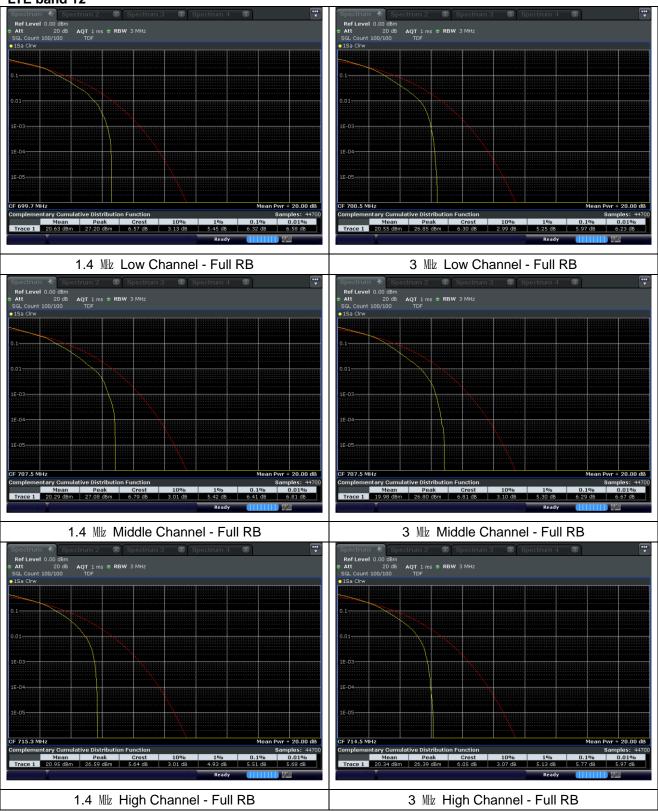


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LTE band 12

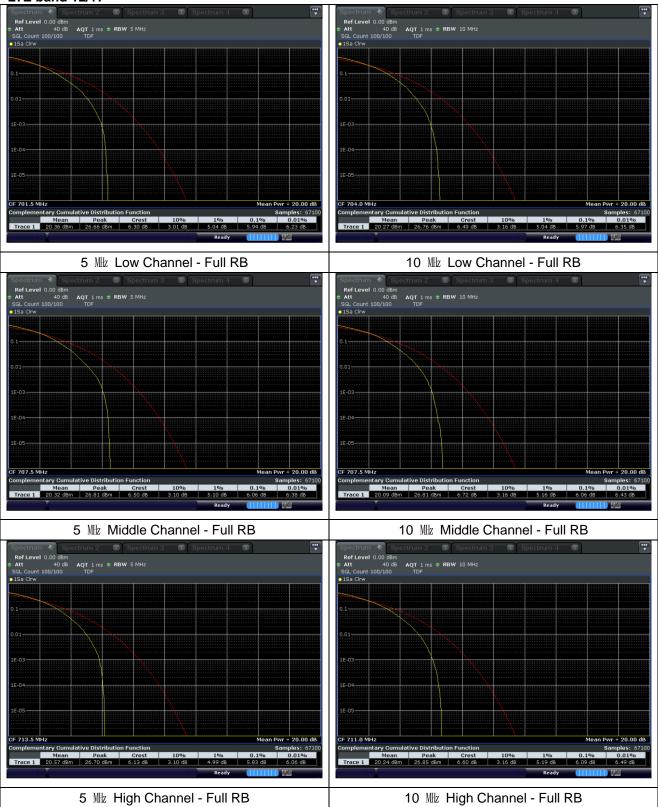




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LTE band 12/17





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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 + 10log(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.
- $\S27.53(g)$, 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 Mb, 1 710-1 755 Mb, 1 755-1 780 Mb, 1 915-1 920 Mb, 1 995-2 000 Mb, 2 000-2 020 Mb, 2 110-2 155 Mb, 2 155-2 180 Mb, 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 log₁₀ (P) dB.
- $\S27.53(m)(4)$, 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 Mb and 2 496 Mb and $55 + 10 \log_{10}(P) \, dB$ at or below 2 490.5 Mb. Mobile Satellite Service licensees operating on frequencies below 2 495 Mb 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.

IC

- RSS-130 Issue 2
- 4.7.1, the unwanted emissions in any 100 $\,\mathrm{kllz}\,$ bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P ($\,\mathrm{dB}\,$ W), by at least 43 + 10 $\,\mathrm{log_{10}}\,$ p (watts), $\,\mathrm{dB}.$ However, in the 100 $\,\mathrm{kllz}\,$ band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 $\,\mathrm{kllz}\,$ may be employed.
- RSS-132 Issue 4
- 5.5, equipment shall meet the unwanted emission limits specified below:
- (i) In the first 1.0 Mb 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 below the transmitter output power P (dB W) by at least 43 + 10 log (p) dB.
- (ii) After the first 1.0 Mb immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kb bandwidth shall be attenuated below the transmitter output power P (dB W) by at least 43 + 10 log (p) dB. If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kb is required.
- RSS-133 Issue 6
- 6.5, Equipment shall comply with the limits in (i) and (ii) below.
- (i) In the 1.0 Mb 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



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output power P (dB W) by at least $43 + 10 \log_{10} p(watts)$.

(ii) After the first 1.0 Mb, the emission power in any 1 Mb 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 Mb is required.

