

LTE band 12 (3 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 12 (5 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 12 (10 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 13 (5 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 13 (10 MHz - QPSK)

Middle Channel



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LTE band 17 (5 MHz - QPSK)

Low Channel



Middle Channel



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LTE band 17 (10 MHz - QPSK)

Low Channel



Middle Channel



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6. Spurious Emissions at Antenna Terminal

6.1. Limit

FCC

- §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.

- §24.238(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(c)(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.

- §27.53(g), the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.

- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

IC

- RSS-130 Issue 1

4.6.1, the power of any unwanted emissions in any 100 kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power, P (dB W), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

4.6.2, In addition to the limit outlined in Section 4.6.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dB W), by at least:

- (i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment, and
- (ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment.

(b) The e.i.r.p. in the band 1 559-1 610 MHz shall not exceed -70 dB W/MHz for wideband signal and -80 dB W for discrete emission with bandwidth less than 700 Hz.

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- RSS-132 Issue 3

5.5, Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1 % of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kHz is required.

- RSS-133 Issue 6

6.5, Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1 % of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1 % of the emission bandwidth, power integration over 1.0 MHz is required.

- RSS-139 Issue 3

6.6, (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,² which can contain the equipment's occupied bandwidth, the emission power per any 1 % of the emission bandwidth shall be attenuated below the transmitter output power P (in dB W) by at least $43 + 10 \log_{10} p$ (watts) dB.

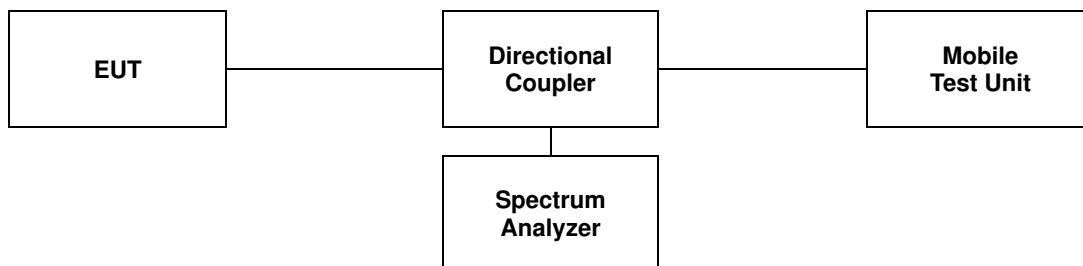
(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dB W) by at least $43 + 10 \log_{10} p$ (watts) dB.

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6.2. Test Procedure

The test follows section 6.0 of FCC KDB Publication 971168 D01 v02r02.

1. Start frequency was set to 30 MHz 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 30 MHz to 20 GHz, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as correction factor.



Notes;

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.

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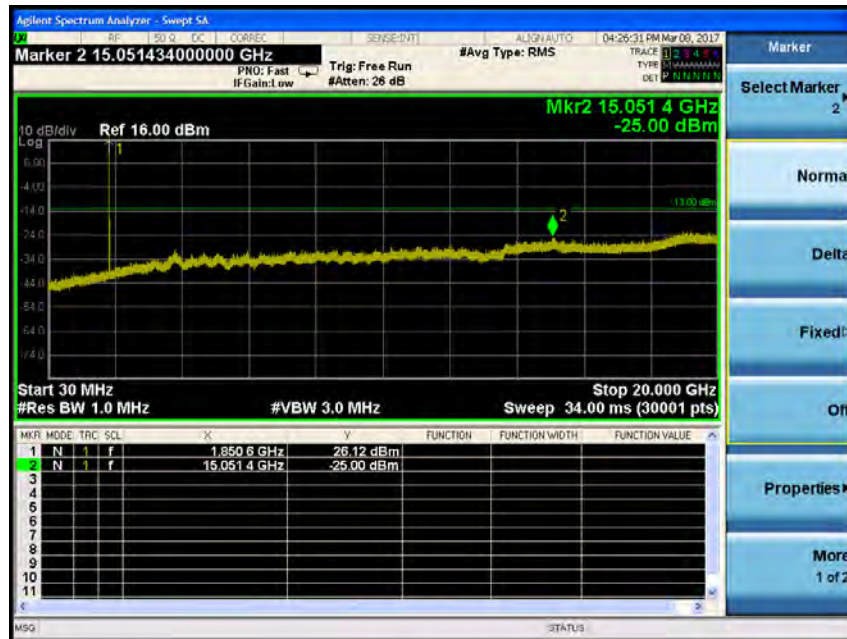
6.3. Test Results

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

Please refer to the following plots.

LTE band 2 (1.4 MHz - QPSK)

Low Channel

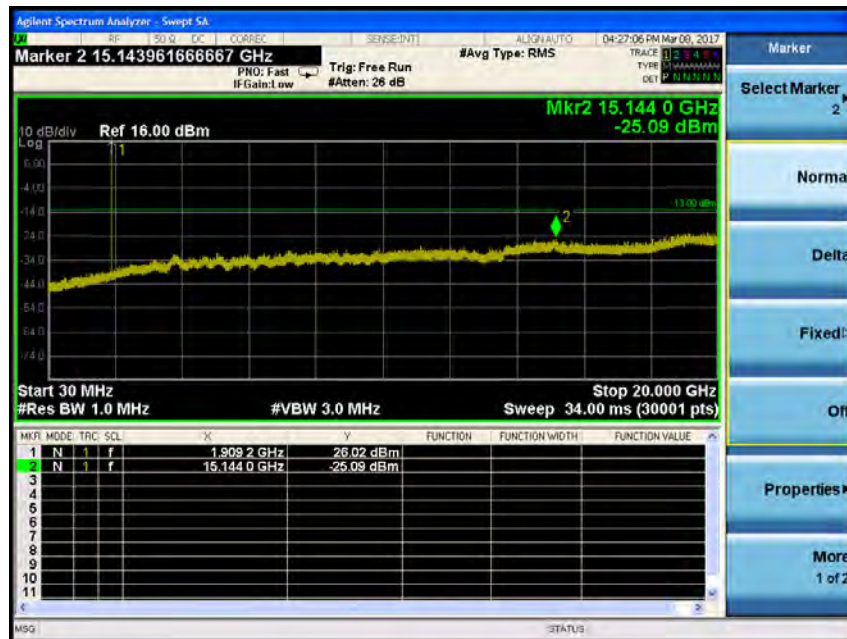


Middle Channel



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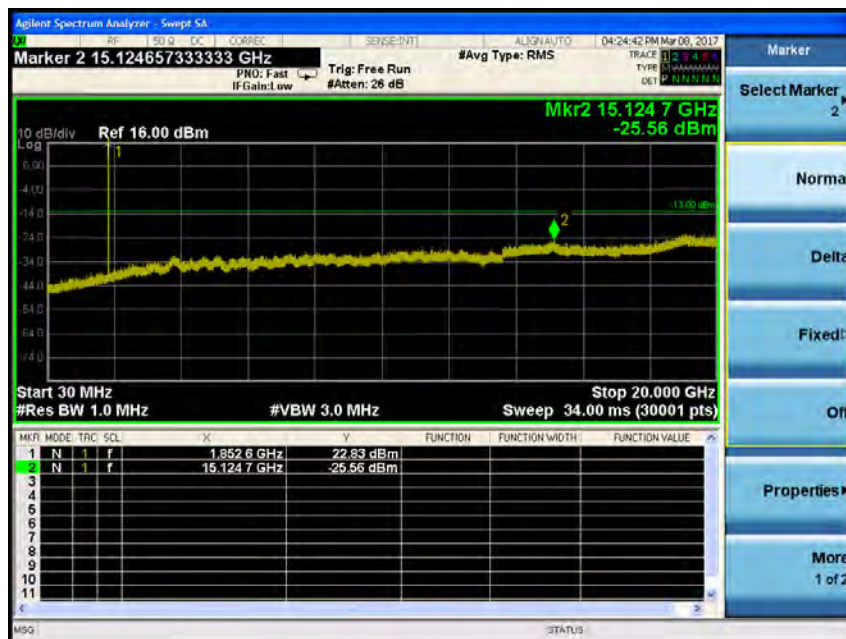
High Channel



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LTE band 2 (3 MHz - QPSK)

Low Channel

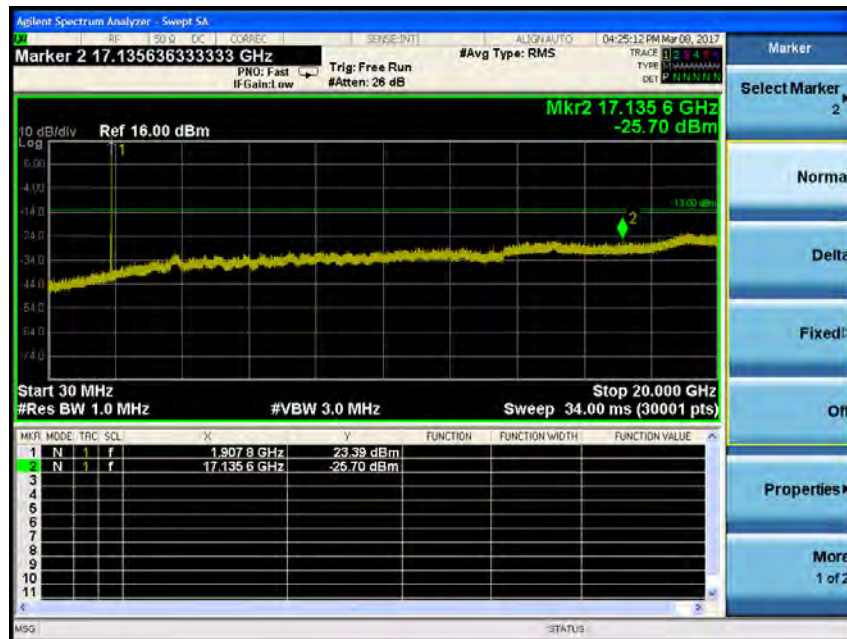


Middle Channel



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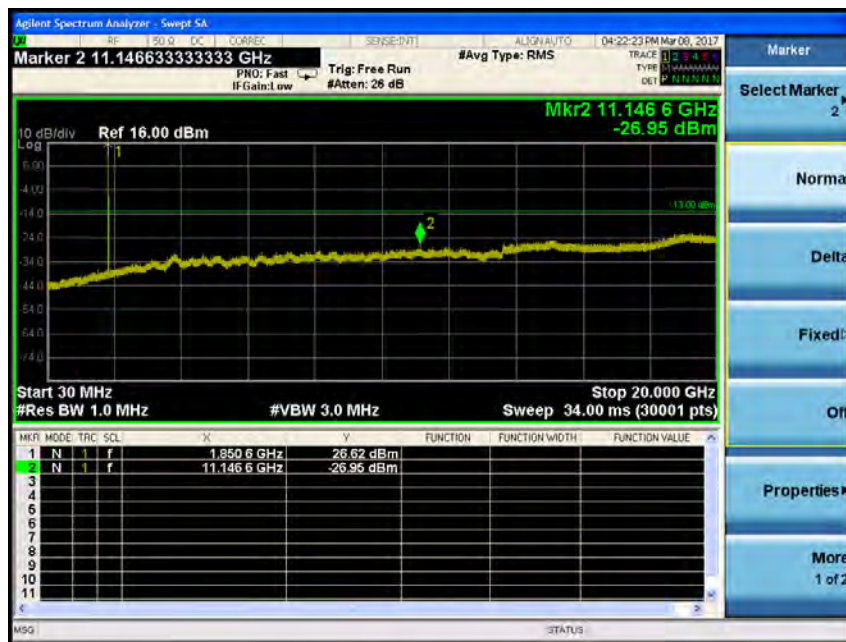
High Channel



