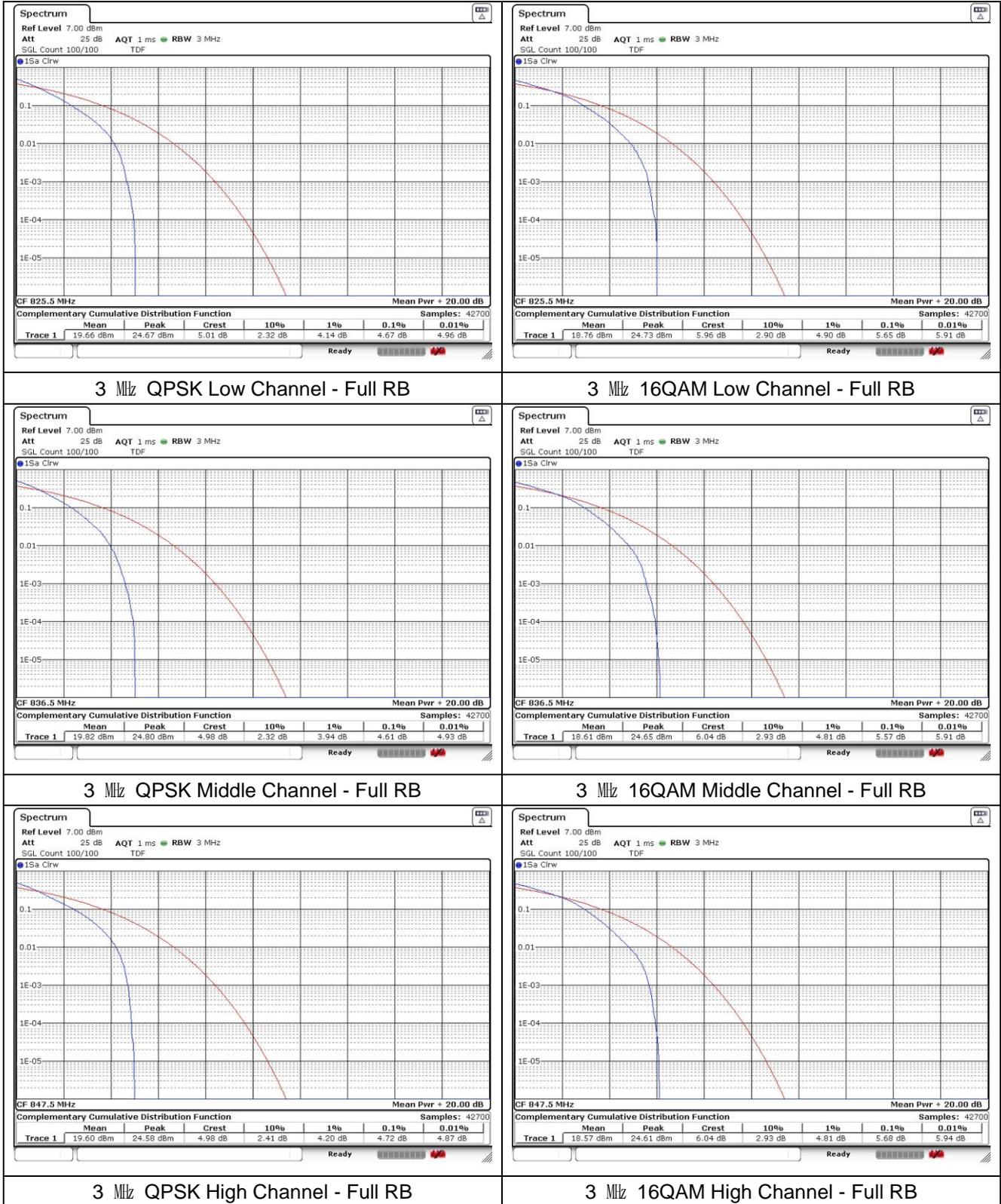
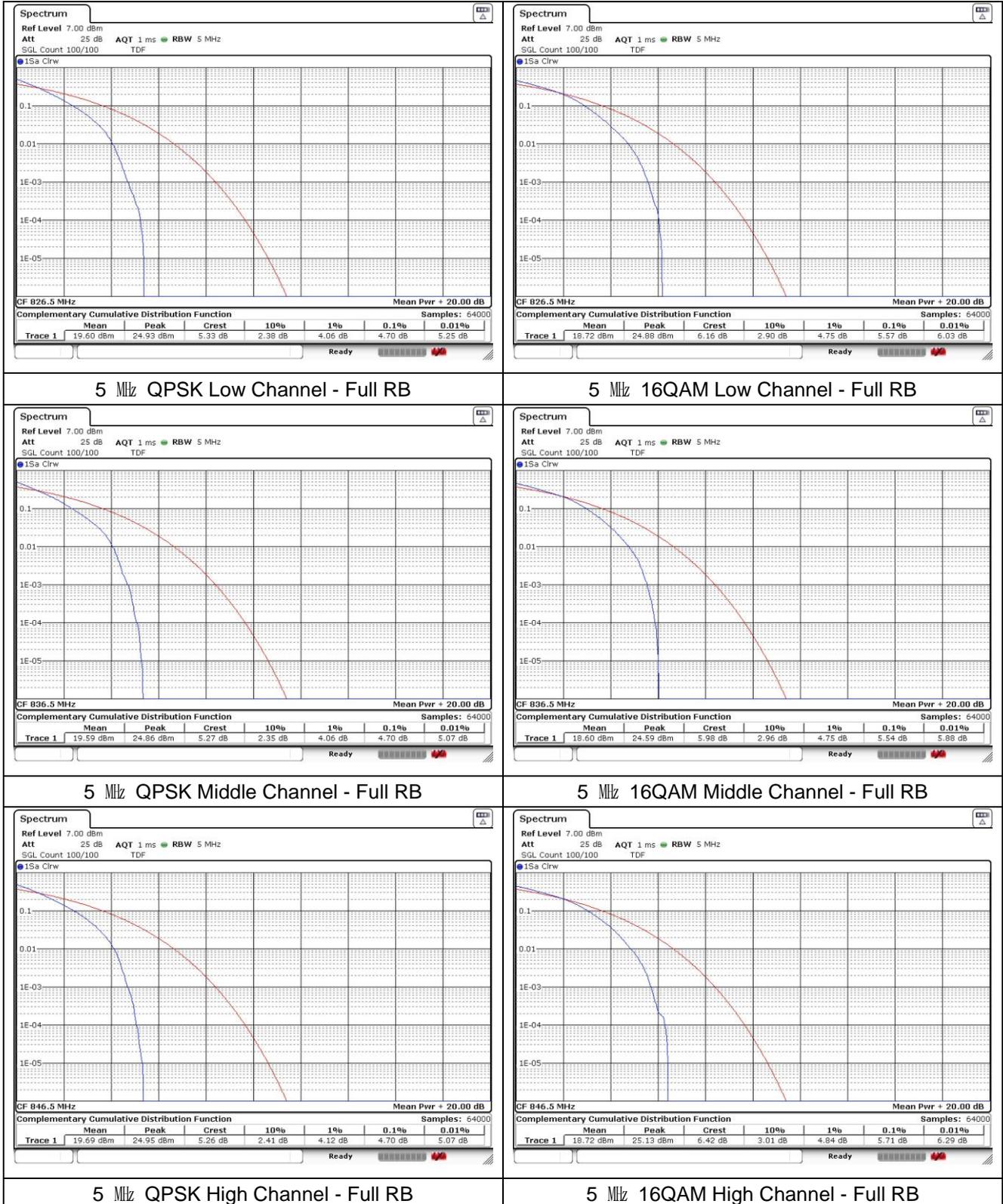


