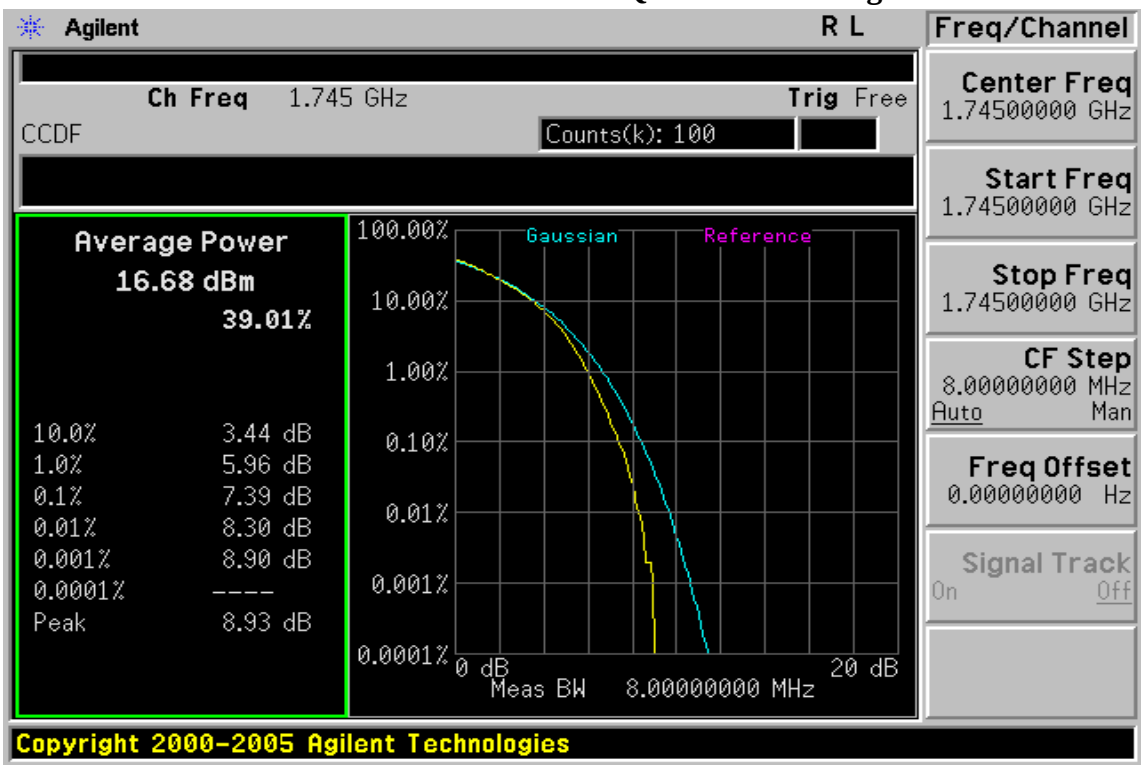


20MHz BW LTE-Band 4 16QAM Channel Mid

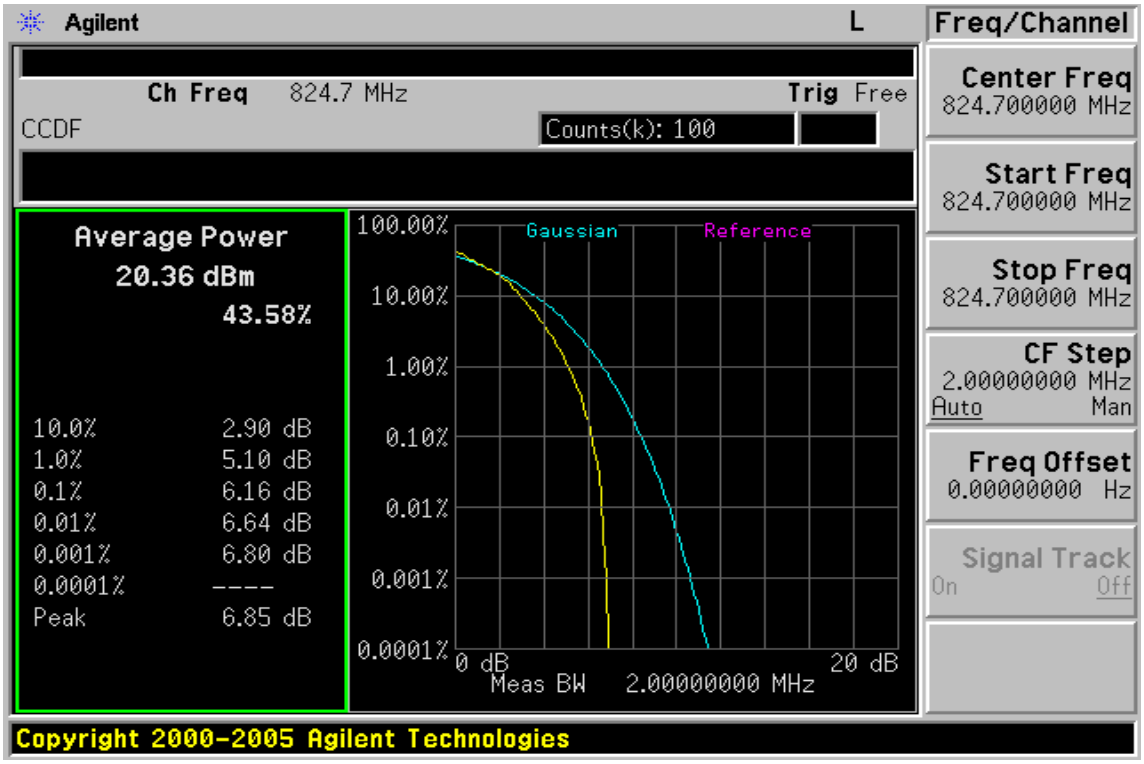


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20MHz BW LTE-Band 4 16QAM Channel High

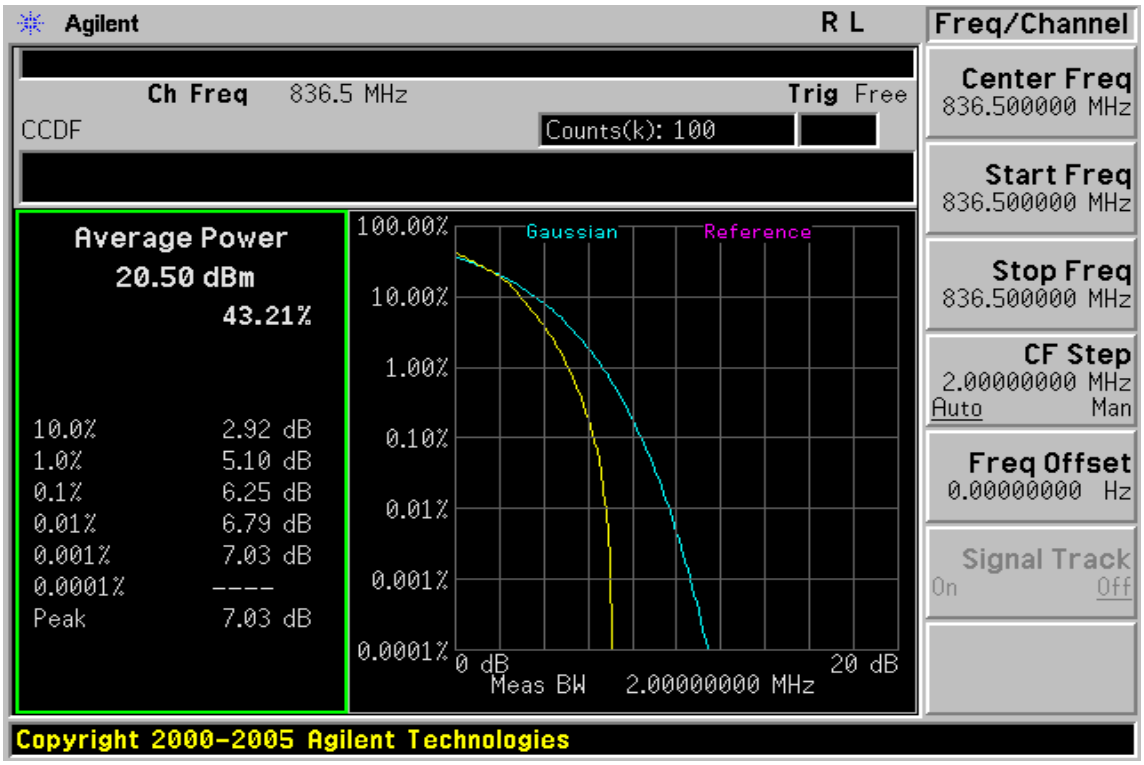


1.4MHz BW LTE-Band 5 16QAMChannel Low

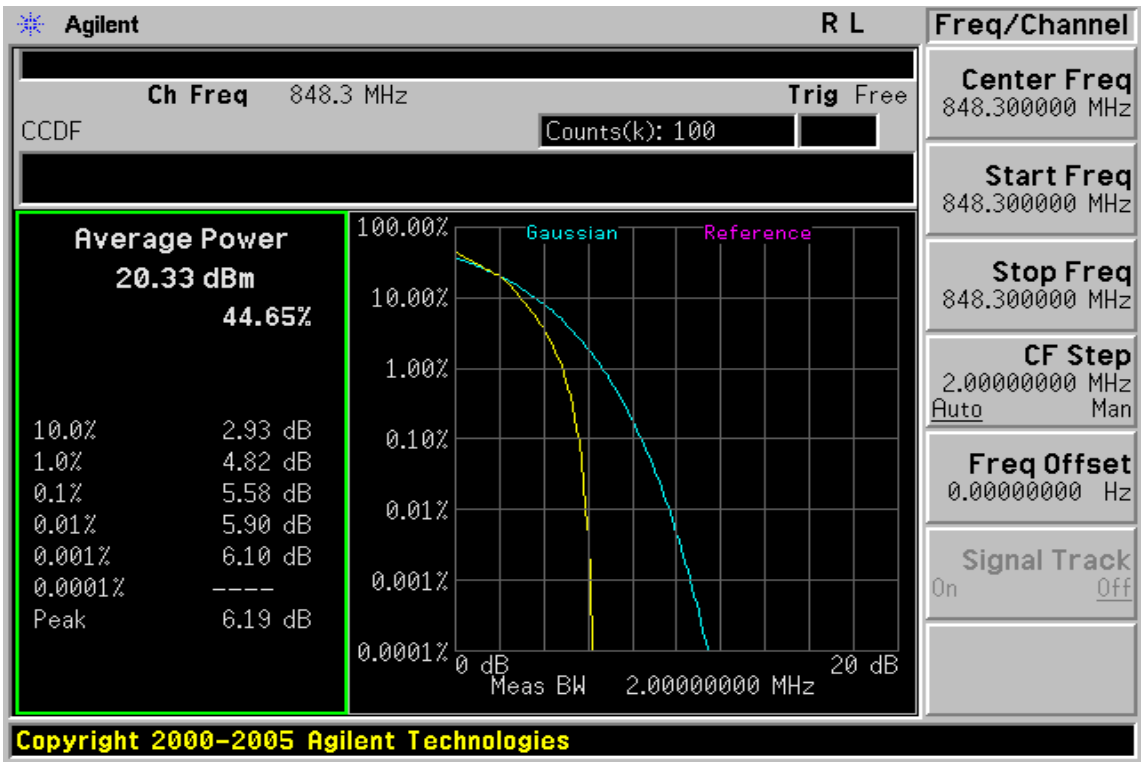


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1.4MHz BW LTE-Band 5 16QAM Channel Mid