- RSS-139 Issue 4

5.6, unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
≤1 Mlz	-13 dB m/(1 % of OB*)
>1 Mlz	-13 dB m/Mb

^{*} OB is the occupied bandwidth

- RSS-199 Issue 4

5.6, unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 Mb band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1 % of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2 % for subscriber equipment other than fixed subscriber equipment. Beyond this 1 Mb band, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1 % or 2 % of the occupied bandwidth, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (脈)	Unwanted emission limits
0-1	-10 dBm/(2 % of OB*)
1-5	-10 dB m /Mb
5-X**	-13 dBm/Mb
≥ X	-25 dBm/M₺

^{*} OB is the occupied bandwidth

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 $^{
m dB}$ m/Mb on all frequencies between 2 490.5 Mb and 2 496 Mb, and -25 $^{
m dB}$ m/Mb at or below 2 490.5 Mb.

^{**} X is 6 No or the equipment occupied bandwidth, whichever is greater



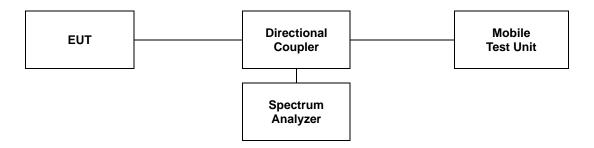
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6.2. Test Procedure

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

- 1. Start frequency was set to 9 klb and stop frequency was set to at least 10* the fundamental frequency.
- 2. Detector = RMS.
- 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 klb to 26 Glb, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function.



Note;

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 & or greater for frequencies less than 1 & and frequencies greater than 1 & However, in the 1 & 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.



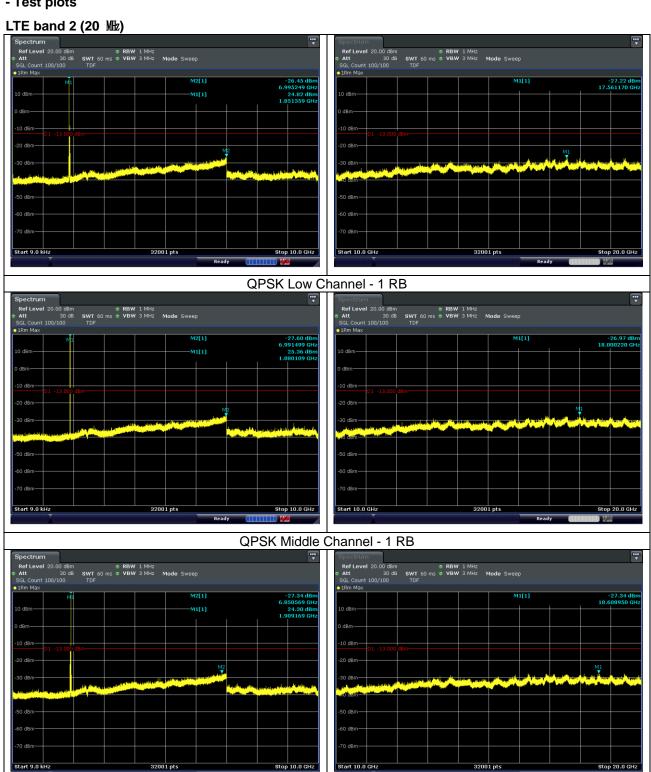
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6.3. Test Results

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

- Test plots



RTT7081-02(2020.10.05)(0) A4(210 mm * 297 mm)

QPSK High Channel - 1 RB



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LTE band 4 (20 脈) ELevel 20.00 d8m ® RBW 1 MHz : 30 dB SWT 48 ms 9 VBW 3 MHz Mode Sweep Count 100/100 TDF Start 9.0 kHz Stop 10.0 GHz Start 10.0 GHz 32001 pts QPSK Low Channel - 1 RB Ref Level 20.00 d8m © RBW 1 MHz Att 30 d8 SWT 60 ms © VBW 3 MHz Mode Sweep SGL Count 100/100 TOF Start 10.0 GHz QPSK Middle Channel - 1 RB

RTT7081-02(2020.10.05)(0) A4(210 mm * 297 mm)

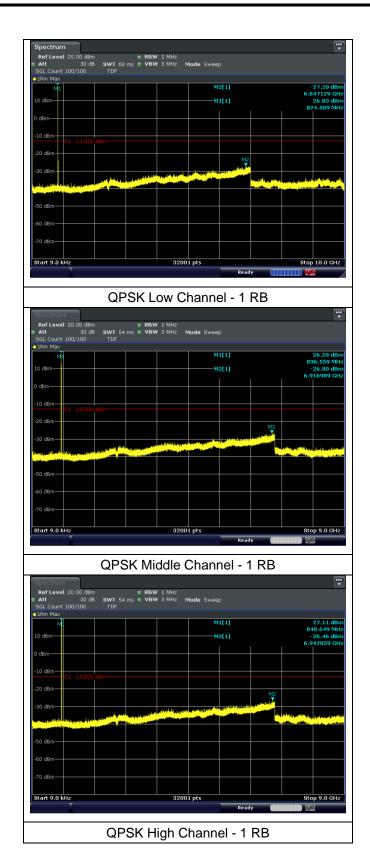
QPSK High Channel - 1 RB



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LTE band 5 (5 账)