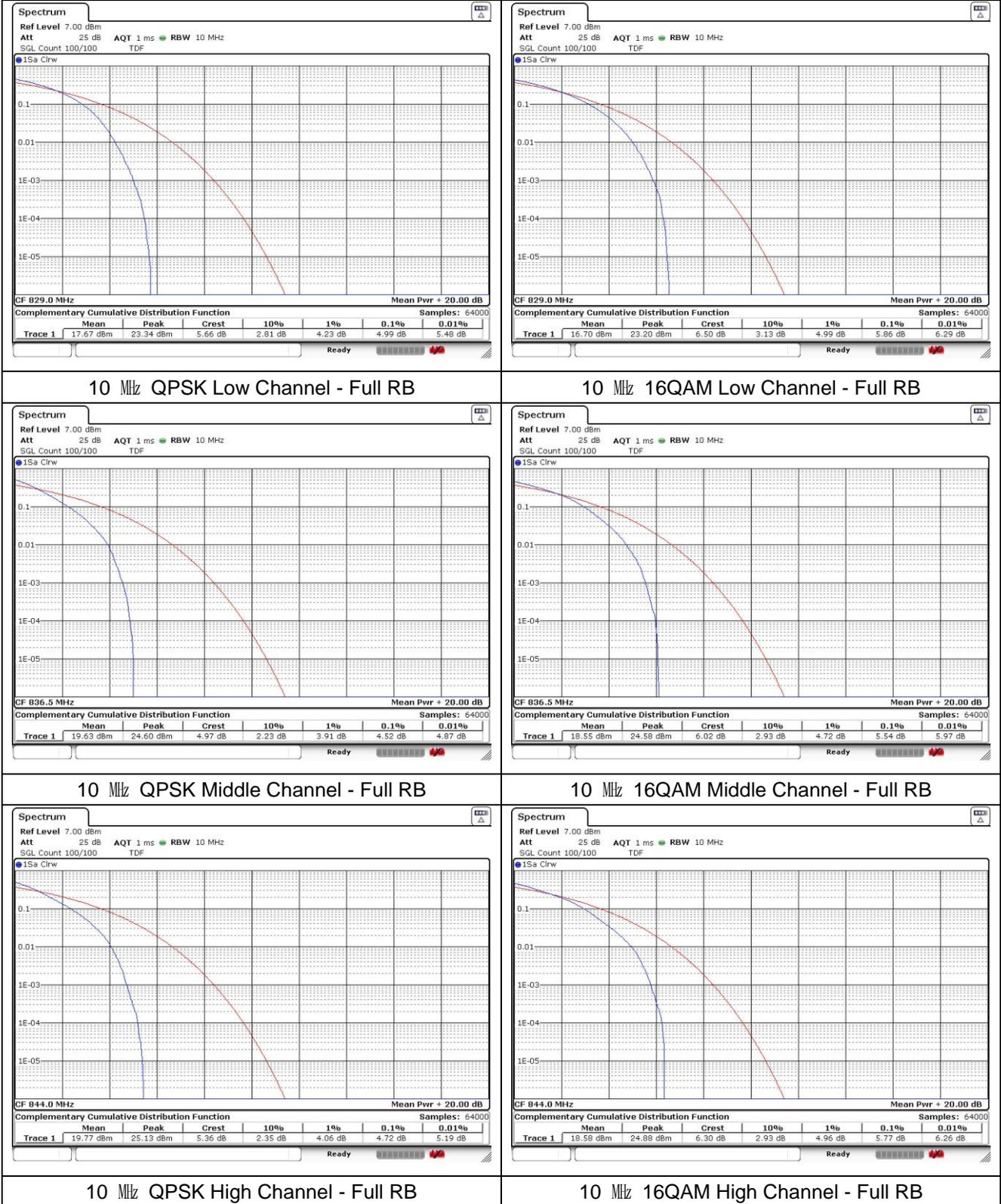
LTE band 26/5



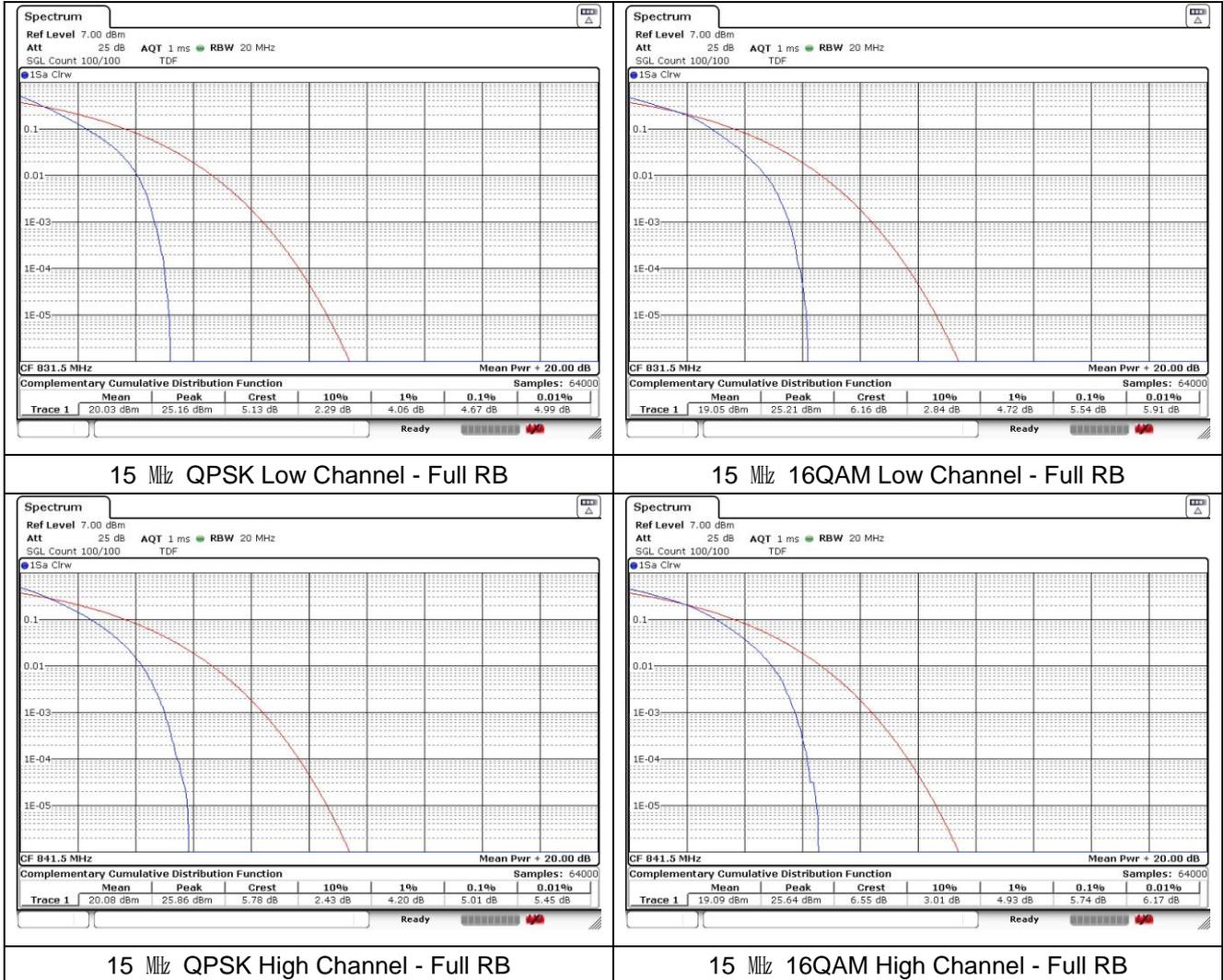
LTE band 26/5



LTE band 26/5



LTE band 26



15 MHz QPSK Low Channel - Full RB

15 MHz 16QAM Low Channel - Full RB

15 MHz QPSK High Channel - Full RB

15 MHz 16QAM High Channel - Full RB

6. Spurious Emissions at Antenna Terminal

6.1. Limit

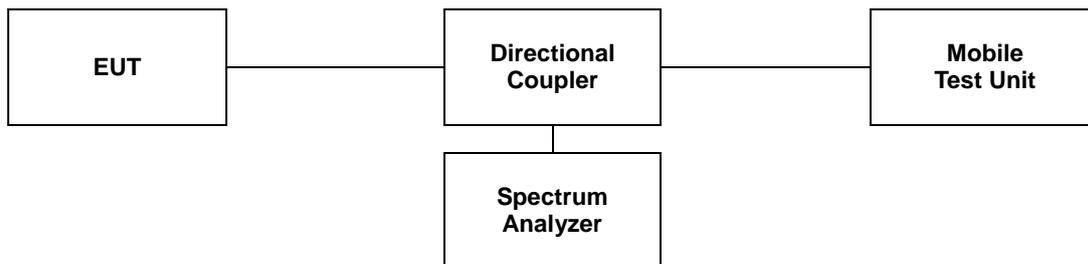
- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

- §27.53(m)(4), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10} (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10} (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10} (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log_{10} (P)$ dB on all frequencies between 2 490.5 MHz and 2 496 MHz and $55 + 10 \log_{10} (P)$ dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 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

6.2. Test Procedure

The test follows section 5.7 of ANSI C63.26-2015.

1. Start frequency was set to 9 kHz and stop frequency was set to at least 10* the fundamental frequency.
2. Detector = Peak.
3. Trace mode = Max hold.
4. Sweep time = Auto couple.
5. The trace was allowed to stabilize.
6. Please see notes below for RBW and VBW settings.
7. For plots showing conducted spurious emissions from 9 kHz to 26 GHz, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as correction factor.



Note;

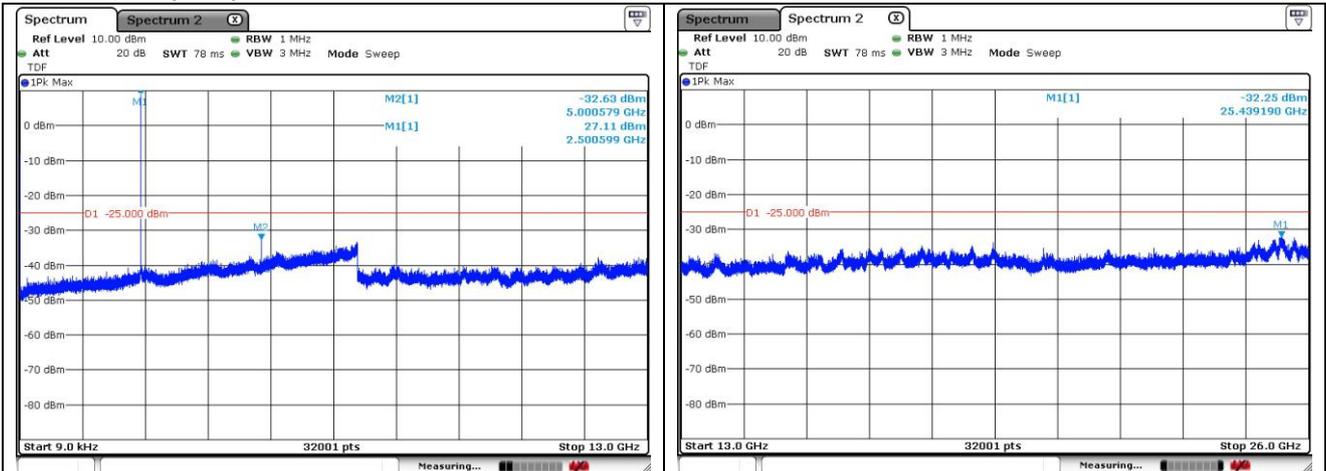
Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two point, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

6.3. Test Results

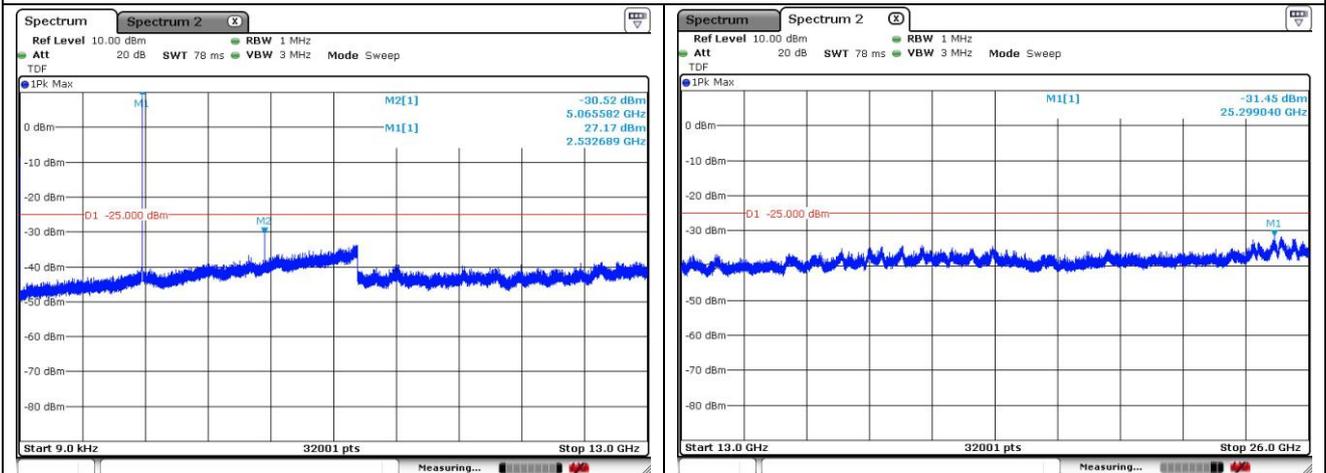
Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