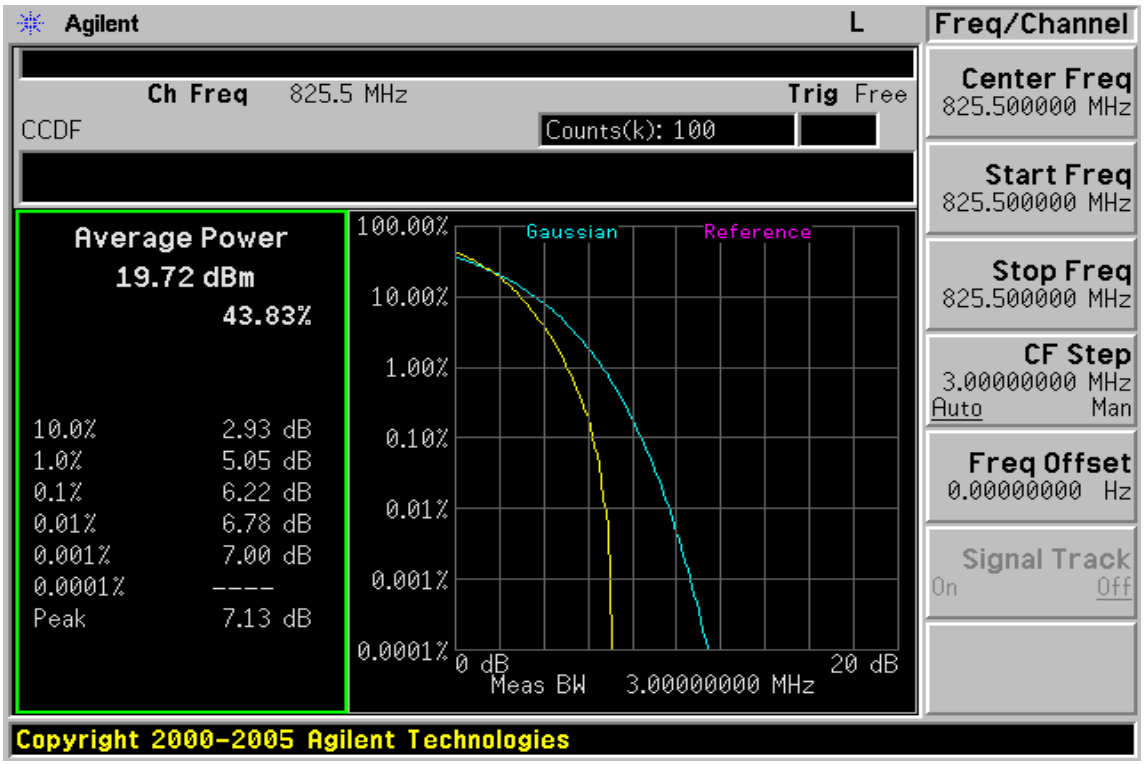


1.4MHz BW LTE-Band 5 16QAM Channel High

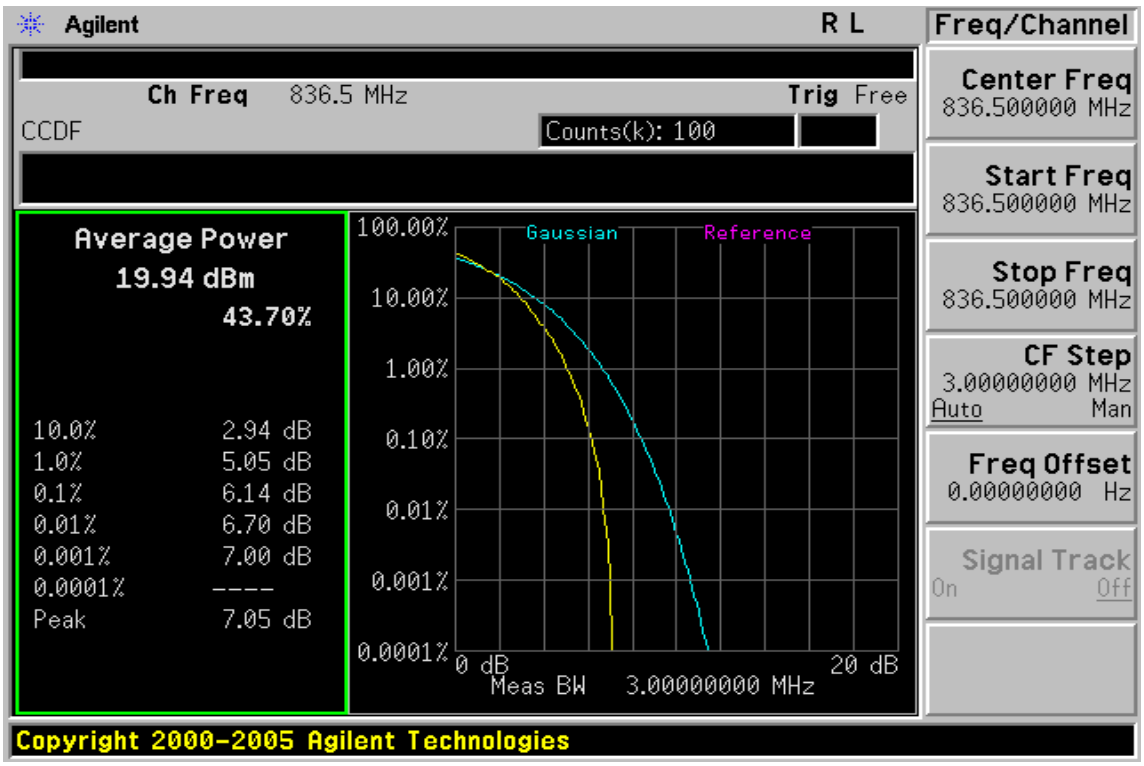


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3MHz BW LTE-Band 5 16QAM Channel Low

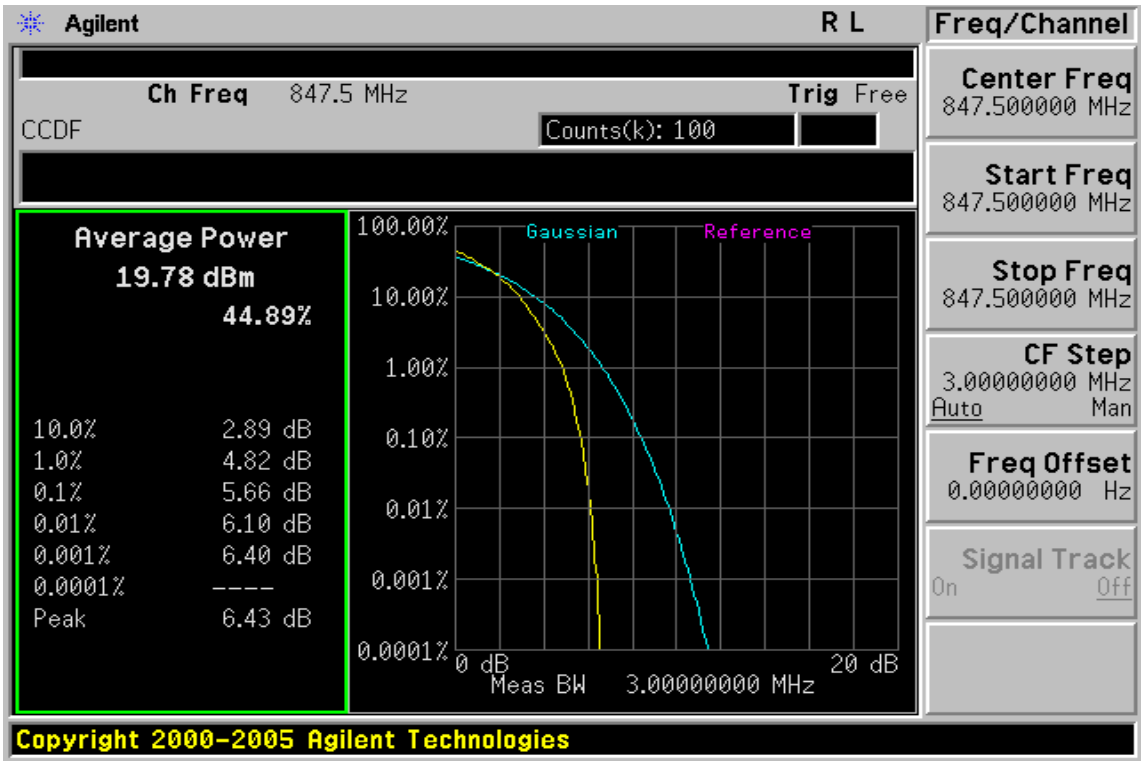


3MHz BW LTE-Band 5 16QAM Channel Mid

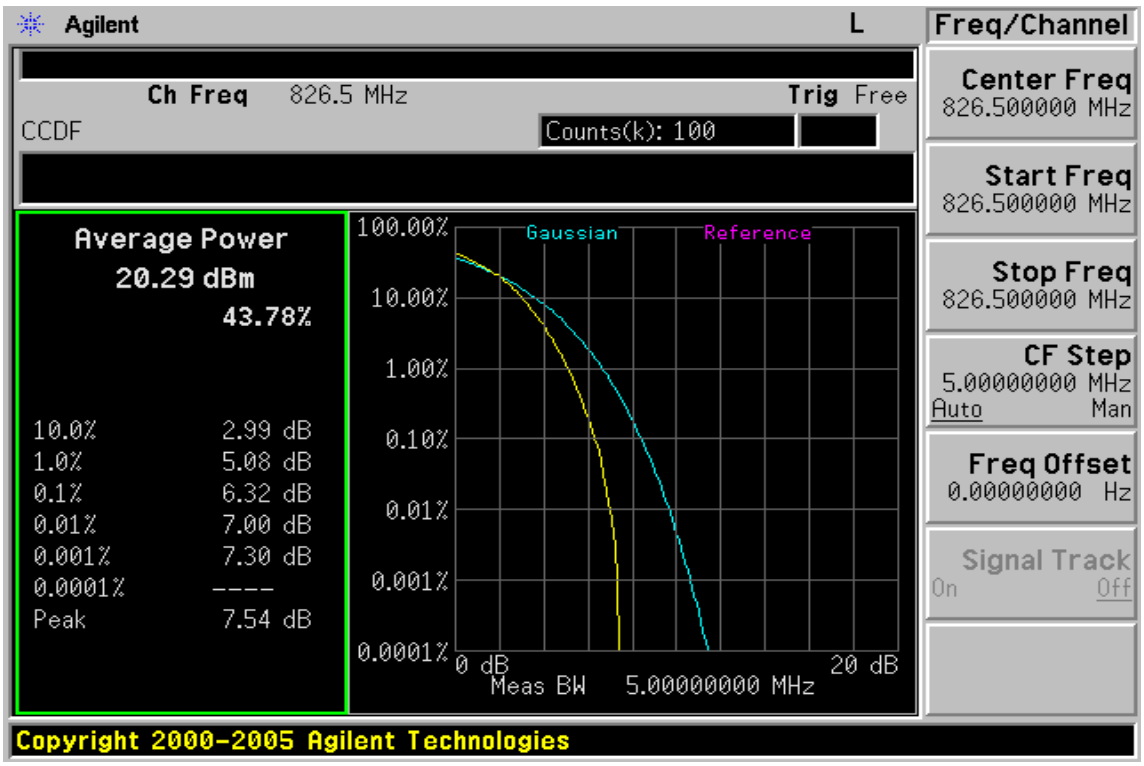


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3MHz BW LTE-Band 5 16QAM Channel High

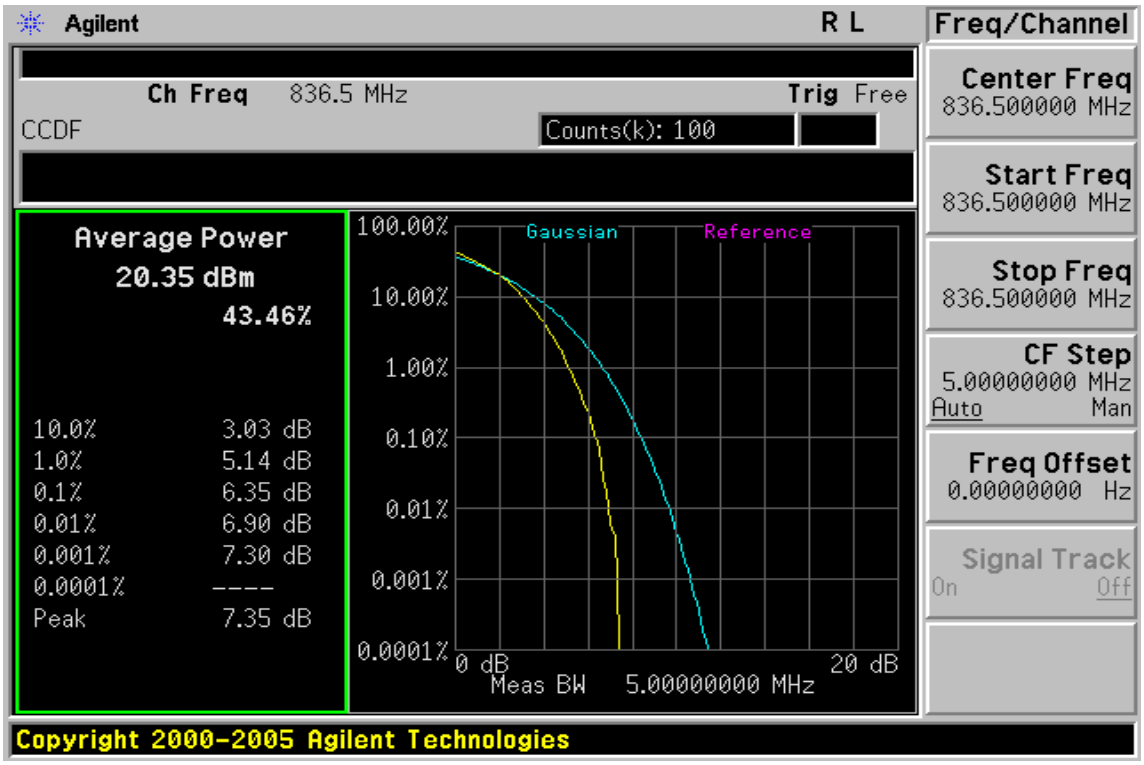


5MHz BW LTE-Band 5 16QAM Channel Low

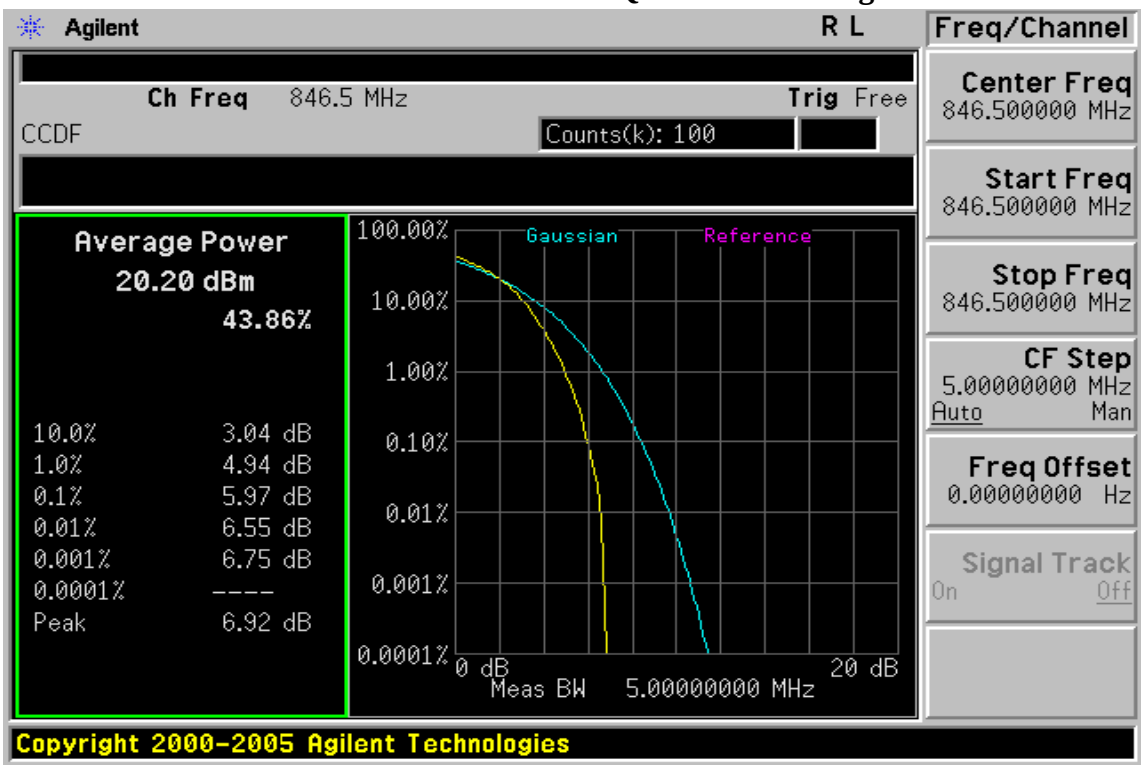


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5MHz BW LTE-Band 5 16QAM Channel Mid