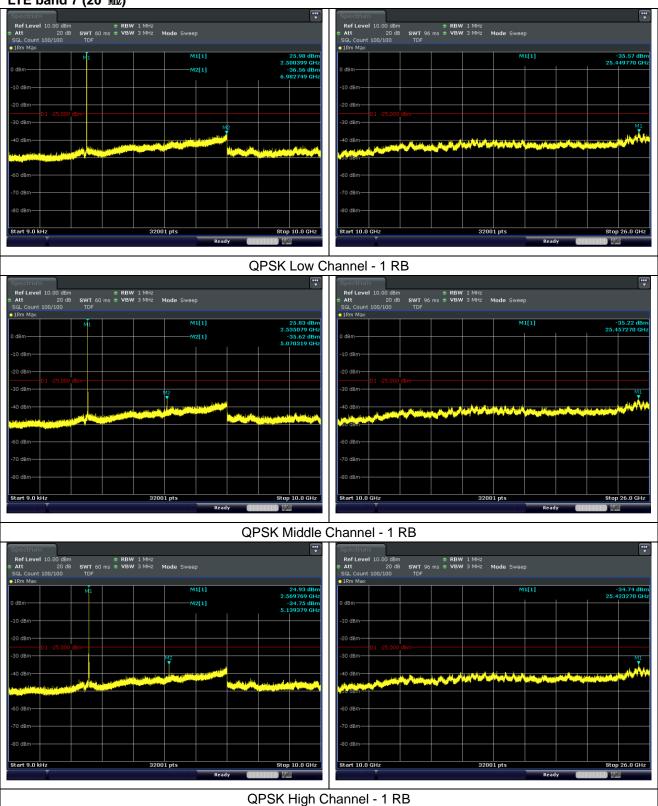




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LTE band 7 (20 账)

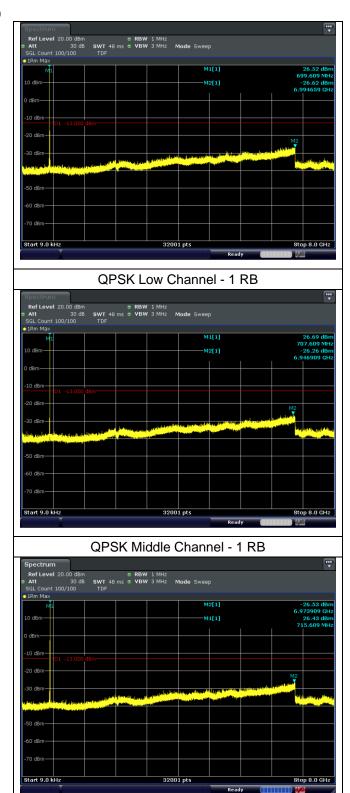




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LTE band 12/17 (10 脏)



RTT7081-02(2020.10.05)(0) A4(210 mm * 297 mm)

QPSK High Channel - 1 RB



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7. Band Edge and Emission Mask

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 + 10log(P) dB.
- $\S24.238(a)$, 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.
- $\S27.53(g)$, 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.
- $\S27.53(h)(1)$, for operations in the 1 695-1 710 Mb, 1 710-1 755 Mb, 1 755-1 780 Mb, 1 915-1 920 Mb, 1 995-2 000 Mb, 2 000-2 020 Mb, 2 110-2 155 Mb, 2 155-2 180 Mb, 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 log₁₀ (P) dB.
- $\S27.53(m)(4)$, 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 Mb and 2 496 Mb and 55 + 10 $\log_{10}(P) \, dB$ at or below 2 490.5 Mb. Mobile Satellite Service licensees operating on frequencies below 2 495 Mb 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.

IC

- RSS-130 Issue 2
- 4.7.1, the unwanted emissions in any 100 $\,\mathrm{kllz}$ bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P ($\,\mathrm{dB}$ W), by at least 43 + 10 $\,\mathrm{log_{10}}$ p (watts), $\,\mathrm{dB}$. However, in the 100 $\,\mathrm{kllz}$ band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 $\,\mathrm{kllz}$ may be employed.
- RSS-132 Issue 4
- 5.5, equipment shall meet the unwanted emission limits specified below:
- (i) In the first 1.0 Mb 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 below the transmitter output power P (dB W) by at least 43 + 10 log (p) dB.
- (ii) After the first 1.0 Mb immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kb bandwidth shall be attenuated below the transmitter output power P (dB W) by at least 43 + 10 log (p) dB. If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kb is required.
- RSS-133 Issue 6
- 6.5, Equipment shall comply with the limits in (i) and (ii) below.
- (i) In the 1.0 Mb 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 log₁₀ p(watts).



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(ii) After the first 1.0 Mb, the emission power in any 1 Mb 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 Mb is required.

- RSS-139 Issue 4

5.6, unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
≤1 Mb	-13 dB m/(1 % of OB*)
>1 Mb	-13 dB m /Mb

^{*} OB is the occupied bandwidth

- RSS-199 Issue 4

5.6, unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 Mb band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1 % of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2 % for subscriber equipment other than fixed subscriber equipment. Beyond this 1 Mb band, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1 % or 2 % of the occupied bandwidth, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (账)	Unwanted emission limits
0-1	-10 dBm/(2 % of OB*)
1-5	-10 dB m/ /₩z
5-X**	-13 dBm/Mb
≥ X	-25 dB m/ Mb

^{*} OB is the occupied bandwidth

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 $^{
m dB}$ m/Mb on all frequencies between 2 490.5 Mb and 2 496 Mb, and -25 $^{
m dB}$ m/Mb at or below 2 490.5 Mb.

^{**} X is 6 N or the equipment occupied bandwidth, whichever is greater



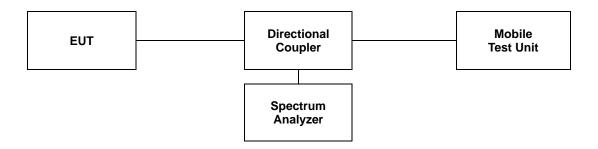
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7.2. Test Procedure

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 ≥ 1 % of OBW
- c. VBW ≥ 3 x 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.