- Test plots

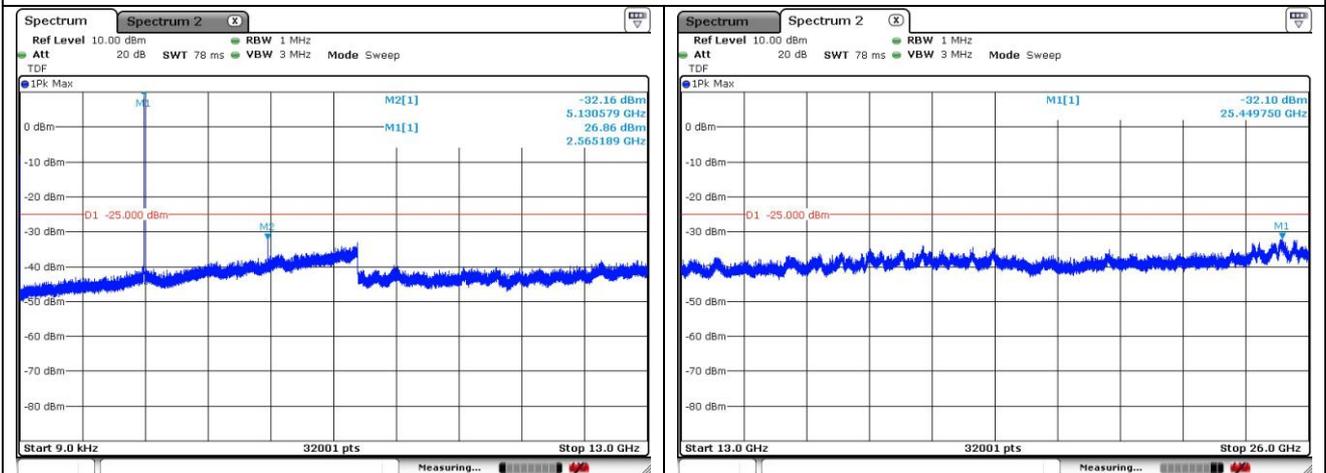
LTE band 7 (5 MHz)



QPSK Low Channel

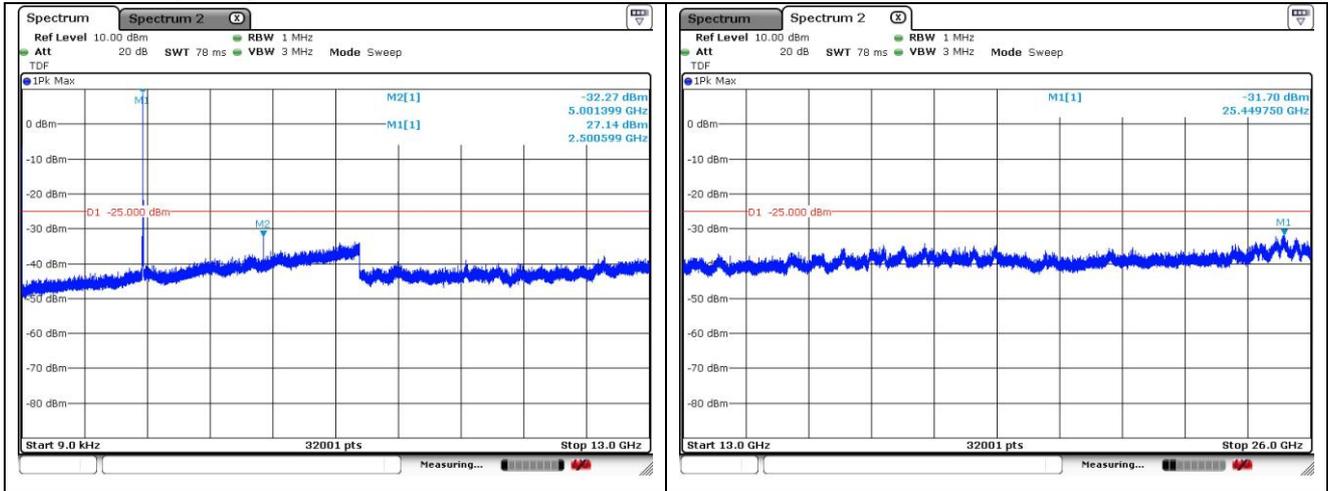


QPSK Middle Channel

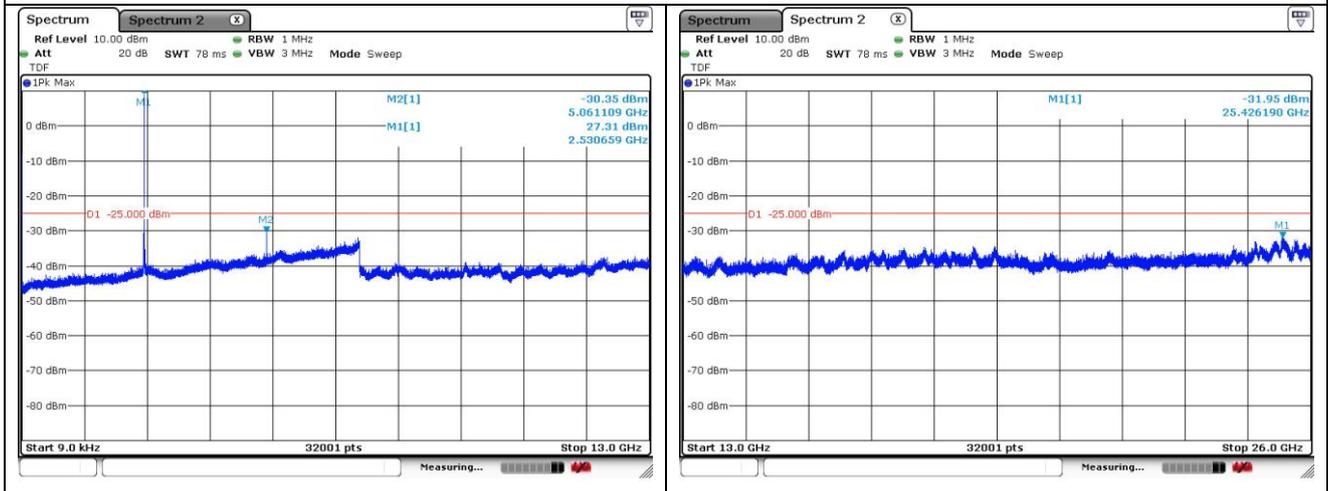


QPSK High Channel

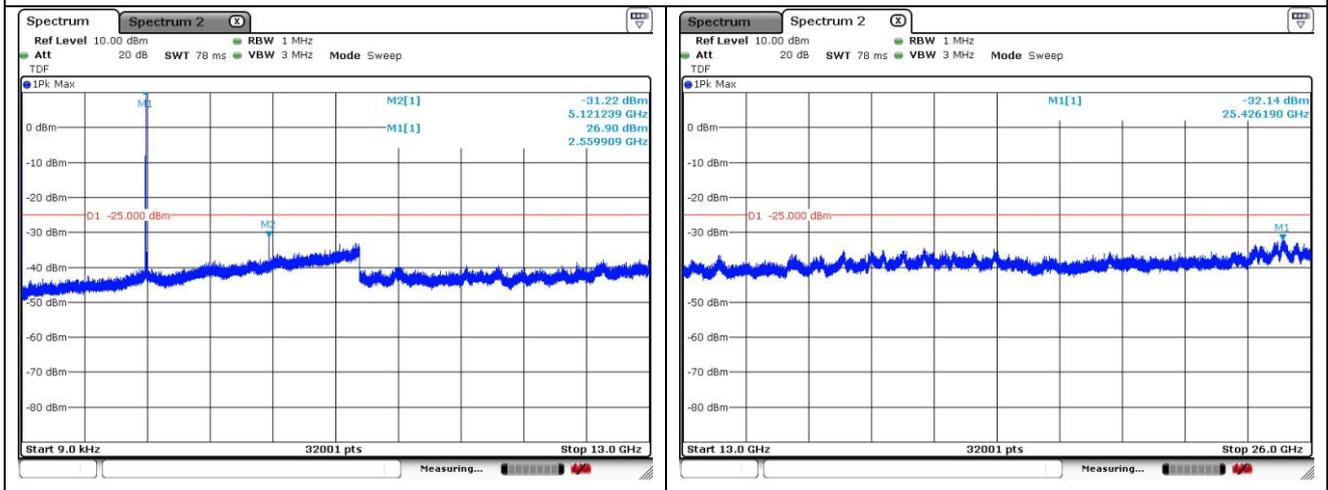
LTE band 7 (10 MHz)