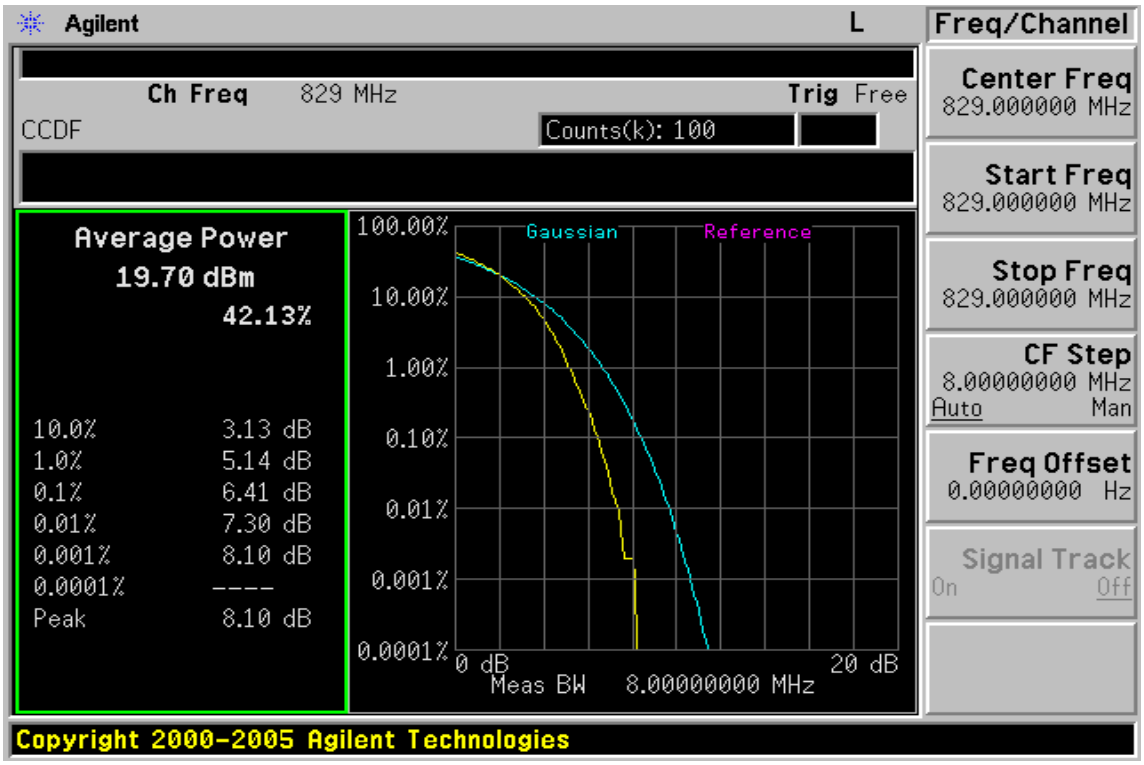


5MHz BW LTE-Band 5 16QAM Channel High

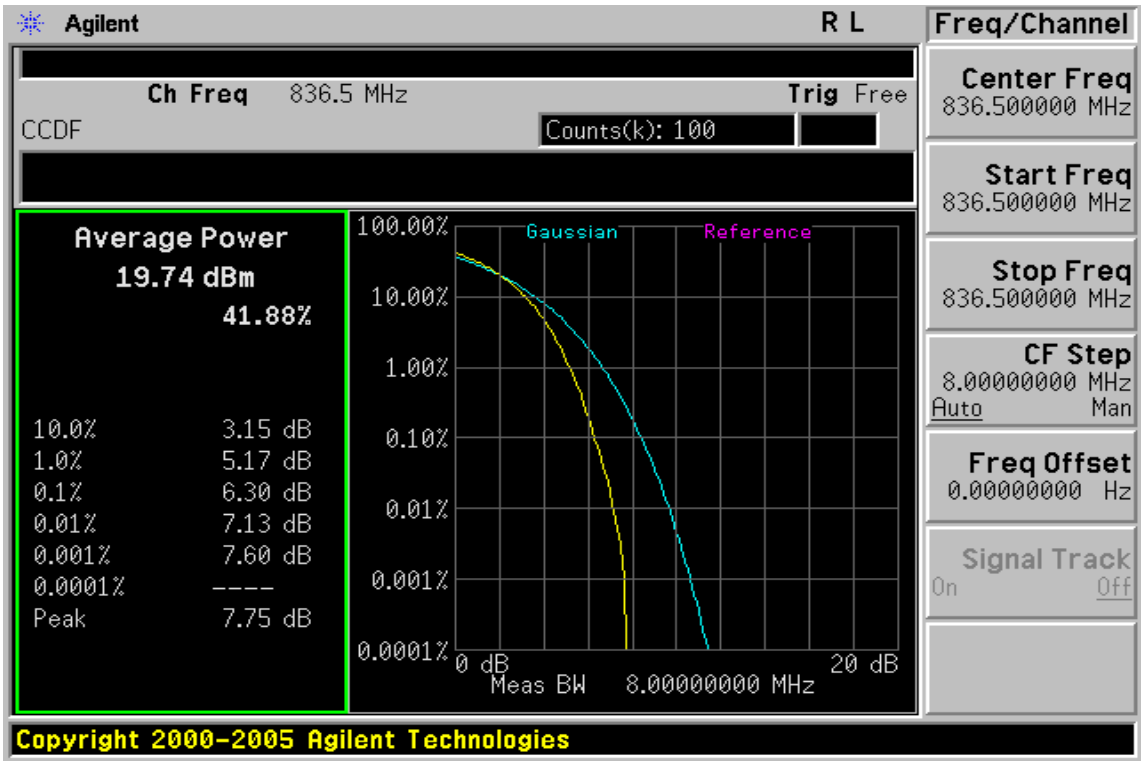


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10MHz BW LTE-Band 5 16QAM Channel Low

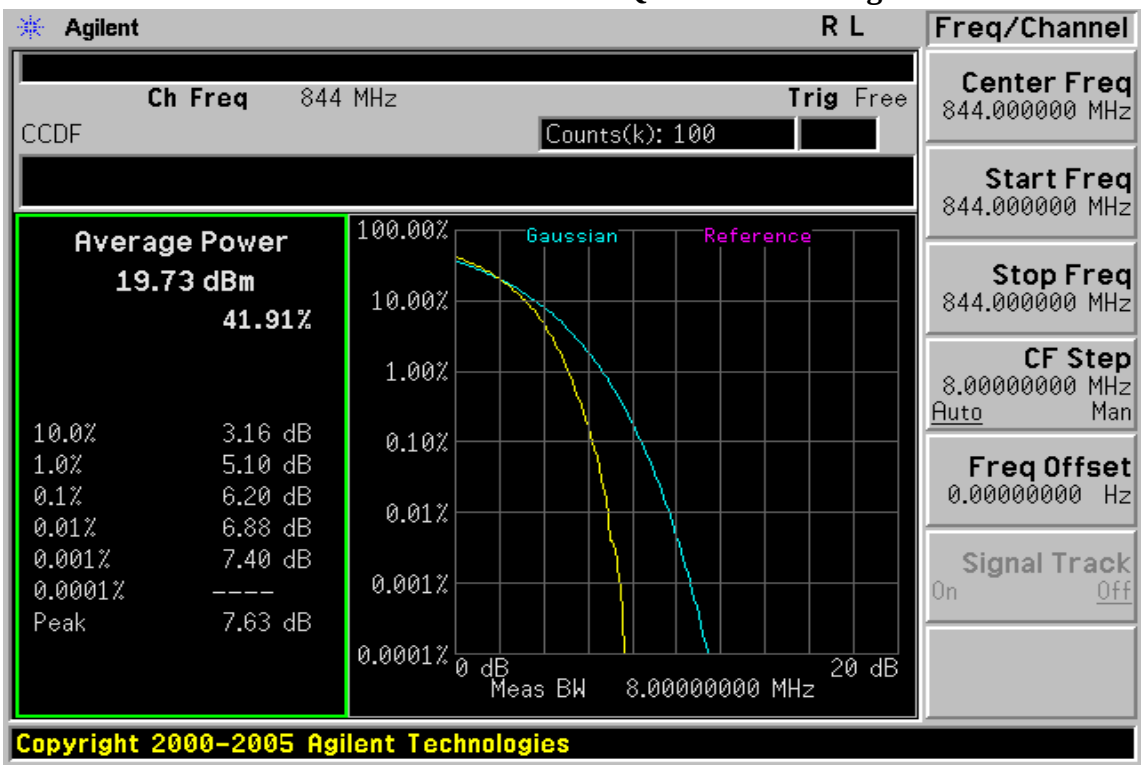


10MHz BW LTE-Band 5 16QAM Channel Mid

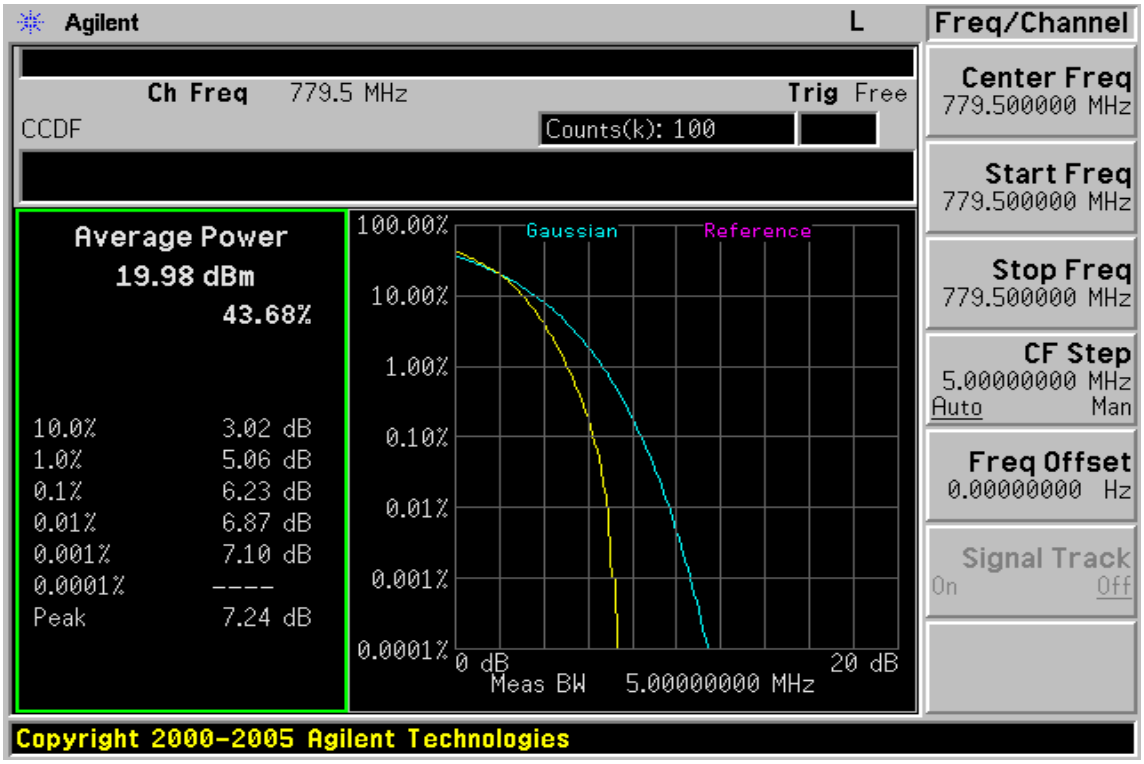


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10MHz BW LTE-Band 5 16QAM Channel High

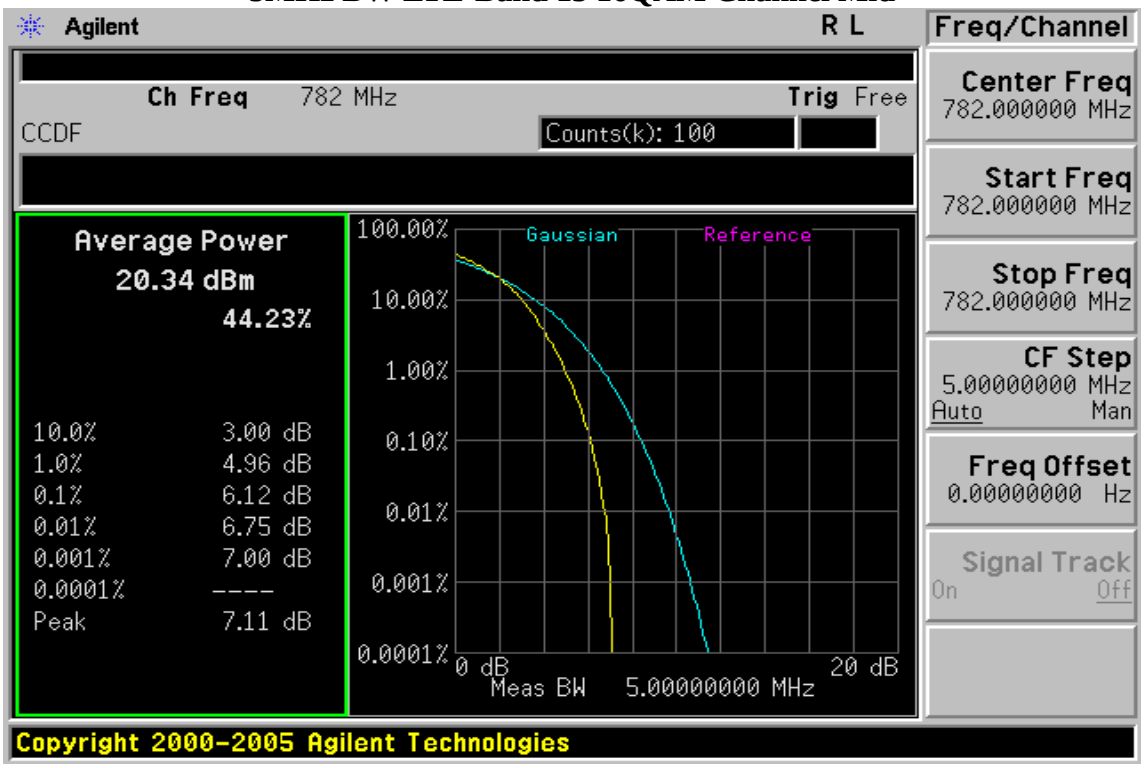


5MHz BW LTE-Band 13 16QAM Channel Low

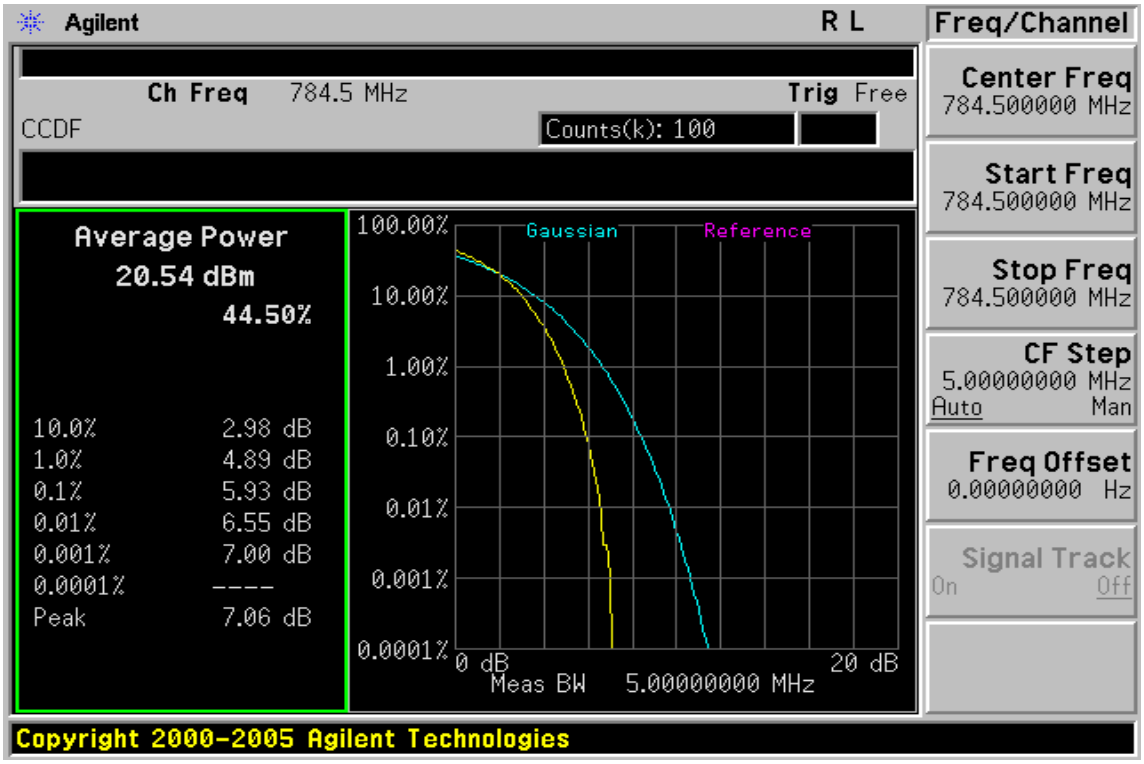


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5MHz BW LTE-Band 13 16QAM Channel Mid