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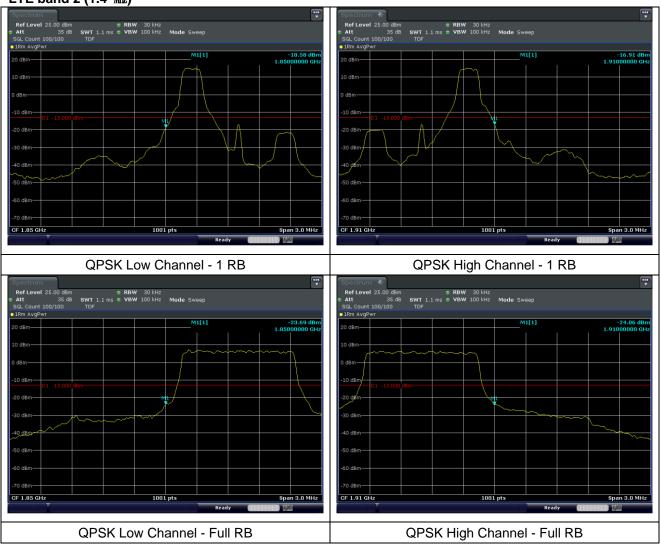
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7.3. Test Results

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

- Test plots

LTE band 2 (1.4 账)

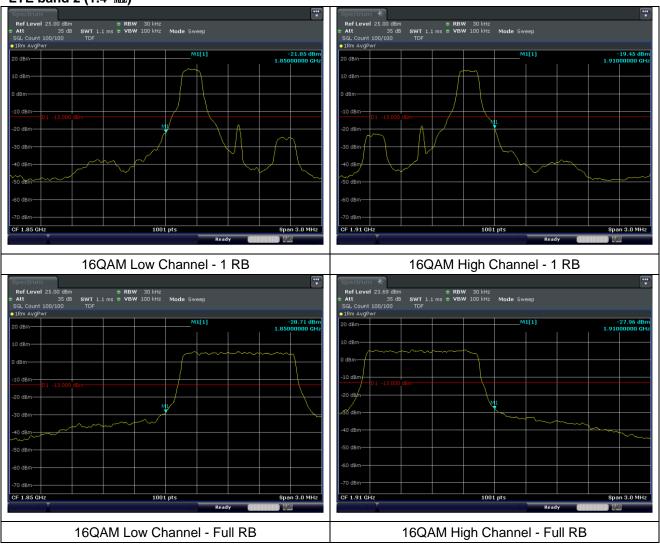




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LTE band 2 (1.4 账)

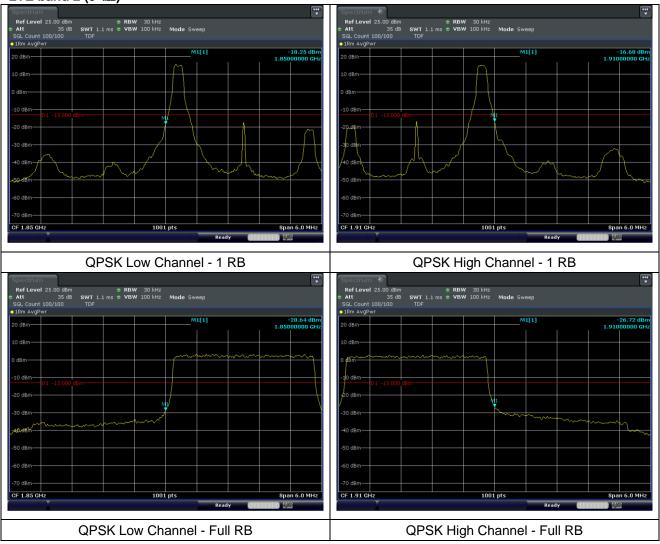




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LTE band 2 (3 脈)

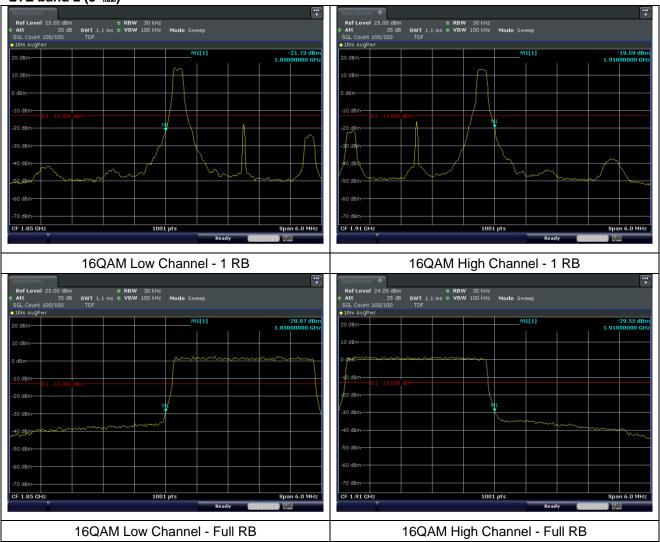




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LTE band 2 (3 脈)