QPSK Low Channel

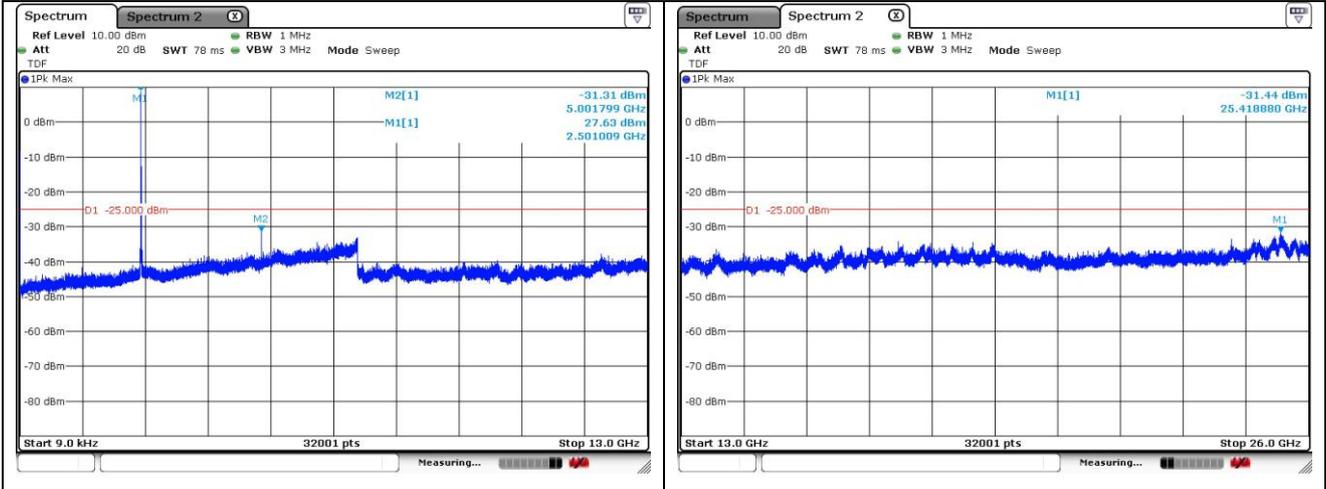


QPSK Middle Channel

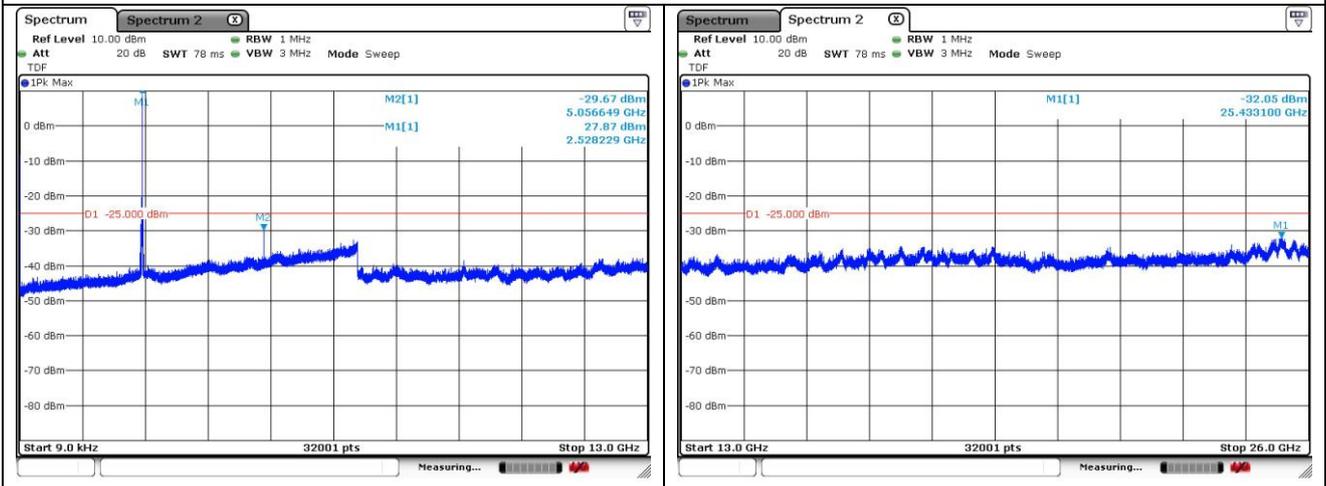


QPSK High Channel

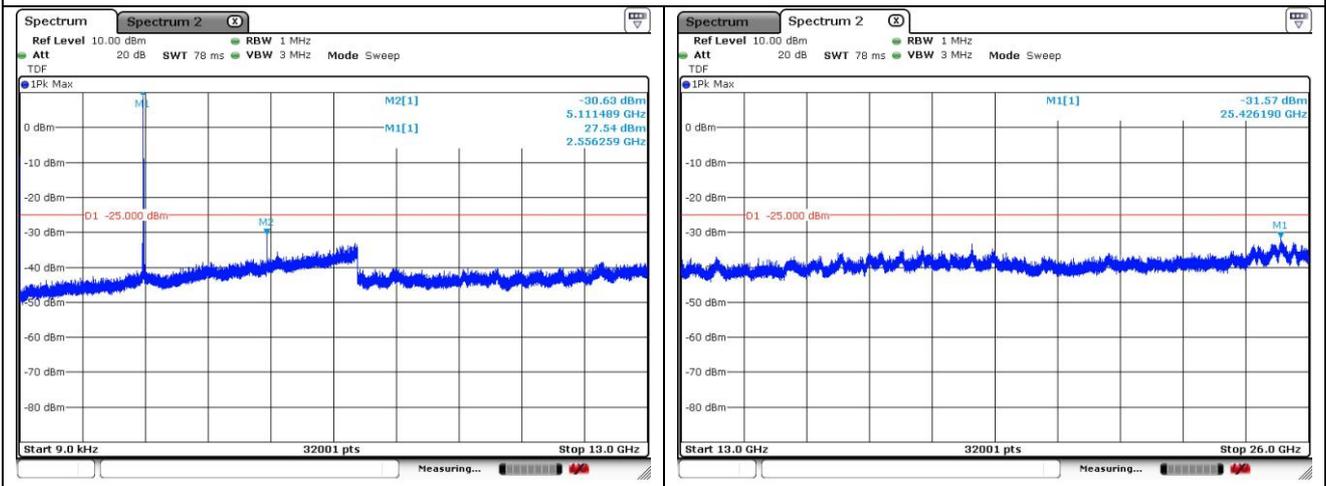
LTE band 7 (15 MHz)



QPSK Low Channel

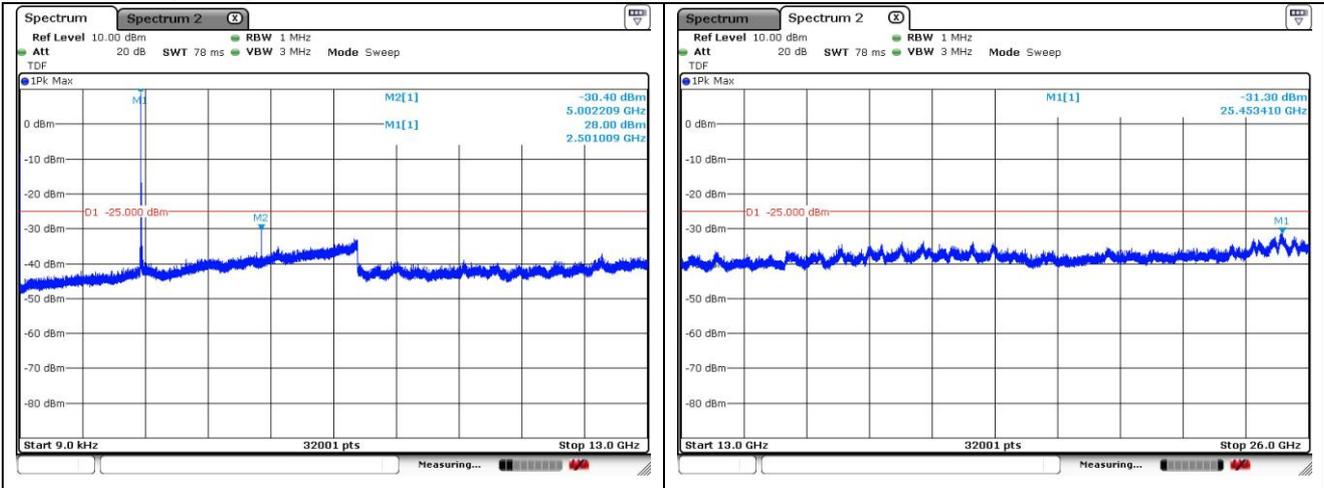


QPSK Middle Channel

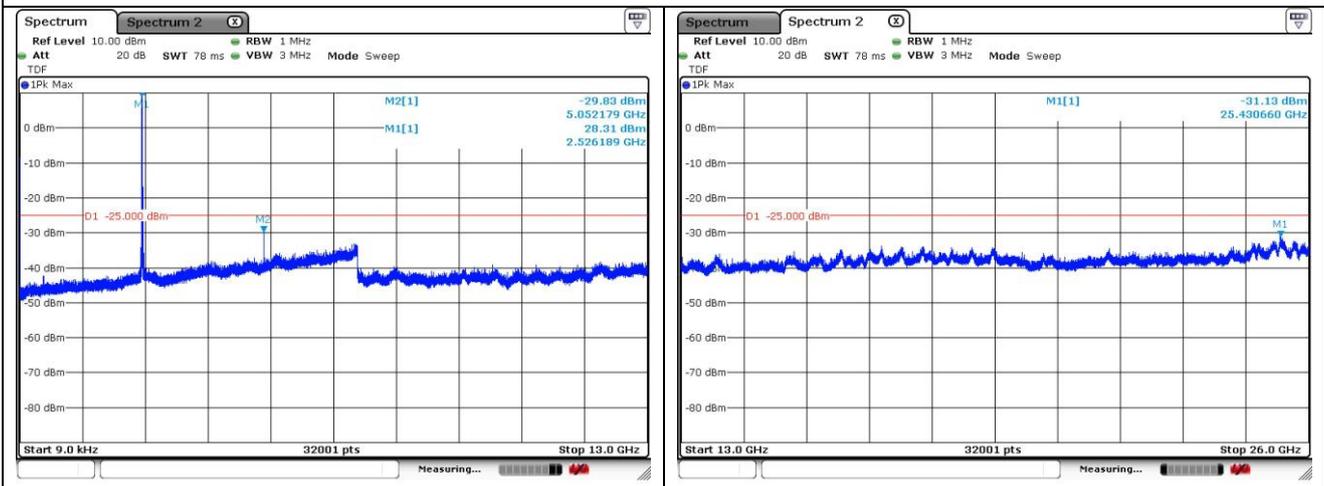


QPSK High Channel

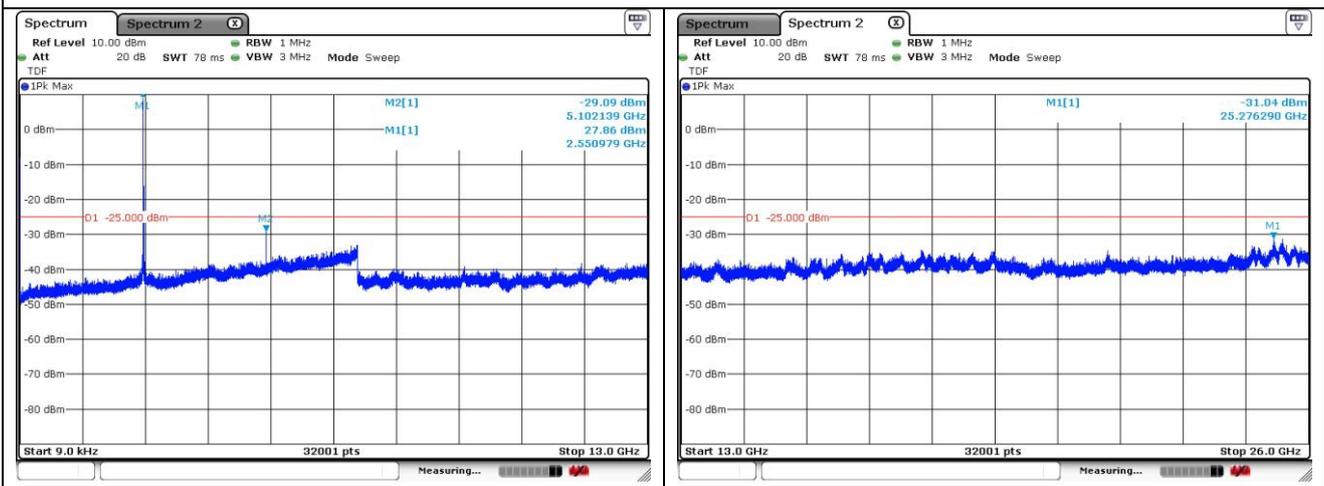
LTE band 7 (20 MHz)