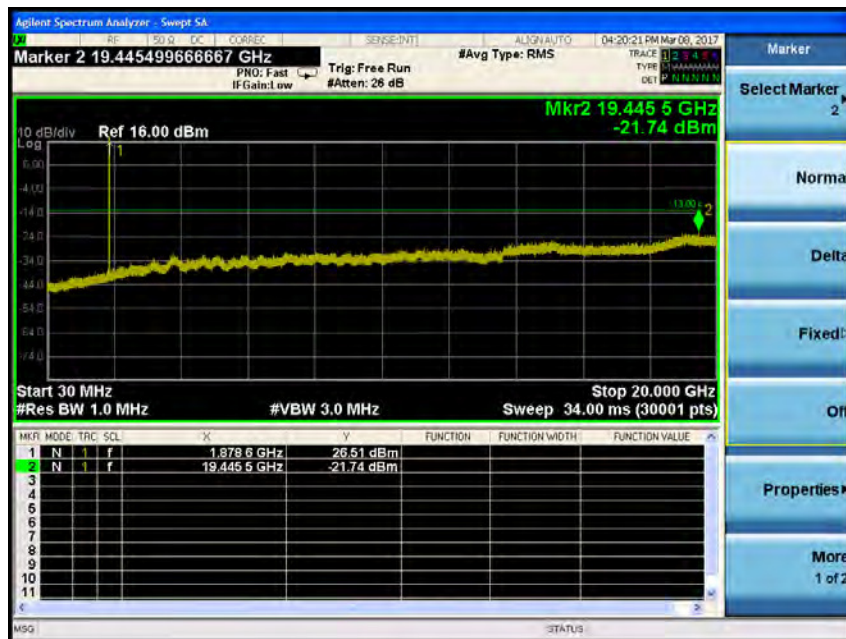
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LTE band 2 (5 MHz - QPSK)

Low Channel

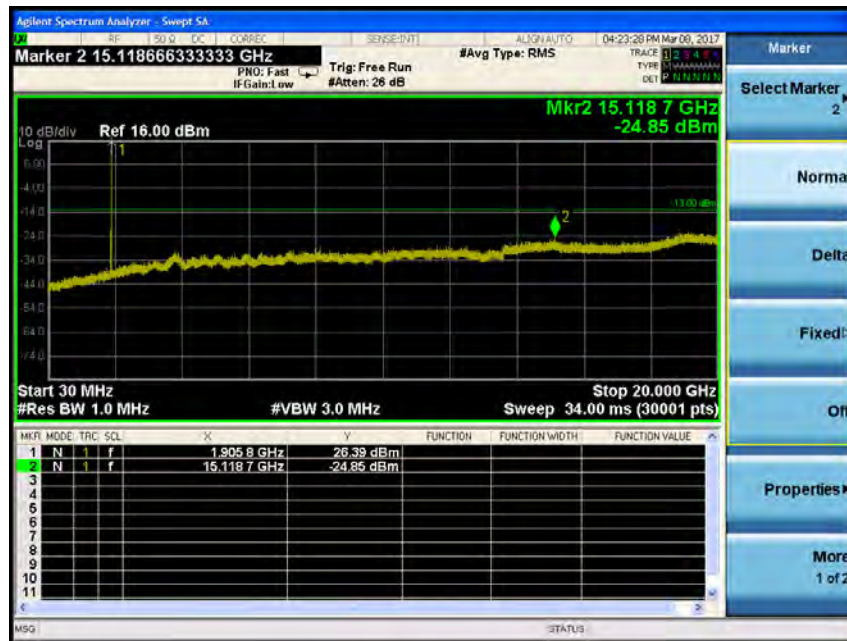


Middle Channel



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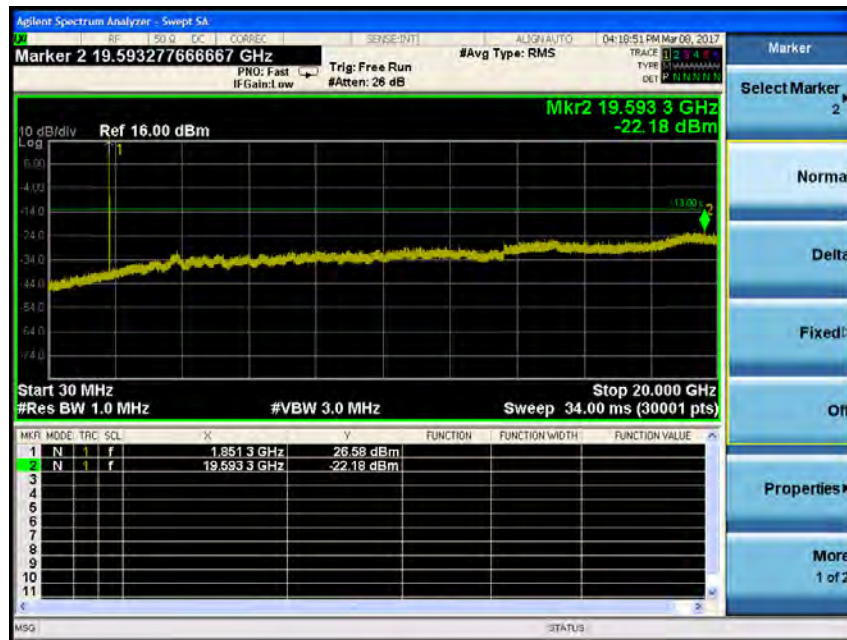
High Channel



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LTE band 2 (10 MHz - QPSK)

Low Channel

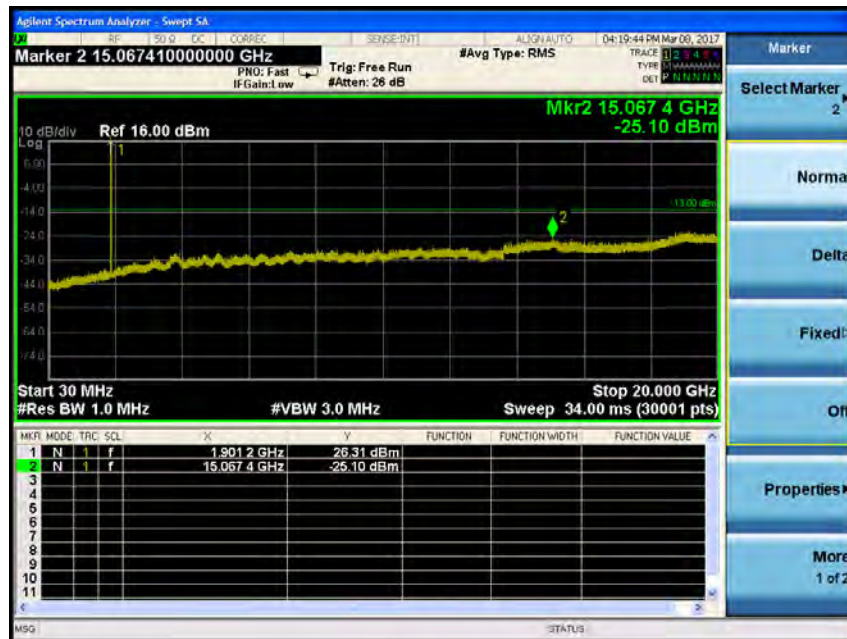


Middle Channel



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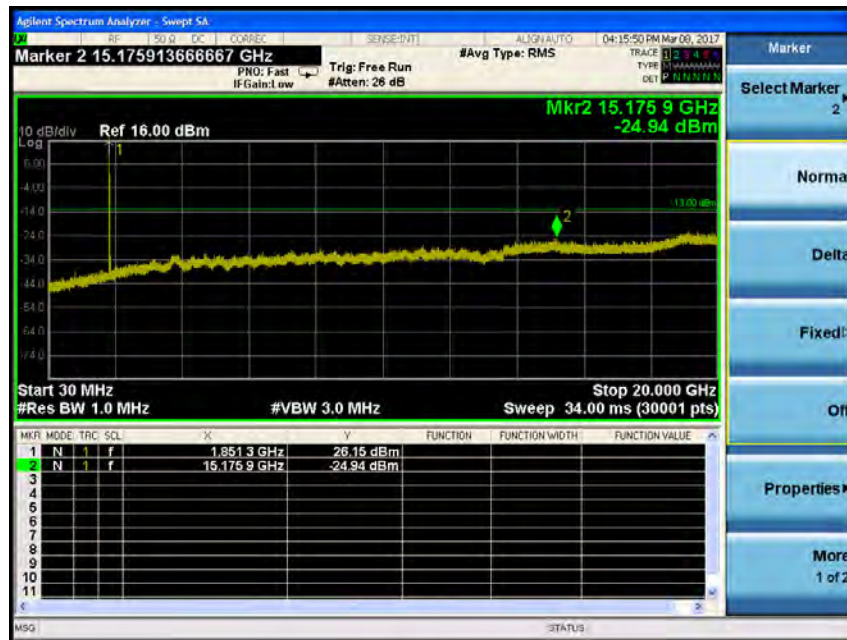
High Channel



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LTE band 2 (15 MHz - QPSK)

Low Channel

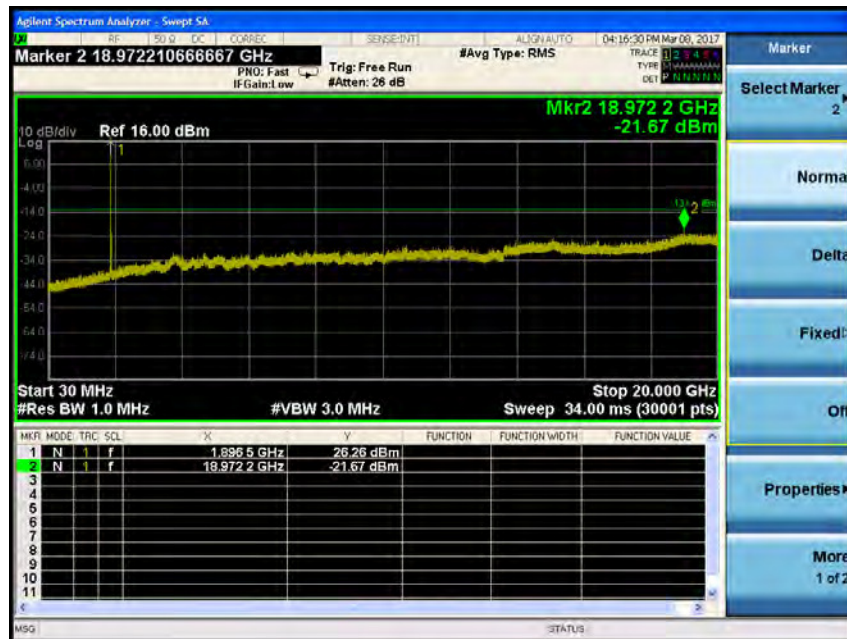


Middle Channel



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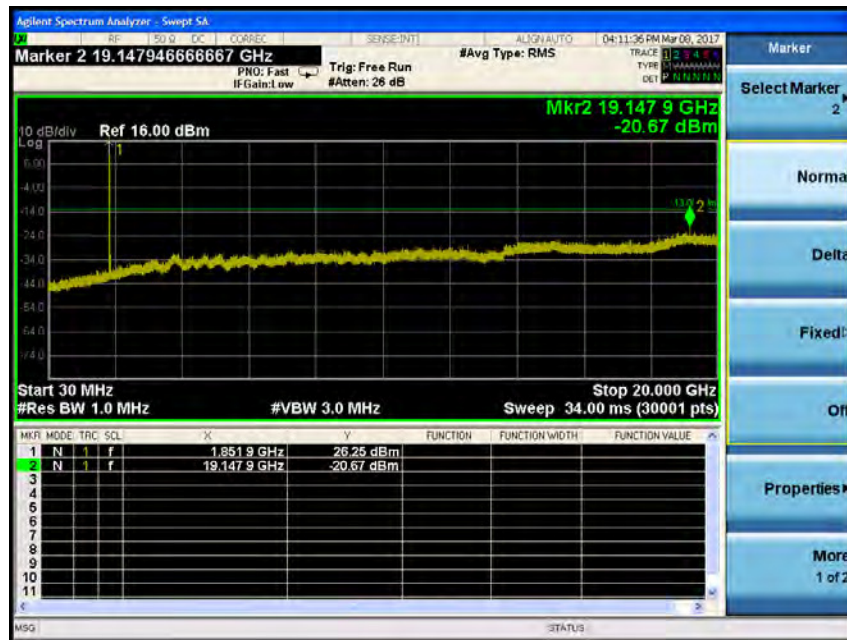
High Channel