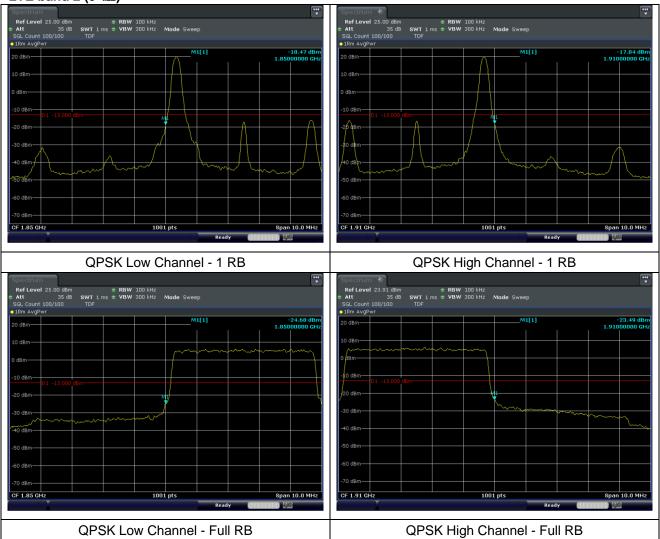




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LTE band 2 (5 脈)

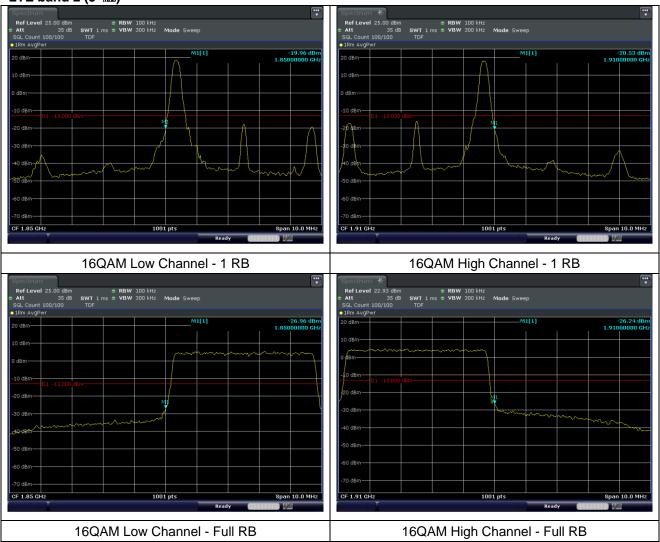




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LTE band 2 (5 脈)

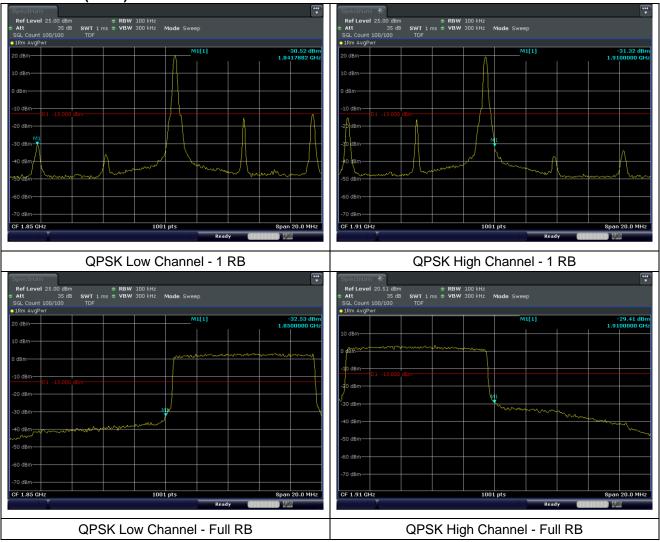




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LTE band 2 (10 脈)

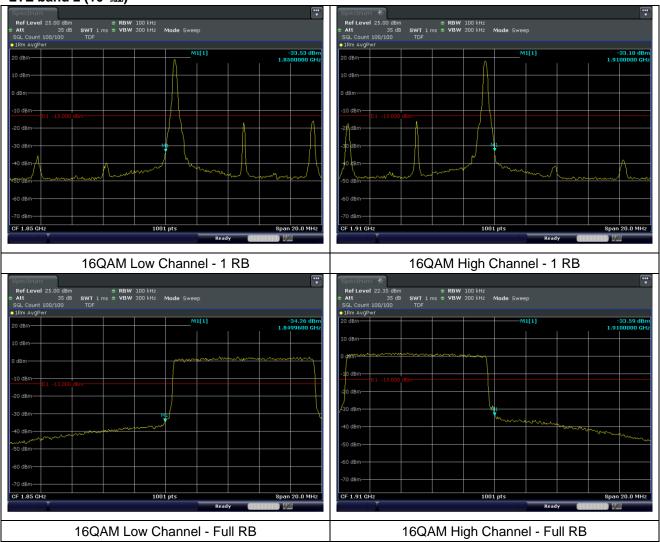




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LTE band 2 (10 脈)

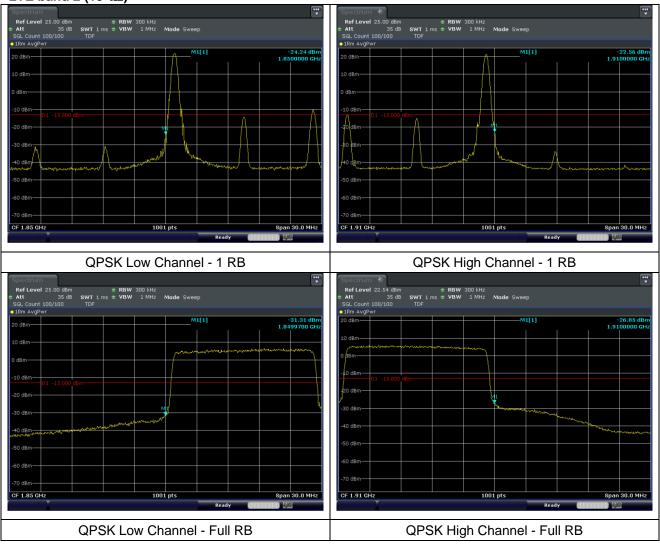




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LTE band 2 (15 脈)