QPSK Low Channel

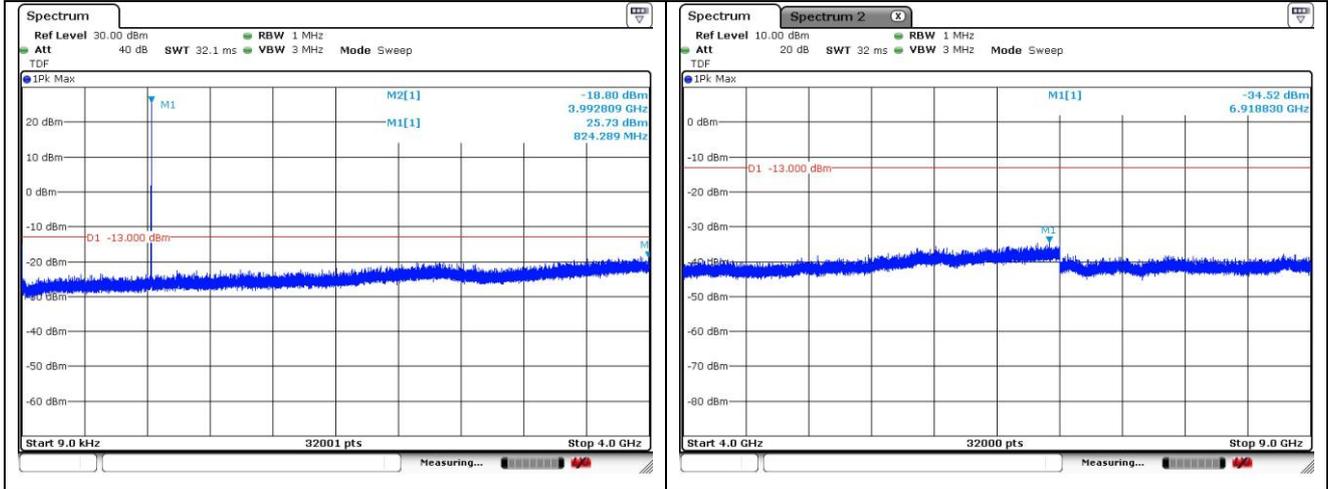


QPSK Middle Channel

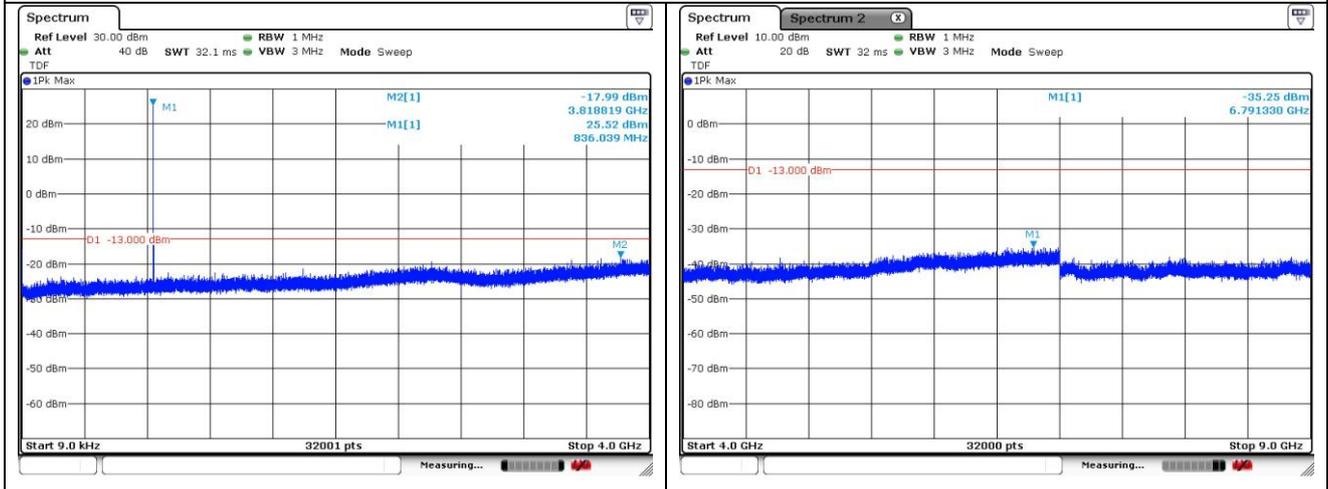


QPSK High Channel

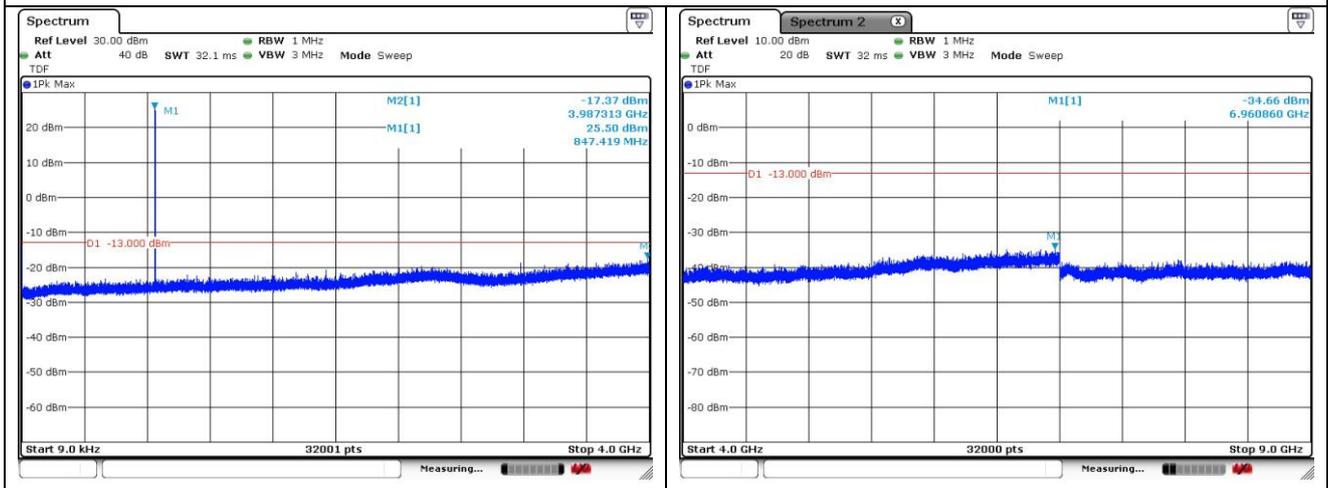
LTE band 26/5 (1.4 MHz)



QPSK Low Channel

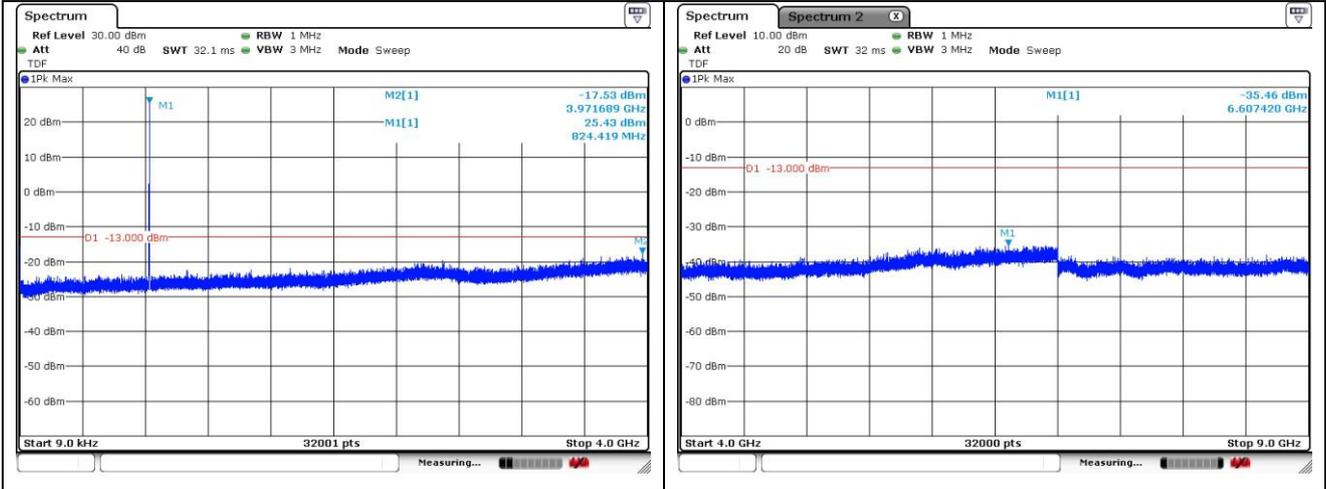


QPSK Middle Channel

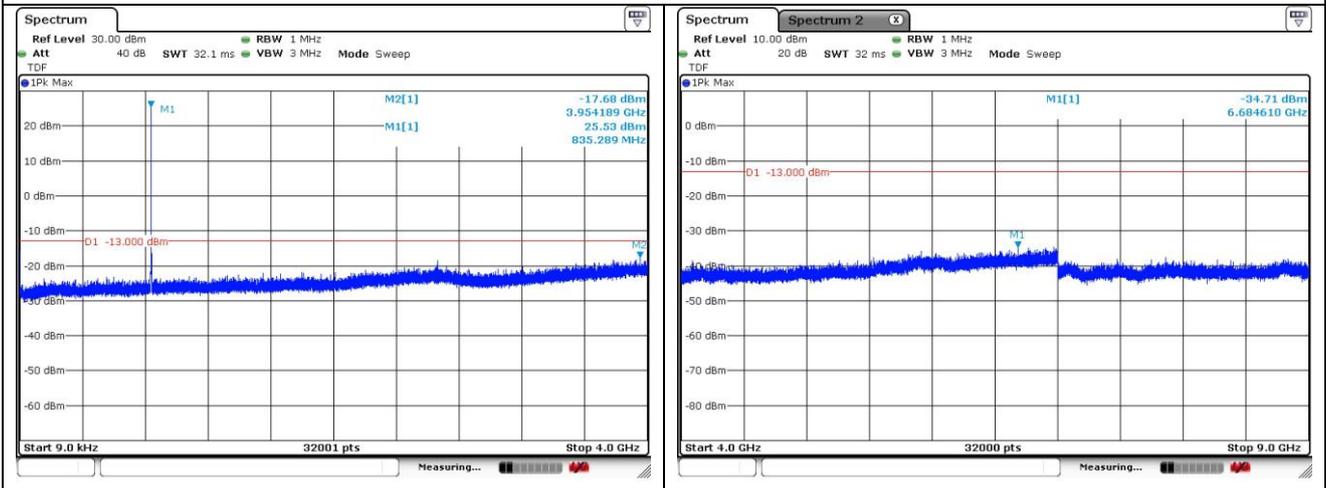


QPSK High Channel

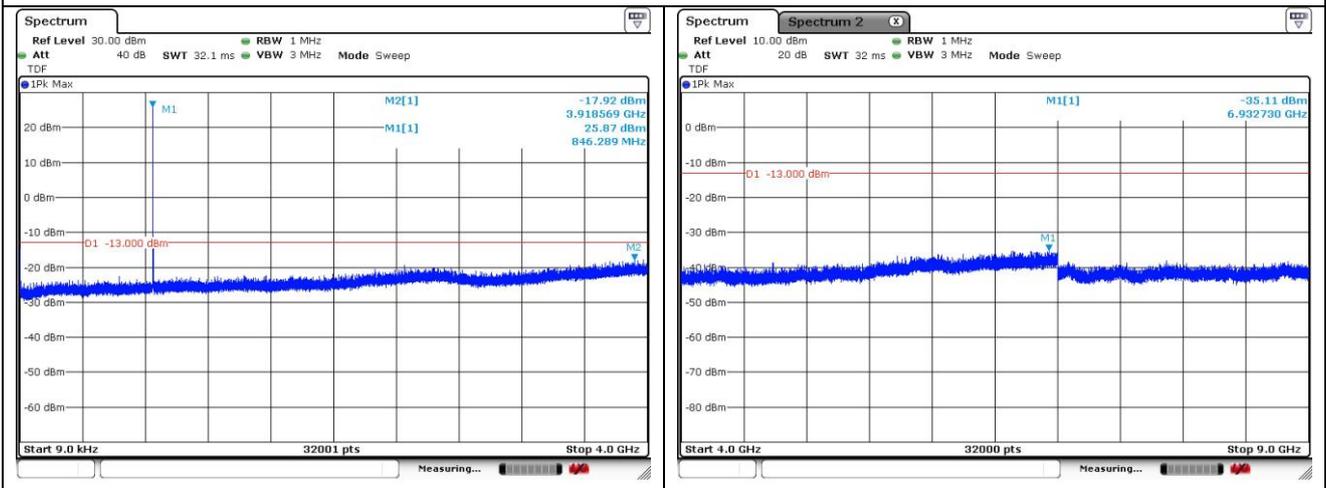
LTE band 26/5 (3 MHz)