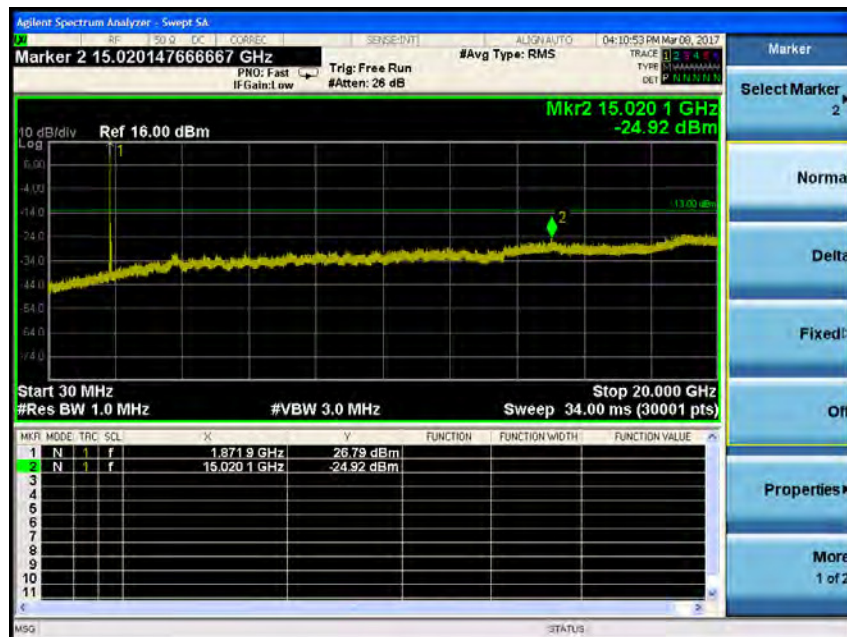
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LTE band 2 (20 MHz - QPSK)

Low Channel

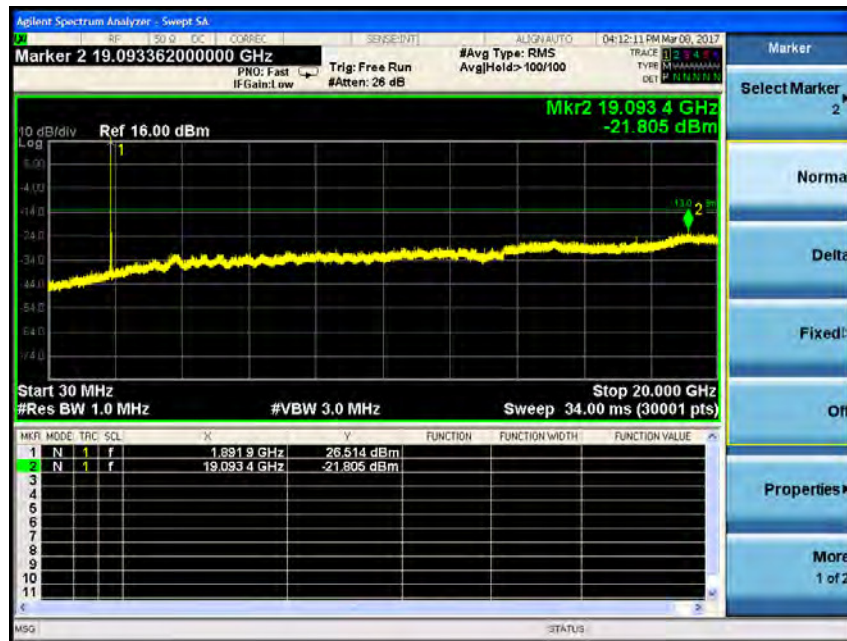


Middle Channel



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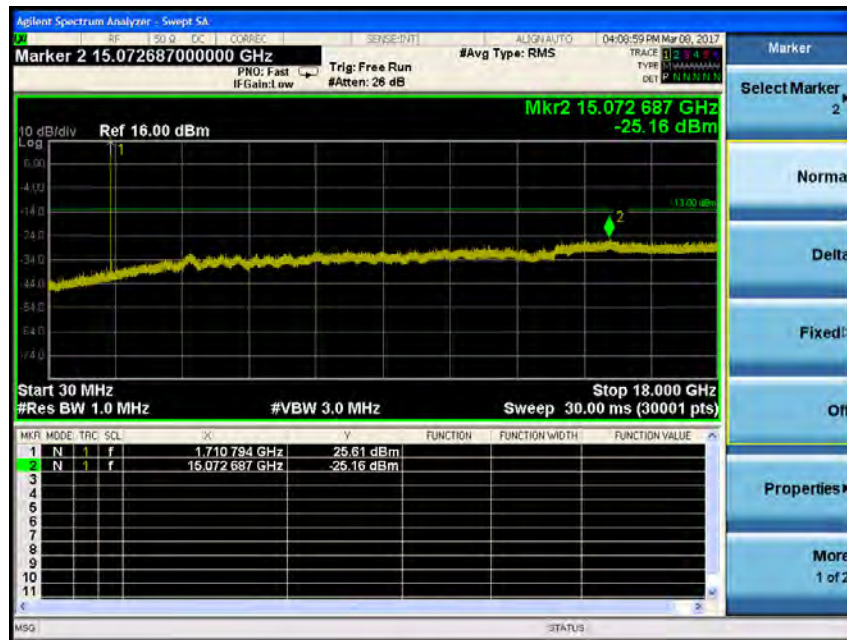
High Channel



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LTE band 4 (1.4 MHz - QPSK)

Low Channel



Middle Channel



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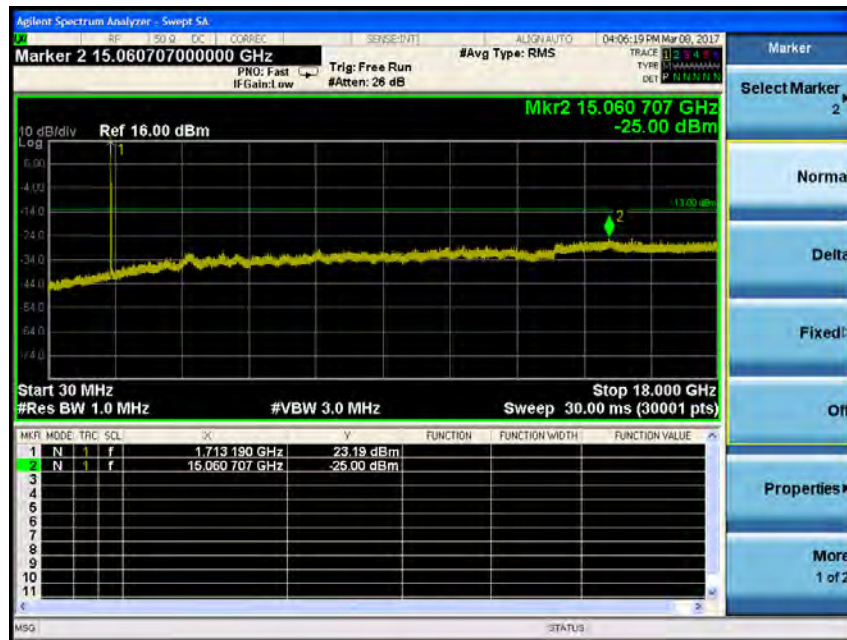
High Channel



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LTE band 4 (3 MHz - QPSK)

Low Channel

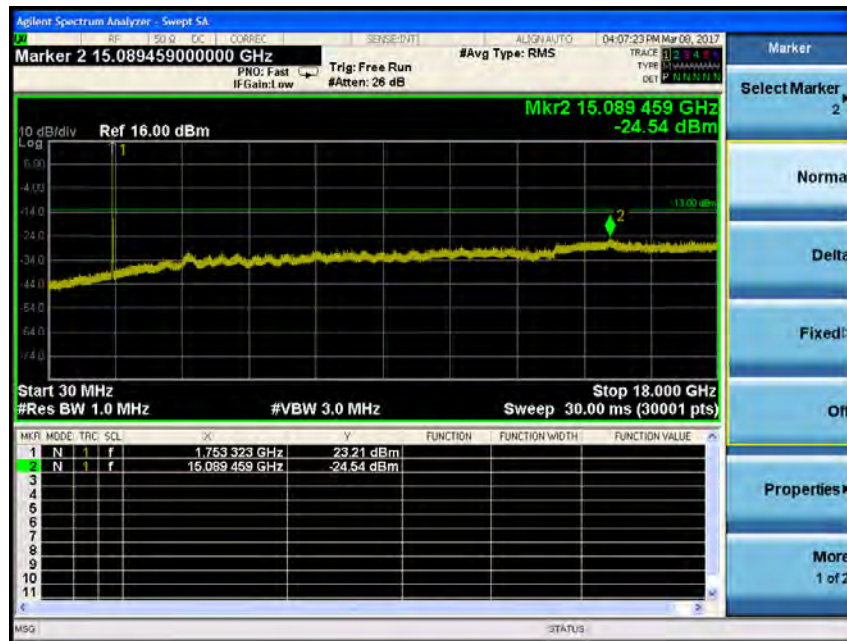


Middle Channel



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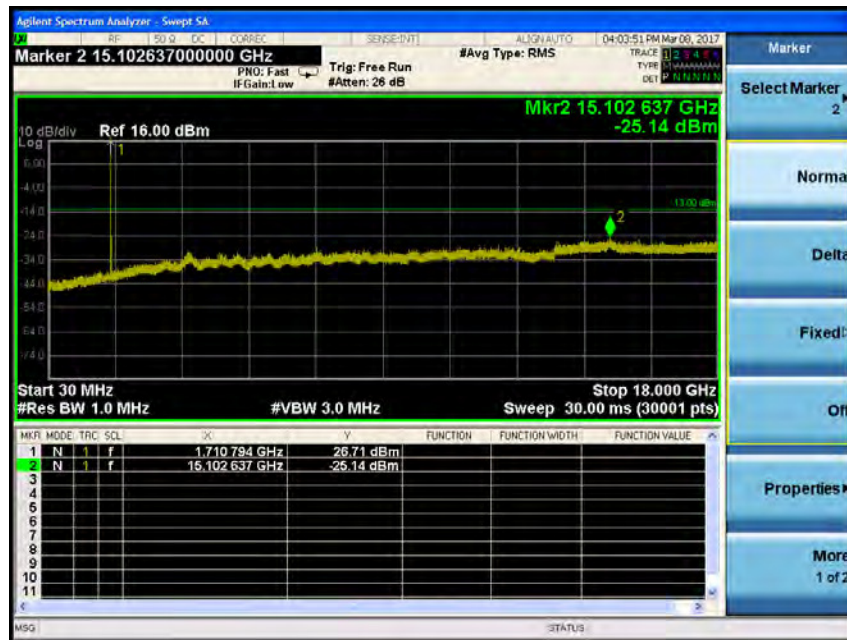
High Channel



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LTE band 4 (5 MHz - QPSK)