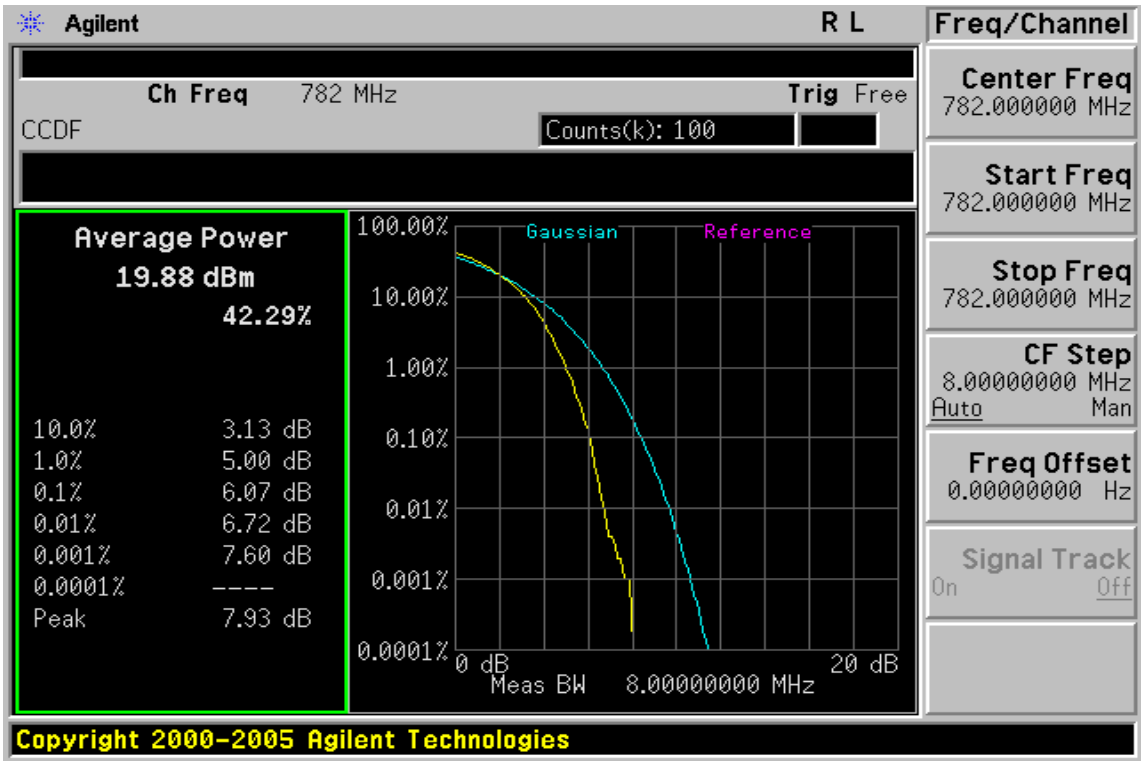


5MHz BW LTE-Band 13 16QAM Channel High

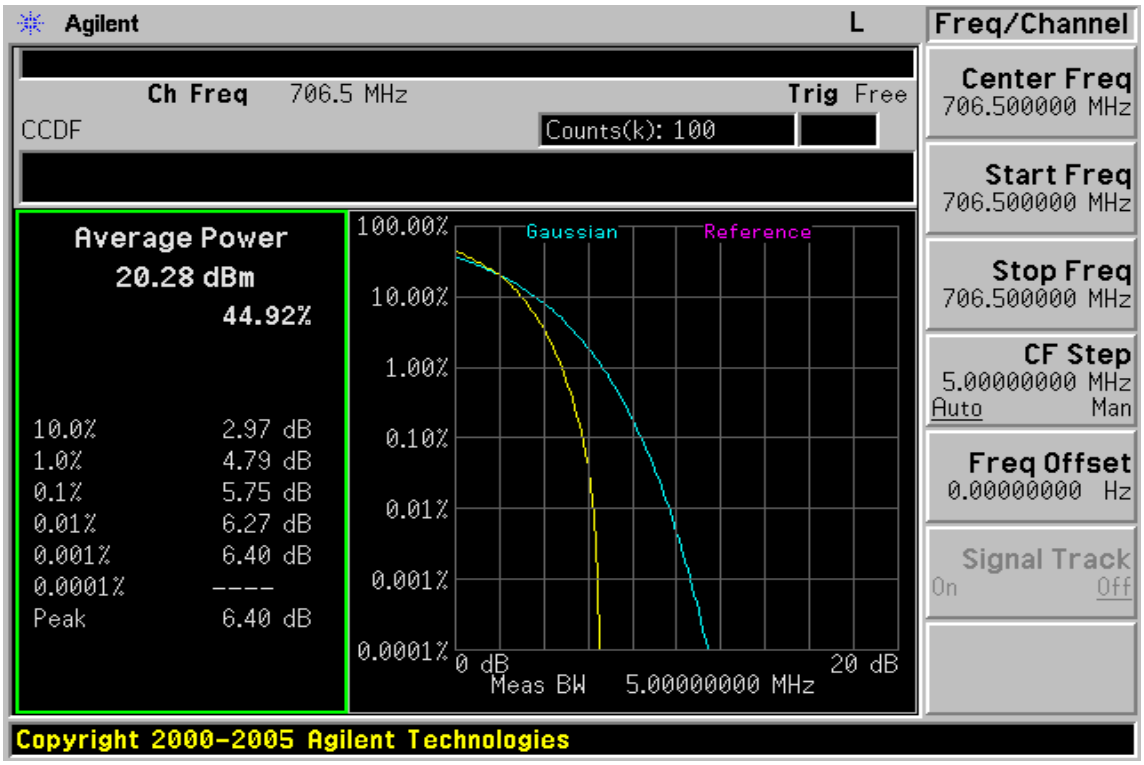


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10MHz BW LTE-Band 13 16QAM Channel Mid

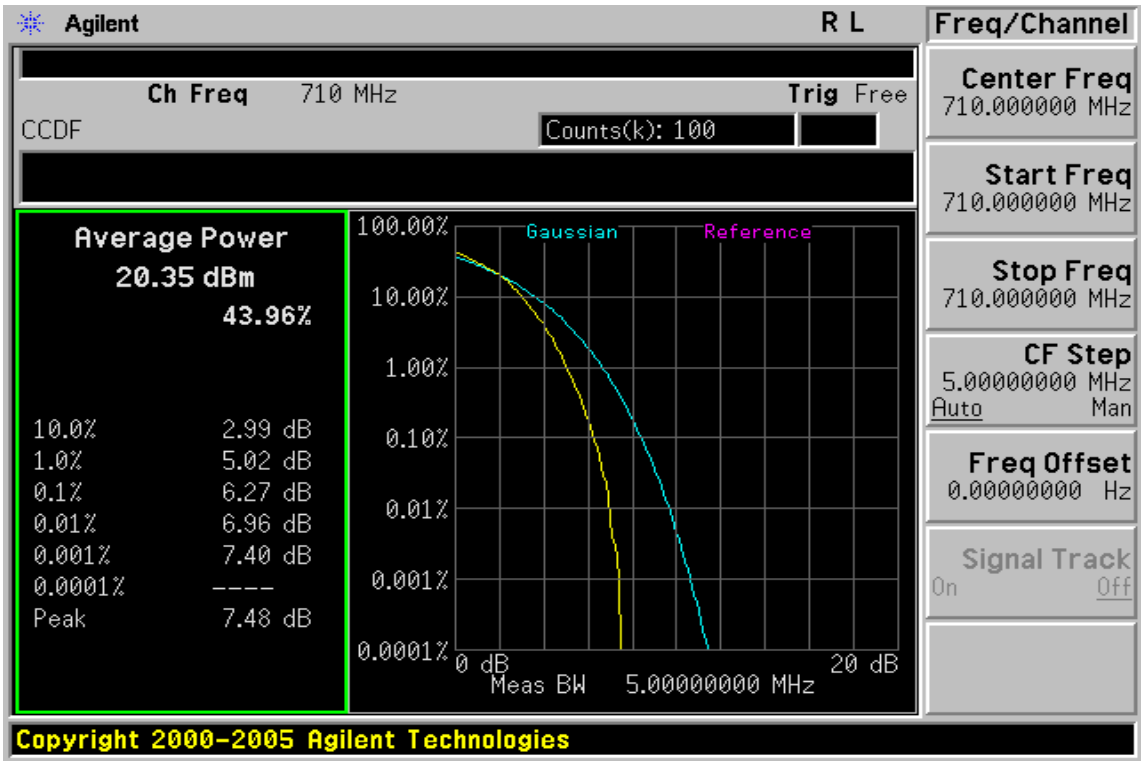


5MHz BW LTE-Band 17 16QAM Channel Low

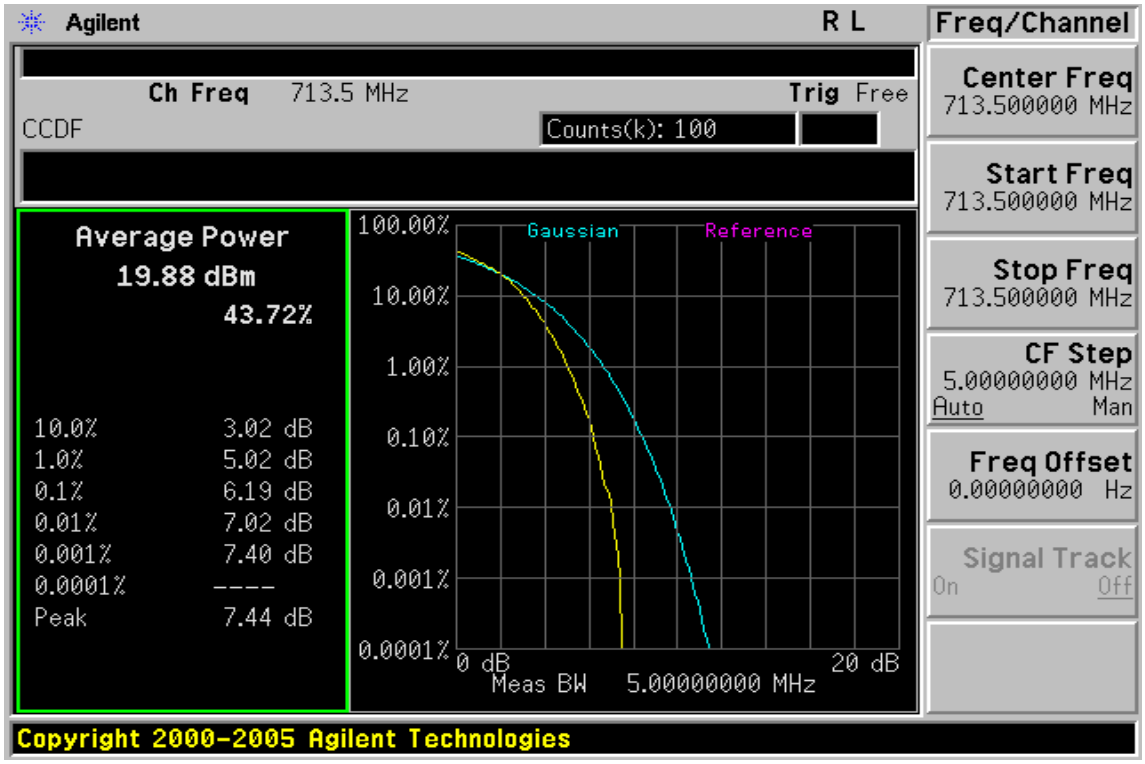


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5MHz BW LTE-Band 17 16QAM Channel Mid