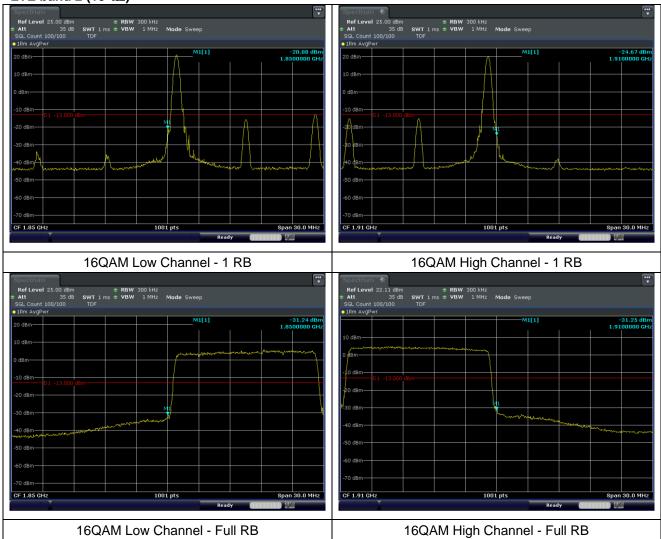




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LTE band 2 (15 脈)

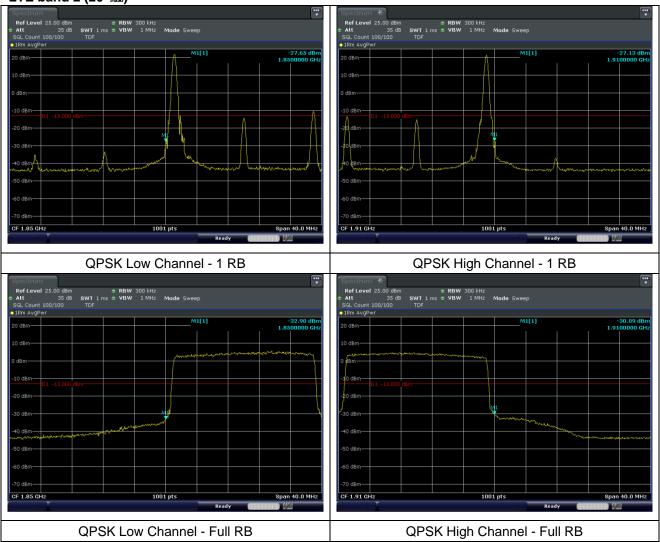




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LTE band 2 (20 脈)

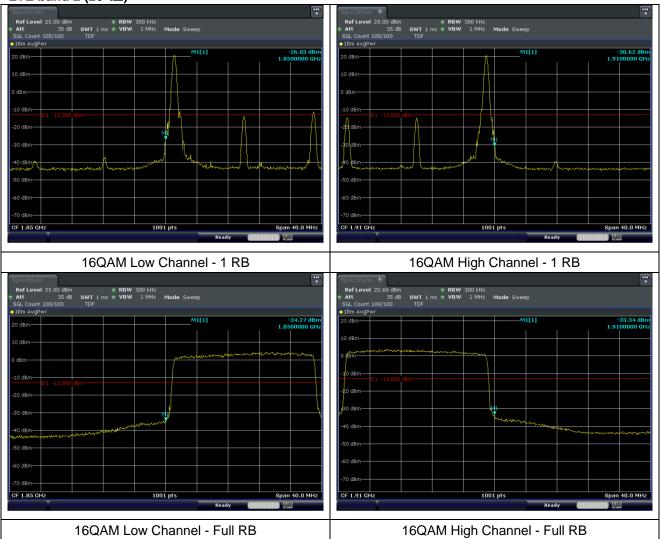




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LTE band 2 (20 脈)

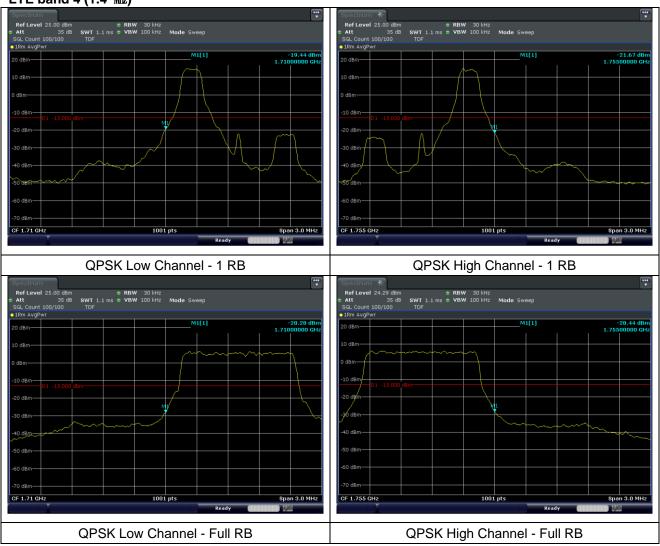




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LTE band 4 (1.4 账)