QPSK Low Channel

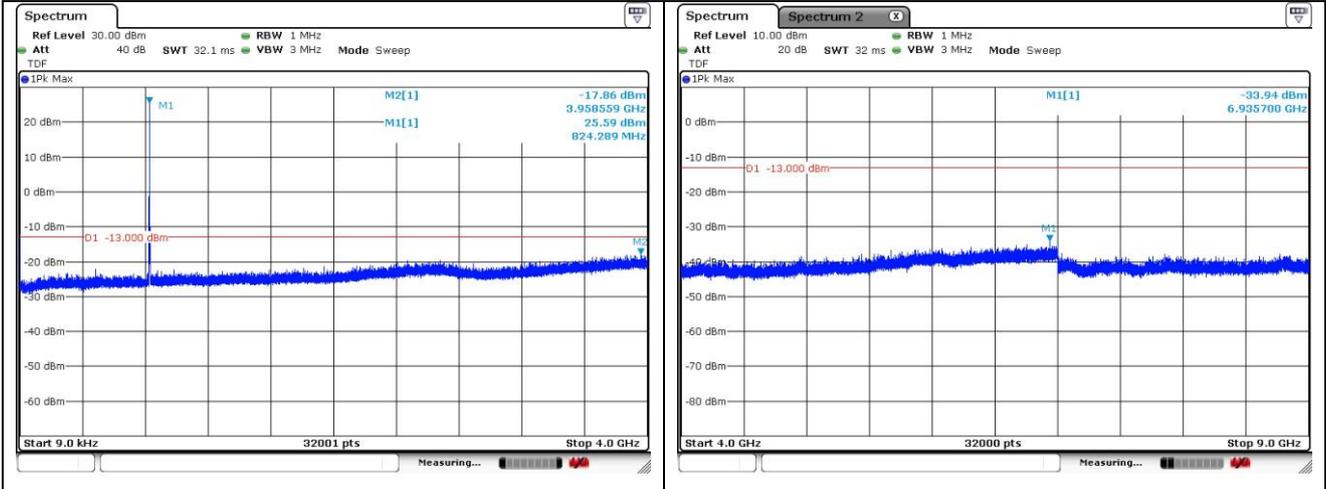


QPSK Middle Channel

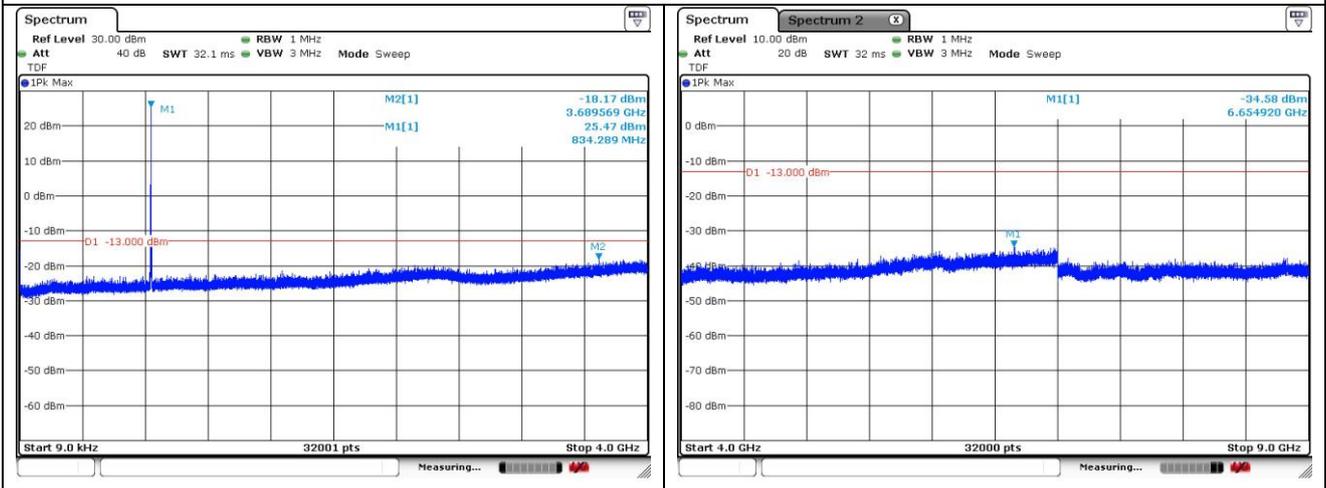


QPSK High Channel

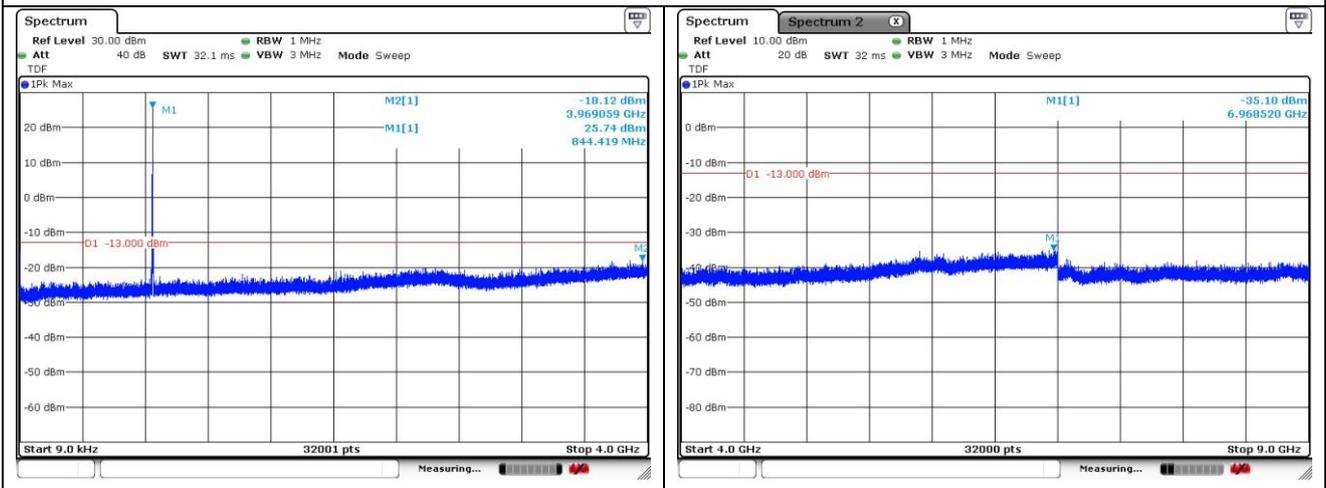
LTE band 26/5 (5 MHz)