Low Channel

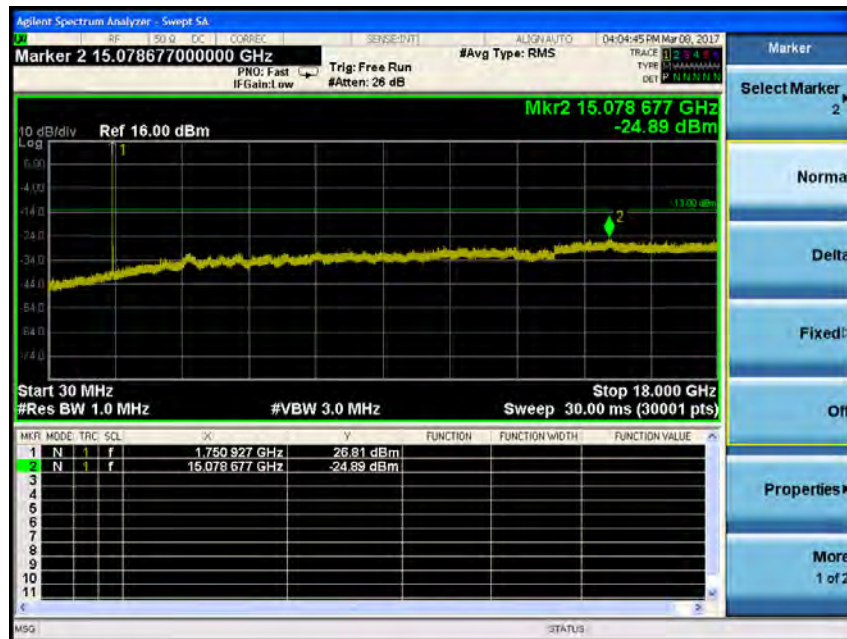


Middle Channel



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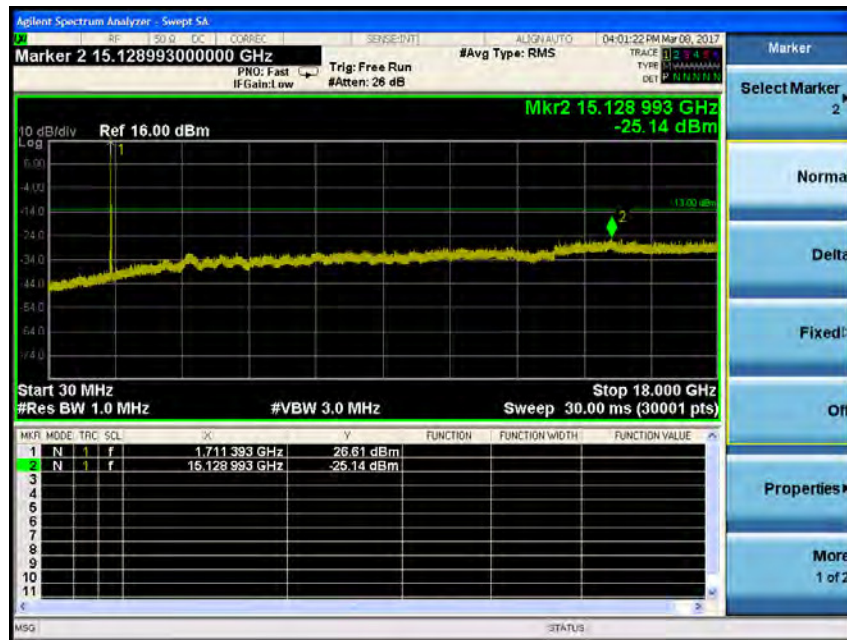
High Channel



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LTE band 4 (10 MHz - QPSK)

Low Channel



Middle Channel



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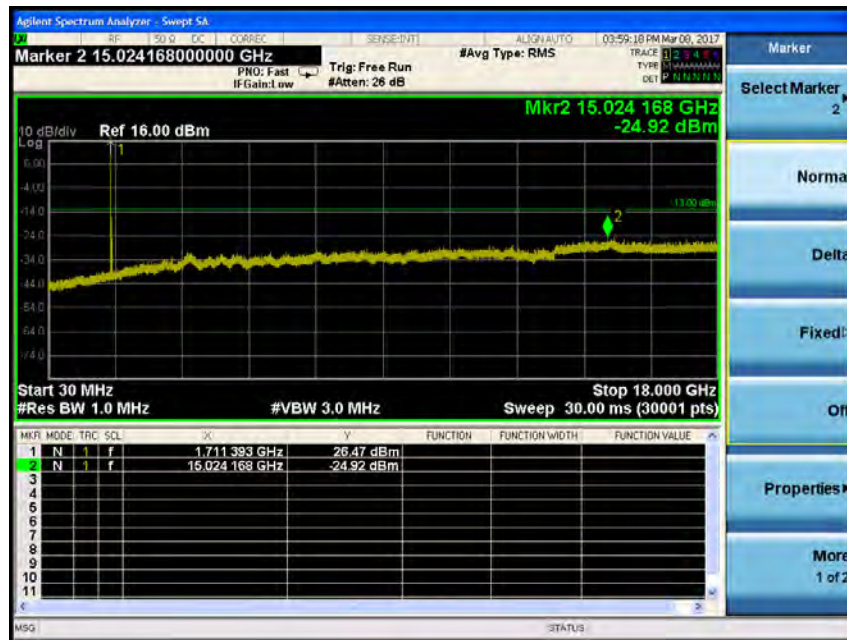
High Channel



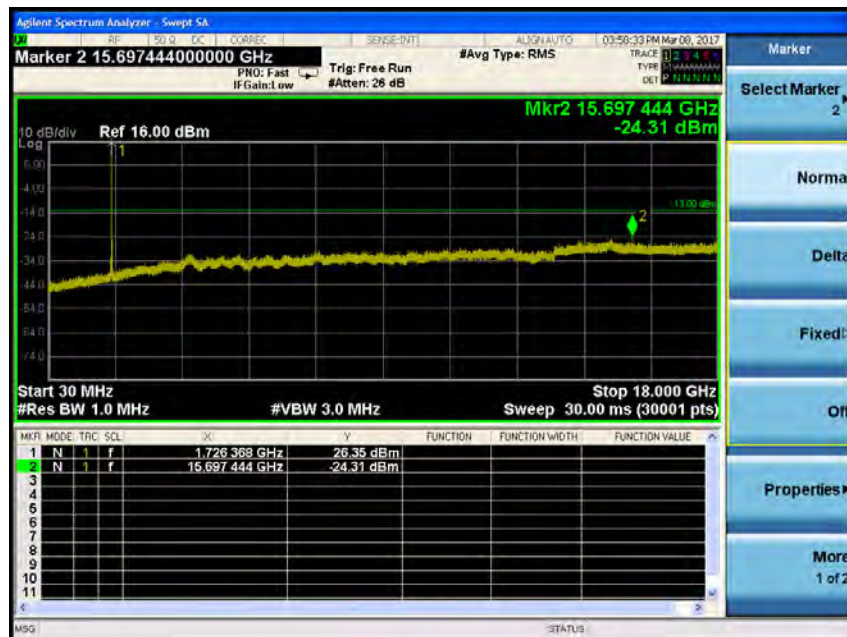
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LTE band 4 (15 MHz - QPSK)

Low Channel

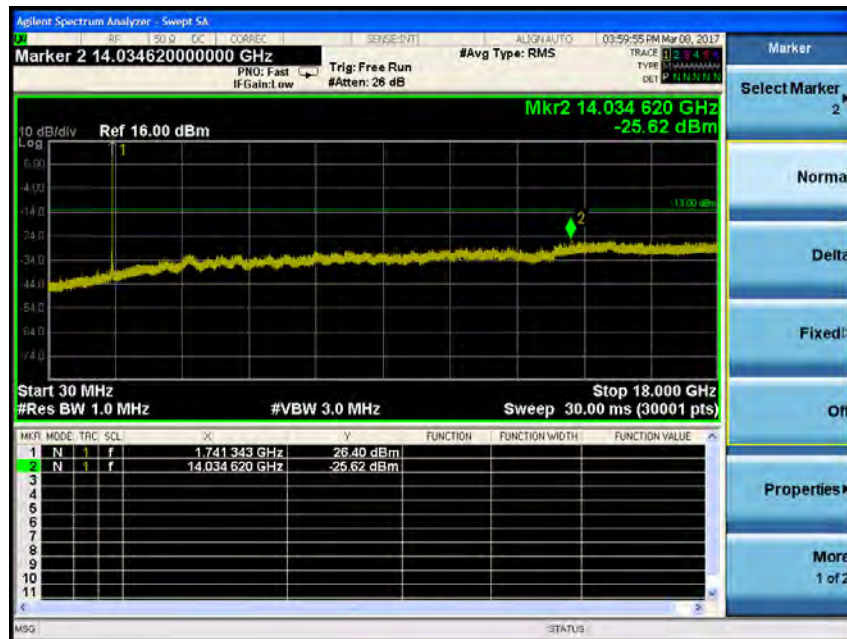


Middle Channel



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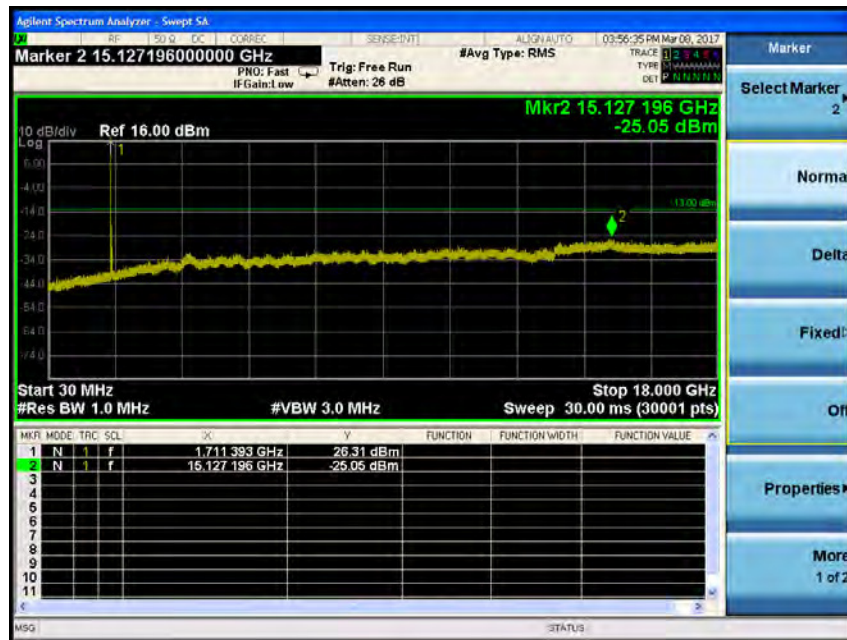
High Channel



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LTE band 4 (20 MHz - QPSK)

Low Channel

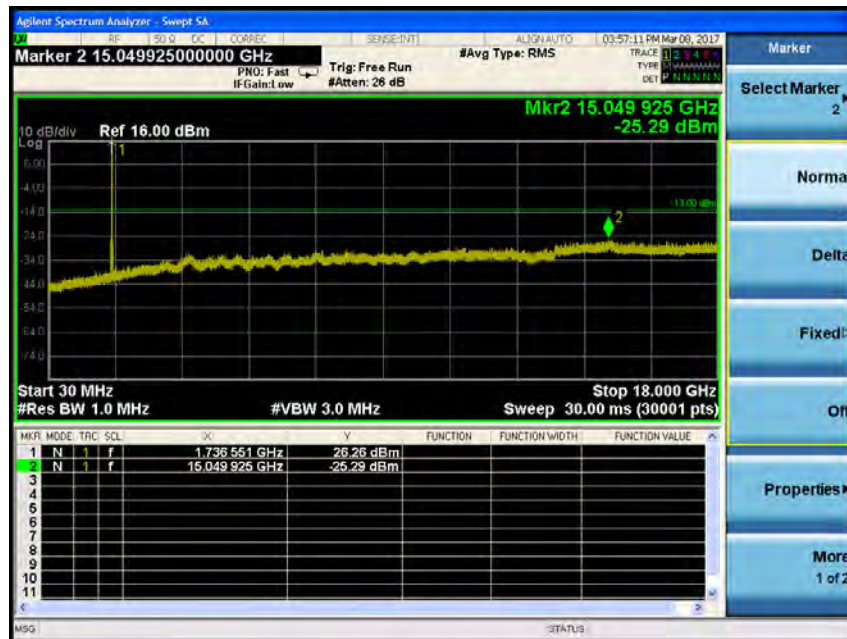


Middle Channel



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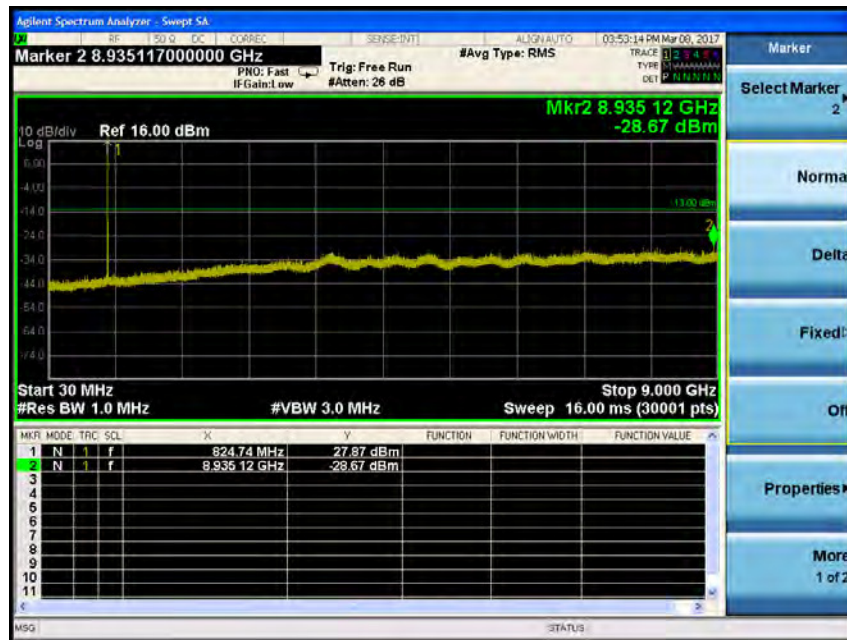
High Channel