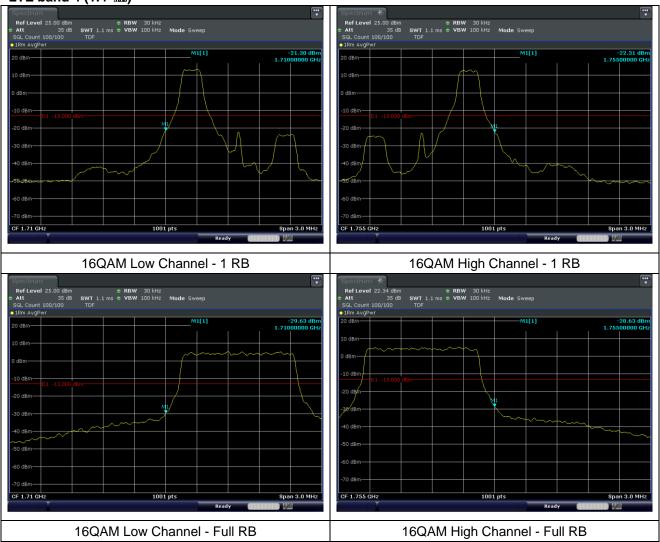




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LTE band 4 (1.4 账)

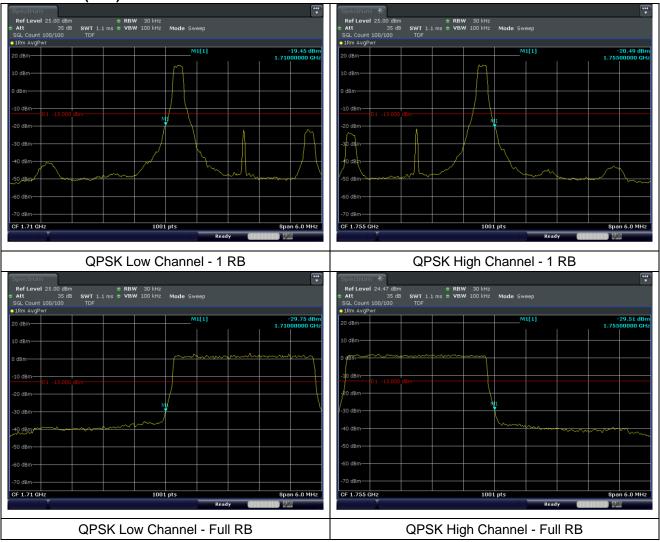




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LTE band 4 (3 脈)

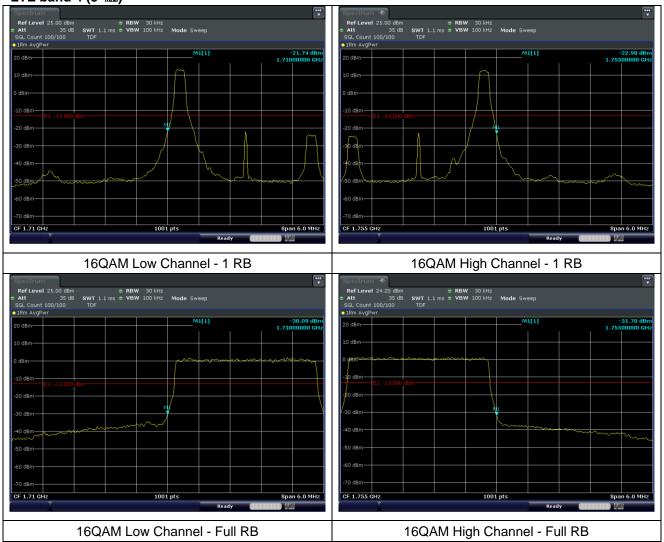




4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 Tel. +82 31 428 5700 / Fax. +82 31 427 2370 http://www.sgsgroup.kr

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LTE band 4 (3 脈)

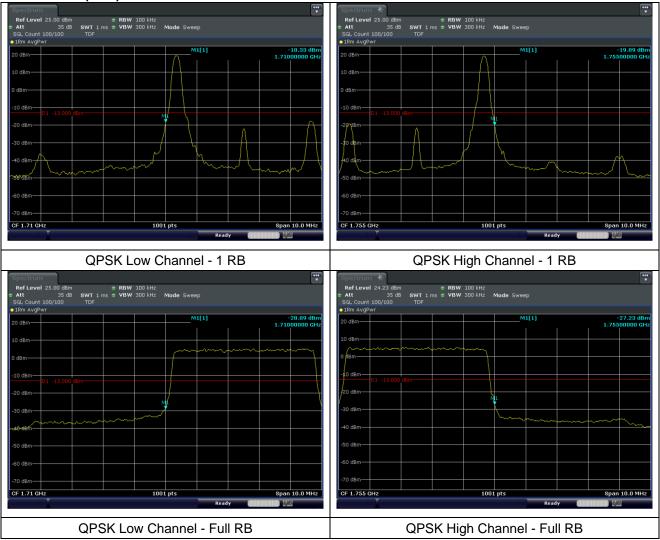




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LTE band 4 (5 脈)

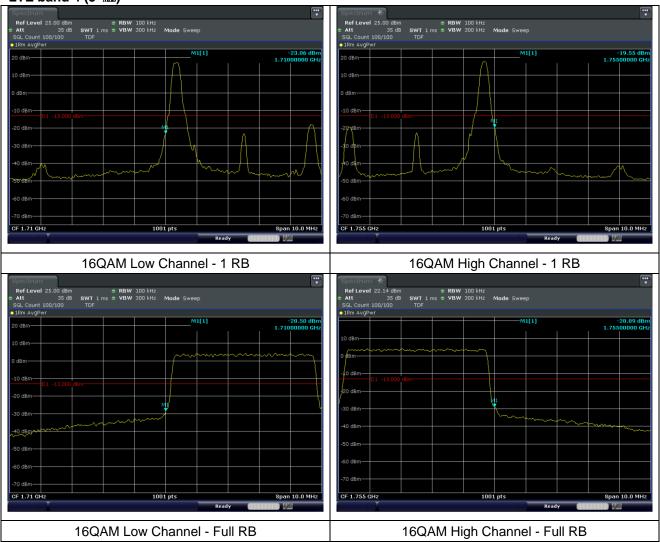




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LTE band 4 (5 脈)