QPSK Low Channel

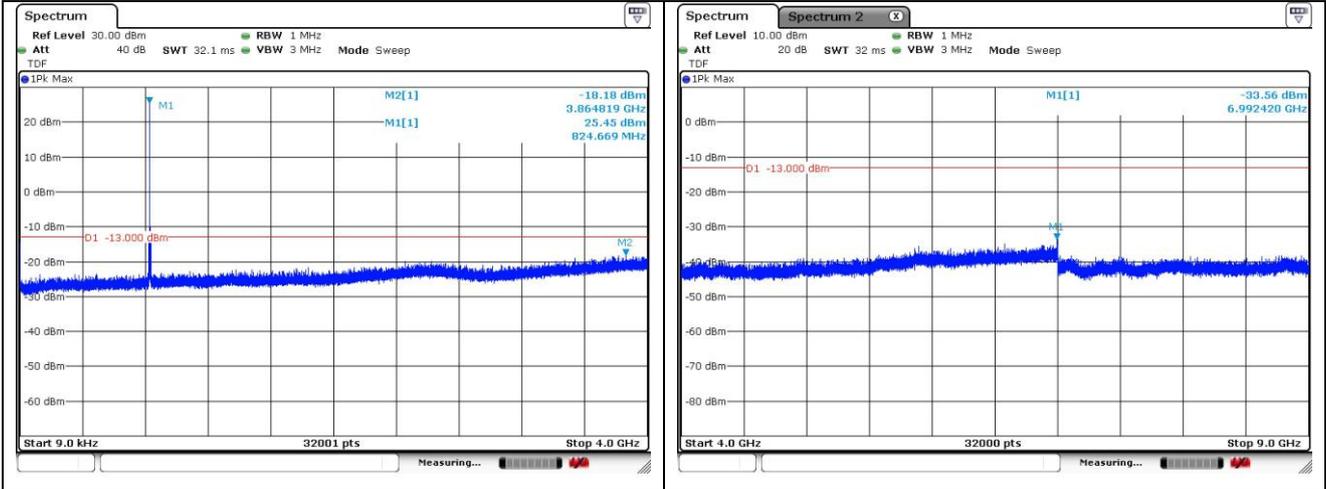


QPSK Middle Channel

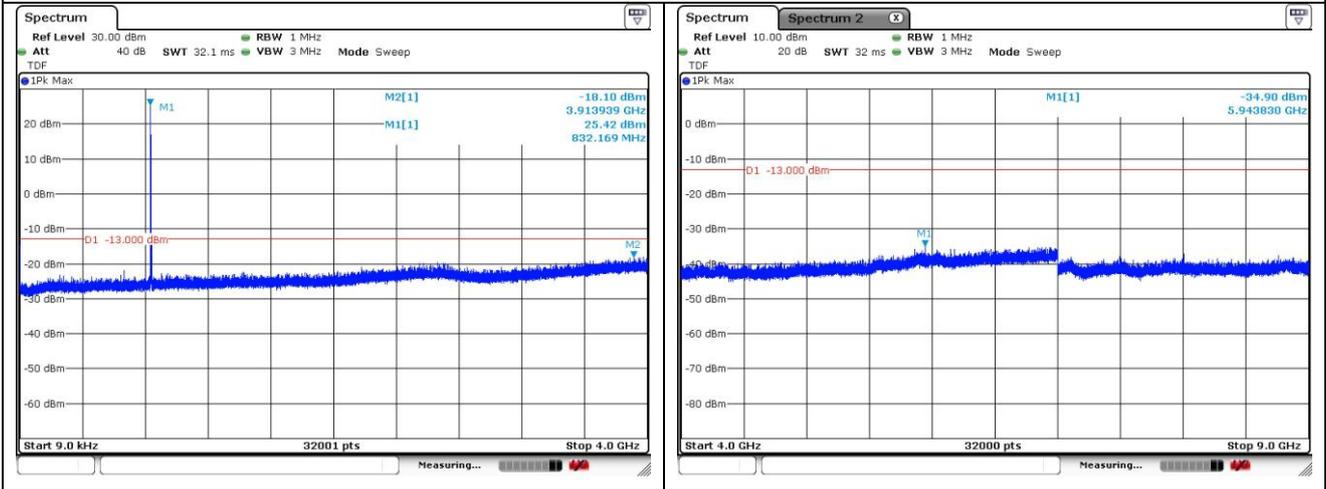


QPSK High Channel

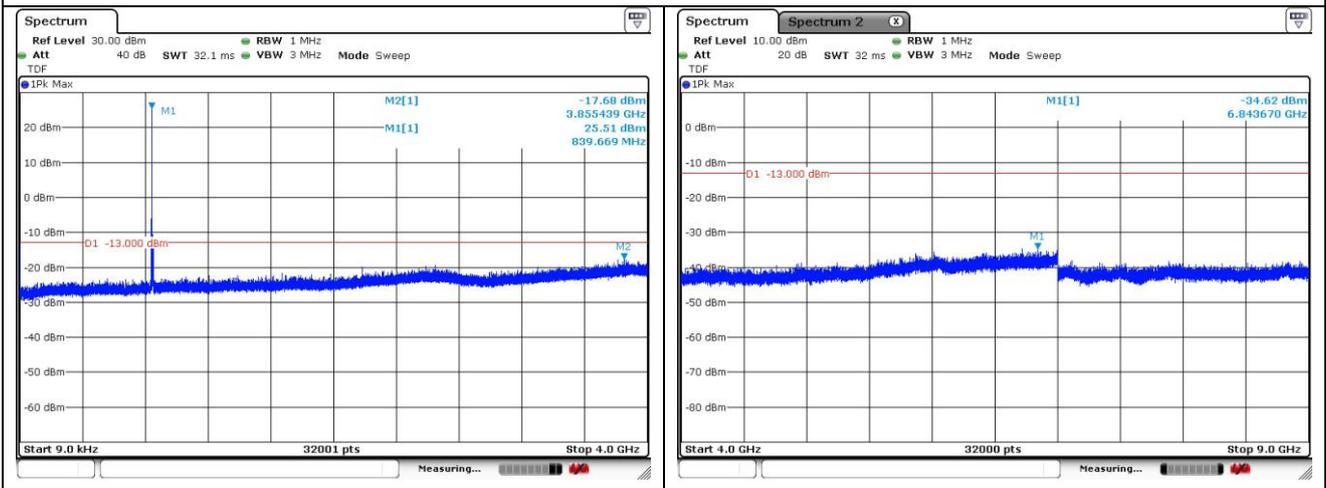
LTE band 26/5 (10 MHz)



QPSK Low Channel

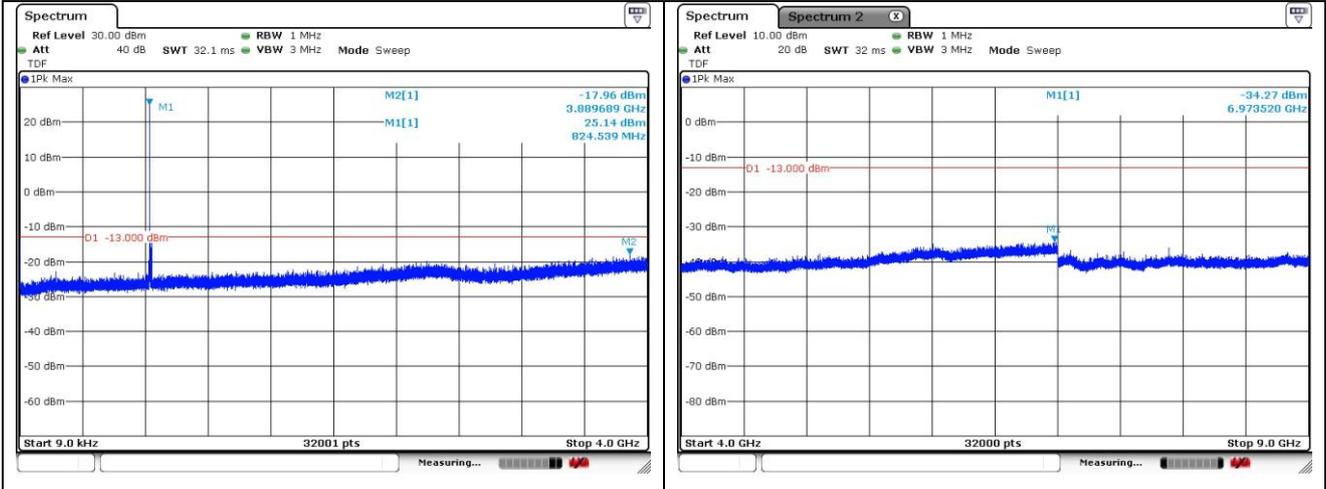


QPSK Middle Channel

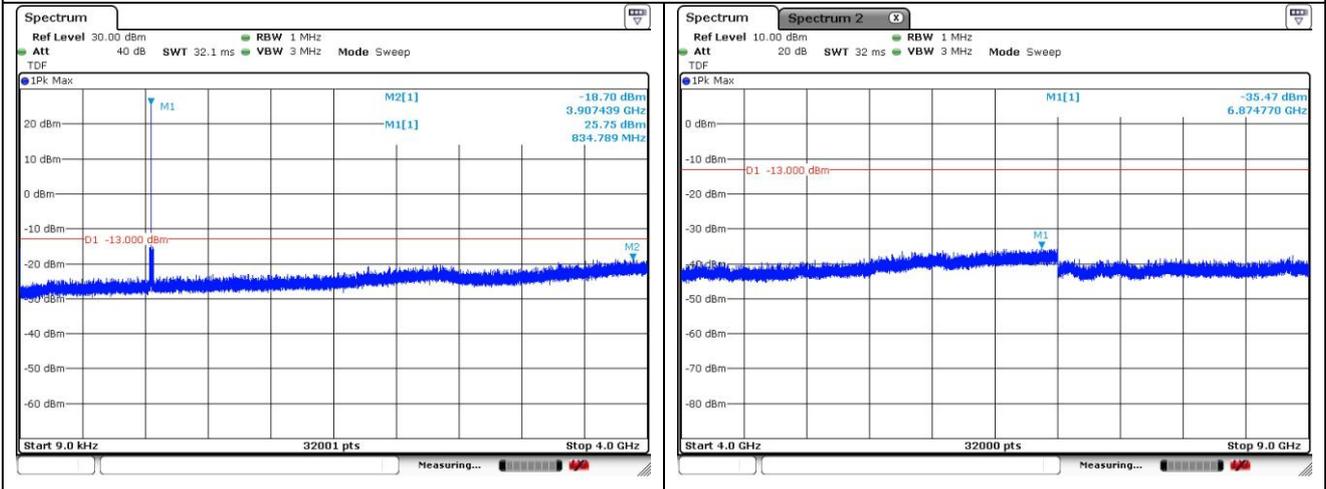


QPSK High Channel

LTE band 26 (15 MHz)



QPSK Low Channel



QPSK High Channel

7. Band Edge

7.1. Limit

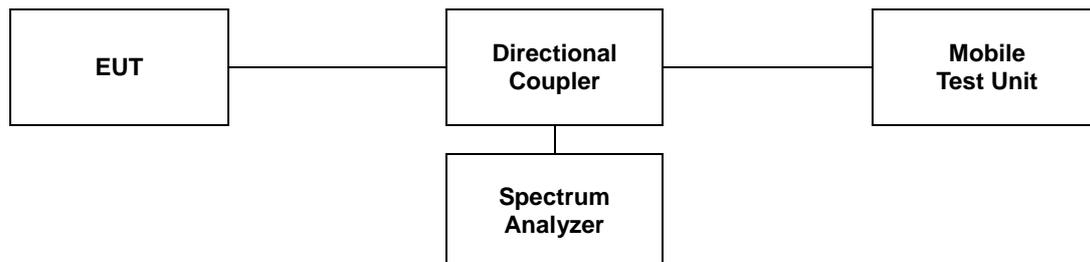
- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

- §27.53(m)(4), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10}(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10}(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10}(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log_{10}(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log_{10}(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

7.2. Test Procedure

The test follows section 5.7 of ANSI C63.26-2015.

- a. Span was set large enough so as to capture all out of band emissions near the band edge.
- b. RBW $\geq 1\%$ of OBW
- c. VBW $\geq 3 \times$ RBW.
- d. Detector = RMS.
- e. Trace mode = Average.
- f. Sweep time = Auto.
- g. The trace was allowed to stabilize.
- h. All path loss of frequency range was investigated and compensated to spectrum analyzer as TDF function.