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LTE band 5 (1.4 MHz - QPSK)

Low Channel

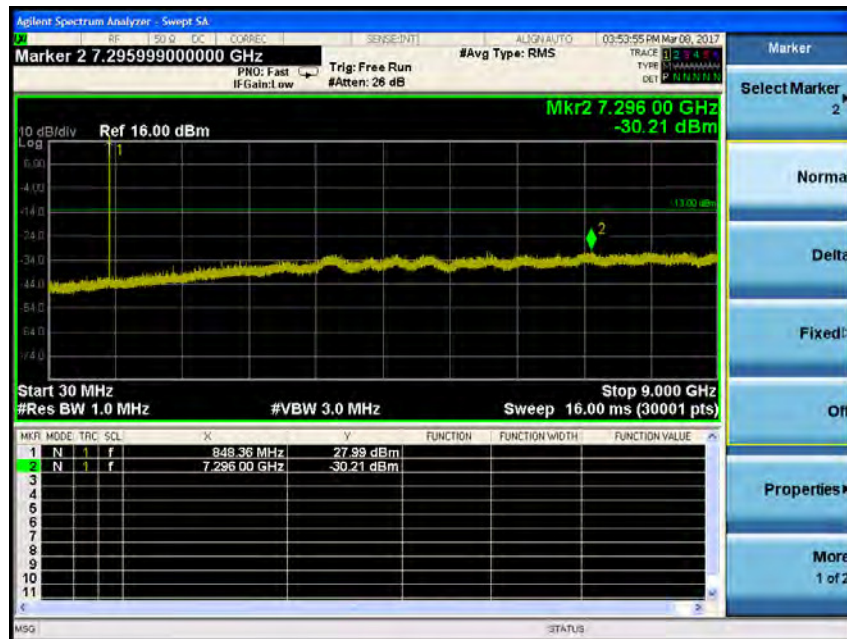


Middle Channel



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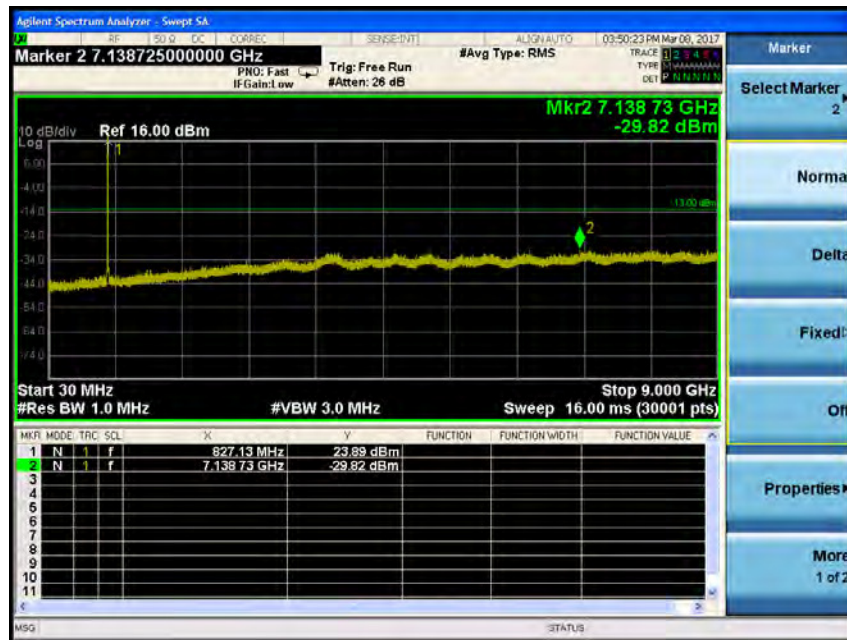
High Channel



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LTE band 5 (3 MHz - QPSK)

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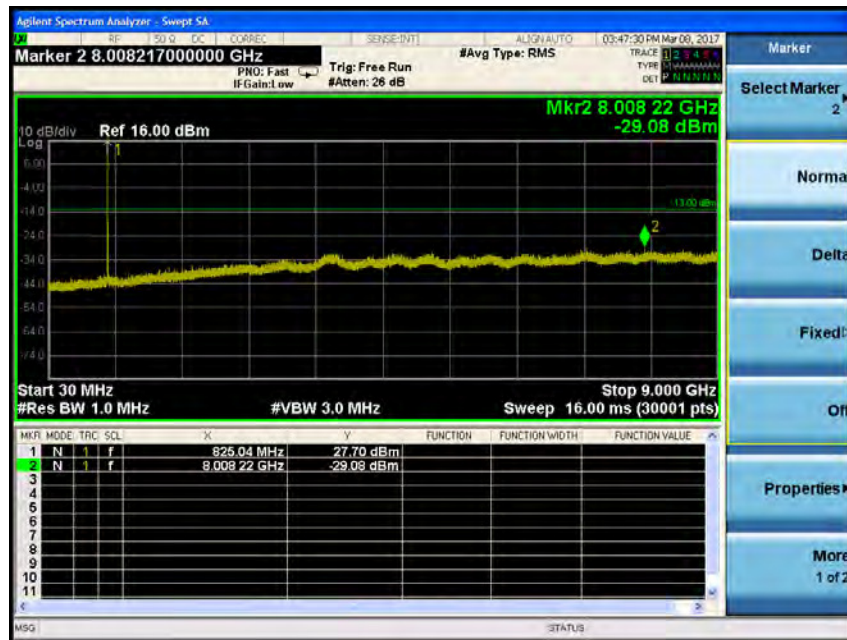
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LTE band 5 (5 MHz - QPSK)

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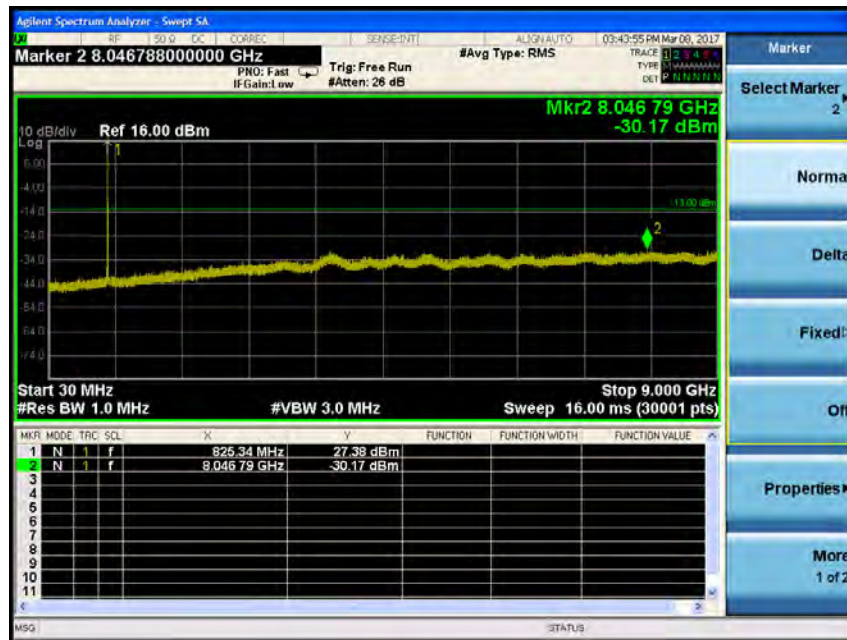
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LTE band 5 (10 MHz - QPSK)

Low Channel

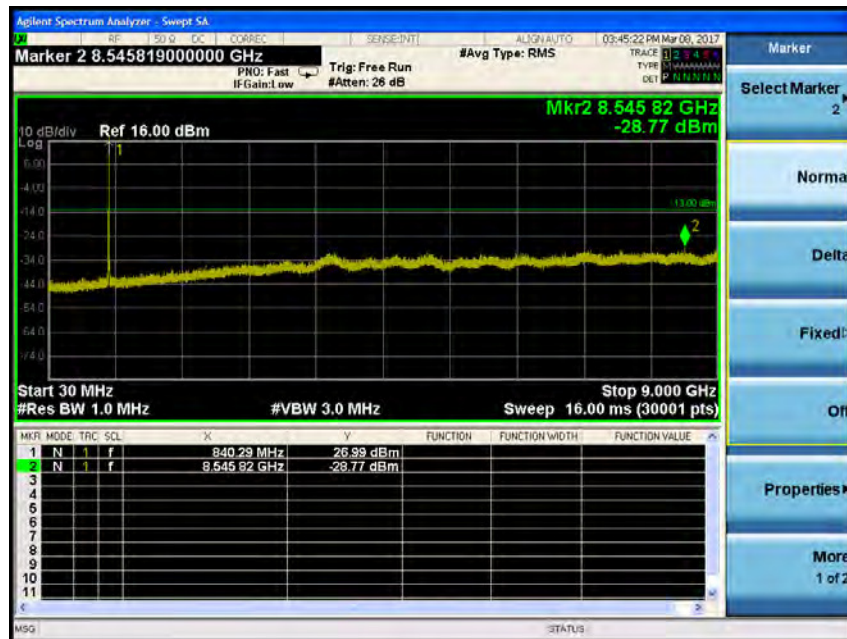


Middle Channel



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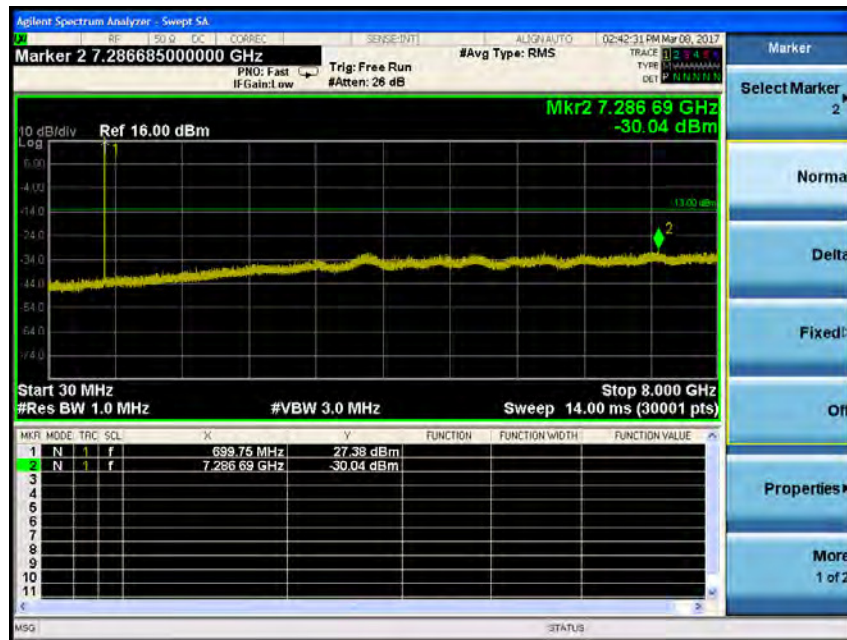
High Channel



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LTE band 12 (1.4 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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Middle Channel