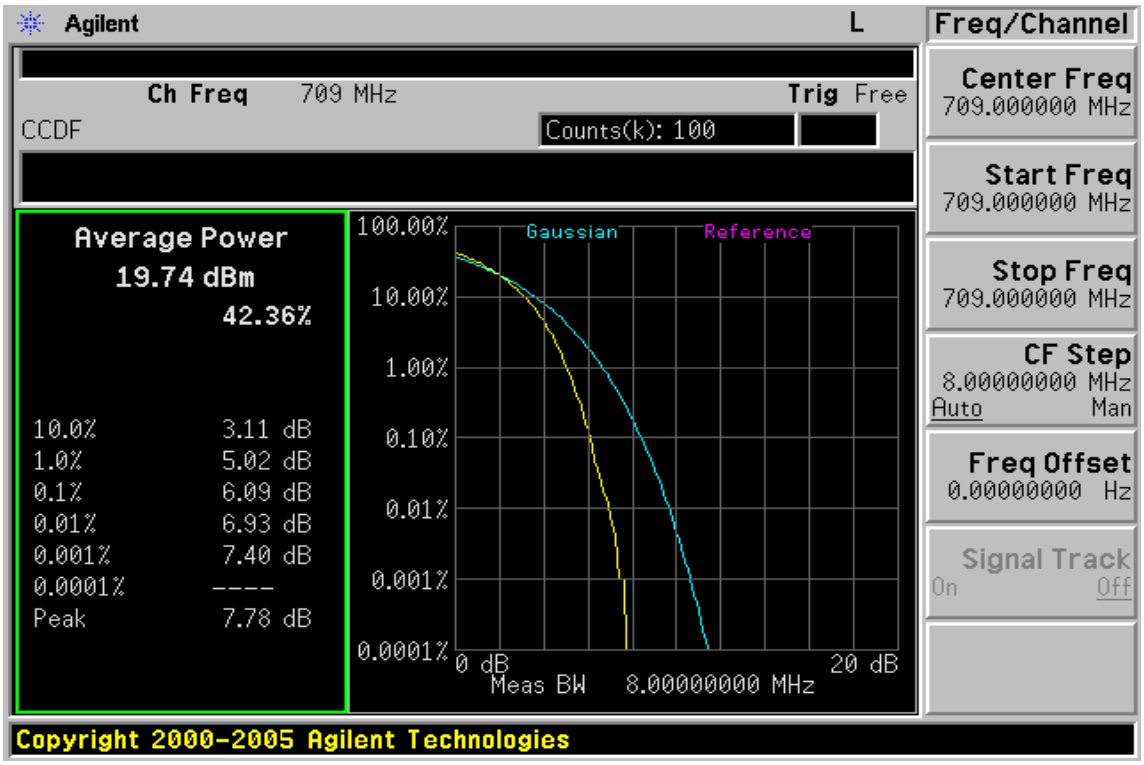


5MHz BW LTE-Band 17 16QAM Channel High

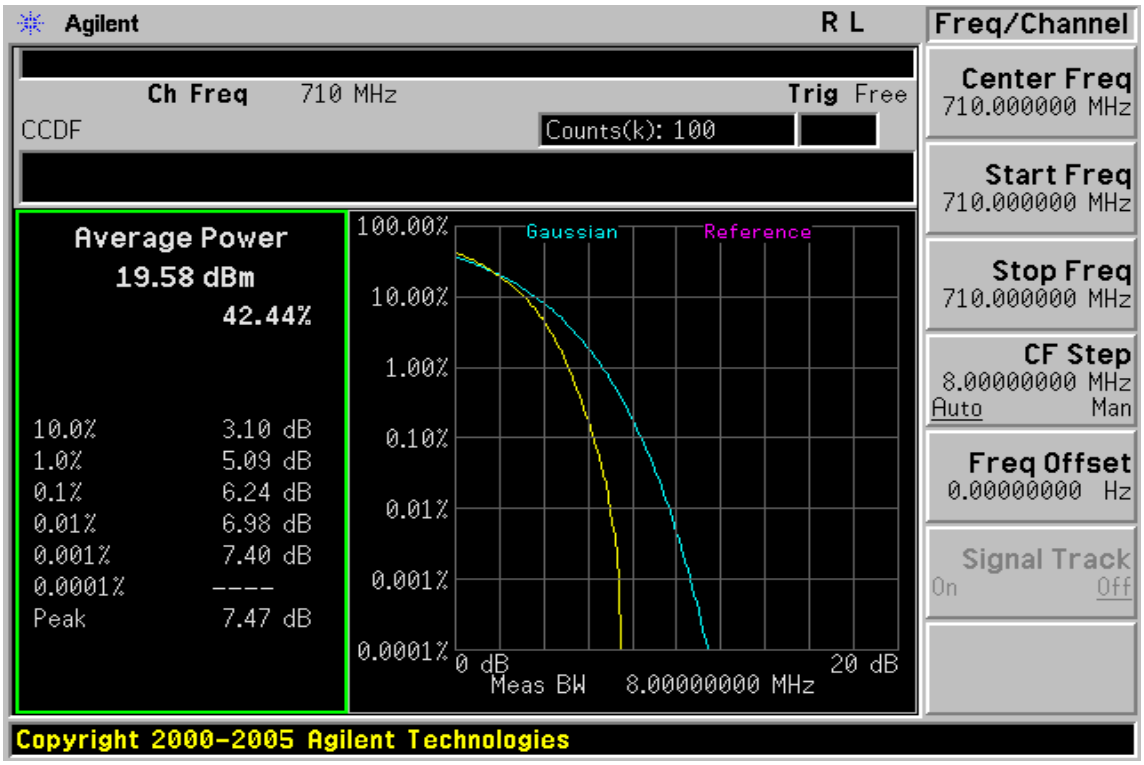


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10MHz BW LTE-Band 17 16QAM Channel Low

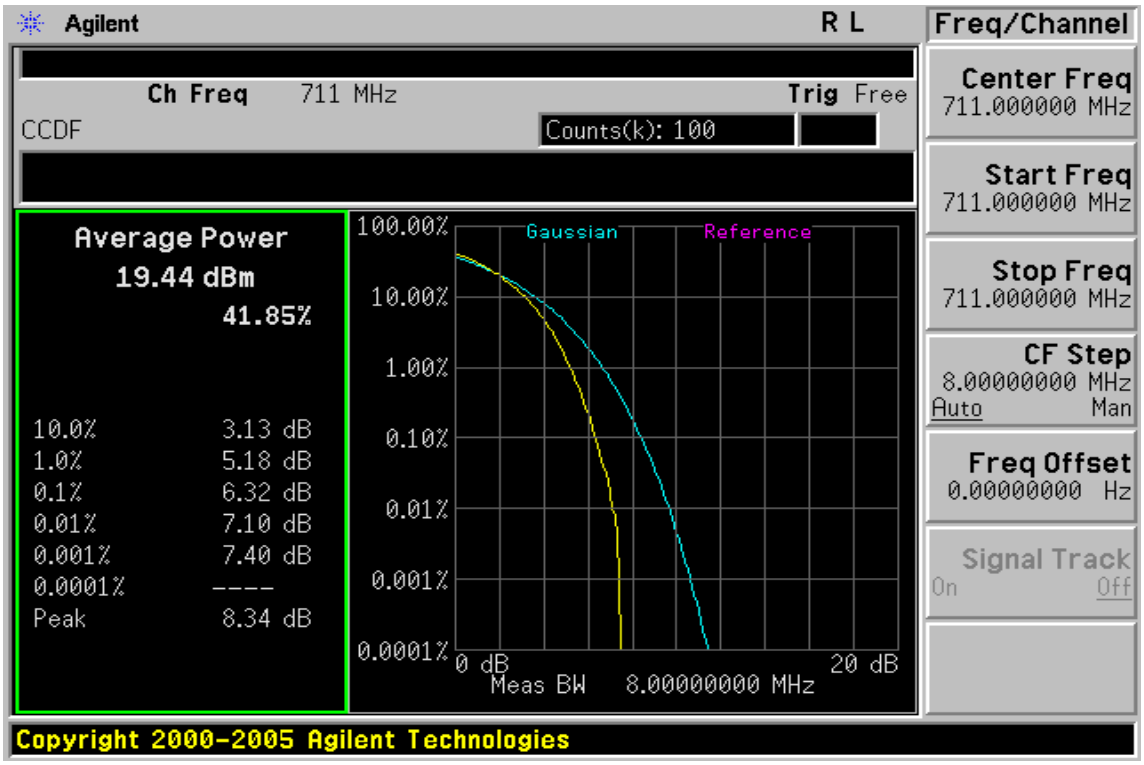


10MHz BW LTE-Band 17 16QAM Channel Mid

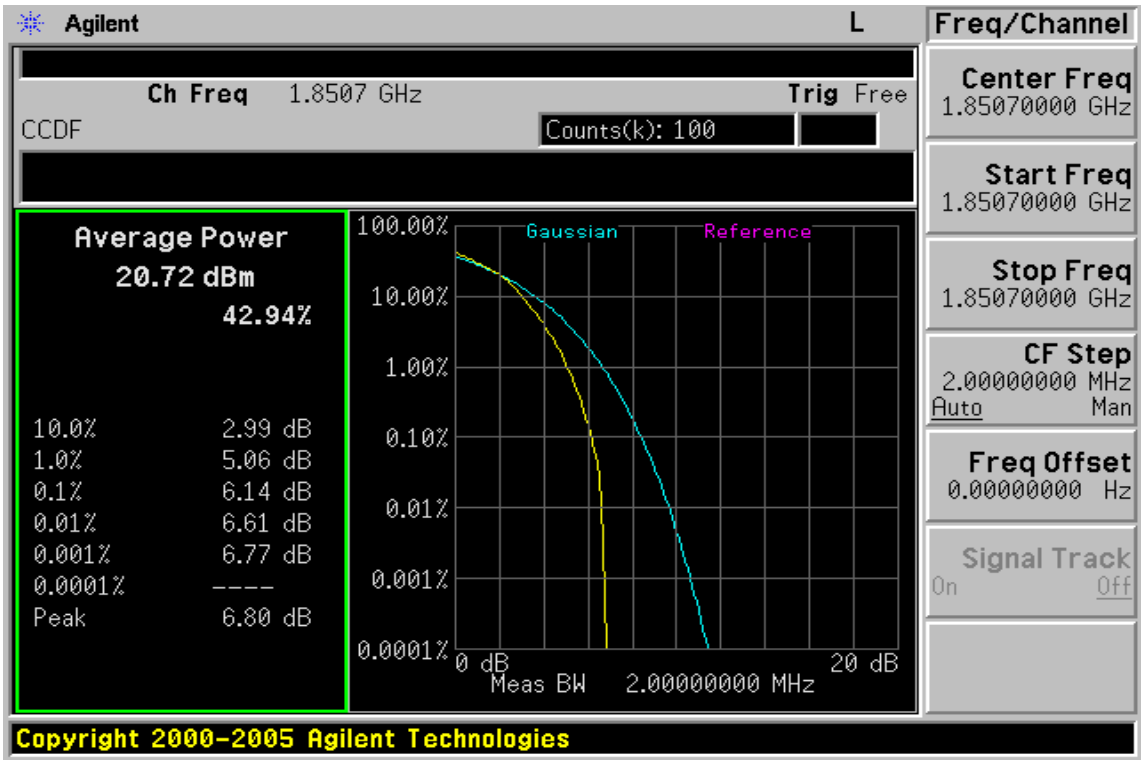


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10MHz BW LTE-Band 17 16QAM Channel High

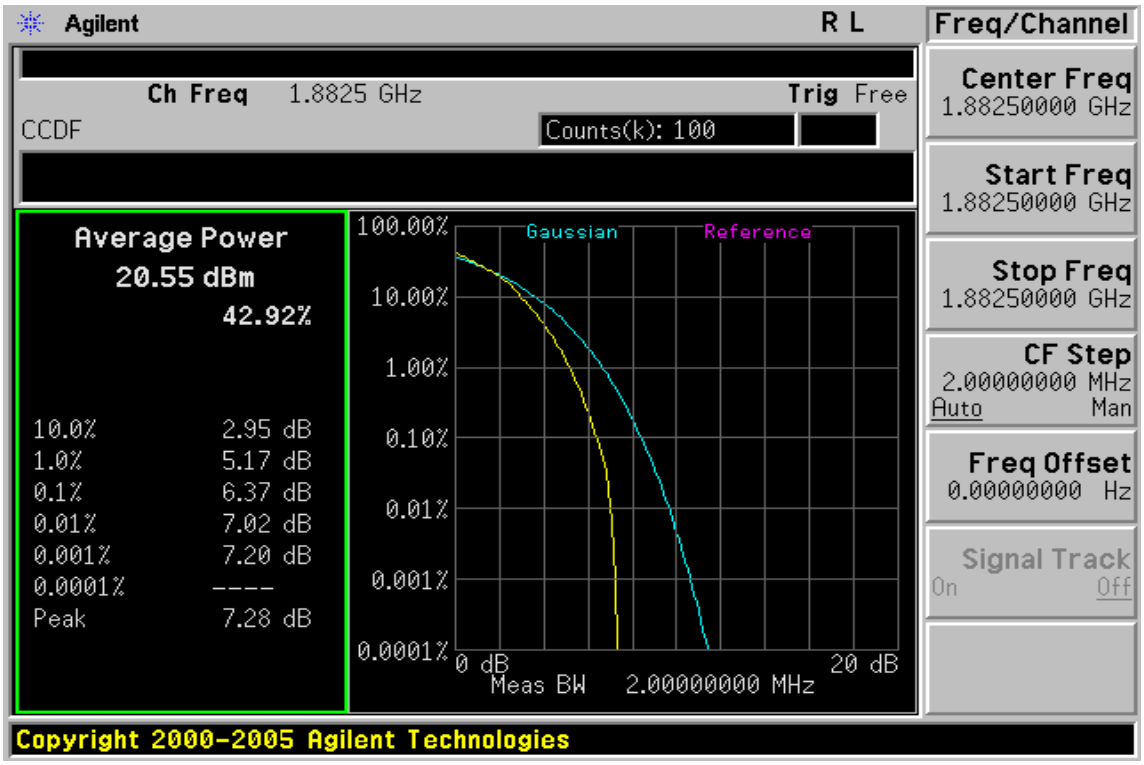


1.4MHz BW LTE-Band 25 16QAM Channel Low

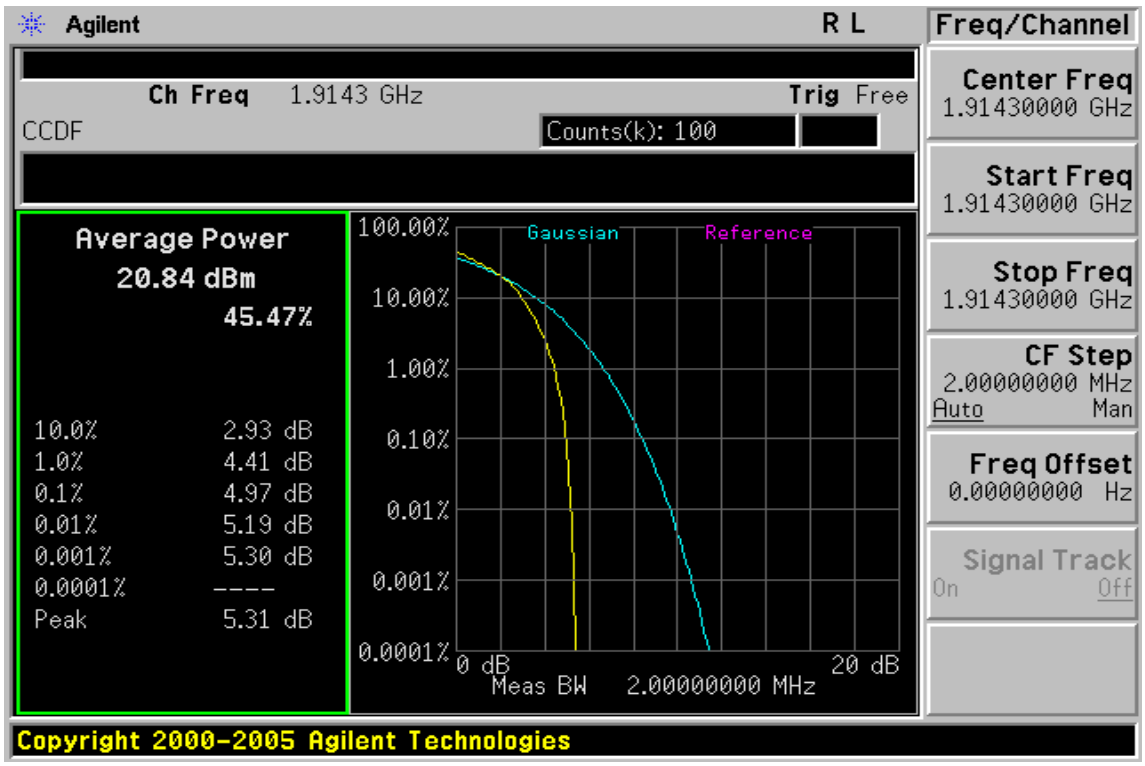


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1.4MHz BW LTE-Band 25 16QAM Channel Mid