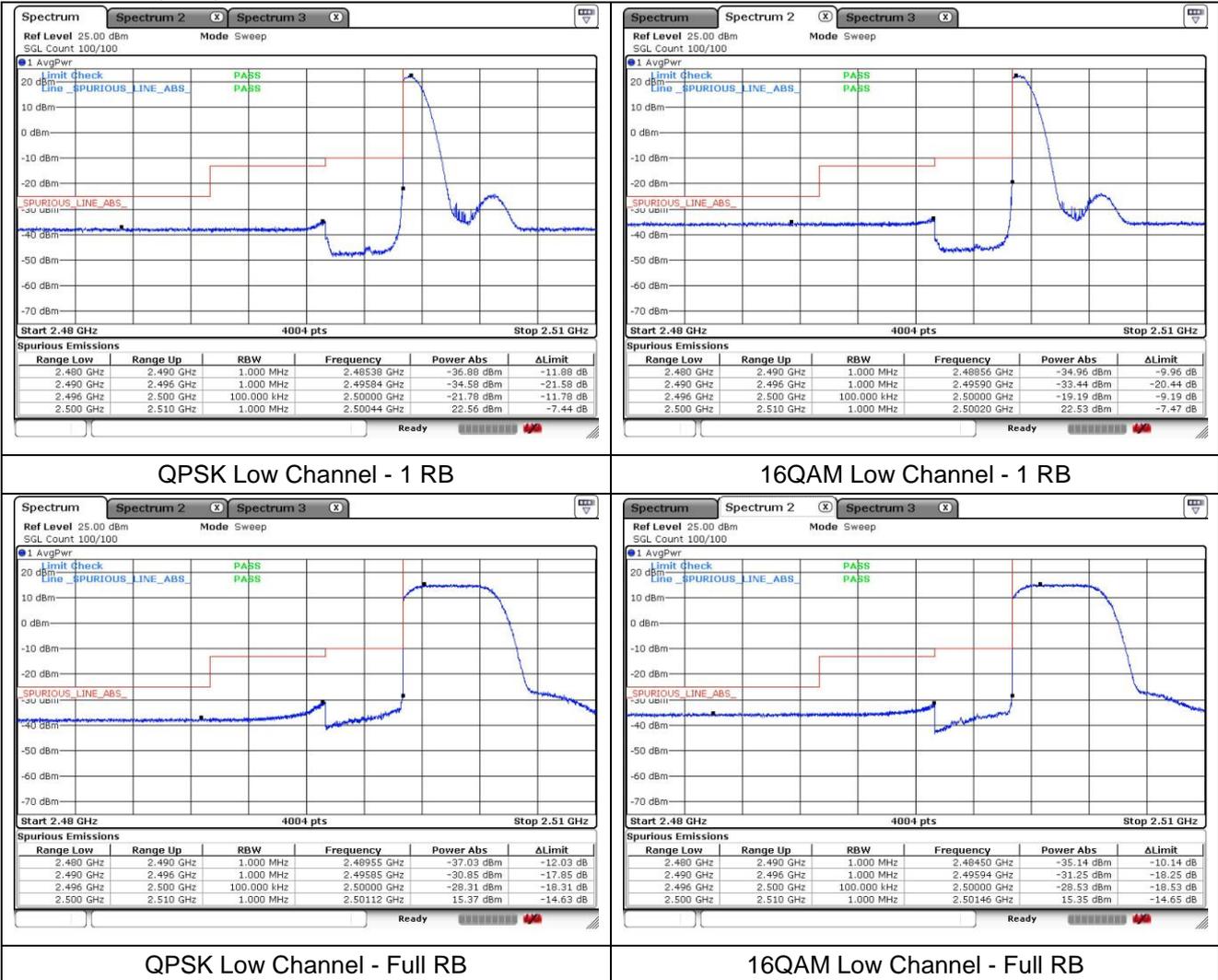


7.3. Test Results

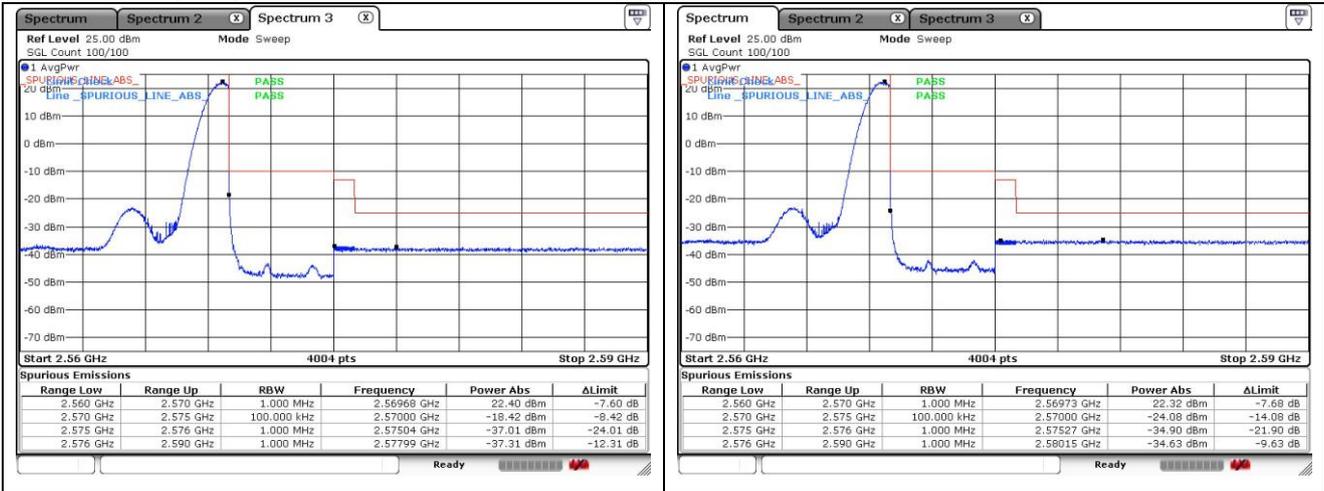
Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

- Test plots

LTE band 7 (5 MHz)

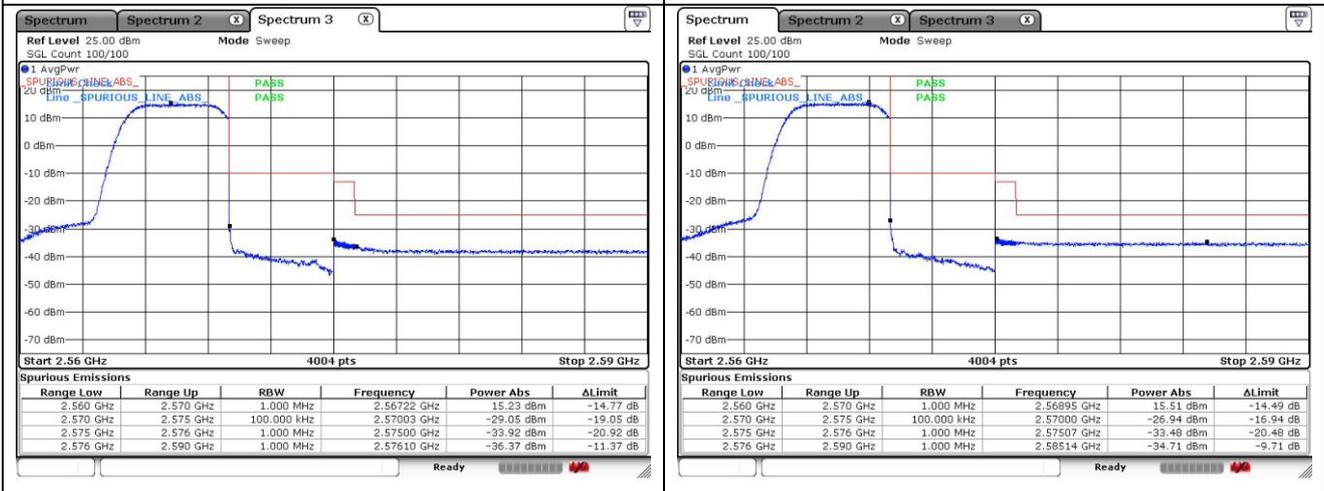


LTE band 7 (5 MHz)



QPSK High Channel - 1 RB

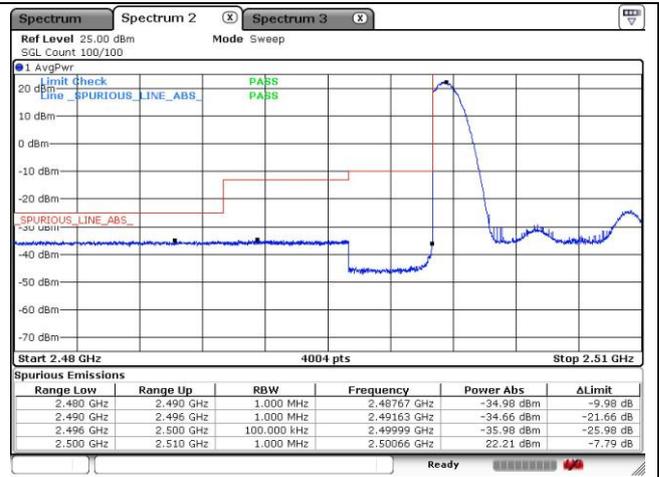
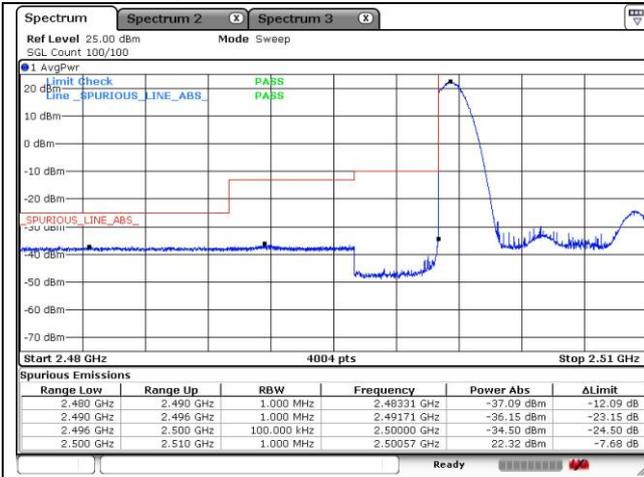
16QAM High Channel - 1 RB



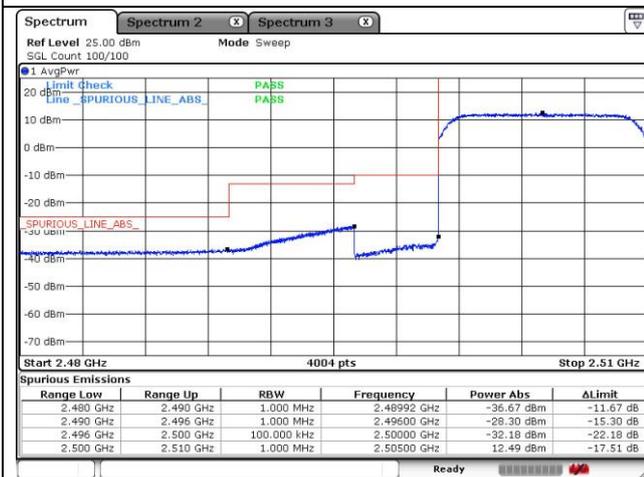
QPSK High Channel - Full RB

16QAM High Channel - Full RB

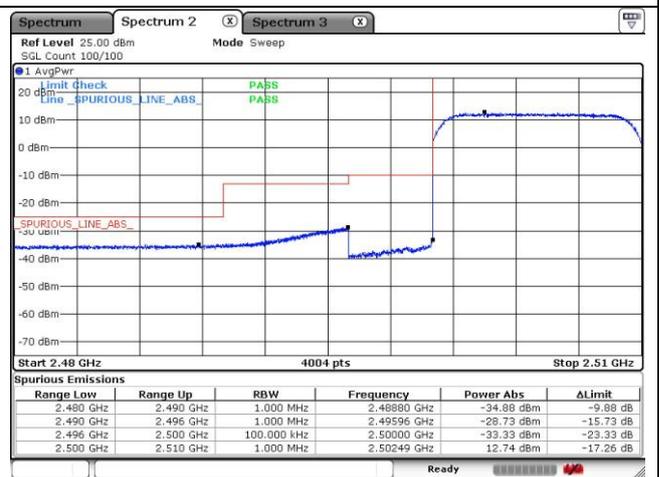
LTE band 7 (10 MHz)



QPSK Low Channel - 1 RB



16QAM Low Channel - 1 RB



QPSK Low Channel - Full RB

16QAM Low Channel - Full RB