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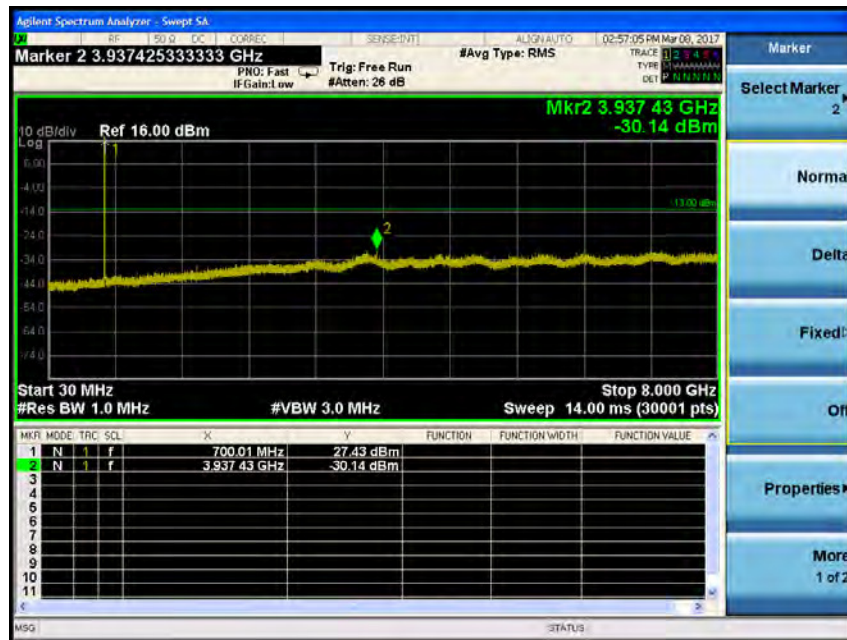
High Channel



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LTE band 12 (5 MHz - QPSK)

Low Channel

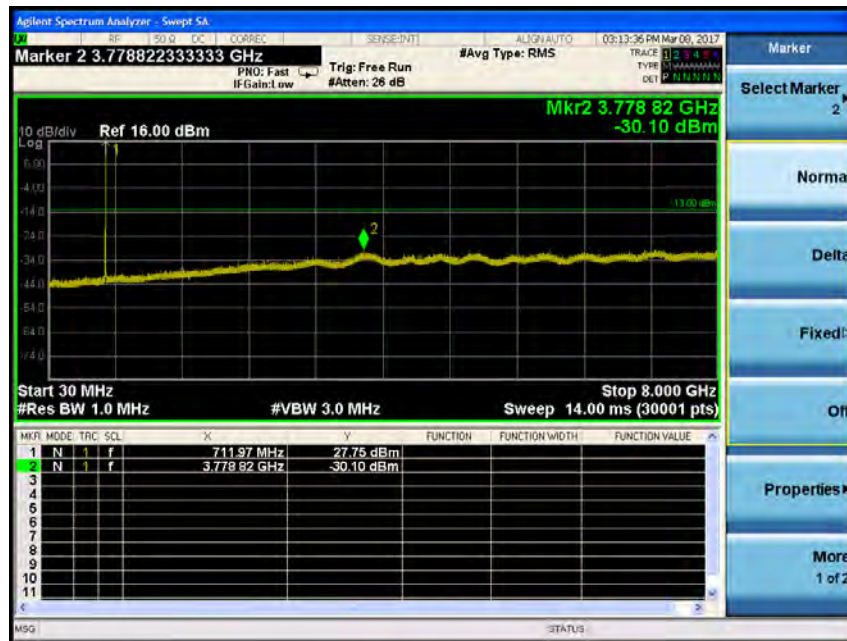


Middle Channel



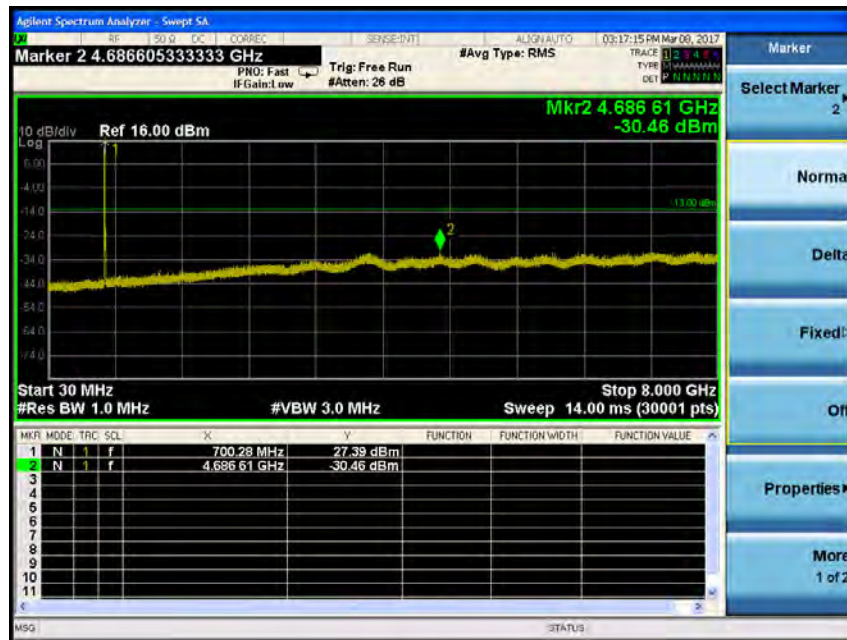
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LTE band 12 (10 MHz - QPSK) Low Channel

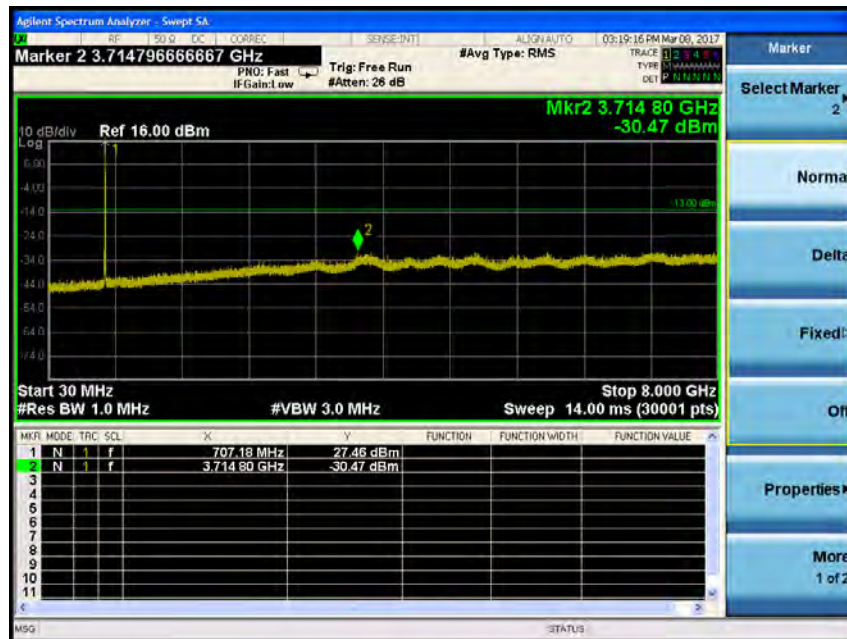


Middle Channel



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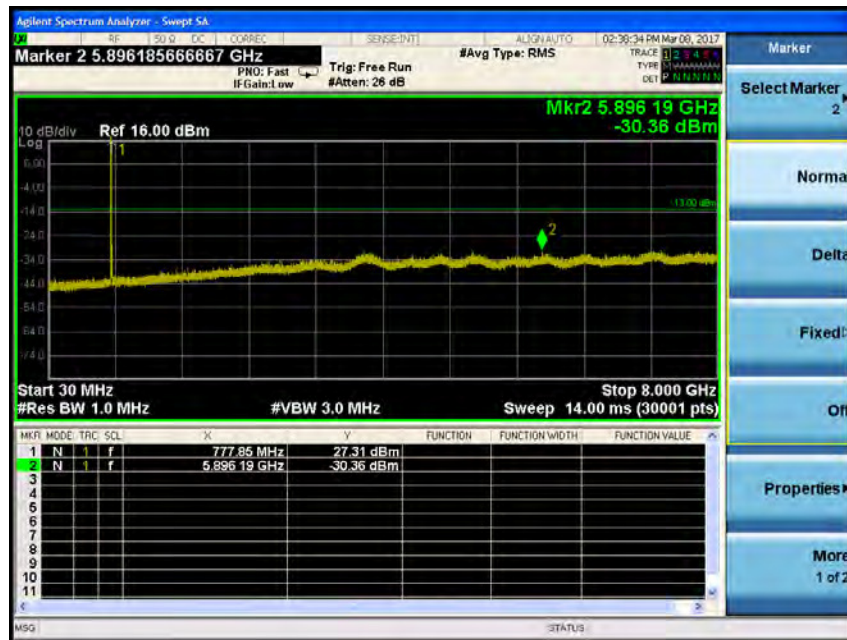
High Channel



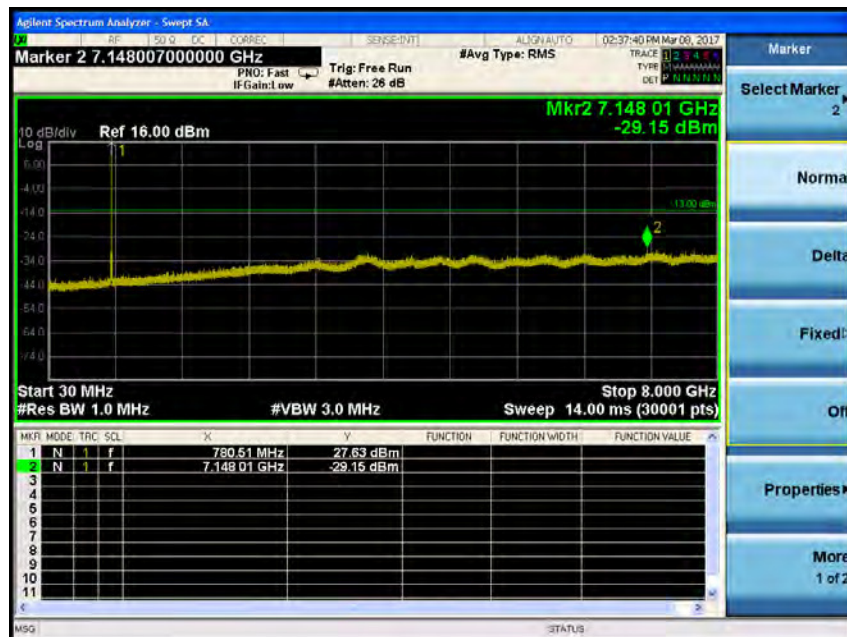
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LTE band 13 (5 MHz - QPSK)