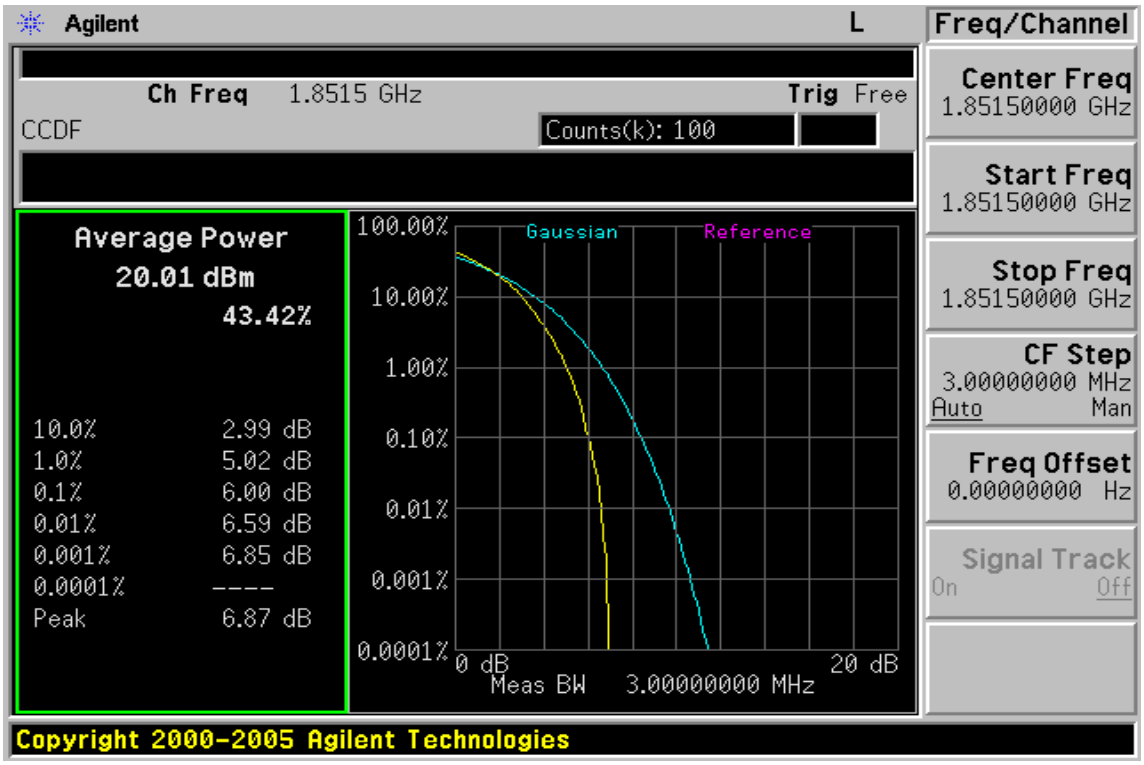


1.4MHz BW LTE-Band 25 16QAM Channel High

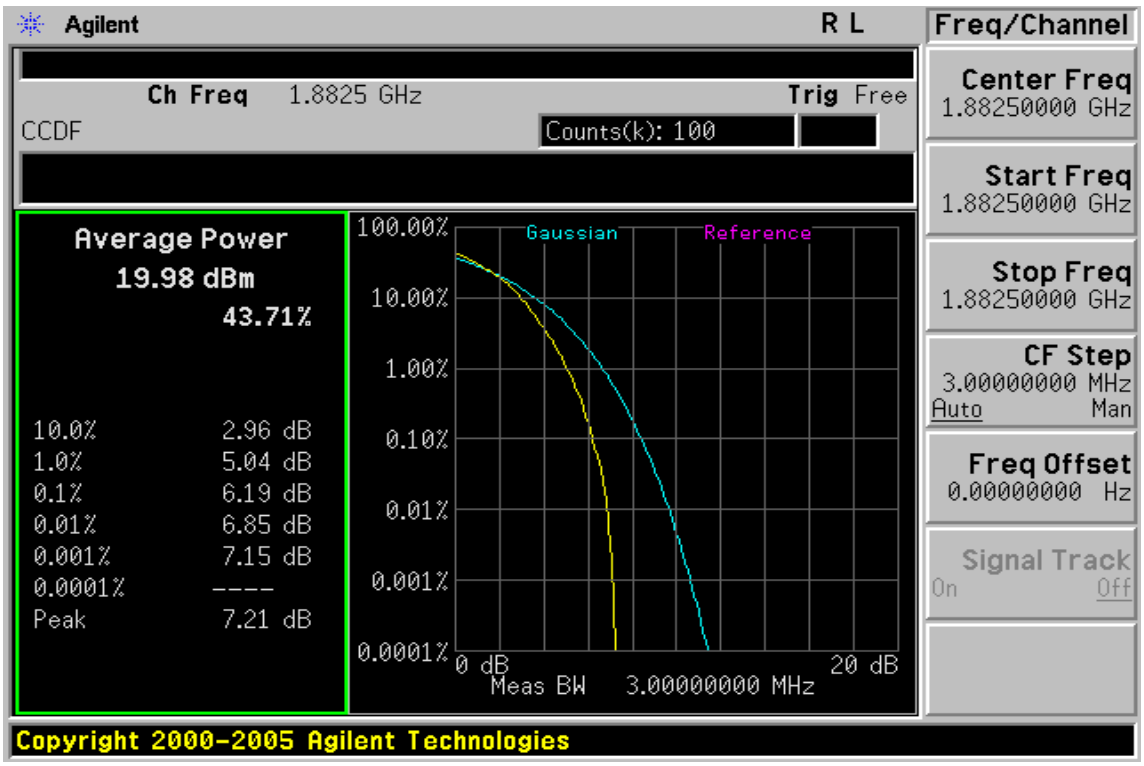


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3MHz BW LTE-Band 25 16QAM Channel Low

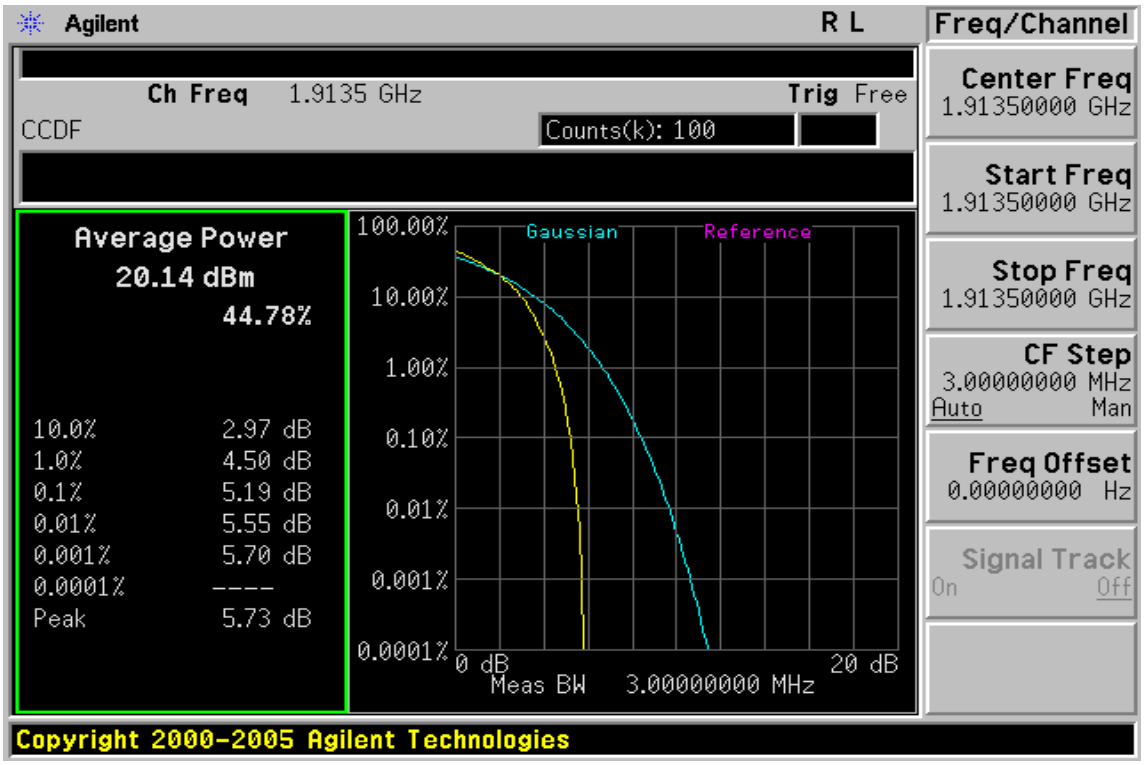


3MHz BW LTE-Band 25 16QAM Channel Mid

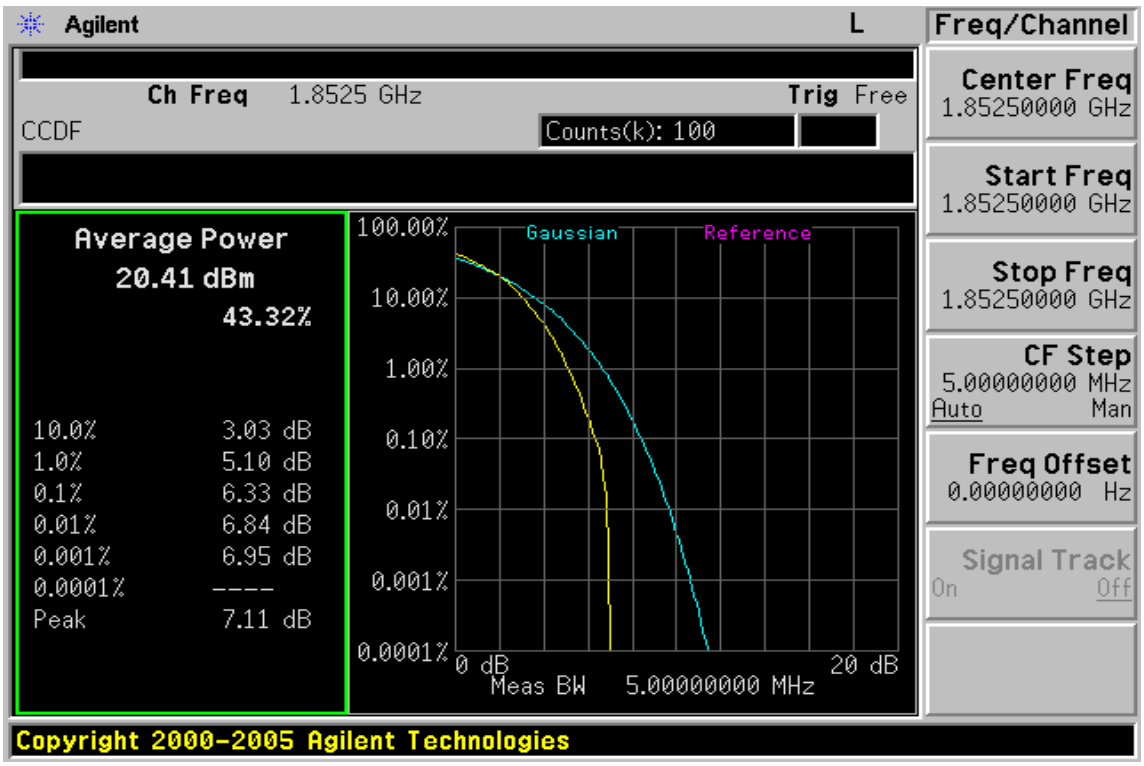


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3MHz BW LTE-Band 25 16QAM Channel High