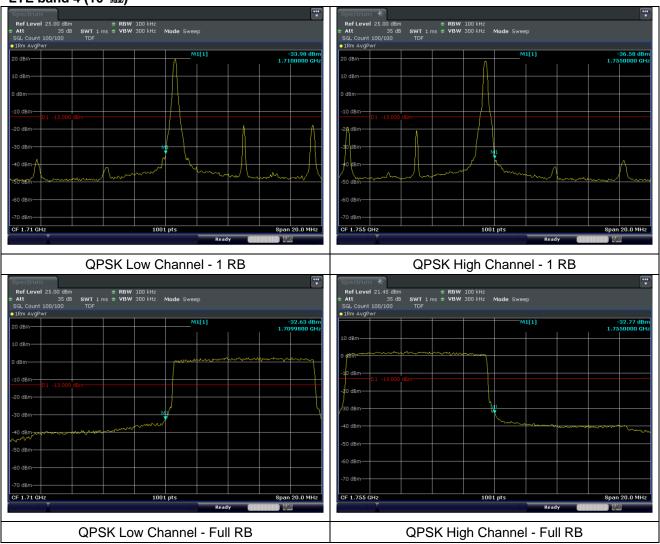




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LTE band 4 (10 脈)

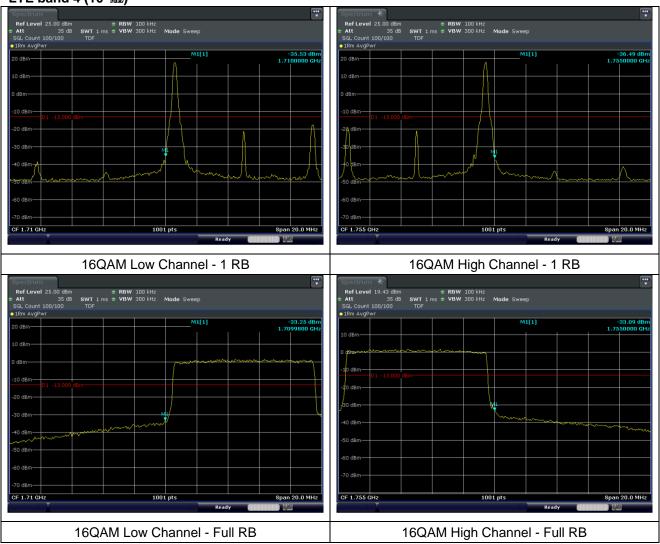




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LTE band 4 (10 脈)

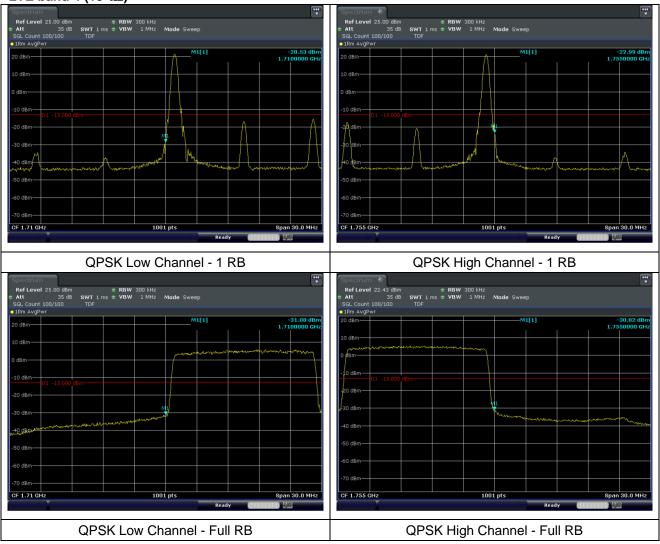




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LTE band 4 (15 脈)

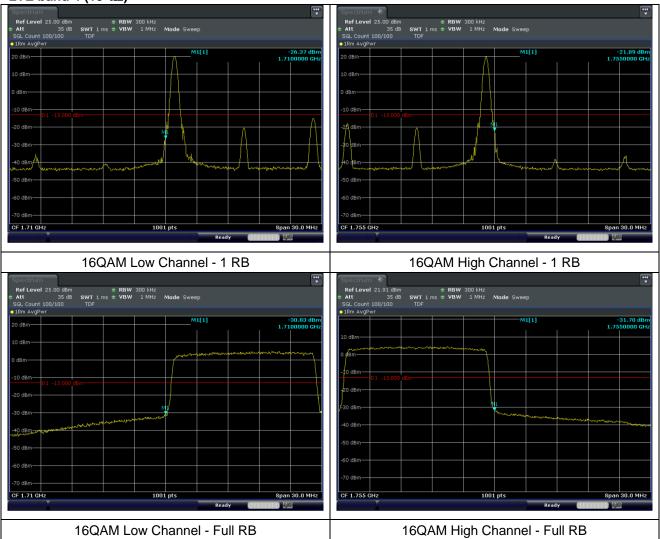




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LTE band 4 (15 脈)





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LTE band 4 (20 脈)