Low Channel

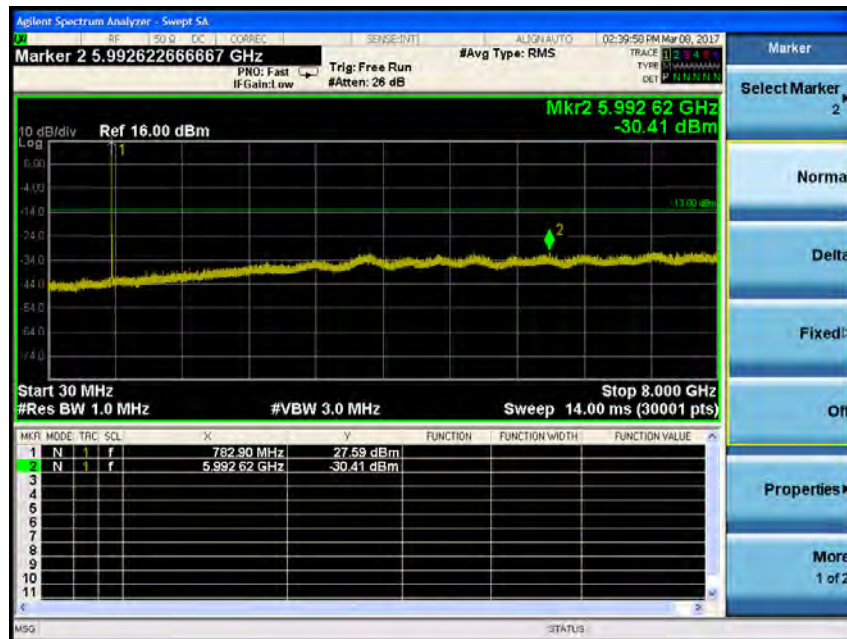


Middle Channel



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High Channel



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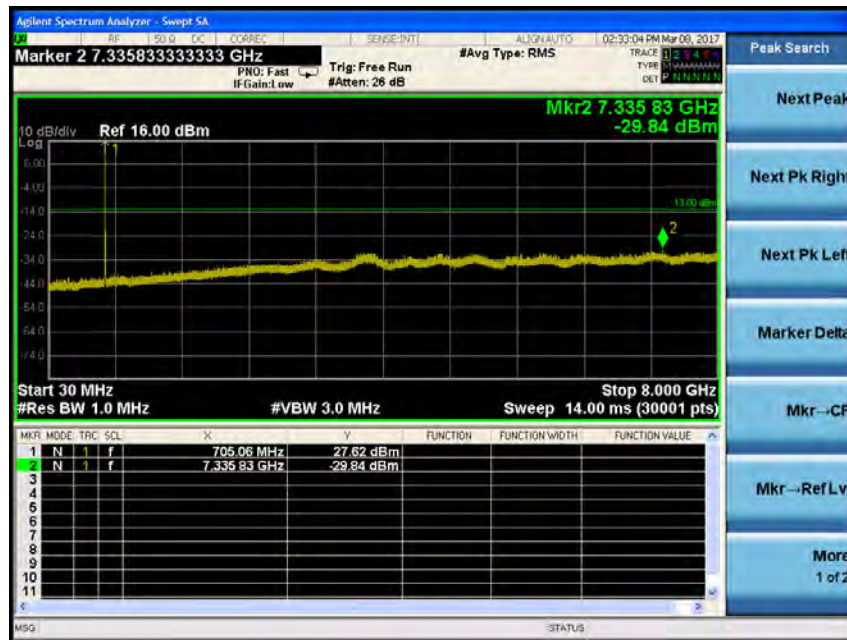
LTE band 13 (10 MHz - QPSK)
Middle Channel



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LTE band 17 (5 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 17 (10 MHz - QPSK) Low Channel

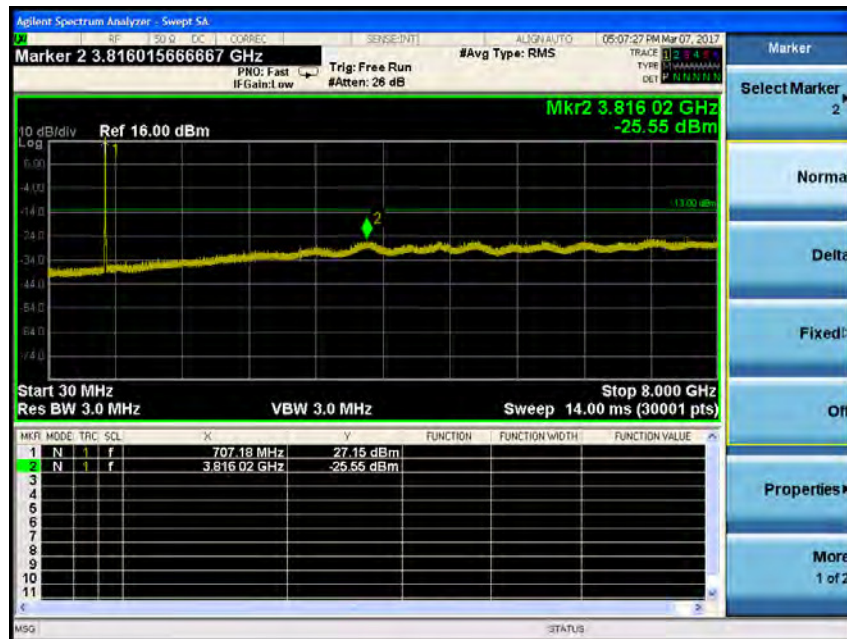


Middle Channel



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High Channel



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7. Band Edge

7.1. Limit

FCC

- §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.

- §24.238(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(c)(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.

- §27.53(g), the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

IC

- RSS-130 Issue 1

4.6.1, the power of any unwanted emissions in any 100 kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power, P (dB W), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

4.6.2, In addition to the limit outlined in Section 4.6.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dB W), by at least:

- (i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment, and
- (ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment.

(b) The e.i.r.p. in the band 1 559-1 610 MHz shall not exceed -70 dB W/MHz for wideband signal and -80 dB W for discrete emission with bandwidth less than 700 Hz.

- RSS-132 Issue 3

5.5, Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1 % of the occupied bandwidth, power

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integration over 100 kHz is required.

- RSS-133 Issue 6

6.5, Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1 % of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p(\text{watts})$.

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p(\text{watts})$. If the measurement is performed using 1 % of the emission bandwidth, power integration over 1.0 MHz is required.

- RSS-139 Issue 3

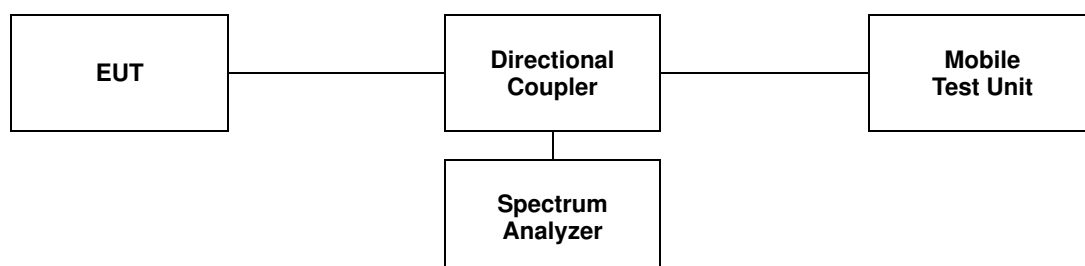
6.6, (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power per any 1 % of the emission bandwidth shall be attenuated below the transmitter output power P (in dB W) by at least $43 + 10 \log_{10} p(\text{watts})$ dB.

(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dB W) by at least $43 + 10 \log_{10} p(\text{watts})$ dB.

7.2. Test Procedure

The test follows section 6.0 of FCC KDB Publication 971168 D01 v02r02.

1. Span was set large enough so as to capture all out of band emissions near the band edge.
2. RBW ≥ 1 % of OBW.
3. VBW $\geq 3 \times$ RBW.
4. Detector = RMS.
5. Trace mode = Average.
6. Sweep time = Auto.
7. The trace was allowed to stabilize.
8. All path loss of frequency range was investigated and compensated to spectrum analyzer as correction factor.



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7.3. Test Results

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 % R.H.

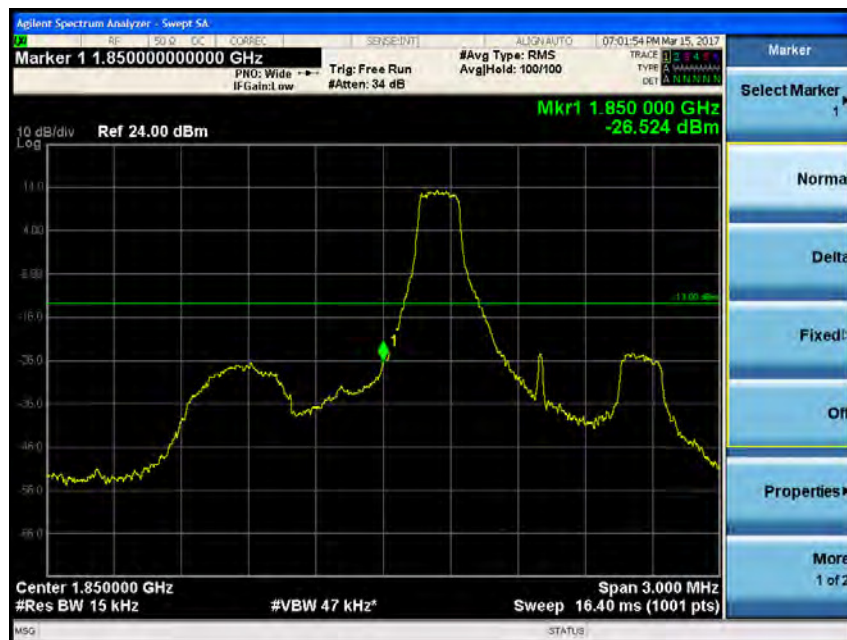
LTE band 2 (1.4 MHz - QPSK_RB 6)

Low Channel



LTE band 2 (1.4 MHz - QPSK_RB 1)

Low Channel



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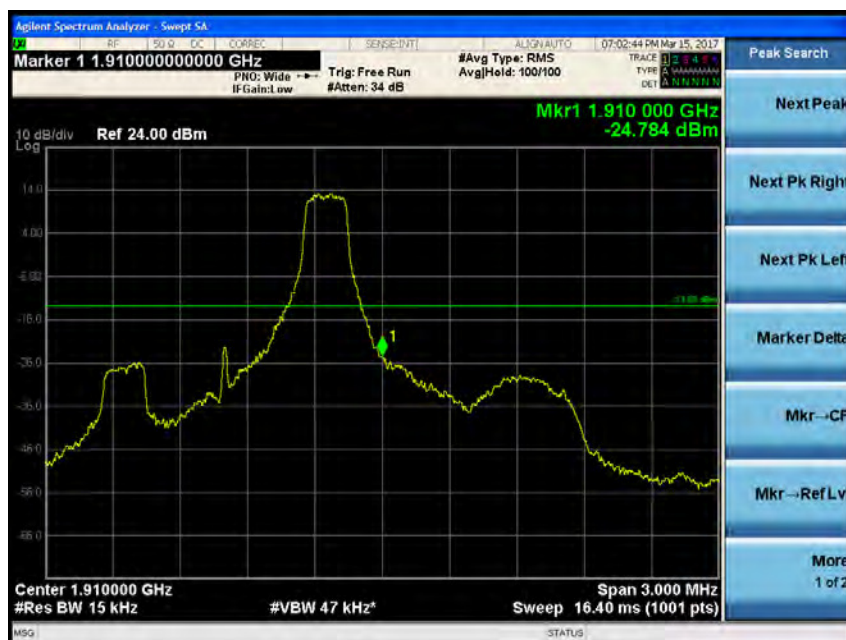
LTE band 2 (1.4 MHz - QPSK_RB 6)

High Channel



LTE band 2 (1.4 MHz - QPSK_RB 1)

High Channel

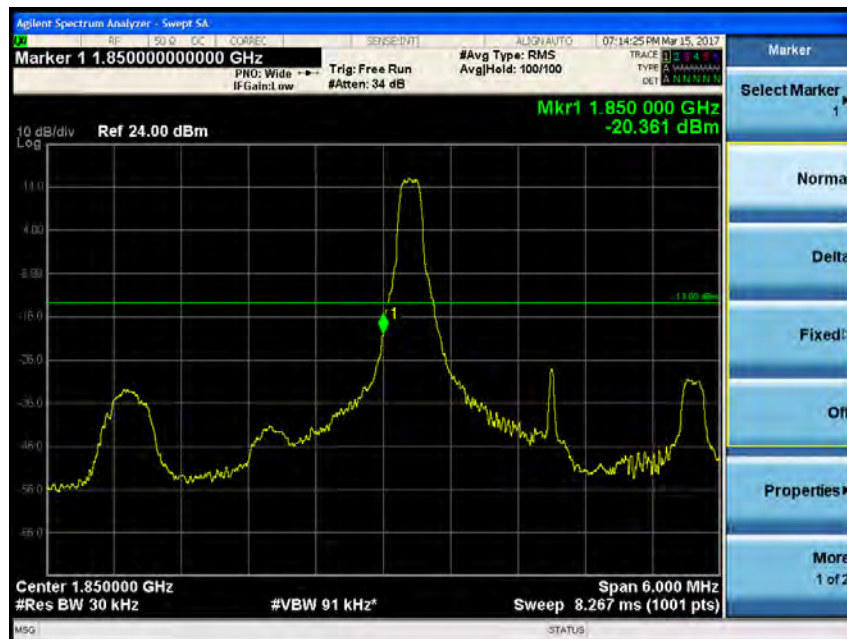


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LTE band 2 (3 MHz - QPSK_RB 15) Low Channel