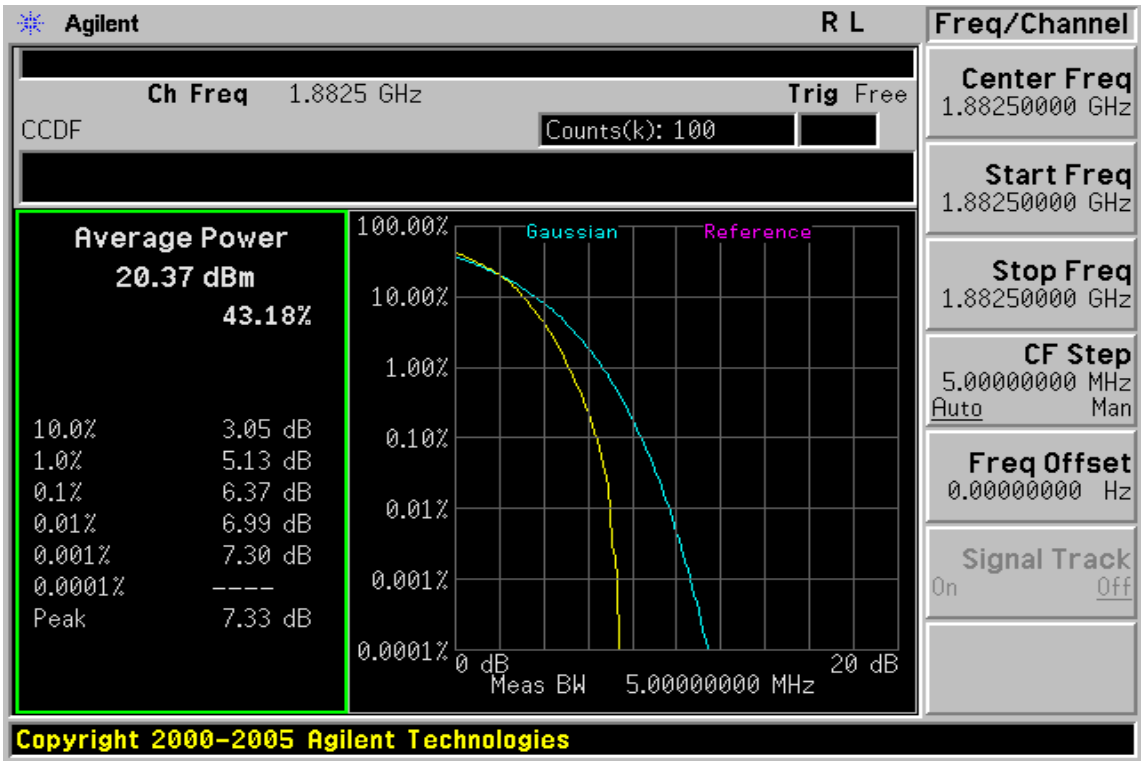


5MHz BW LTE-Band 25 16QAM Channel Low

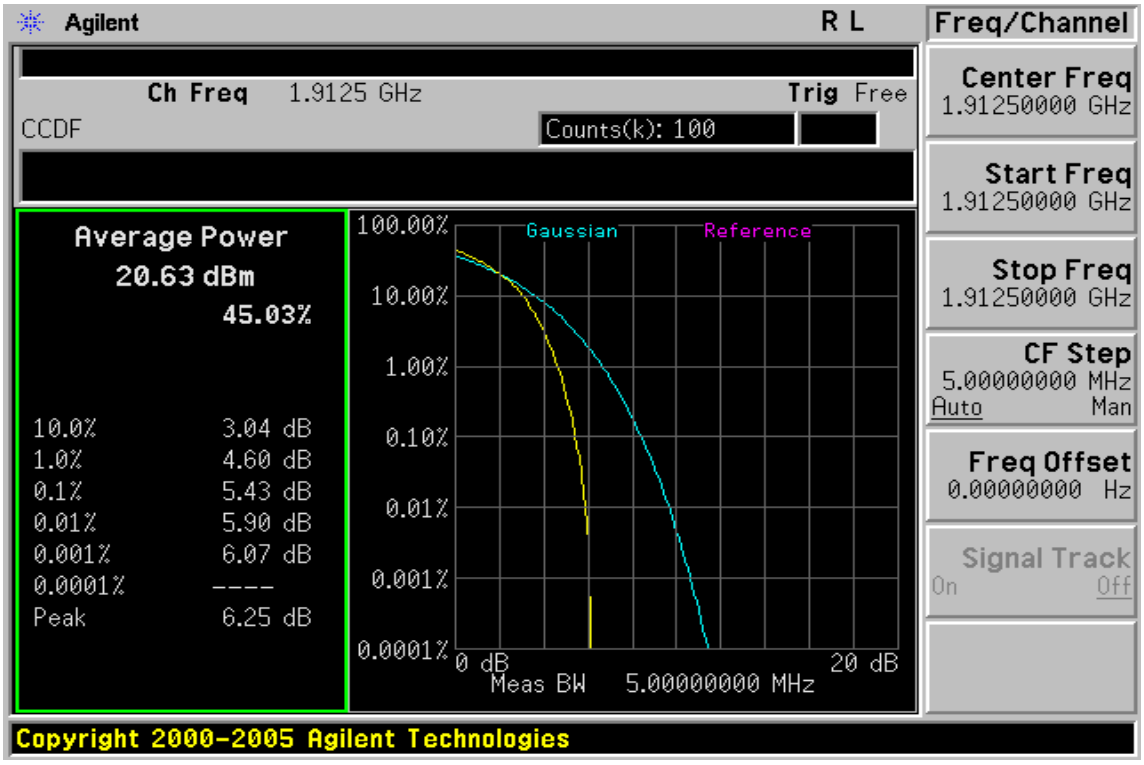


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5MHz BW LTE-Band 25 16QAM Channel Mid

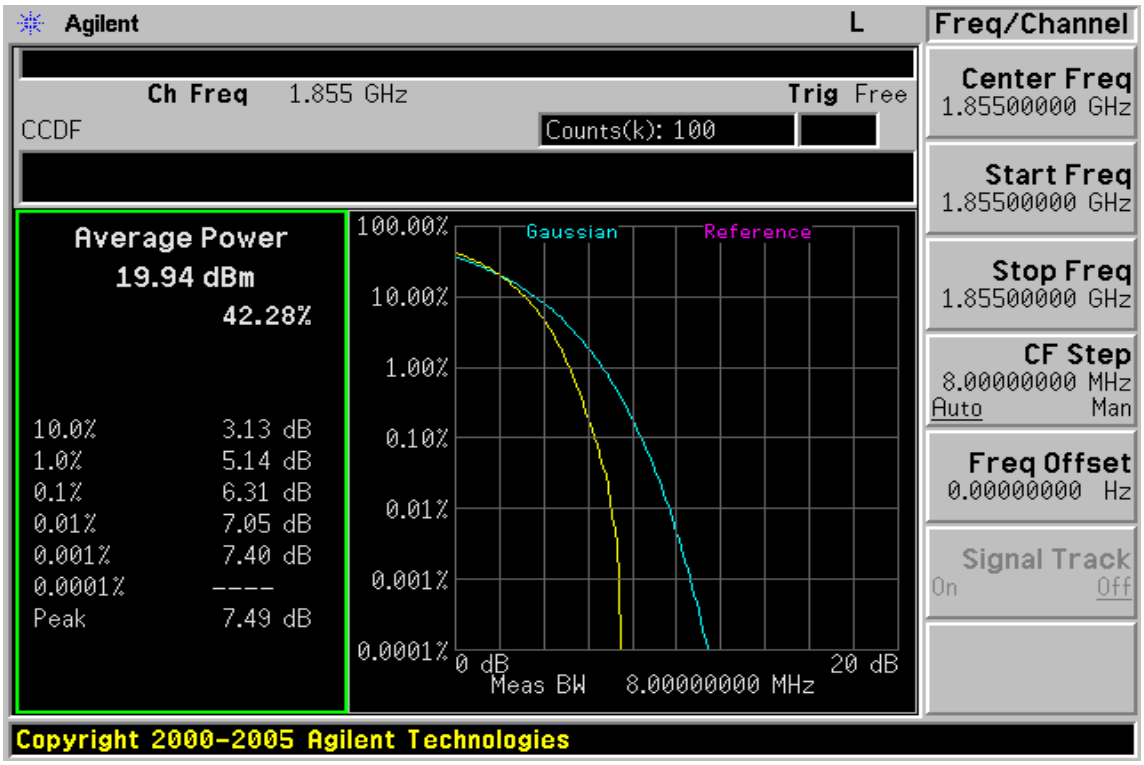


5MHz BW LTE-Band 25 16QAM Channel High

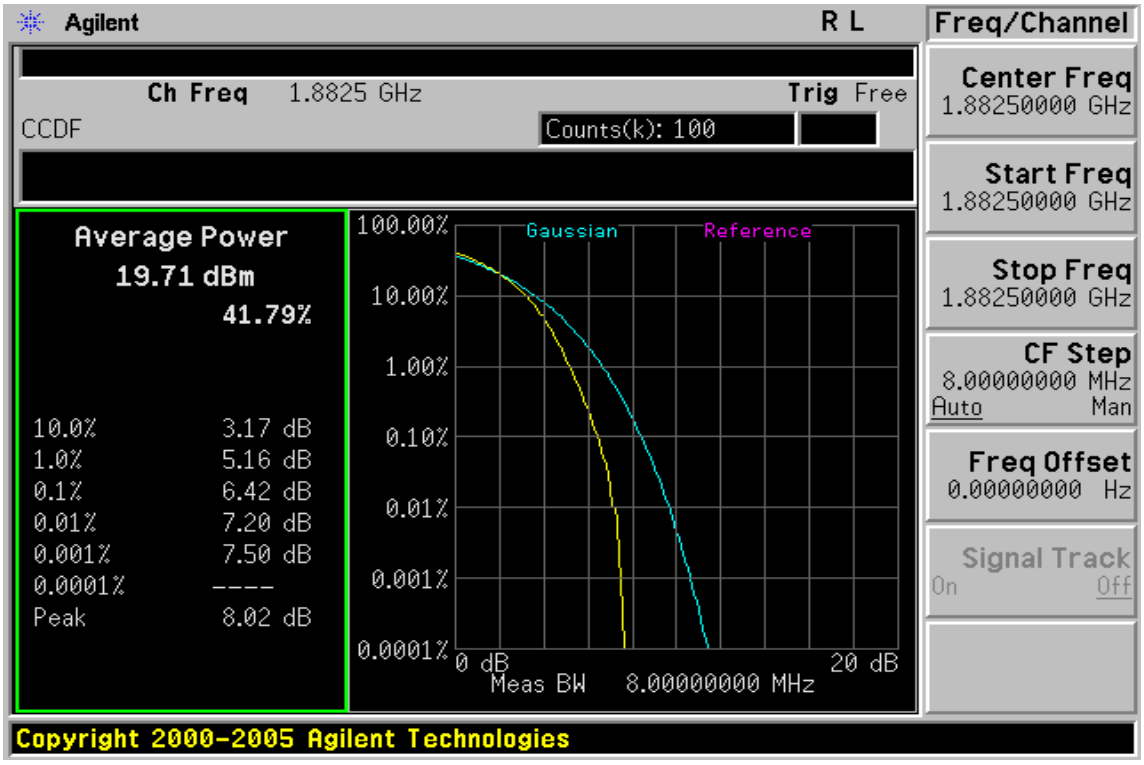


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10MHz BW LTE-Band 25 16QAM Channel Low

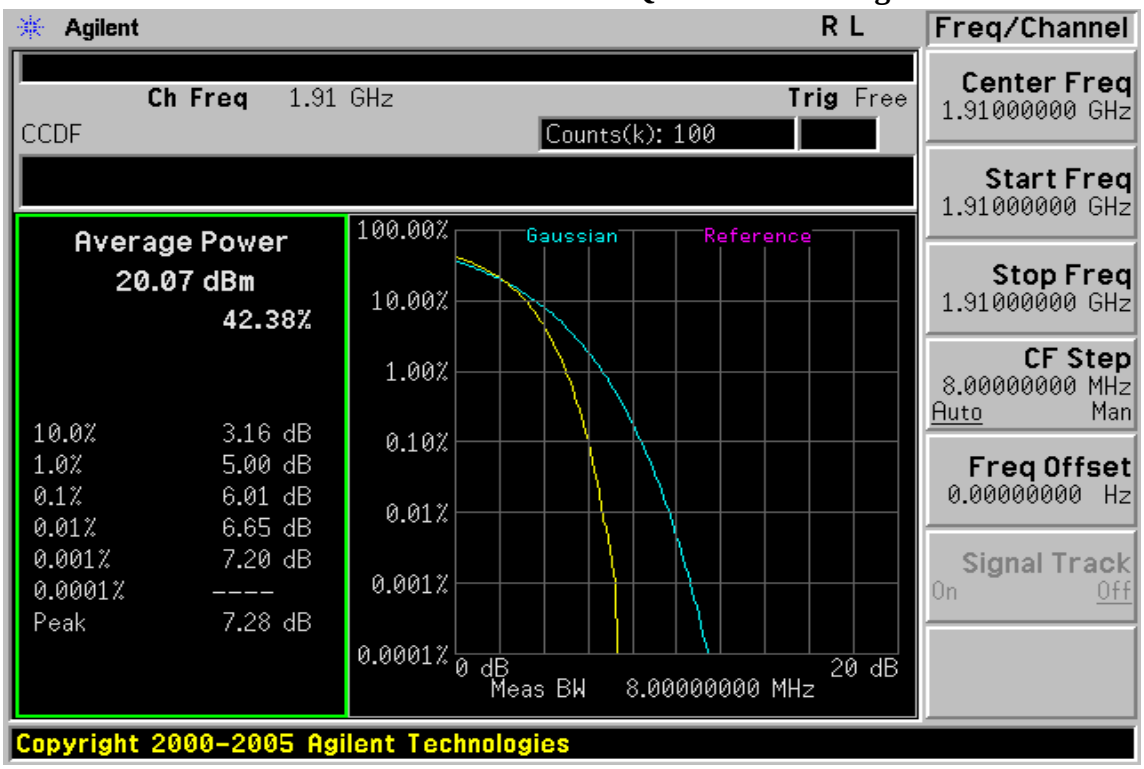


10MHz BW LTE-Band 25 16QAM Channel Mid

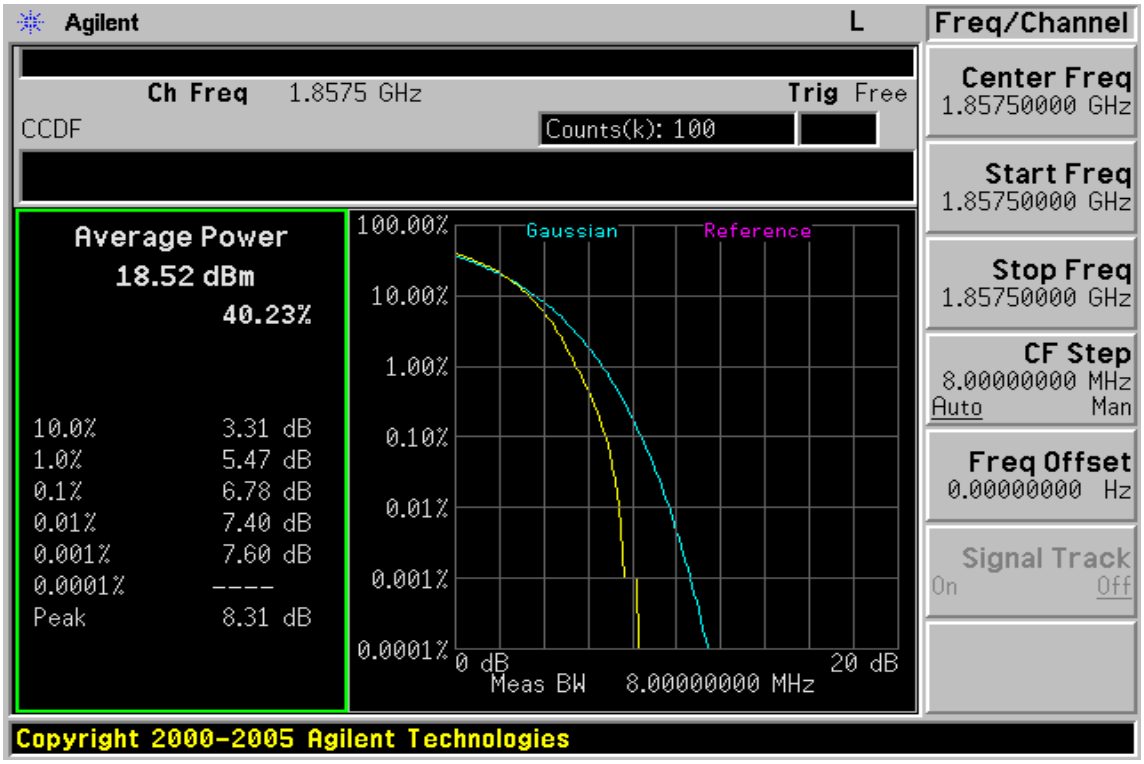


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10MHz BW LTE-Band 25 16QAM Channel High