LTE band 2 (3 MHz - QPSK_RB 1) Low Channel



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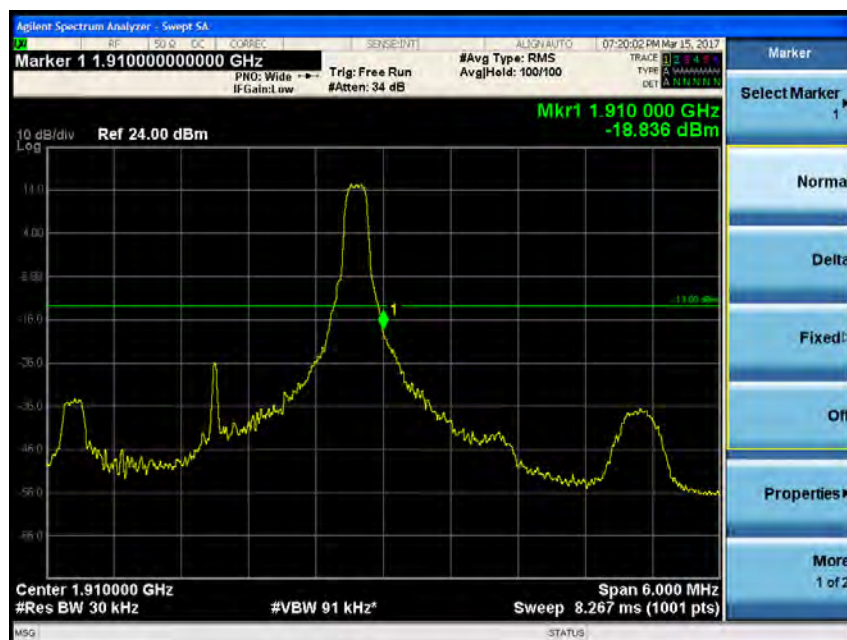
LTE band 2 (3 MHz - QPSK_RB 15)

High Channel



LTE band 2 (3 MHz - QPSK_RB 1)

High Channel



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LTE band 2 (5 MHz - QPSK_RB 25)

Low Channel



LTE band 2 (5 MHz - QPSK_RB 1)

Low Channel



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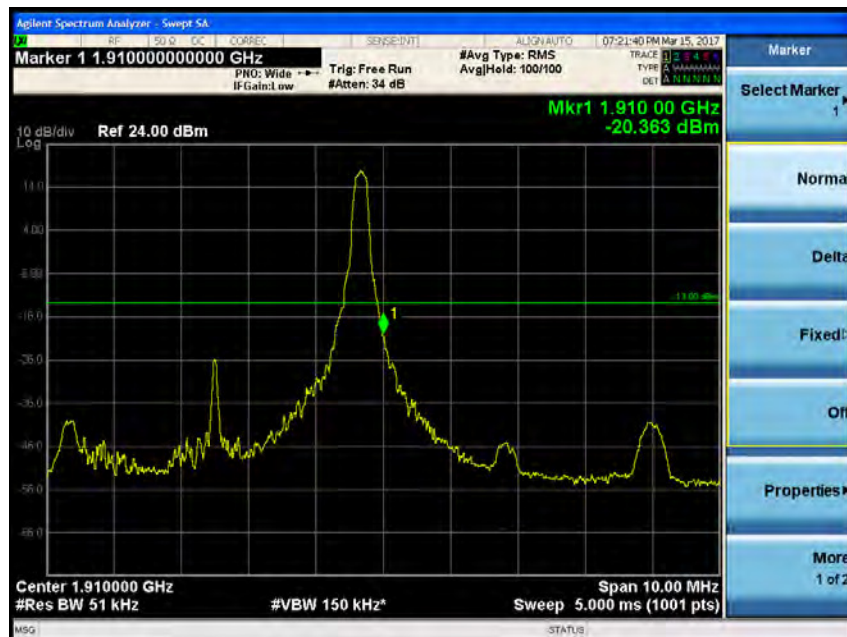
LTE band 2 (5 MHz - QPSK_RB 25)

High Channel



LTE band 2 (5 MHz - QPSK_RB 1)

High Channel

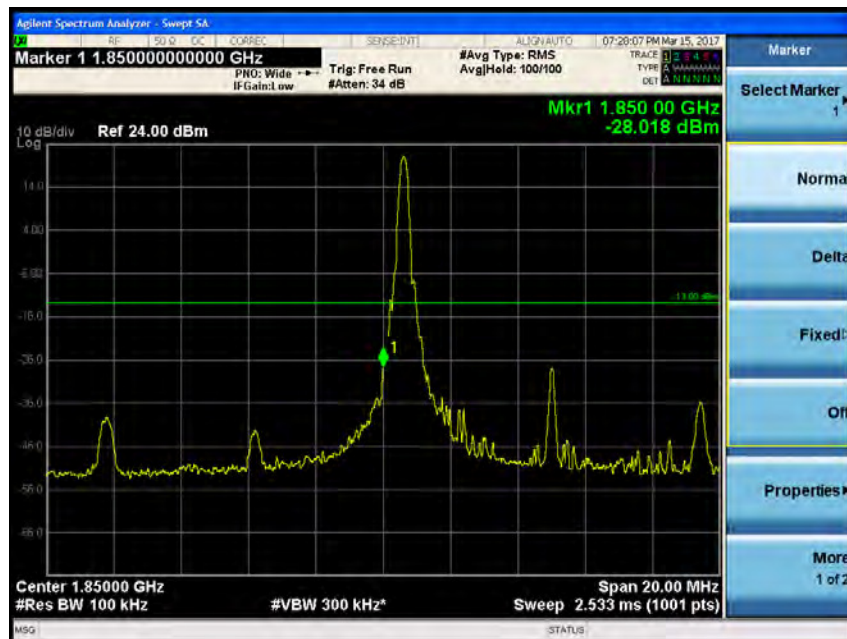


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LTE band 2 (10 MHz - QPSK_RB 50) Low Channel



LTE band 2 (10 MHz - QPSK_RB 1) Low Channel



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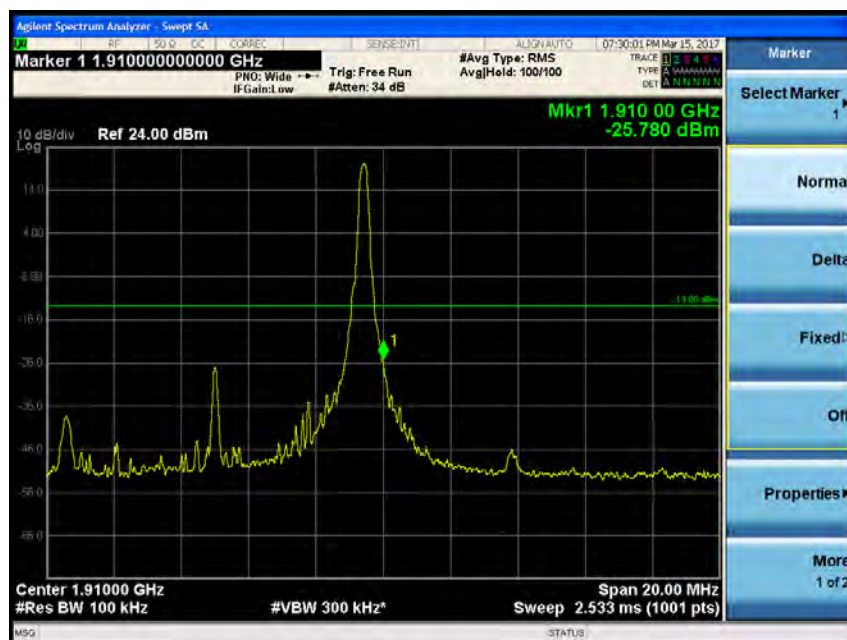
LTE band 2 (10 MHz - QPSK_RB 50)

High Channel



LTE band 2 (10 MHz - QPSK_RB 1)

High Channel



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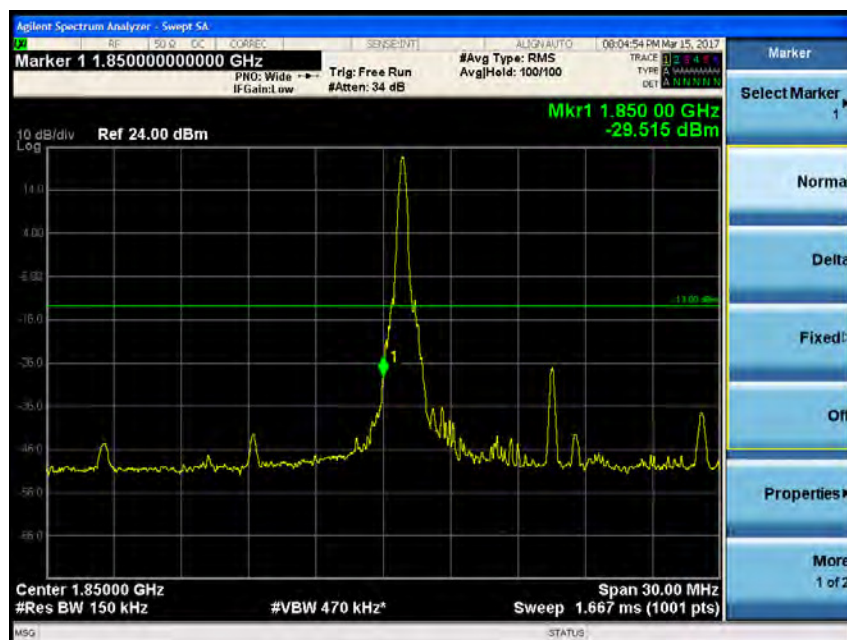
LTE band 2 (15 MHz - QPSK_RB 75)

Low Channel



LTE band 2 (15 MHz - QPSK_RB 1)

Low Channel



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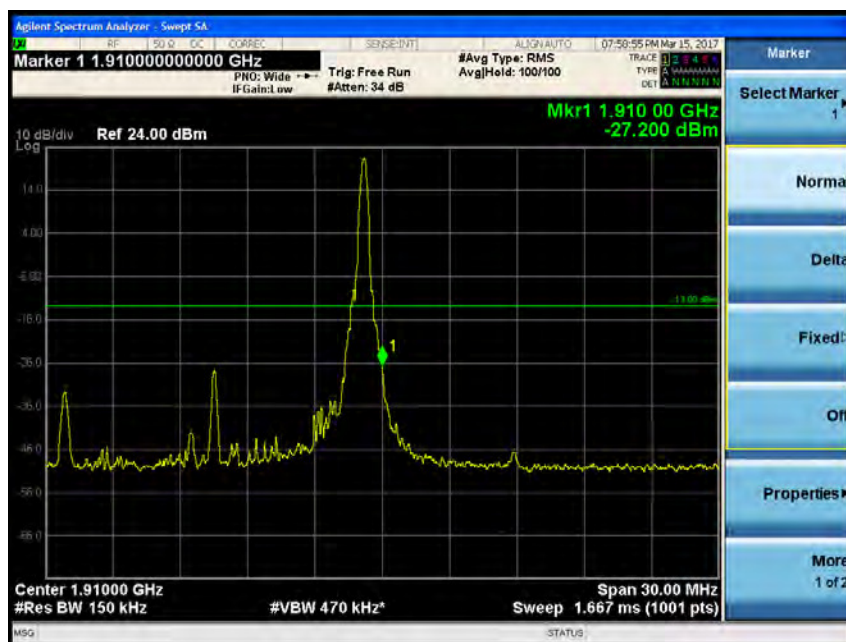
LTE band 2 (15 MHz - QPSK_RB 75)

High Channel



LTE band 2 (15 MHz - QPSK_RB 1)

High Channel



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