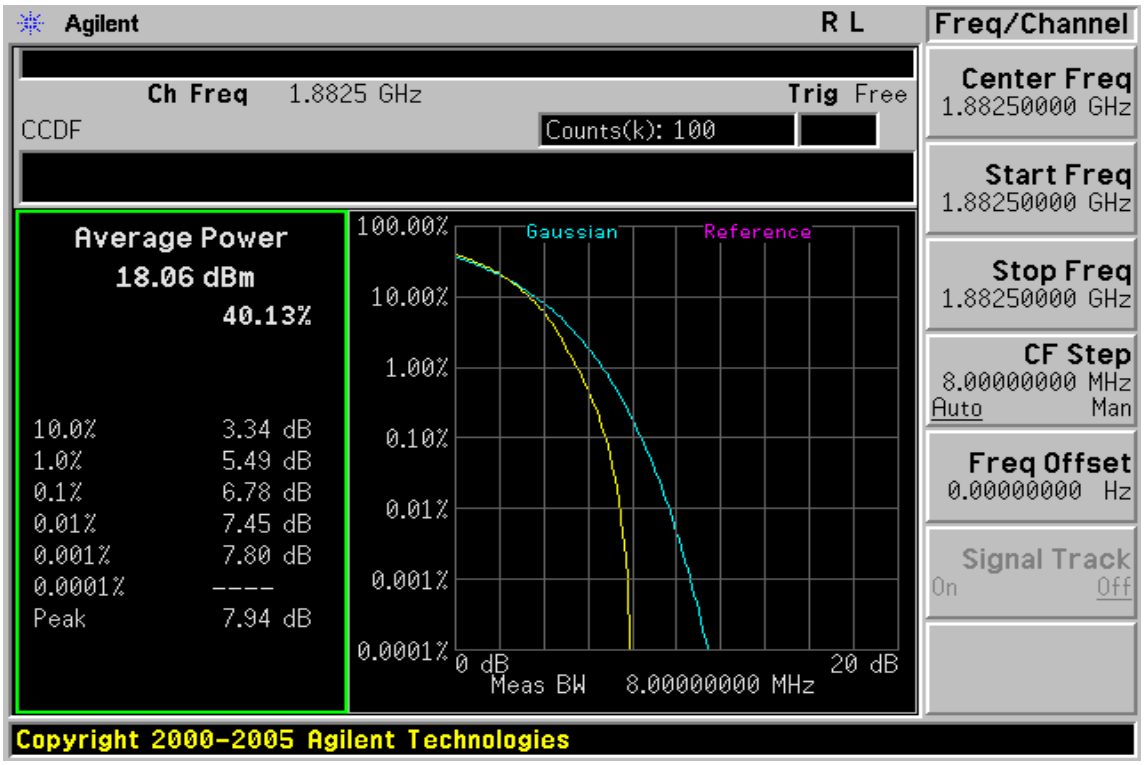


15MHz BW LTE-Band 25 16QAM Channel Low

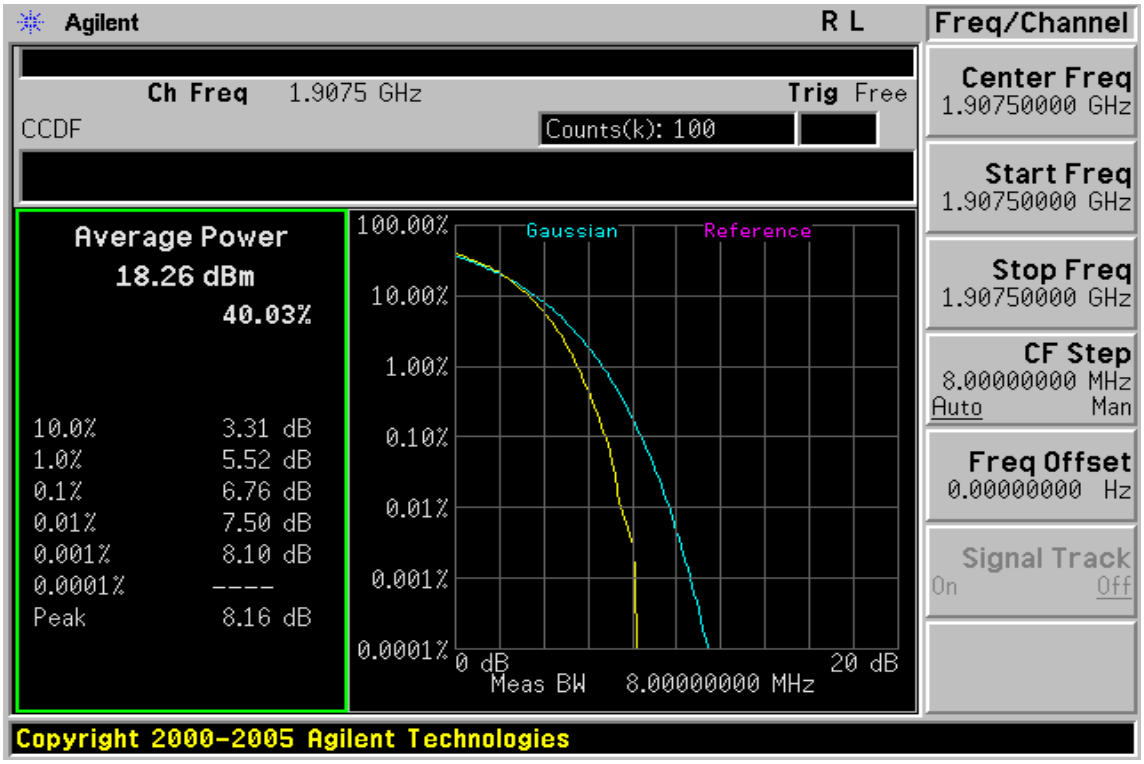


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15MHz BW LTE-Band 25 16QAM Channel Mid

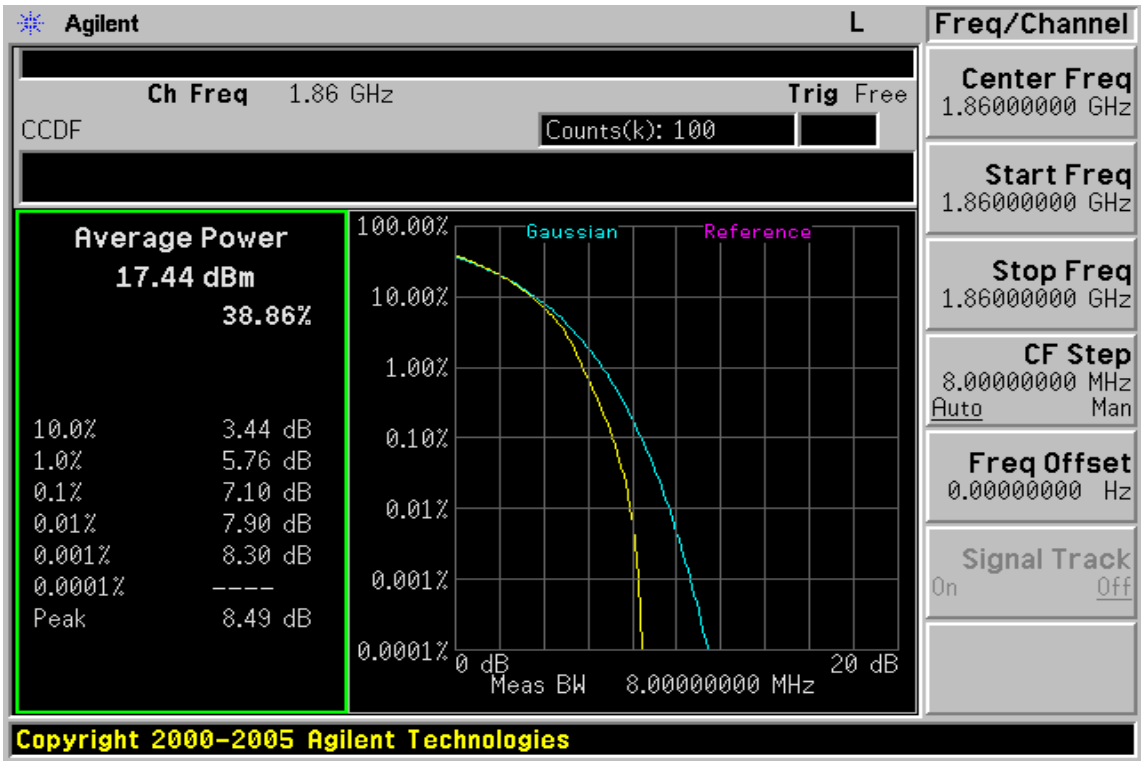


15MHz BW LTE-Band 25 16QAM Channel High

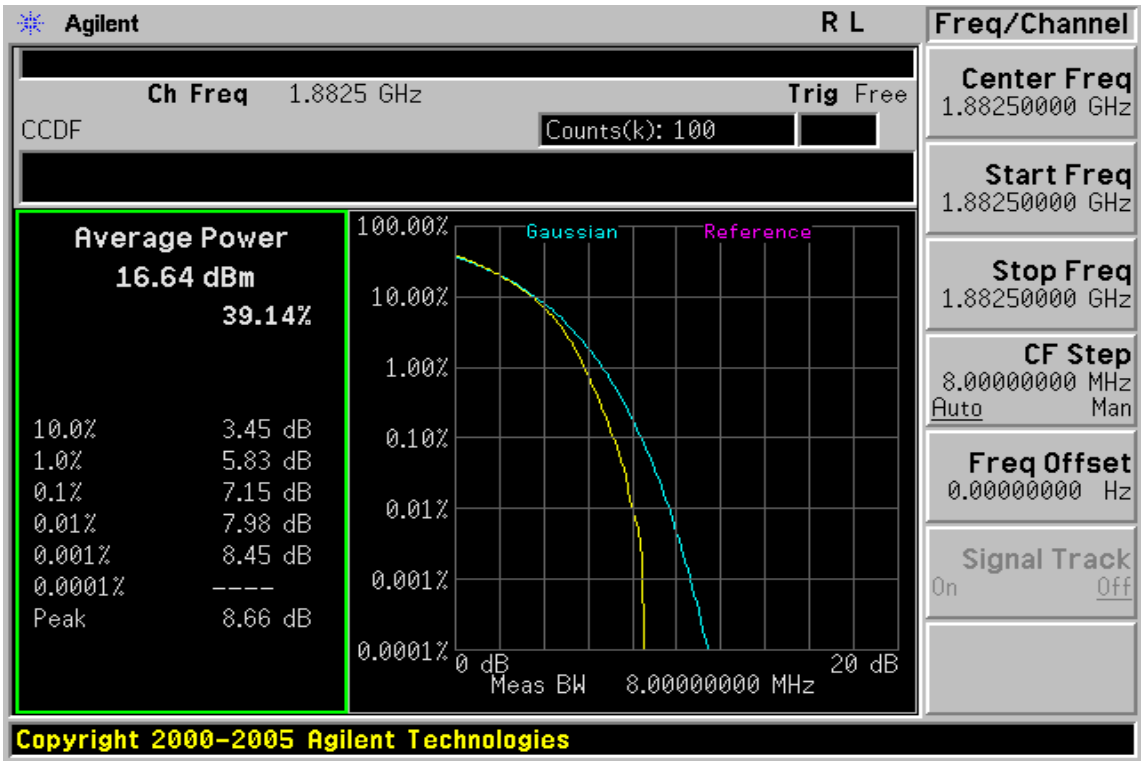


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20MHz BW LTE-Band 25 16QAM Channel Low

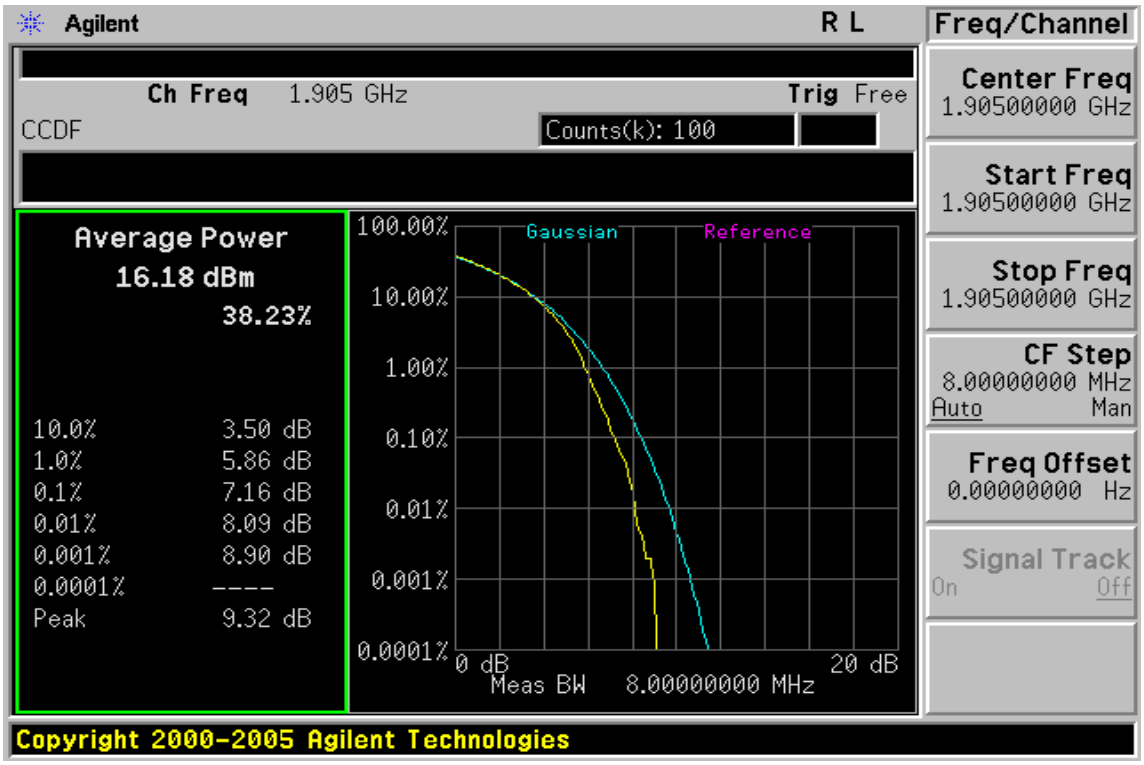


20MHz BW LTE-Band 25 16QAM Channel Mid



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20MHz BW LTE-Band 25 16QAM Channel High



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